

# TriMark<sup>®</sup>

DOOR SYSTEMS  
*Access to Excellence*



**GLOBAL  
REACH**

**ACCESS  
SOLUTIONS**



**TALENTED PEOPLE**

**INNOVATION**

# Mission / Vision

**We focus on “door systems” ~ to control access in and out, while emphasizing safety, security and convenience. We:**

- Provide reasonably priced, tailored, quality mechanical, electrical, electronic products and systems that stress fit for function
- Are responsive and easy to do business with
- Make promises we can keep and keep promises we make

**Our focus on “door systems” means applying our special knowledge:**

- To functions: opening/closing, structural support, safety, security, good appearance, quality, sound of operation, ease of manufacturing and assembly.
- To components: latches, locks, striker bolts, hinges, inside handles, exterior handles, rods/cables, windows and regulators, window tracks, switches, wiring, inside assist handles, interior trim, structure and exterior skin.

## Industries

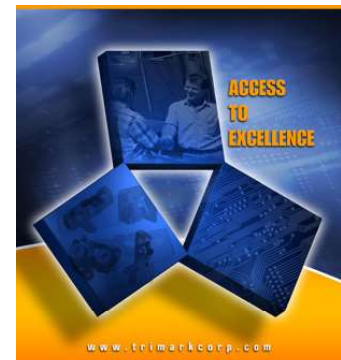
- Off-Highway
- Recreational Vehicle
- Specialty Vehicle
- On-Highway Truck
- Armored Vehicle
- Mass Transit
- Power Sport
- Industrial/Cabinet

## Products

- Latches
- Handles
- Linkages
- Electronics/  
Mechatronics
- Hinges
- Lock/Keys

TriMark Corporation is an employee-owned company and is a recognized leader in the design and manufacture of quality hardware products for the recreational vehicle, agricultural, truck, construction, armored vehicle, and enclosure markets. We offer a wide range of locks, handles, latches, striker bolts, linkages, electronic access, complete door access systems, ignition switches and related components.

TriMark Corporate headquarters is located in New Hampton, Iowa, USA and serves the China market through TriMark Xuzhou and the European market through its subsidiary, TriMark Europe Ltd, based at Bardon Hill, near Coalville in Leicestershire and also at Sutton in Surrey. TriMark has been a valued partner supplier to Caterpillar for more than 40 years, in addition to other global customers, including John Deere, Volvo, Paccar, AGCO, Case New Holland, and Winnebago, who provide world class vehicles and equipment.





# TriMark's Off-the-Shelf Solutions Benefits Our Customers

TriMark is always expanding our Off-the-Shelf product solutions base; so many times, we can provide an access hardware solution without having to “reinvent the wheel.” We also have components available that can be assembled in a different Bill of Material that does not require anything further than a part number release. In addition, we can modify existing products based on the application needs, thereby shortening the development cycle which our customers appreciate.



## Application Engineering

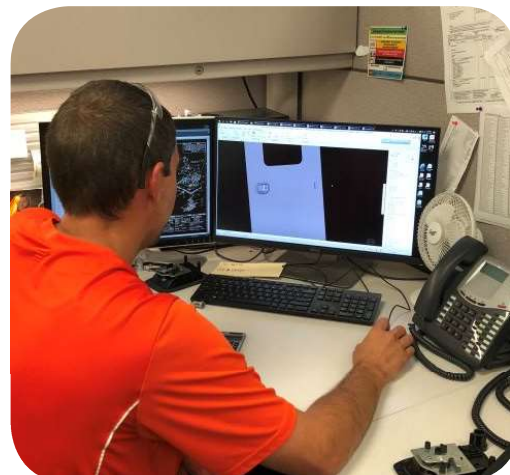
Application Engineering means that we are applying all kinds of technology to tackle a customer challenge. For example, a customer may come to us and say, “this is what I want to do” and we then figure out what kind of product and technology we will need to employ to solve that challenge.

TriMark engineers work closely with our customers early in the development process in order to select and/or design the best access hardware solution thereby avoiding unnecessary product and engineering expense. Our Application Engineering Experts are available to assist you in properly selecting the products and components to complete your system solution.

## Custom Capabilities

If standard or modified products do not provide the solution for your immediate needs, TriMark can develop an all new design that’s engineered specifically for your requirements and application. Our talented staff of mechanical and electrical engineers can work with you and your team to develop a custom solution that will help you differentiate your vehicle in terms of performance, functionality and aesthetics.

**Bottom Line - TriMark Can Offer a Full Range of Platform and Product Solutions – Just Ask Us!**



## Convenience and Security are Hallmarks of KeyOne™ Plus

Gone are the days when convenience and security are mutually exclusive terms when describing key code requirements and single key access control. TriMark offers a single-key locking solution for the operation of multiple locking products on a vehicle. Our “One Key — One Vehicle” program is made possible with TriMark’s patented KeyOne™ Plus modular lock design that can be easily installed as the last step.



- **Easy** - Allows the OEM's to line-sequence the key codes without ordering locks or hardware kits in advance of builds.
- **Complete** - Locking program can include ignition locks and fuel caps in addition to cab and compartment doors facilitating key code coordination.
- **Quality** - Automotive-style lock cylinder features a high-quality shutter and perimeter waterproof seal reduces the infiltration of dirt and water into the lock.
- **Secure** - Available in a wide variety of codes allowing flexibility in keying a unit alike. To protect overall security, KeyOne™ Plus can be keyed differently for each vehicle.

◇ For the ultimate in security; TriMark’s SecureOne Plus locking system features an automotive style, side cut milled key that is 3mm (.118) thick. This locking system is more difficult to pick and duplicate than conventional bitted keys.



◇ Providing 1000 key codes, this locking system is also available with master keying and offers higher level of refinement, performance, and security to your products.

- **Serviceable** - Able to service the lock cylinder offering OEM’s and dealers the option to replace in the event of lost keys or lock failure.
- **Upgradeable** – Able to upgrade the lock cylinder offering the option to change the level of security and convenience through aftermarket sales.
- **Convenient** - No disassembly of the product or door is required.



### Available:

- On most TriMark entrance door handles and baggage/compartment locks
- In a wide variety of codes which allows the customer flexibility in keying a unit alike or differently
- Available in reversible profiles which increases ease of operation, customer convenience and satisfaction
- SecureOne Plus snake cut key for the ultimate in security and high-end refinement
- Master keyed versions are also available, providing dealers, fleet owners, and service technicians-controlled access for convenience and accessibility

Look for the KeyOne™ Plus logo identifying products that are available with this system.

# e-ASK System (electronic Access & Security Keyless-entry)

TriMark has expanded its door systems expertise by adding electronic control to its product offering. The addition of keyless electrical products adds further functionality, convenience, productivity and security to our systems. This selection of compatible components allows for complete keyless entry for on or off-highway vehicle applications.

TriMark's e-ASK (electronic Access & Security Keyless-entry) provides an e-FOB RF transmitter/receiver and/or a 5-button e-PAD for true keyless operation.

Your choice of several systems can provide basic entrance door lock/unlock or additional control of compartment doors, windows, ignition, lighting, pneumatics, hydraulics, horns, and sirens plus other security systems. Additional functionality can be realized to suit your special requirements via customization of internal settings and software.



## TriMark ADVANTAGE:

- Compatible with CAN SAE J1939, RV-C, and other multiplexing protocols
- Integrated systems approach
- Rugged and reliable systems for on and off-road applications
- Advanced technology expertise
- Ability to integrate with various vehicle, machine, and equipment sub-systems
- Patented products
- Full service supplier
- Excellent design and application support
- Global presence
- Keyless entry: Radio frequency FOB, keypad, passive keyless entry

TriMark's e-ASK systems are compatible with CAN SAE J1939, RV-C, and other multiplexing protocols.

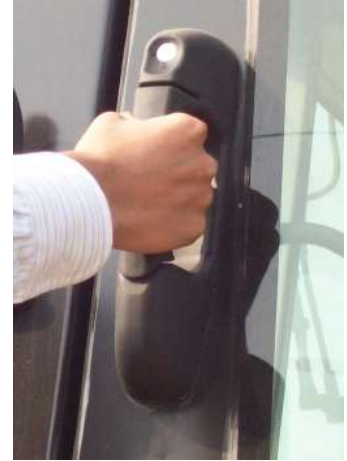
**Entrance doors, compartment doors or baggage doors, RF transmitter FOB, keypad or both...now you can have it all. Keyless convenience and security from a simple push of a button. You can count on TriMark to be your partner in keyless-entry integration.**



# Open the Door

TriMark understands the value of a great **first impression**. Often the first hands-on impression a potential owner or operator of recreational, commercial or industrial equipment gets is the door system. When they open the door they immediately know the **attention to detail** and level of quality they are in store for. This attention to detail and quality in a door system can be a “make or break” for a potential purchaser.

TriMark is one of the world’s leading innovators, designers and manufacturers of vehicle hardware. We provide a wide range of handles, latches, striker bolts, linkages and related system components of truly **exceptional quality** — our products not only set the standards for design and value, they are proven in the field time and time again.



# True Partnership

TriMark has built its reputation as a **partner** to vehicle manufacturers. Our Engineering Services offer you expertise, ideas, and resources for your **product development** projects saving your company time and money.

- Global application experts design systems and products so that the first and lasting impression is excellence
- Engineering capabilities include PTC, Creo CAD, finite element analysis, mechanism/motion studies, prototyping, product validation and testing
- No worry logistics services keep supply lines consistent in the ever-changing business of equipment manufacturing
- World-class manufacturing produces the highest quality product at competitive costs
- World-class test facilities provide the best next thing to real-world validation so that designs will thrive in the toughest environments
- Program/project management reduces the strain on your engineering
- Over 40 years of experience in insuring best-in-class supplier performance



# Door Systems—Providing the Big Picture Solutions

**TriMark offers a comprehensive selection of quality hardware products. Our application engineering experts can assist you in selecting the right products and components to complete your system solution.**

Designing and implementing a full door system solution requires a wide range of high-quality products working together to form a rugged, reliable system. As a world leader in vehicle door hardware, TriMark's products sets the standard in excellence, design and value in the field. Our latches, strikers, handles, hinges, linkages, locks, accessories and related system components ensure complete and proven compatibility—time and time again.

At TriMark, we take pride in the details, such as opening/closing efforts, structural support, appearance, construction, safety, security, ease of assembly, quality, durability, sound of operation and overall value. The result? A full door system solution that's fit for function today and well into the future.

## **Rotary Latch:**

The rotary latch is the heart of the door system. Years of careful engineering and customer collaboration have led to latches that feature the highest levels of quality, security and strength to meet virtually any application.

## **Logic Mechanism:**

TriMark's logic mechanisms connect handles and latches and provide unique locking and operating functions. The connectivity and functionality of which meet FMVSS 206 (ECE R11) requirements and will form part of the latch assembly or exterior handle assembly.

## **Exterior Handle:**

TriMark's exterior handles are developed with hands-on applications in mind. Many are designed around a specific market or application, taking into consideration style, functionality, vehicle width and desired level of security.

## **Interior Releases:**

Today's door designs demand ergonomic placement and ease of function for the inside release. As always, we also consider style, functionality, mounting, installation, materials and finish.

## **Rods/Cables:**

The varied applications for door systems demand versatility. TriMark excels at remote release, utilizing rods and/or cable connections. Our rods and cables efficiently transfer mechanical input from the operator and enable quick and safe operation.

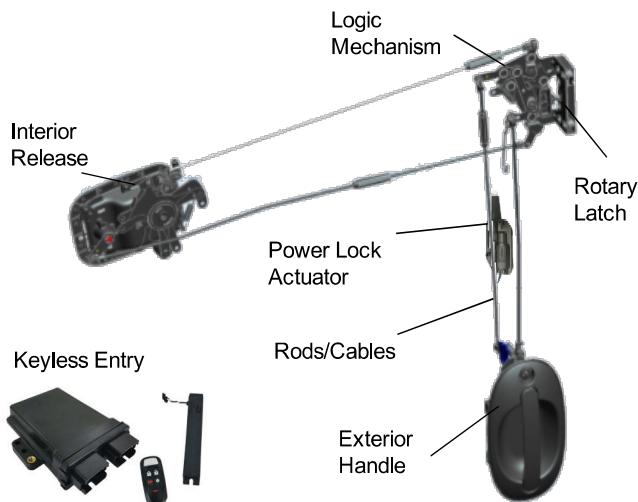
## **Power Lock Actuator:**

TriMark's power lock actuators are designed to integrate with our handles and latches. They're equipped to accept a power lock actuator, and provide an electrically powered lock/unlock function, as well as facilitate mechanical override.

## **Keyless Entry:**

For additional convenience, functionality and safety, our comprehensive selection of components and systems allows for complete keyless entry, security and ignition control for vehicles and equipment. Standard controls are available for immediate integration, as well as custom adaptation for specific customer requirements.

Details of all our products and more are available on our website [www.trimarkcorp.com](http://www.trimarkcorp.com) or contact our Application Engineering Experts to assist you in selecting the exact products to complete your individual system solution.



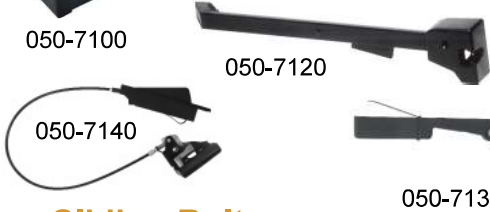
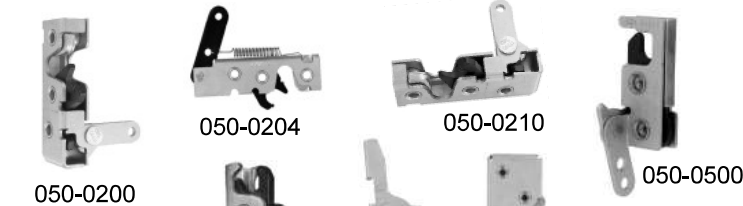
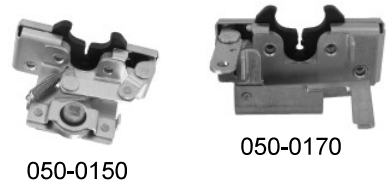
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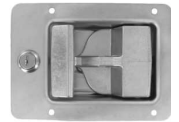


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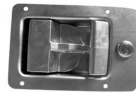
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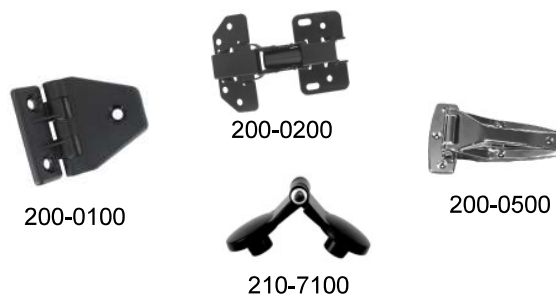
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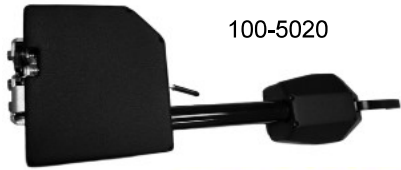
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Intuitive Motion Control System

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# 050-0100 Two Rotor Latch

This versatile two rotor latch is designed for medium to heavy-duty applications for on or off-highway entrance doors, compartments and access panels. It features a variety of trip levers and mounting axles for ease of mounting and applications and is FMVSS 206 (ECE R11) compliant.



- Door thicknesses of 1-7/8" (47.6mm) or greater
- Door weights of 50-200 lbs (23-91 kg)
- Door seal pressures of 50-150 lbs (23-68 kg) (suggested for best results)
- Use with TriMark 070-0200 Striker Bolt

## AVAILABLE:

- In left or right hand configurations (right hand shown)
- With (4) 1/4-20 UNC or M6 x 1 threaded axles
- With trip lever options
- Straddle mount option

## MATERIAL:

- Internal latch components: Heat treated, smooth edge stamped steel
- Case halves: High strength steel
- Springs: Non-corrosive stainless steel

## FINISH:

- Zinc plated, clear chromate steel components

All dimensions are for reference only. For more information visit [www.trimarkcorp.com](http://www.trimarkcorp.com)

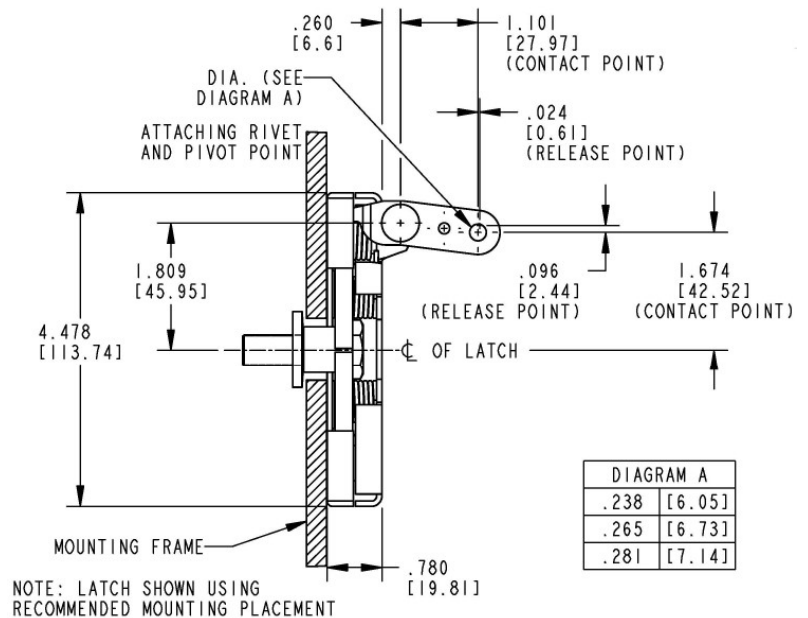
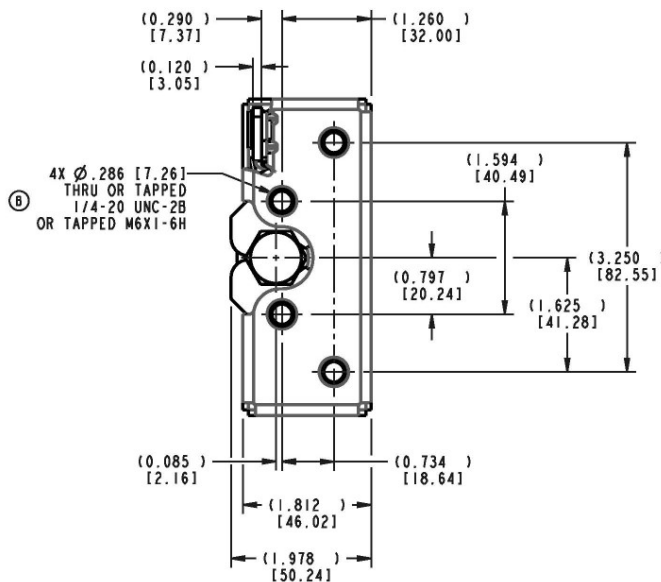
## INSTALLATION:

- (4) 1/4-20 UNC grade 5 or M6 x 1 class 8.8 or better fasteners are required (not included)
- Tighten to the fastener manufacturers' recommended torque value, however, do not exceed 120 in-lbs (13.3 N-m)
- Fastener mounting holes diameter should not exceed .281" (7.1mm)

## INTERNAL LUBRICATION:

- Oven-cured dry lubricant is applied at factory on all critical moving parts

Note that this 050-0100 Two-Rotor Latch complies with FMVSS 206 (ECE R11) when tested accordance with SAE J839 and that this product meets FMVSS 206 (ECE R11) load requirements and may be used in FMVSS 206 (ECE R11) applications pending TriMark application approval. Please refer to page 158 for the complete FMVSS 206 (ECE R11) statement.



# Other 050-0100 Two Rotor Latches

## DESIGNED FOR:

- Medium to heavy weight doors for on or off-highway applications
- Applications where it is desirable to have the release mechanism in-line with the latch (050-0103 Two Rotor Latch 2-Position Intertrip)
- Applications where it is desirable to provide additional support to the trip lever (050-0107 and 050-0117 Two Rotor Latch With Coaxial Trip)
- Applications where it is desirable to have a single position rotary latch (050-0110 Two Rotor 1-Position Latch)
- Door thicknesses of 1-7/8" or greater (47.6mm)
- Door weights of 50-200 lbs. (23-91kg)
- Door seal pressures of 50-150 lbs. (23-68kg) (suggested for best results)
- Use with TriMark 070-0200 Striker Bolt

## AVAILABLE:

- In left or right hand configurations
- With (4) 1/4-20 UNC, M6 x 1 threaded axles or .286" (7.3mm) diameter "thru" axles
- With trip lever options (please inquire)
- With a torsion return spring (050-0107)
- Straddle mount option (050-0110)

## FINISH:

- Zinc plated, clear chromate steel components

## MATERIAL:

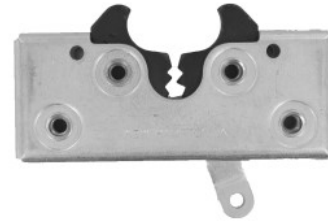
- Internal latch components: Heat treated, smooth edge stamped steel
- Case halves: High strength steel
- Springs: Non-corrosive stainless steel

## INTERNAL LUBRICATION:

- Oven-cured dry lubricant is applied at factory on all critical moving parts

## INSTALLATION:

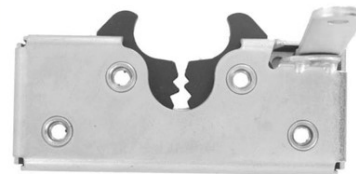
- (4) 1/4-20 UNC grade 5 or M6 x 1 class 8.8 or better fasteners are required (not included)
- Tighten to the fastener manufacturers' recommended torque value, however, do not exceed 120 in-lbs. (13.3 N-m)
- Fastener mounting holes diameter should not exceed .281" (7.1 mm)



**050-0103 Two Rotor Latch 2-Position Intertrip**



**050-0107 Two Rotor Latch With Coaxial Trip**



**050-0110 Two Rotor Single-Position Latch**



**050-0113 Two Rotor Latch Single-Position Intertrip**



**050-0117 Two Rotor Latch With Coaxial Trip**

**050-0103 and 050-0107**—Note that this 050-0103 and 050-0107 latches comply with FMVSS 206 (ECE R11) when tested accordance with SAE J839 and that this product meets FMVSS 206 (ECE R11) load requirements and may be used in FMVSS 206 (ECE R11) applications pending TriMark application approval. Please refer to page 158 for the complete FMVSS 206 (ECE R11) statement.

**050-0110, 050-0113 and 050-0117** —Caution: Single position rotary latches do not comply with FMVSS 206 (ECE R11) requirements



# 050-0150 Two Rotor Latch & Release Linkage

This two rotor latch is designed for medium to heavy-duty applications for off-highway entrance doors. It features an integrated linkage that allows for direct L-handle actuation and provides for ease of mounting and applications.

## DESIGNED FOR:

- Door thicknesses of 1-7/8" (47.6mm) or greater
- Door weights of 50-200 lbs. (23-91 kg)
- Door seal pressures of 50-150 lbs. (23-68 kg) (suggested for best results)
- Use with TriMark 070-0200 Striker Bolt

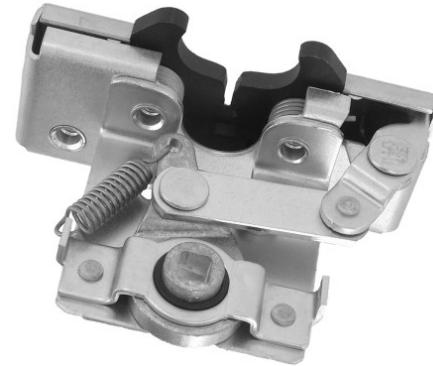
## AVAILABLE:

- In left or right hand configurations (right hand shown)
- With drive bar receiver parallel to striker bolt or rotated in 15° increments (as illustrated)

## INSTALLATION:

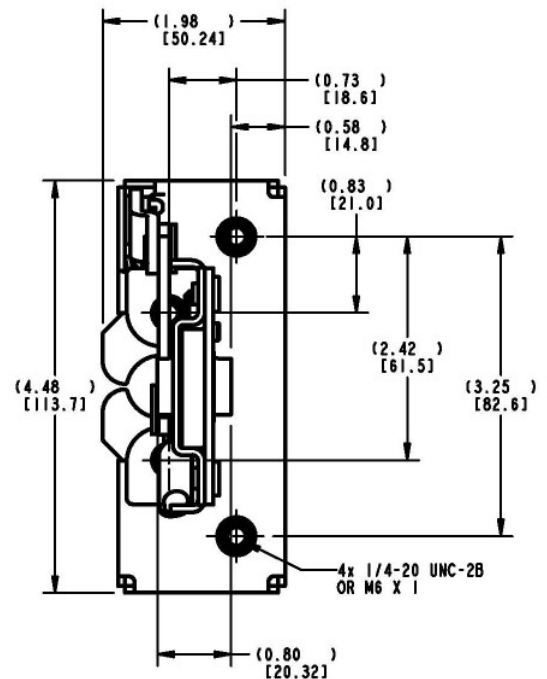
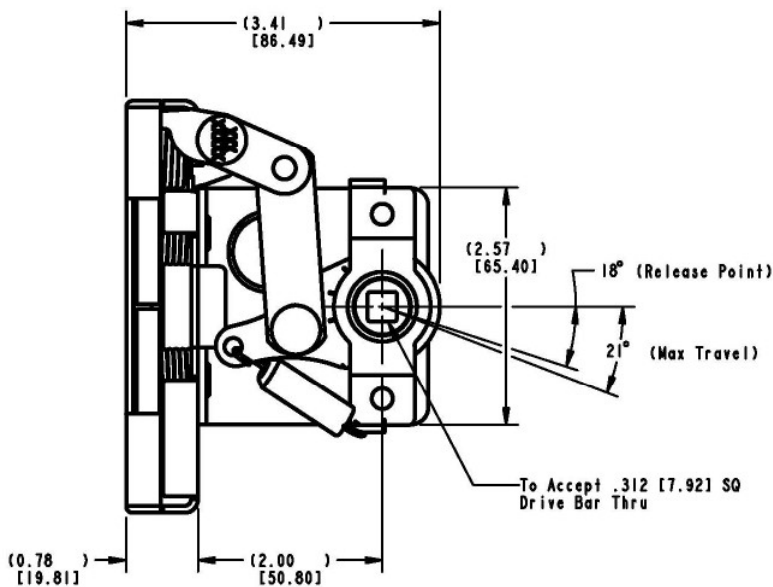
- (4) 1/4-20 UNC grade 5 mounting fasteners (not included)
- Tighten to the fastener manufacturers' recommended torque value, however, do not exceed 120 in-lbs (13 N-m)
- Maximum .312" (7.9mm) diameter mounting holes

All dimensions are for reference only. For more information visit [www.trimarkcorp.com](http://www.trimarkcorp.com)



Note that this 050-0150 Two-Rotor Latch & Release Linkage complies with FMVSS 206 (ECE R11) when tested accordance with SAE J839 and that this product meets FMVSS 206 (ECE R11) load requirements and may be used in FMVSS 206 (ECE R11) applications pending TriMark application approval. Please refer to page 158 for the complete FMVSS 206 (ECE R11) statement.

**Caution:** Product does not meet the locking requirements for FMVSS 206 (ECE R11).



# 050-0170 Two Rotor Latch With Bellcrank Linkage

This two rotor latch is designed for medium to heavy-duty applications for off-highway entrance doors where push handle actuation is desired. It features an integrated linkage that allows for direct push button actuation and direct inside release and provides for ease of mounting and applications.

## DESIGNED FOR:

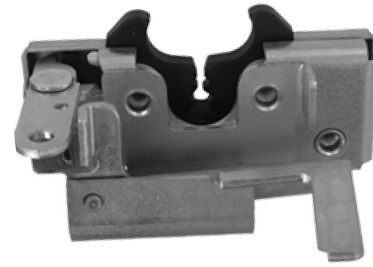
- Door thicknesses of 1-7/8" (47.6mm) or greater
- Door weights of 50-200 lbs. (23-91 kg)
- Door seal pressures of 50-150 lbs. (23-68 kg) (suggested for best results)
- Use with TriMark 070-0200 Striker Bolt

## AVAILABLE:

- In left or right hand configurations (left hand shown)
- With (4) 1/4-20 UNC or M6 x 1 threaded axles
- With inside release lever options and trip lever options

## INSTALLATION:

- (4) 1/4-20 UNC grade 5 or M6 x 1 class 8.8 mounting fasteners (not included)
- Tighten to the fastener manufacturers' recommended torque value, however, do not exceed 120 in-lbs (13.3 N-m)
- Maximum .281" (7.1mm) diameter mounting holes



## FINISH:

- Zinc plated, clear chromate steel components

## MATERIAL:

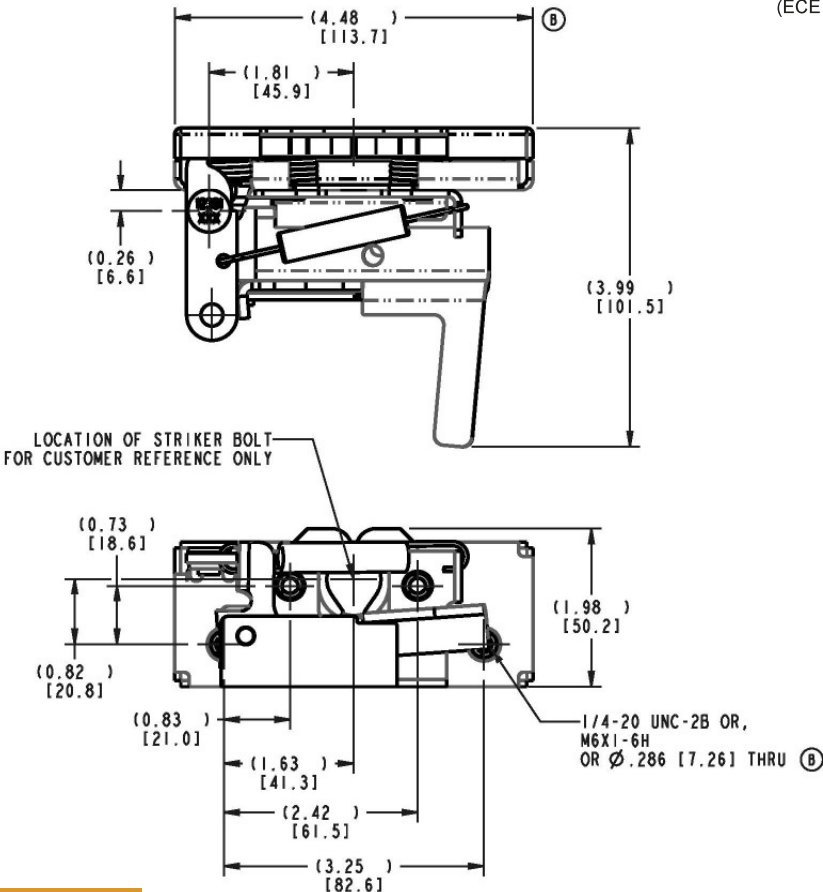
- Internal latch components: Heat treated, smooth edge stamped steel
- Case halves: High strength steel
- Springs: Non-corrosive stainless steel

## INTERNAL LUBRICATION:

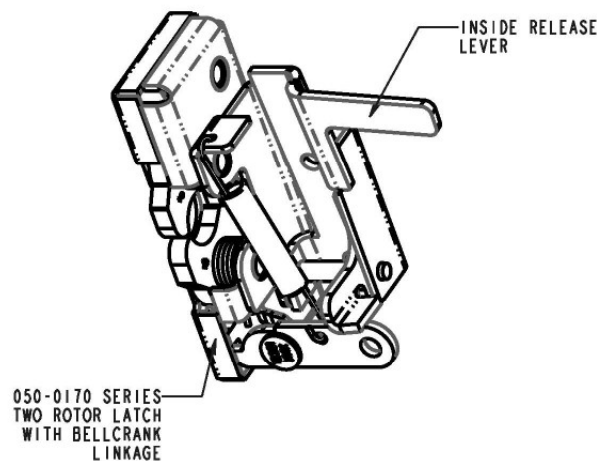
- Oven-cured dry lubricant is applied at factory on all critical moving parts

Note that this 050-0170 Two-Rotor Latch With Bellcrank Linkage complies with FMVSS 206 (ECE R11) when tested accordance with SAE J839 and that this product meets FMVSS 206 (ECE R11) load requirements and may be used in FMVSS 206 (ECE R11) applications pending TriMark application approval. Please refer to page 158 for the complete FMVSS 206 (ECE R11) statement.

**Caution:** Product does not meet the locking requirements for FMVSS 206 (ECE R11).



All dimensions are for reference only. For more information visit [www.trimarkcorp.com](http://www.trimarkcorp.com)



# 050-0200 Slimline Rotary Latch

This compact single rotor latch is designed for light to medium applications for on or off-highway entrance doors, compartments and access panels. It features a variety of trip levers and mounting axles for ease of mounting and applications and is FMVSS 206 (ECE R11) compliant.



- Thin, light or medium weight door applications
- Door weights up to 75 lbs. (34 kg)
- Door seal pressures of 20-25 lbs. (9-11 kg) recommended for best results (not to exceed 50 lbs. (23 kg))
- Visible surface installation or concealed installation
- Use with TriMark 070-0100 Striker Bolt

## AVAILABLE:

- Left or right hand configurations (left hand shown)
- With standard .265" (6.7mm) diameter "thru" axles as shown, 1/4-20 UNC threaded axles or M6 x 1.0 threaded axles

## FINISH:

- Zinc plated, clear chromate steel components
- Stainless steel

## MATERIAL:

- Internal latch components: Heat treated smooth edge stamped steel
- Springs: Non-corrosive stainless steel
- Case halves: High strength steel

**All dimensions are for reference only. For more information visit [www.trimarkcorp.com](http://www.trimarkcorp.com)**

## INSTALLATION:

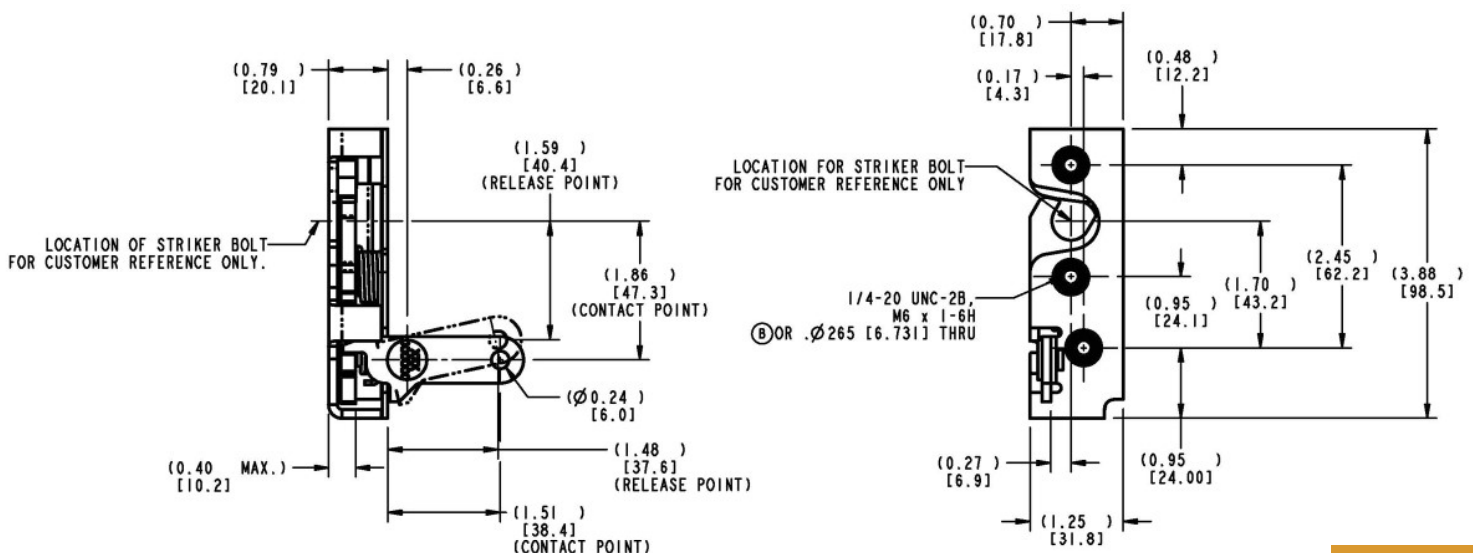
- (3) 1/4-20 UNC grade 5-type or M6 x 1 class 8.8 or better fasteners are recommended
- Vertical mounting with support ramp at top is required for proper alignment and subsequent engagement of locking pawl and striker bolt
- Tighten to the fastener manufacturers' recommended torque value, however, do not exceed 120 in-lbs. (13.3 N-m)
- Note: In order to pass the FMVSS 206 (ECE R11) strength requirements for this latch family, latches that contain 1/4-20 UNC or M6 x 1.0 threaded axles must utilize fasteners that have sufficient length so that the end of the fastener passes completely through the entire axle and extend beyond the outside surface of the latch case

## INTERNAL LUBRICATION:

- Oven-cured dry lubricant is applied on all critical moving parts

U.S. Patent No. 7,156,430 / 7,320,488

Note that this 050-0200 Slimline Rotary Latch complies with FMVSS 206 (ECE R11) when tested accordance with SAE J839 and that this product meets FMVSS 206 (ECE R11) load requirements and may be used in FMVSS 206 (ECE R11) applications pending TriMark application approval. Please refer to page 158 for the complete FMVSS 206 (ECE R11) statement.



# Other 050-0200 Slimline Latches

## DESIGNED FOR:

- Thin, light or medium weight door applications requiring resistance to dust and vibration
- Door weights up to 75 lbs. (34 kg)
- Door seal pressures of 20-25 lbs. (9-11 kg) recommended for best results. Not to exceed 50 lbs. (23 kg)
- Visible surface installation or concealed installation
- Applications where it is desirable to have the release mechanism in line with the latch (050-0204)
- Applications where it is desirable to have a single position rotor latch (050-0210)
- Use with TriMark 070-0100 Striker Bolt

## AVAILABLE:

- Left or right hand configurations
- With standard .265" (6.7mm) diameter "thru" axles as shown, 1/4-20 UNC threaded axles or M6 x 1.0 threaded axles

## FINISH:

- Zinc plated, clear chromate steel components

## MATERIAL:

- Internal latch components: Heat treated smooth edge stamped steel
- Springs: Non-corrosive stainless steel
- Case halves: High strength steel

## INSTALLATION:

- (3) 1/4-20 UNC grade 5-type or M6 x 1 class 8.8 or better fasteners are recommended
- Vertical mounting with support ramp at top is required for proper alignment and subsequent engagement of locking pawl and striker bolt
- Tighten to the fastener manufacturers' recommended torque value, however, do not exceed 120 in-lbs. (13.3 N-m)
- Use with TriMark 070-0100 Striker Bolt

## INTERNAL LUBRICATION:

- Oven-cured dry lubricant is applied on all critical moving parts
- Additional lubrication to be applied in the field if required

**All dimensions are for reference only. For more information visit [www.trimarkcorp.com](http://www.trimarkcorp.com)**



### 050-0204 Slimline Latch With Inline Trip Lever

Note that this 050-0200 Slimline Rotary Latch complies with FMVSS 206 (ECE R11) when tested accordance with SAE J839 and that this product meets FMVSS 206 (ECE R11) load requirements and may be used in FMVSS 206 (ECE R11) applications pending TriMark application approval. Please refer to page 158 for the complete FMVSS 206 (ECE R11) statement.



### 050-0210 Slimline Rotary Latch Single Position

**Caution:** Single position rotary latches do not comply with FMVSS 206 (ECE R11) requirements.



# 050-0250 Single Rotor Latch & Linkage Assembly

This latch and linkage system is intended for occupant or exit/entry doors for recreational vehicles including motor homes, travel trailers and specialty vehicles including ambulance, fire/rescue and off-highway vehicles (light duty) that require compliance to FMVSS 206 (ECE R11) standards. The flexible design allows for internal or external door mounting and provides automotive logic function with remote activating handles.

- Door weights up to 75 lbs. (34 kg)
- Door seal pressures of 20-25 lbs. (9-11 kg) recommended for best results (not to exceed 50 lbs. (23 kg))
- Use with TriMark 070-0100 Striker Bolt

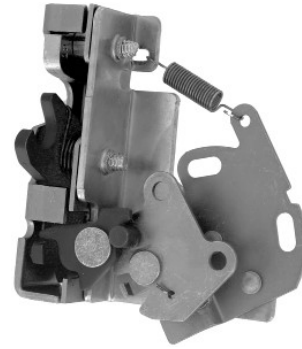
## AVAILABLE:

- Right or left hand configurations (left hand shown)
- Improved versions are available with increased mechanical advantage that reduce the release efforts at the exterior and interior handles. These versions retrofit with previous part numbers but may require connecting rod revisions, due to the increased length of the linkage and slightly revised rod connections points.
- Optional spacer plates may be required and is dependent upon the door frame thickness and the particular assembly used. Please consult TriMark engineering for the spacer plate distance required. Spacer plate is available to facilitate interior door mounting.

## FINISH:

- Zinc plated, clear chromate steel components
- Stainless steel springs

**All dimensions are for reference only. For more information visit [www.trimarkcorp.com](http://www.trimarkcorp.com)**



## MATERIAL:

- Internal latch components: Heat treated, smooth edge stamped steel
- Springs: Non-corrosive stainless steel
- Case halves: High strength steel

## INSTALLATION:

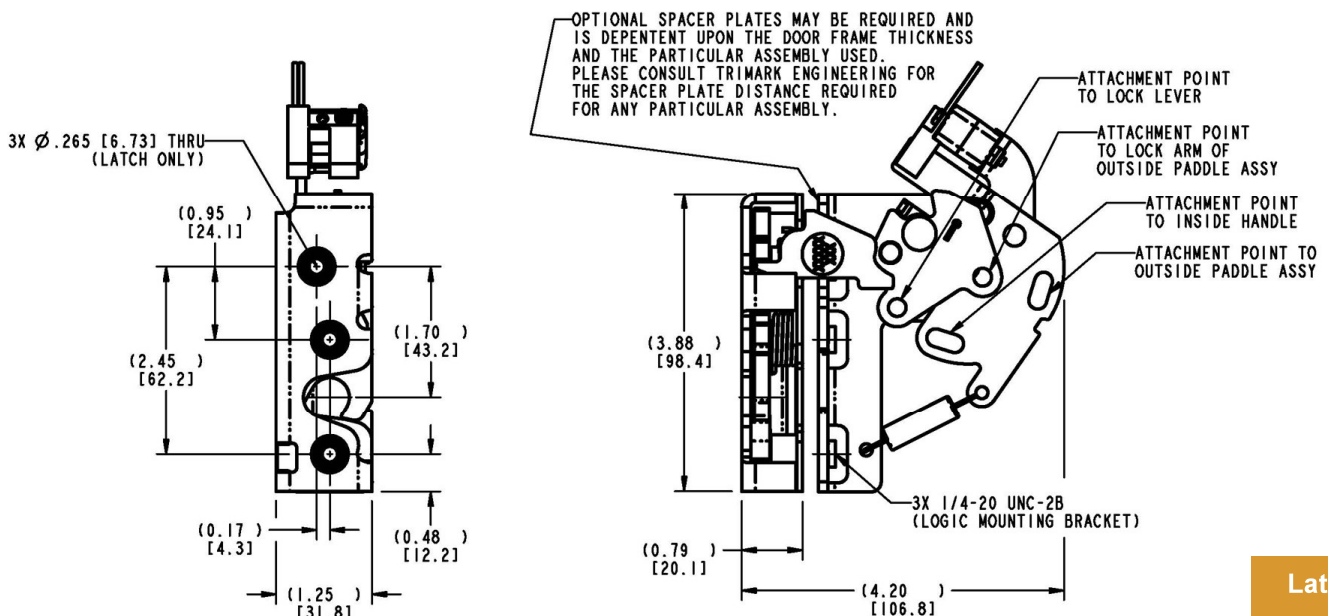
- Can be mounted inside or outside of door edge
- (3) 1/4-20 UNC grade 5-type or better fasteners are recommended (not included)
- Tighten to the manufacturers' recommended torque value, however, do not exceed 120 in-lbs (13.3 N-m)

## INTERNAL LUBRICATION:

- Oven-cured dry lubricant is applied on all critical moving parts

**U.S. Patent No. 7,156,430 / 7,320,488**

Note that this 050-0250 Single Rotor Latch & Linkage Assembly complies with FMVSS 206 (ECE R11) when tested accordance with SAE J839 and that this product meets FMVSS 206 (ECE R11) load requirements and may be used in FMVSS 206 (ECE R11) applications pending TriMark application approval. Please refer to page 158 for the complete FMVSS 206 (ECE R11) statement.



# 050-0275 Slimline Cargo Latch

This compact single rotor latch is designed for light duty applications for on-road utility cargo doors. This latch is not designed to comply with FMVSS 206 (ECE R11) requirements.

- Thin, light weight door applications
- Door weights up to 75 lbs. (34 kg)
- Door seal pressures of 20-25 lbs. (9-11 kg) recommended for best results
- Non FMVSS 206 (ECE R11) applications
- Use with TriMark 070-0100 Striker Bolt

## FEATURES/BENEFITS:

- Compact size allows for more head clearance in a cargo door application
- The case design allows the latch to be mounted closer to the door top and bottom edge for non-protruding striker details
- Allows for use with a hoop type striker (please inquire)

## AVAILABLE:

- Left or right hand configurations (left hand shown)
- With 1/4-20 axles as shown or (optional) .265" "thru" axles or M6 x 1.0 threaded axles
- Other actuation levers are available — please inquire

## FINISH:

- Zinc plated, clear chromate steel components
- Stainless steel springs



## MATERIAL:

- Internal latch components: Heat treated, smooth edge stamped steel
- Springs: Non-corrosive stainless steel
- Case halves: High strength steel

## INSTALLATION:

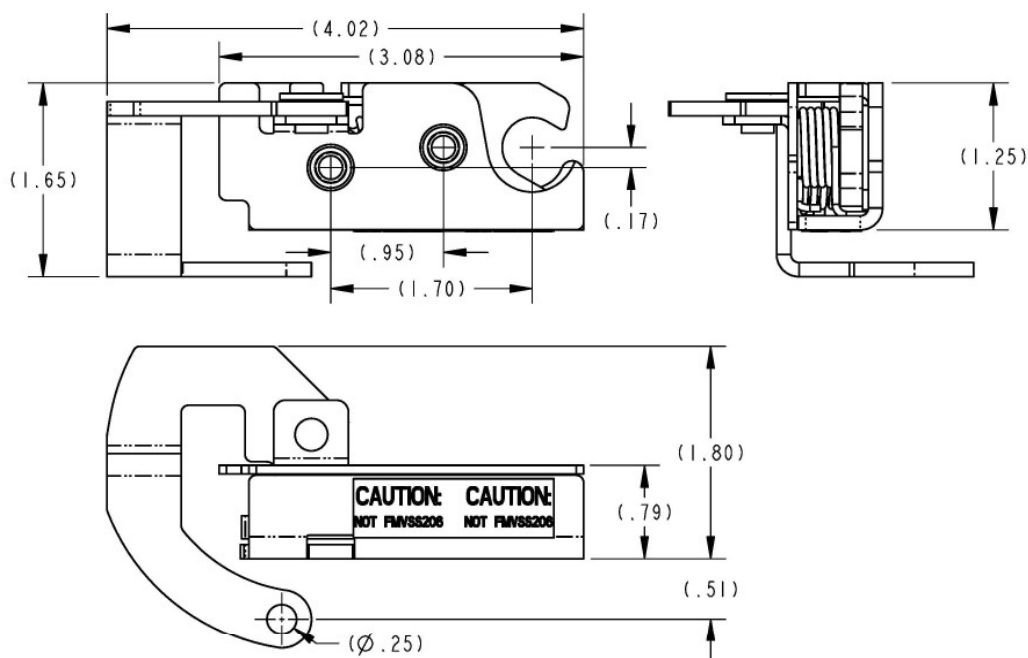
- (2) 1/4-20 UNC or M6 x 1.0 fasteners are recommended
- Tighten to the fastener manufacturers' recommended torque value, however, do not exceed 120 in-lbs. (13.3 N-m)

## INTERNAL LUBRICATION:

- Oven-cured dry lubricant is applied on all critical moving parts

**Caution:** Latch does not meet FMVSS 206 (ECE R11) load requirements.

**All dimensions are for reference only. For more information visit [www.trimarkcorp.com](http://www.trimarkcorp.com)**



Latches:

Single Rotor  
20

# 050-0300 Single Rotor Latch

This compact single rotor latch is designed for light to medium applications for on or off-highway compartment doors and access panels. It features a single or two position compact rotary and is available in a variety of trip levers and mounting axles for ease of mounting applications.

- Most storage, compartment and access doors
- Windows
- Any application where finger or remote release is desired
- Use with TriMark 070-0100 Striker Bolt

## MATERIAL:

- Strike, rotor and rotor catch: Heat treated, smooth edge stamped steel
- Case halves: Zinc plated, mild steel components

## AVAILABLE:

- Latch is non-handed, but trip lever handing is available
- With (2) 1/4-20 UNC or M6 x 1.0 threaded axles or .265" (6.7mm) diameter "thru" axles

All dimensions are for reference only. For more information visit [www.trimarkcorp.com](http://www.trimarkcorp.com)



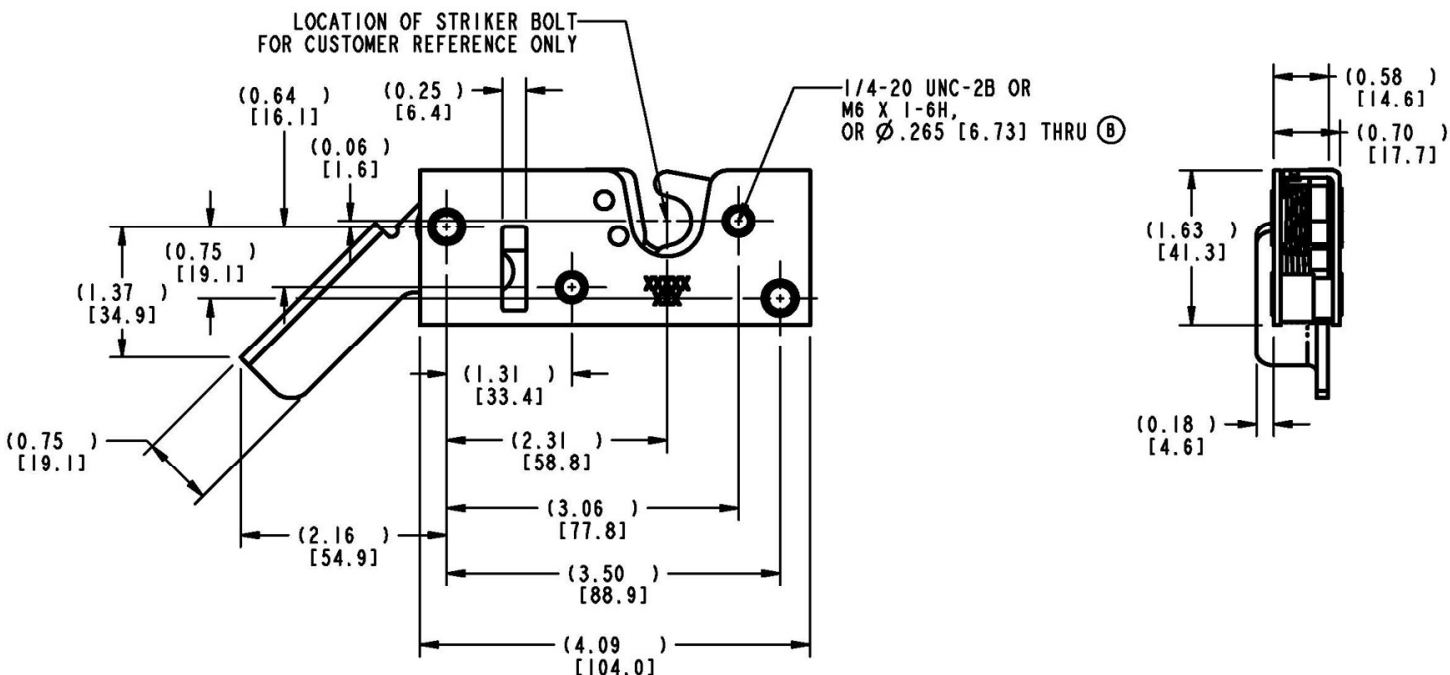
## INSTALLATION:

- (2) 1/4-20 UNC grade 5-type or M6 x 1.0 class 8.8 or better fasteners are required (not included)
- Tighten to fastener manufacturers' recommended torque value, however, do not exceed 120 in-lbs. (13.3 N-m)

## INTERNAL LUBRICATION:

- Oven-cured dry lubricant is applied to catch and rotor

Caution: Latch does not meet FMVSS 206 (ECE R11) load requirements.



# 050-0400 Floating Striker Single Rotor Latch

This robust single rotor latch is designed for medium to heavy-duty applications for on or off highway entrance doors, compartments and access panels. It features a vertical clearance rotor for high vibration applications and is available in a variety of trip levers and mounting axles for ease of mounting/application and is FMVSS 206 (ECE R11) compliant.



- Door thicknesses of 1-7/8" (47.6mm) or greater
- Door weights of 50-200 lbs. (23-91 kg)
- Door seal pressures of up to 150 lbs. (68 kg) (For best results, less than 50 lbs. (23 kg) suggested for best results)
- Visible surface installation or concealed inside installation
- Use with TriMark 070-0201 Striker Bolt

## FEATURES/BENEFITS:

- Allows for  $\pm .143$ " (3.63mm) strike travel from .789" (19.91mm) locating dimension
- Ideal for applications with high vibration loading and where controlled travel between the latch and strike is characteristic of the application
- Single position rotary style latching

## FINISH:

- Zinc plated, clear chromate steel components

## MATERIAL:

- Internal latch components: Heat treated, smooth edge stamped steel
- Case halves: High strength steel
- Springs: Non-corrosive stainless steel

## INSTALLATION:

- (4) 1/4-20 UNC grade 5 or M6 x 1 class 8.8-type fasteners are required (not included)
- Tighten to the fastener manufacturers' recommended torque value, however, do not exceed 120 in-lbs. (13 N-m)
- Fastener mounting holes diameter should not exceed .281" (7.1mm)

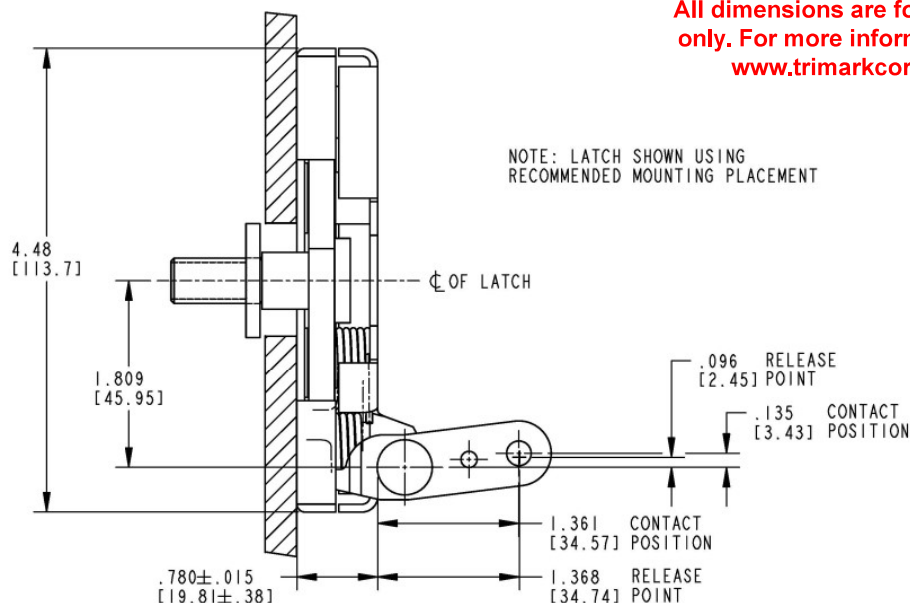
## AVAILABLE:

- In left or right hand configurations (right hand shown)
- With (4) 1/4-20 UNC, M6 x 1 threaded axles or .286" (7.3mm) through axles
- With trip lever options

## INTERNAL LUBRICATION:

- Oven-cured dry lubricant is applied at factory on all critical moving parts

Note that this 050-0400 Floating Striker Single Rotor Latch complies with FMVSS 206 (ECE R11) when tested accordance with SAE J839 and that this product meets FMVSS 206 (ECE R11) load requirements and may be used in FMVSS 206 (ECE R11) applications pending TriMark application approval. Please refer to page 158 for the complete FMVSS 206 (ECE R11) statement.



All dimensions are for reference only. For more information visit [www.trimarkcorp.com](http://www.trimarkcorp.com)



# 050-0410 Floating Striker Single Position Rotor Latch

This single rotor latch is a sub-platform to the proven 050-0400 series latch and is designed for medium to heavy-duty applications for on or off-highway compartments and access panels where it is desirable to have a single position latch.



- Applications requiring resistance to vibration
- Door thicknesses of 1-7/8" (47.6mm) or greater
- Door weights of 50-200 lbs. (23-91 kg)
- Door seal pressures of up to 150 lbs. (less than 50 lbs. suggested for best results)(23-68 kg)
- Visible surface installation or concealed inside installation
- Use with TriMark 070-0201 Striker Bolt

- Springs: Non-corrosive stainless steel

## FEATURES/BENEFITS:

- Allows for  $\pm .143$ " (3.63) strike travel from  $.789$ " (19.91) locating dimension
- Ideal for applications with high vibration loading and where controlled travel between the latch and strike is characteristic of the application
- Single position rotary style latching action

## FINISH:

- Zinc plated, clear chromate steel components

## MATERIAL:

- Internal latch components: Heat treated, smooth edge stamped steel
- Case halves: High strength steel

## INSTALLATION:

- (4) 1/4-20 UNC grade 5 or M6 x 1 class 8.8-type fasteners are required (not included)
- Tighten to the fastener manufacturers' recommended torque value, however, do not exceed 120 in-lbs. (13 N-m)
- Fastener mounting holes diameter should not exceed  $.281$ " (7.1 mm)

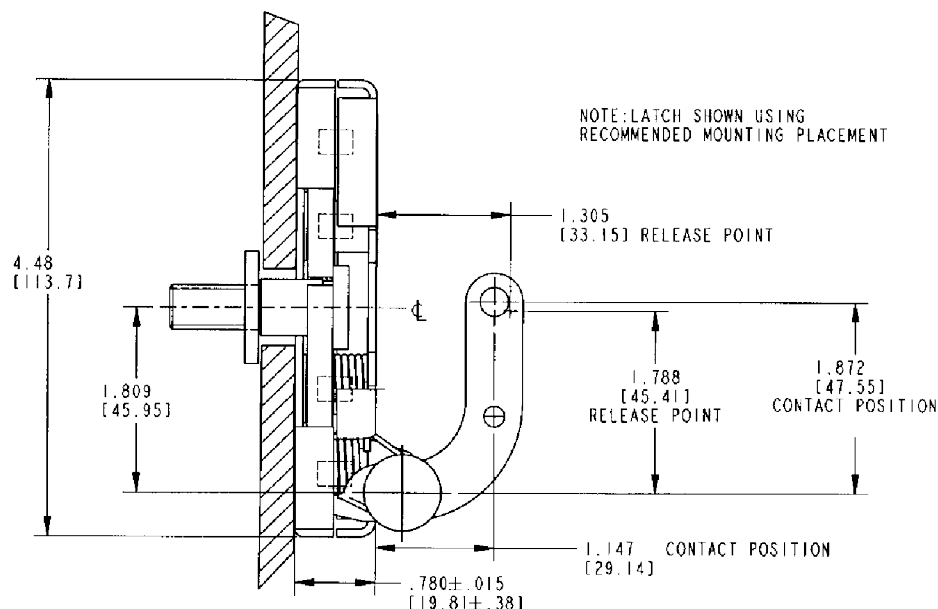
## AVAILABLE:

- In left or right hand configurations (right hand shown)
- With (4) 1/4-20 UNC, M6 x 1 threaded axles or  $.286$ " through axles
- With trip lever options

## INTERNAL LUBRICATION:

- Oven-cured dry lubricant is applied at factory on all critical moving parts

All dimensions are for reference only. For more information visit [www.trimarkcorp.com](http://www.trimarkcorp.com)



# 050-0500 Single Rotor Mini Latch

Designed for small compartment and access doors where low cost slam action latching is desired. It features a single or two position compact rotary and is available in a variety of trip levers and mounting axles for ease of mounting and applications

- Pickup box lids and cross bed tool boxes
- Light weight door applications
- RV baggage doors
- Door closing forces of 15-20 lbs. (6.8-9 kg) recommended for best results (not to exceed 50 lbs. (23 kg))
- Release efforts are approximately proportional to door closing forces striker bolt load
- Use with TriMark 070-0300 Striker Bolt

## FEATURES/BENEFITS:

- Compact size
- Low cost
- Single position rotary style latching action
- Double position also available

## AVAILABLE:

- Right and left hand configurations (left hand shown)
- With (2) 1/4-20 UNC threaded axles (not included)
- Base mount
- With rod collars attached

## MATERIAL:

- Internal latch components and case halves: High-strength steel
- Springs: Non-corrosive stainless steel



## FINISH:

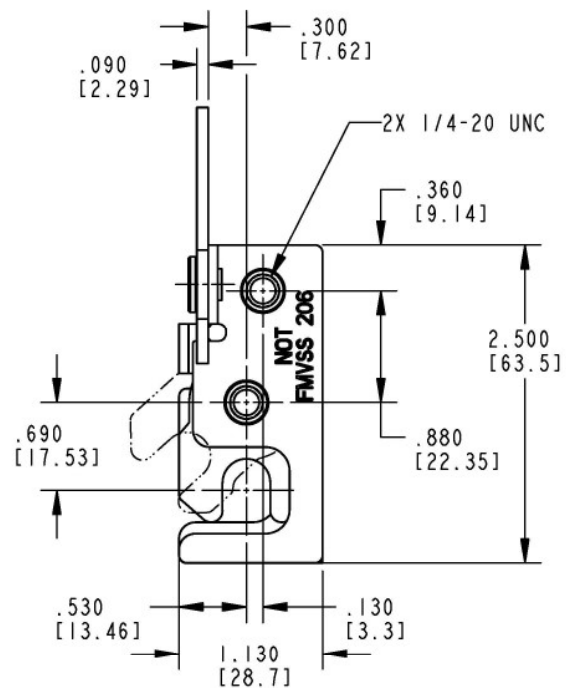
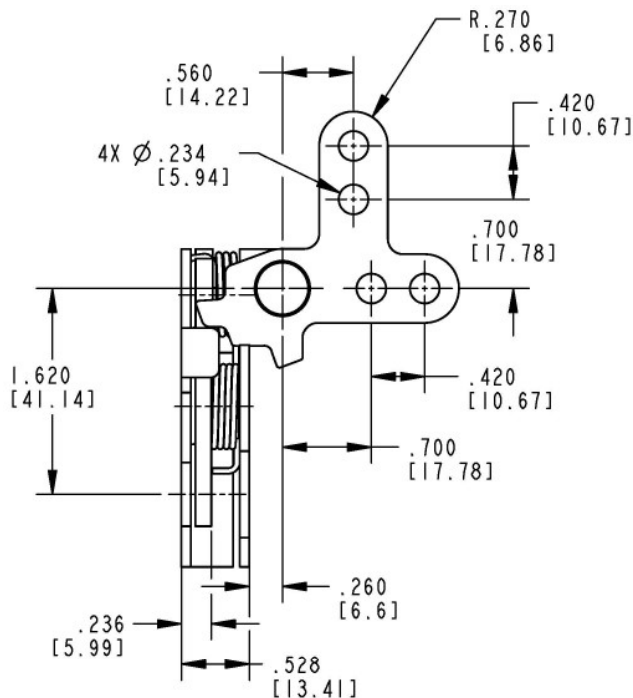
- Zinc plated, clear chromate
- Stainless steel

## INSTALLATION:

- (2) 1/4-20 UNC mounting fasteners (not included)
- Custom mounting brackets and release levers upon request
- Tighten to the manufacturers' recommended torque value, however, do not exceed 100 in-lbs. (11.2 N-m)

**NOTE:** Rod collars are not intended or recommended for use in applications that require FMVSS 206 (ECE R11) compliance or applications that have heavy or extreme striker bolt loads (greater than 25 lbs. / 11 kg) and/or high to extreme usage (greater than 100,000 door cycles/life).

**Caution:** Latch does not meet FMVSS 206 (ECE R11) load requirements.



All dimensions are for reference only. For more information visit [www.trimarkcorp.com](http://www.trimarkcorp.com)

# 050-0600 Single Rotor Compartment Latch

This latch is intended for storage and compartment doors for off-road vehicles including agricultural and construction equipment. The robust construction and compact size at a very cost effective price make it a great choice for light to medium duty compartment door applications.

- Access panels and hoods for off-highway vehicle applications
- Applications where it is desirable to have a single rotor latch that offers robust construction and compact size for a very cost effective price
- Use with TriMark 070-0400 Striker Bolt

## FEATURES/BENEFITS:

- Compact size
- Use with 12mm diameter striker or standard bar stock
- Mounts with (2) M8 x 1.25 fasteners (not included)
- Threaded axle version provides ease of installation

## AVAILABLE:

- Right or left hand configurations (left hand shown)
- Single or two position rotary style latching function
- Several standard release actuators are available



## INSTALLATION:

- Installed with (2) M8 x 1.25 bolts (not included)
- Tighten to the manufacturers' recommended torque value, however, do not exceed 22.2 N-m (180 in-lbs)

## FINISH:

- Zinc plated, clear chromate steel components

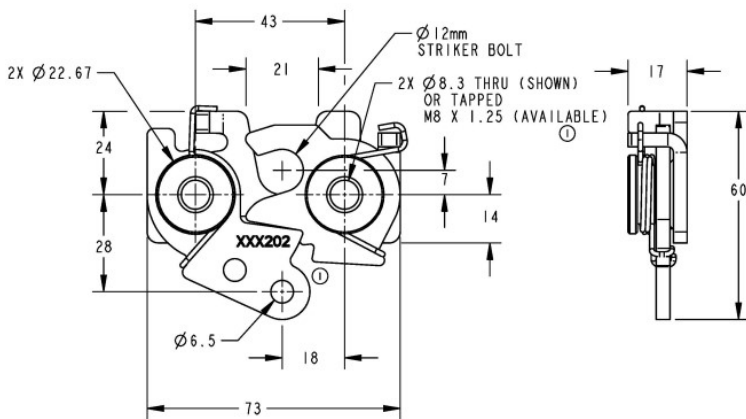
## MATERIAL:

- Case and actuator: High strength steel
- Springs: Non-corrosive stainless steel

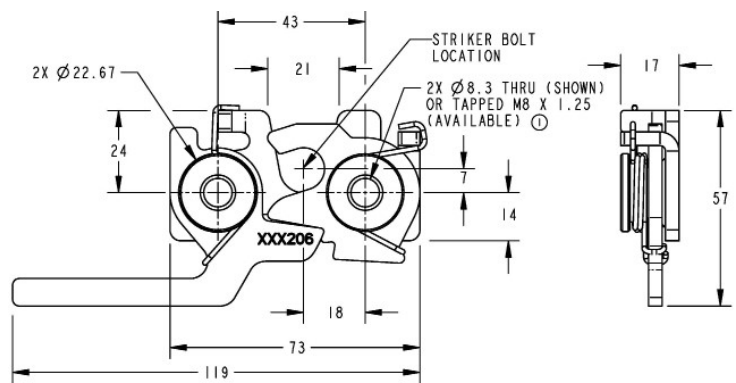
**Caution:** Latch does not meet FMVSS 206 (ECE R11) load requirements.

The following drawings show standard versions of the 050-0600 and do not depict all of the configurations available. Please refer to the website for additional information.

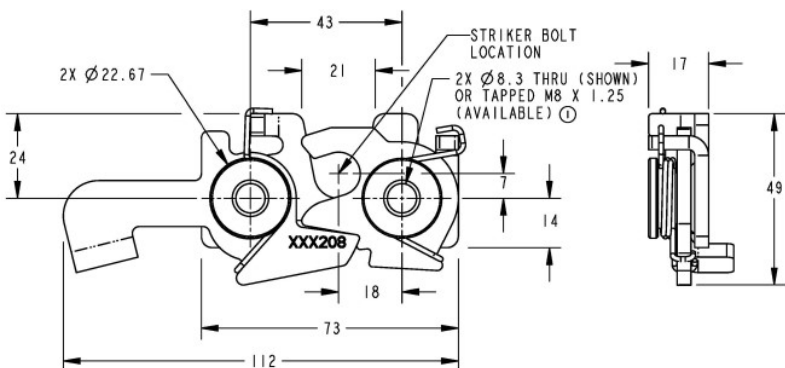
### Version A



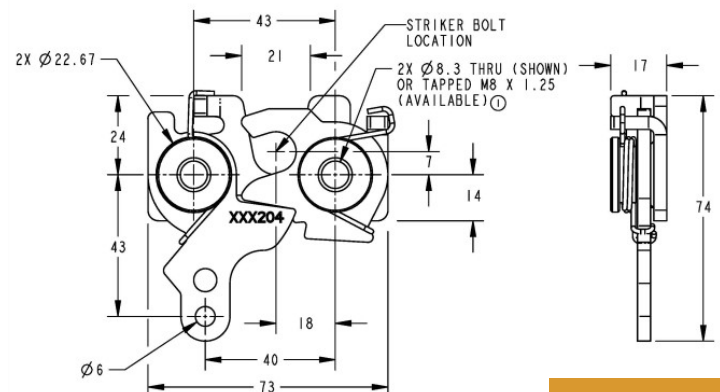
### Version C



### Version B



### Version D



All dimensions are for reference only. For more information visit [www.trimarkcorp.com](http://www.trimarkcorp.com)

# 050-0700 12mm Single Rotor Latch

This compact single rotor latch is designed for use on light to medium duty operator and compartment doors for on or off-highway applications. There are a number of variants allowing it to interface with TriMark's range of external and internal methods of activation for application flexibility.

- Operator and compartment door applications for on and off-highway vehicles
- Light to medium duty doors up to 25 kg (55 lbs.) with door seal pressures no greater than 20 kg (44 lbs.)
- Use with TriMark 070-0400 Striker Bolt

## FEATURES/BENEFITS:

- Compact size and shape; allows maximum visibility and use of door space
- Four standard variants; provides application flexibility
- Black finish reduces the need for secondary painting or covers

## AVAILABLE:

- Versions are available to allow direct or remote actuation from exterior handles and interior release
- Standard left and right hand versions; allows use in either orientation (right hand shown)
- Standard M8 x 1.25 threaded axles as shown or 8.4mm diameter "thru" axles



## MATERIAL:

- Rotor: Heat treated steel
- Case halves: High strength steel
- Springs: Non-corrosive stainless steel
- Inside release knob: Die cast zinc alloy
- Push button bellcrank: Die cast zinc alloy

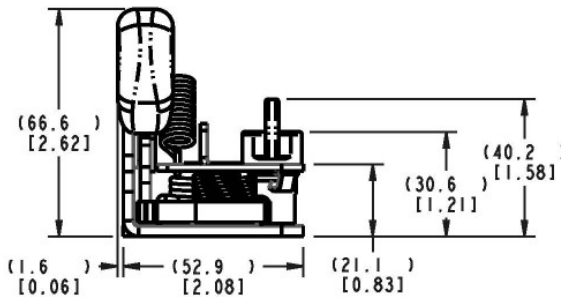
## FINISH:

- Zinc plated steel components with black chromate

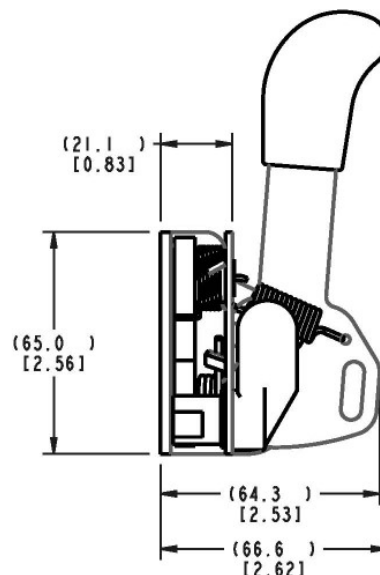
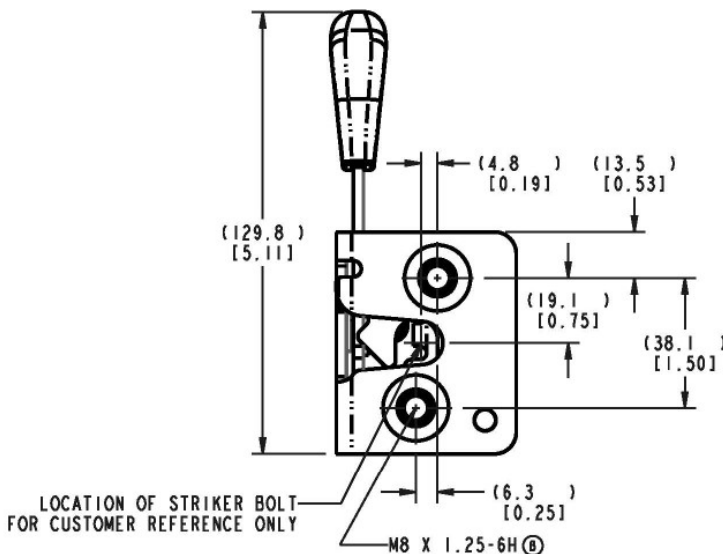
## INSTALLATION:

- M8 x 1.25 threaded axle; provides ease of (2) installation (Tighten to the fastener manufacturer's recommended torque value)

**Caution:** Latch does not meet the load requirements for FMVSS 206 (ECE R11).



**All dimensions are for reference only. For more information visit [www.trimarkcorp.com](http://www.trimarkcorp.com)**





# 050-0810 Single Rotor Latch Logic

This latch system is intended for occupant or exit/entry doors for specialty vehicles including ambulance, fire/rescue and off-highway vehicles (light duty) that require compliance to FMVSS 206 (ECE R11) standards. The flexible design allows for internal or external door mounting and provides automotive logic function with remote activating handles.

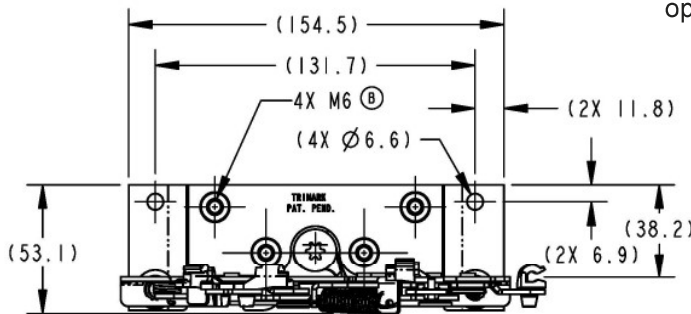


- Applications where it is desirable to have the ability to electronically lock the door
- Medium to heavy weight door applications
- Door weights up to 150 lbs. (68 kg) maximum
- Door seal pressures of 25-50 lbs. (11-23 kg) recommended for best results
- Use with TriMark 070-0201 Striker Bolt

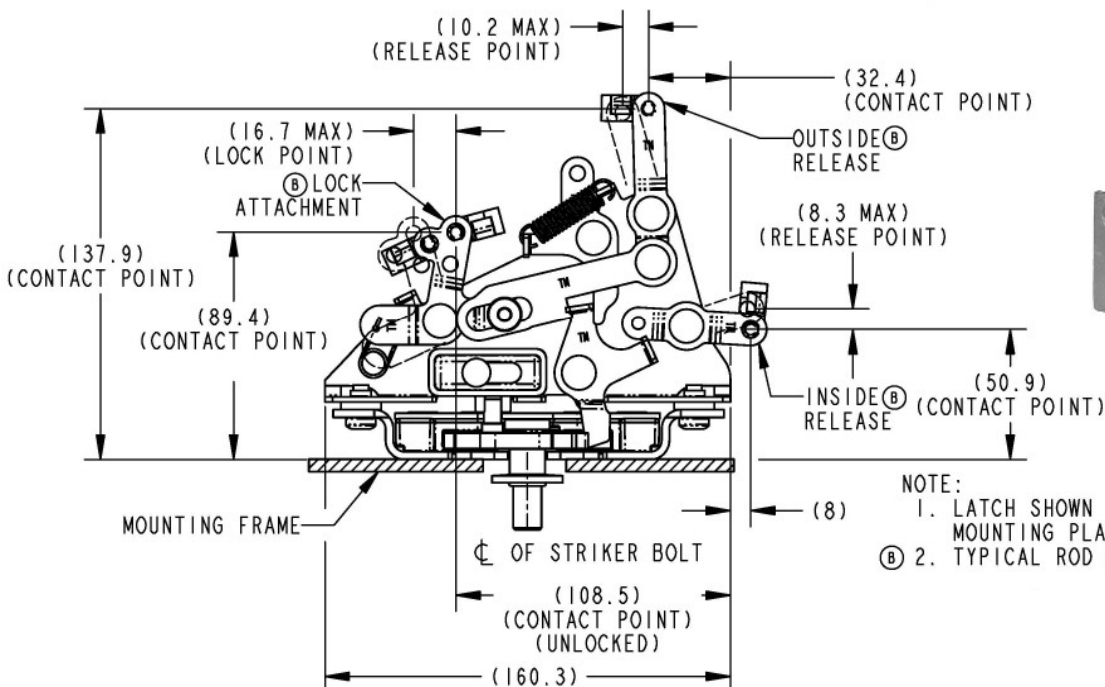
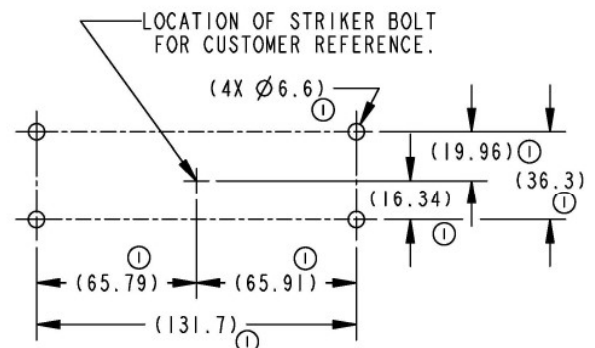
**All dimensions are for reference only. For more information visit [www.trimarkcorp.com](http://www.trimarkcorp.com)**

## FEATURES/BENEFITS:

- Provides automotive locking logic function
- Mounts in doors requiring latch location remote from activating handles
- Latch and logic has a no lock-out detail that will not allow you to lock the door unless it is closed and latched. This eliminates the possibility of inadvertently locking the keys in the vehicle.
- The logic provides an over-ride function that automatically unlocks the door when the inside door handle is operated. This feature provides egress without having to manually unlock the door before operating the handle.



**INTERIOR AXLE MOUNTING CONFIGURATION**



NOTE:  
1. LATCH SHOWN USING RECOMMENDED MOUNTING PLACEMENT.  
2. TYPICAL ROD  $\varnothing$  TO BE .168.



# 050-0810 continued

## AVAILABLE:

- Right or left hand configurations (right hand shown)
- With (4) 1/4-20 UNC or M6 x 1 threaded axles
- Linkage rods available for your specific applications

## FINISH:

- Zinc plated clear chromate steel components
- Linkage components are Nitrotec® treated for wear resistance

## MATERIAL:

- Plastic encapsulated metal rotor and catch reduces friction and deadens the door closing sound
- Springs: Non-corrosive stainless steel
- Case halves: High strength steel

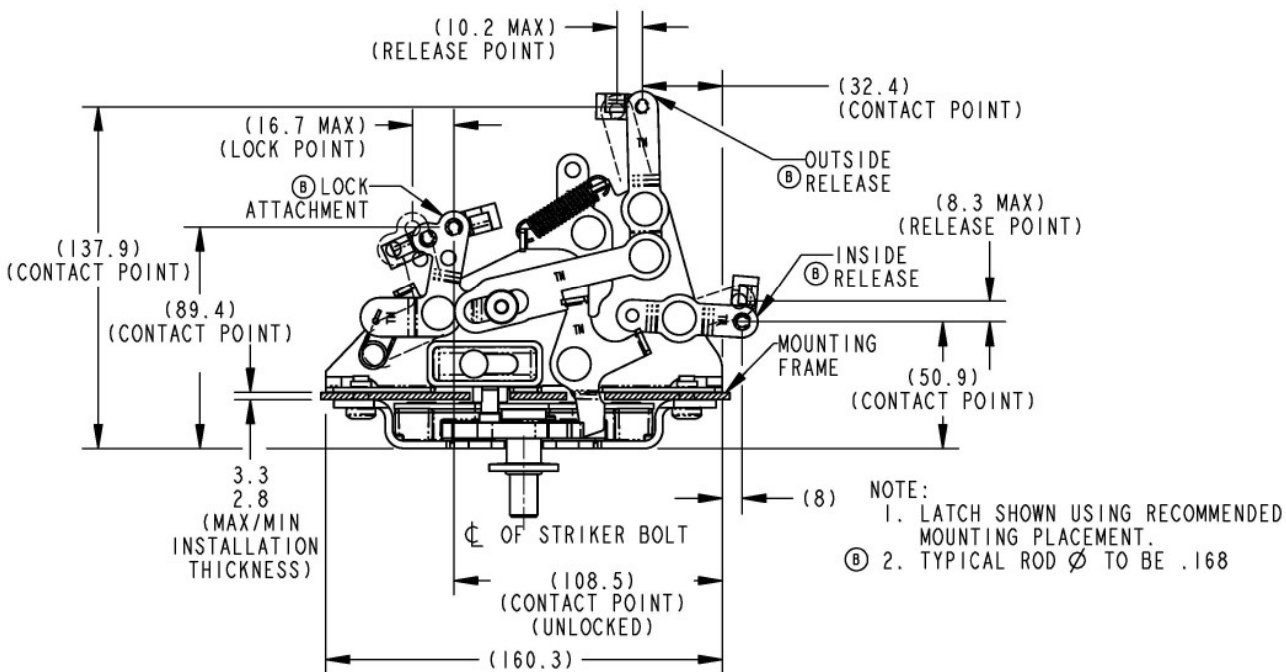
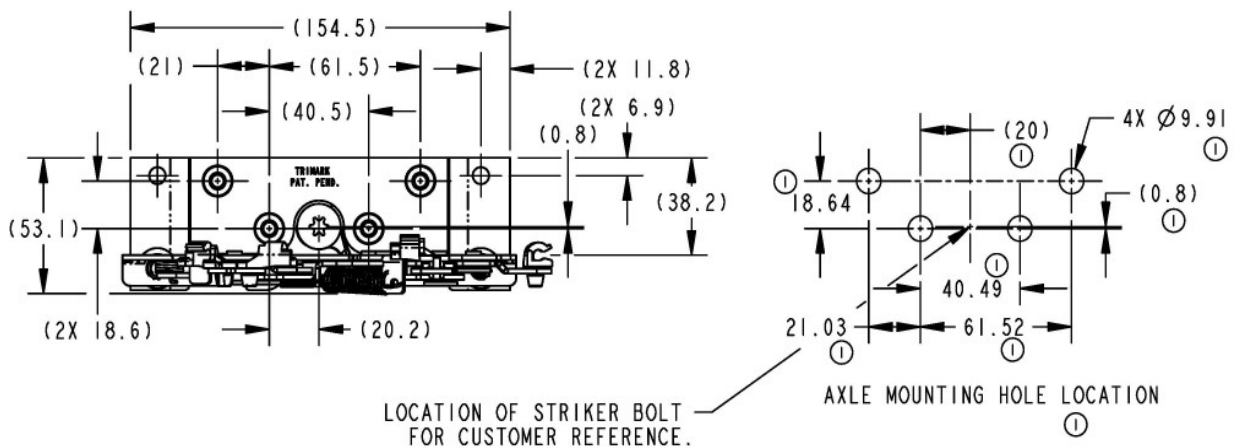
## INSTALLATION:

- Can be mounted inside or outside of door edge
- (4) 1/4-20 UNC grade 5 or M6 x1 class 8.8 or better fasteners are recommended (not included)
- Tighten to the manufacturers' recommended torque value, however, do not exceed 72 in-lbs. (8 N-m)

**U.S. Patent No. 6,494,506 / 6,695,361**

Note that this 050-0810 Single Rotor Latch complies with FMVSS 206 (ECE R11) when tested accordance with SAE J839 and that this product meets FMVSS 206 (ECE R11) load requirements and may be used in FMVSS 206 (ECE R11) applications pending TriMark application approval. Please refer to page 158 for the complete FMVSS 206 (ECE R11) statement.

**All dimensions are for reference only. For more information visit [www.trimarkcorp.com](http://www.trimarkcorp.com)**



# 050-0850 TriGuard Heavy Duty Latch Module With Slam Cam Option

This heavy duty latch module is designed for medium to heavy-duty armored vehicle entrance and rear door applications. It features a proven single rotor latch design and high strength 8 gauge (4.2mm) front mounting plate with flange mounting.

- Medium to heavy duty doors greater than 200 lbs. (91 kg) with door seal pressures of 50-150 lbs. (23-60 kg)
- Use with TriMark 070-0201 Striker Bolt

## FEATURES/BENEFITS:

- Heavy duty modular construction - survives in punishing environment
- Can be used on retrofit or new surface mount vehicle construction
- Heavy duty latch/striker with self-aligning "slam cam" provides rotor/cam assist to heavy doors, hinges and compensates for door sag

## AVAILABLE:

- Right or left hand configurations (right hand shown)
- Striker with self-aligning "slam cam"
- Replaceable striker alignment lift blocks
- Custom configured release levers

## FINISH:

- Zinc plated, clear chromate steel components

## MATERIAL:

- Case halves: High strength steel
- Springs: Non-corrosive stainless steel

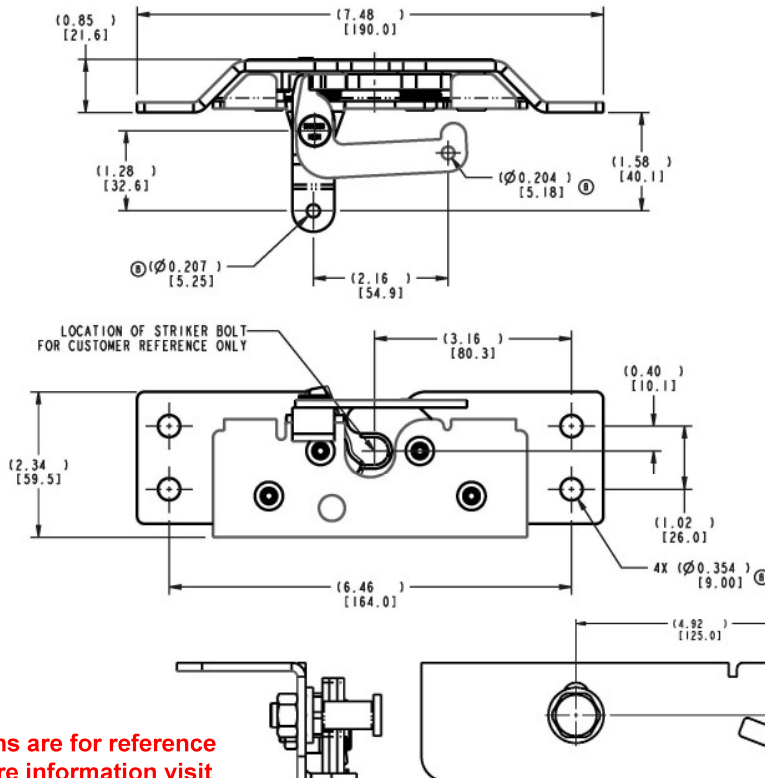


## INSTALLATION:

- (4) M8 x 1.25 class 8.8 or better fasteners are recommended (not included)
- Tighten to the manufacturers' recommended torque value

## U.S. Patent No. 7,938,458

Note that this 050-0850 TriGuard Heavy Duty Latch Module With Slam Cam complies with FMVSS 206 (ECE R11) when tested accordance with SAE J839 and that this product meets FMVSS 206 (ECE R11) load requirements and may be used in FMVSS 206 (ECE R11) applications pending TriMark application approval. Please refer to page 158 for the complete FMVSS 206 (ECE R11) statement.



Striker With Self-Aligning "Slam Cam"

All dimensions are for reference only. For more information visit [www.trimarkcorp.com](http://www.trimarkcorp.com)

# 050-1100 Family - 8mm Single Rotor Latch

This robust automotive style single rotor latch is designed for medium to heavy-duty applications for on or off-highway entrance doors, compartments and access panels. The modular design allows ease of interface with TriMark's range of external and internal methods of activation for application flexibility.

- Interior door thickness of 44mm (1.73") or greater
- Medium to heavy duty doors of 23-91 kg (50-200 lbs.) with door seal pressures of 23-60 kg (50-150 lbs.)
- Use with TriMark 070-1000 8mm Hoop Strike

## FEATURES/BENEFITS:

- Compact size and shape; allows maximum use of door space and minimizes visibility issues
- Rotor provides for vertical clearance of strike allowing for door sag, misalignment and ease of installation
- Modular case design provides for multiple latch actuation direction and locations for application flexibility

## AVAILABLE:

- Versions are available to allow direct or remote actuation from exterior handles and interior releases
- Platform allows for reuse of existing actuation trip levers (050-0100)
- Multiple actuation directions and locations
- Standard 8.4mm diameter through axles or optional M8 x 1.25 threaded axles



## FINISH:

- Zinc plated, clear chromate steel components

## MATERIAL:

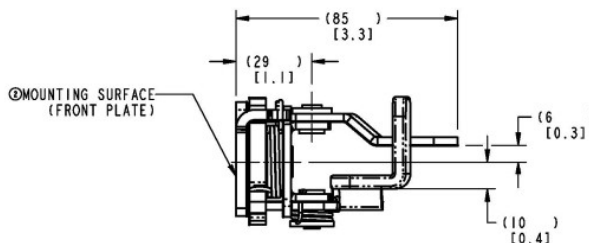
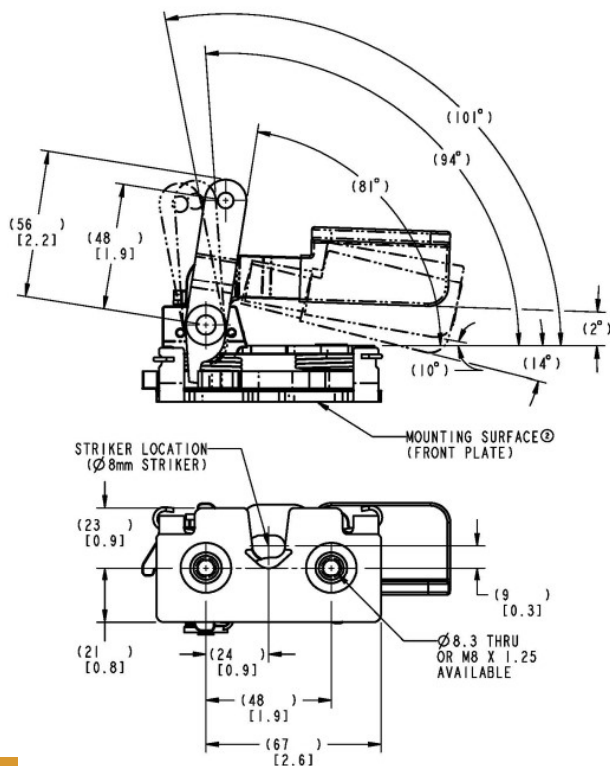
- Case halves: High strength steel
- Springs: Non-corrosive stainless steel

## INSTALLATION:

- Easy to install, mounts with (2) M8 x 1.25 or 5/16 fasteners (not included)
- Tighten to the manufacturers' recommended torque value, however, do not exceed 22.2 N-m (180 in-lbs)
- Mount only to the front plate side

## U.S. Patent No. 8,075,027

Caution: Latch does not meet FMVSS 206 (ECE R11) load requirements.



All dimensions are for reference only. For more information visit [www.trimarkcorp.com](http://www.trimarkcorp.com)



# 050-1200 Single Rotor Panel Latch

This product is designed for light to medium duty compartment doors, access panels and hoods for off-highway vehicle applications. The single rotor latch offers robust construction and compact size for a very cost effective price.

- Door weights of approximately 75 lbs. (34 kg)

## FEATURES/BENEFITS:

- Compact size
- Use with 8mm diameter striker or standard bar stock
- Mounts with (2) M8 fasteners (not included)

## AVAILABLE:

- Single handed configuration
- Single position rotary style latching function
- Direct or remote release actuators available
- Direct actuation - via tool drive 13mm hex with slot
- Remote actuation - via 4.5mm diameter hole on catch

## INSTALLATION:

- Installed with (2) M8 fasteners (not included)
- Tighten to the manufacturers' recommended torque value
- Dual mounting faces

## FINISH:

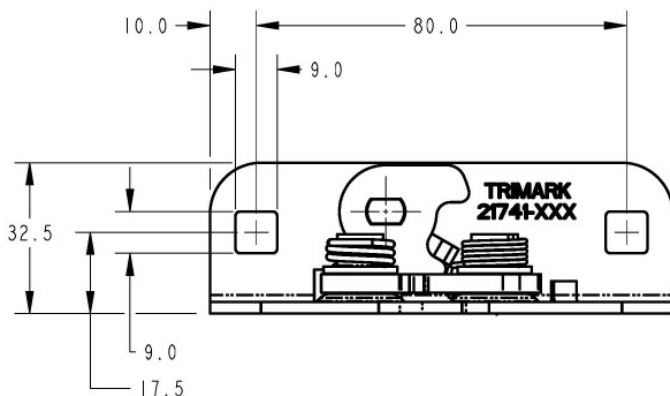
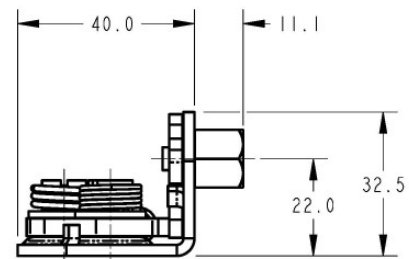
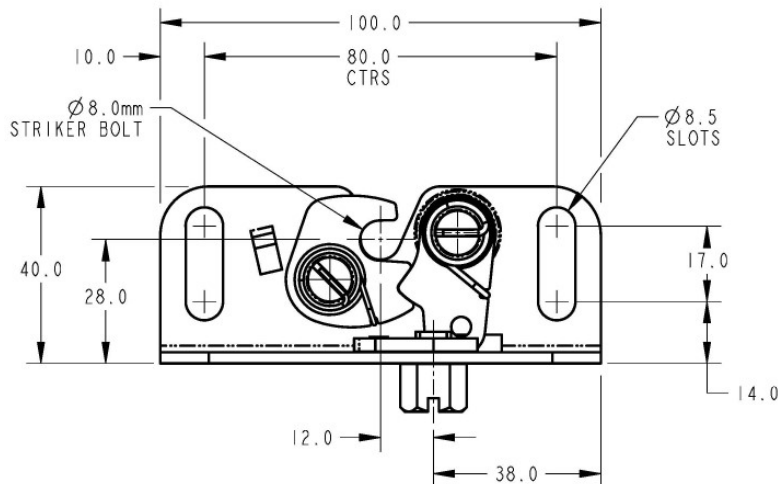
- Zinc plated, clear chromate steel components



## MATERIAL:

- Actuator: Stainless steel
- Springs: Non-corrosive stainless steel
- Rotor and catch: Hardened carbon steel

Caution: Latch does not meet FMVSS 206 (ECE R11) load requirements.



All dimensions are for reference only. For more information visit [www.trimarkcorp.com](http://www.trimarkcorp.com)

# 050-1600 TriGuard Heavy Duty Single Rotor Latch

This latch is designed for medium to heavy-duty vehicle entrance and rear door applications. It features a proven single rotor latch design, high strength 8 gauge (4.2mm) front mounting plate and robust straddle mount release lever. The slim design mounts into 2.00" (50.8mm) doors and retrofits competitive single rotor wedge style rotary latches

- Medium to heavy duty doors greater than 91 kg (200 lbs) with door seal pressures of 23-60 kg (50-150 lbs.)
- Use with TriMark 070-0201 Striker Bolt

## FEATURES/BENEFITS:

- Heavy duty modular construction - survives in punishing environments
- Can be used on retrofit or new surface mount vehicle construction
- .550" (13.9mm) diameter striker bolt

## AVAILABLE:

- Right or left hand configurations (left hand shown)
- Custom configured release levers
- Other mount options (please inquire)
- Heavy duty latch/striker provides rotor/cam assist to heavy doors, hinges, and compensates for door sag



## MATERIAL:

- Case halves: High strength steel
- Springs: Non-corrosive stainless steel
- Rotor and catch: Heat treated high strength steel with dry lube coating

## FINISH:

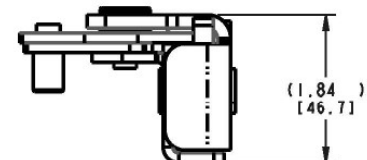
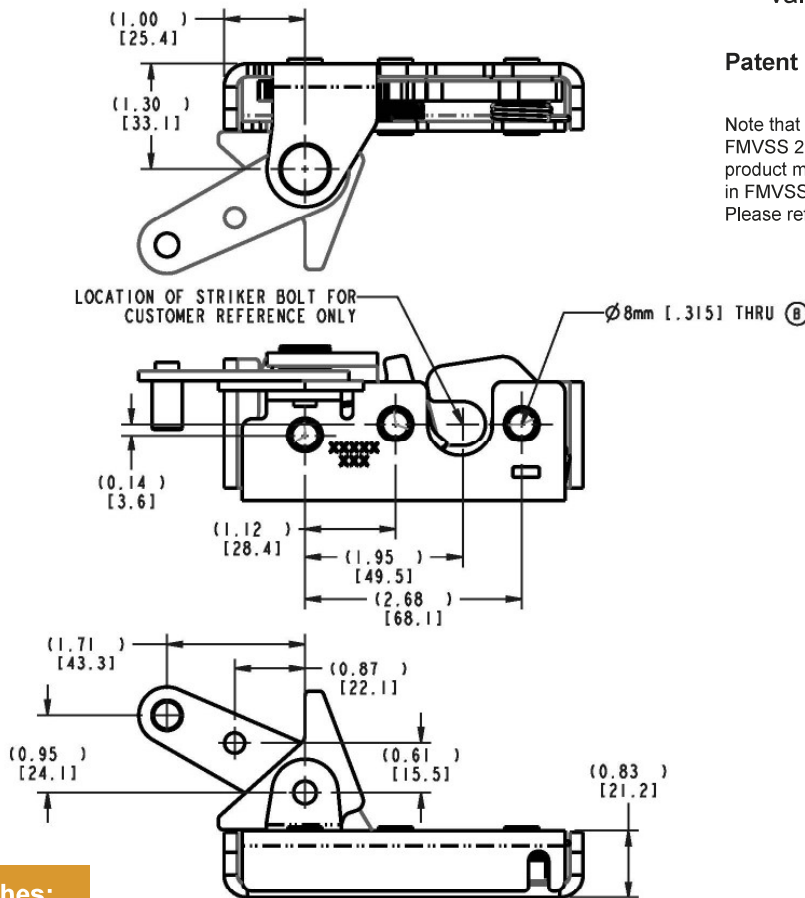
- Standard: RoHS compliant zinc plated, clear chromate steel components
- Optional: Powder coated or CARC finish in custom colors

## INSTALLATION:

- (3) M8 x 1.25 class 8.8 or 5/16-18 UNC grade 8 or better fasteners are recommended (not included)
- Tighten to the manufacturers' recommended torque value

## Patent Pending

Note that this 050-1600 TriGuard Heavy Duty Single Rotor Latch complies with FMVSS 206 (ECE R11) when tested accordance with SAE J839 and that this product meets FMVSS 206 (ECE R11) load requirements and may be used in FMVSS 206 (ECE R11) applications pending TriMark application approval. Please refer to page 158 for the complete FMVSS 206 (ECE R11) statement.



All dimensions are for reference only. For more information visit [www.trimarkcorp.com](http://www.trimarkcorp.com)

# 050-1900 8mm Single Rotary Latch



TriMark's newest innovation in rotary latches features a robust modular design that offers extensive actuation locations and options providing application flexibility in a compact design. Designed for medium to heavy-duty applications for on or off-highway applications, this single rotor latch is available in both FMVSS 206 (ECE R11) and non FMVSS 206 (ECE R11) configurations.

## DESIGNED FOR:

- Personnel, compartment door and door hold-open applications for on and off-highway vehicles
- Interior door thickness of 45-57mm (1.77-2.25"). Depending on the actuator type and location the overall height could be greater. Please contact TriMark for specific details.
- Medium to heavy duty doors of 23-81 kg (50-175 lbs.) with maximum door seal pressure of 36 kg (80 lbs.)

## FEATURES/BENEFITS:

- Modular case construction is preconfigured with multiple actuation points on the front case allowing top/bottom actuation including stacked actuator levers providing the most configurable rotary door latch ever offered
- Compact size and shape allows maximum use of door space and minimizes visibility issues without compromising strength and robustness
- Rotor provides for vertical clearance of strike allowing for door sag, misalignment and ease of installation
- Includes two versions:
  - ◇ Two position rotor version for personnel door for FMVSS 206 (ECE R11) applications
  - ◇ Single position version for compartment and door hold-open for non FMVSS 206 (ECE R11) applications
- 8mm diameter automotive style hoop-type strike minimizes clothing snag hazard

## AVAILABLE:

- In left or right hand configurations (right hand shown)
- Versions are available to allow direct actuation from exterior push button or pull handles and interior releases providing a simple, low cost and compact application
- Platform allows for reuse of TriMark's extensive selection of existing actuation levers reducing application engineering and tooling requirements
- Several actuator return spring options

- Coaxial actuator mechanism for applications where it is desirable to provide additional support to the actuation levers
- Innovative barrel release with optional integrated cable bracket for ease of use/installation
- Future provisions for state sensing, power release mechanisms and slam cam door lift mechanism

## MATERIAL:

- Case halves: High strength steel
- Rotor and catch: Heat treated steel
- Springs: Non-corrosive stainless steel

## FINISH:

- Zinc plated, clear chromate steel components



Barrel Actuation With Direct Release  
Cam and Top Direct Release Actuator

Cable Mount Bracket With  
Barrel Actuation and Cam

## INSTALLATION:

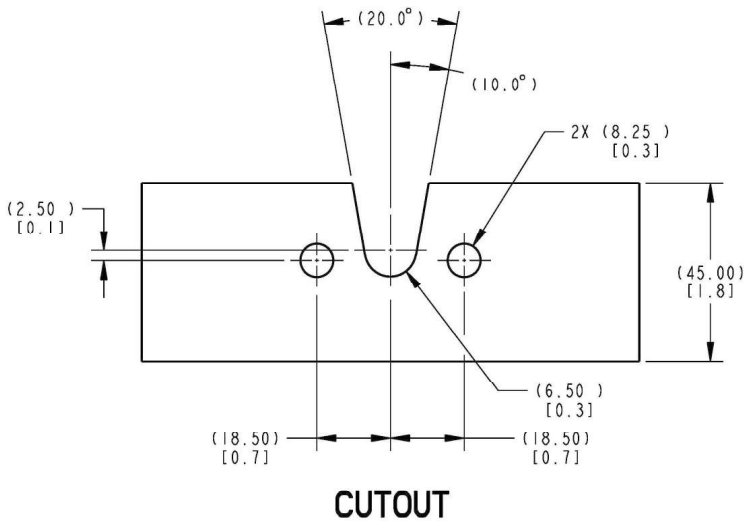
- Easy to install, mounts with (2) M8 x 1.25 class 8.8 or better fasteners are required for FMVSS 206 (ECE R11) applications (not included)
- Tighten to manufacturers' recommended torque value, however, do not exceed 22.2 N-m (180 in-lbs)

## USE WITH:

- TriMark 070-1000 8mm Hoop Strike (required for FMVSS 206 (ECE R11) applications)



070-1000 8mm Hoop Strike

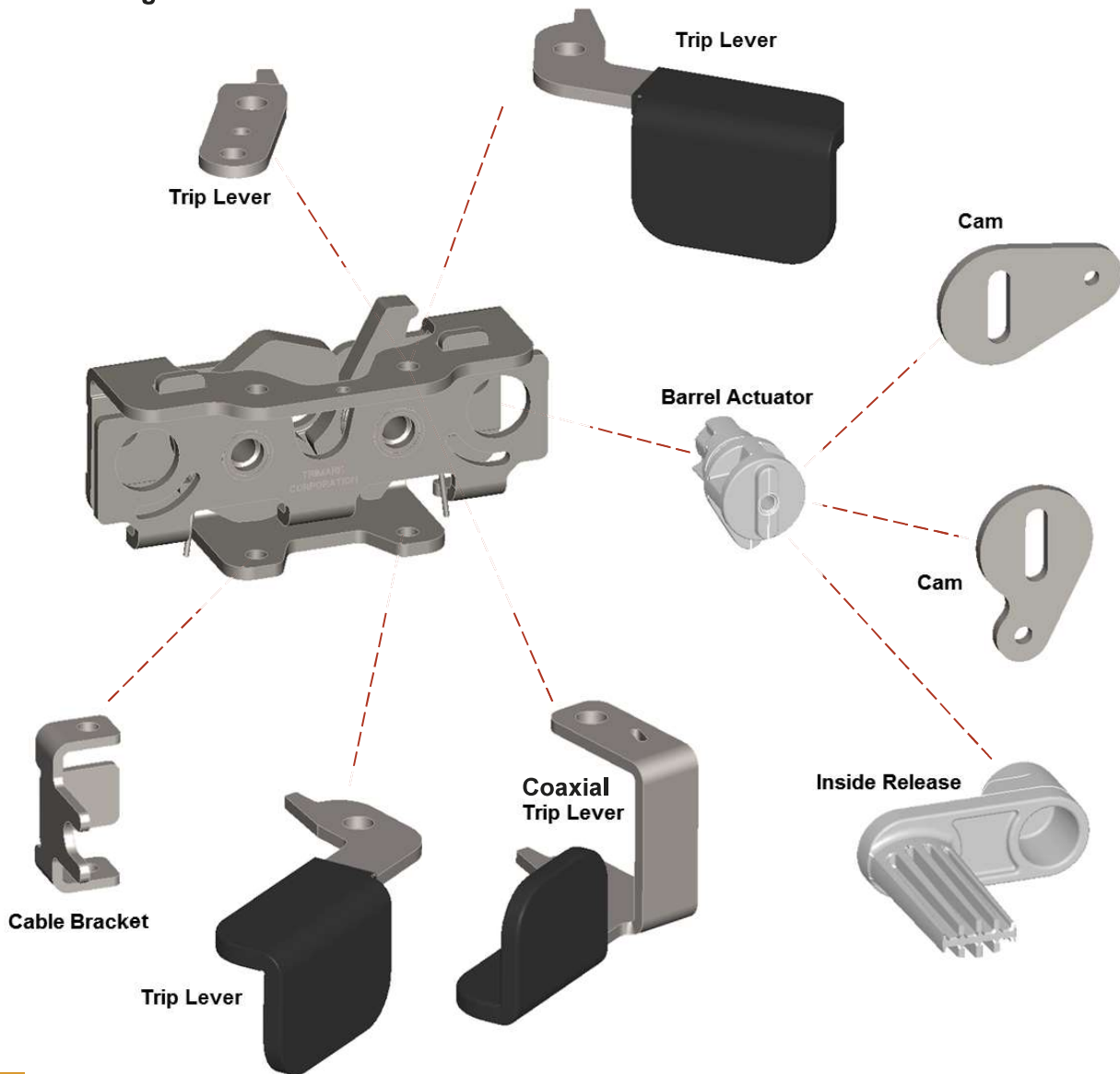


## Patent(s) Pending

Note that this 050-1900 8mm Single Rotary Latch complies with FMVSS 206 (ECE R11) when tested in accordance with SAE J839 and that this product meets FMVSS 206 (ECE R11) load requirements and may be used in FMVSS 206 (ECE R11) applications pending TriMark application approval. Please refer to page 158 for the complete FMVSS 206 (ECE R11) statement.

**All dimensions are for reference only. For more information visit [www.trimarkcorp.com](http://www.trimarkcorp.com)**

**Modular construction with multiple actuation points allows top/bottom actuation including stacked actuator levers.**





# 050-7100 10mm Single Rotor Latch

The compact 050-7100 10mm Single Rotor Latch is designed for operator door applications for off-highway vehicles.

- Light to medium duty doors up to 45 Kg (100 lbs.) with door seal pressures no greater than 11 Kg (25 lbs.)

## FEATURES/BENEFITS:

- Compact size and shape; requires minimum use of door space
- Two position rotary function suitable for personnel doors for FMVSS 206 and ECE-11 applications
- Inside release options
- Standard black finish reduces the need for secondary painting
- One variant supplied with latch plastic cover

## AVAILABLE:

- Versions are available to allow direct or remote actuation from exterior push button or paddle handles
- With and without on latch direct release inside levers
- With left and right variants; provides application flexibility (right hand shown)

## MATERIAL/FINISH:

- Inside release components: Nylon or steel with nylon knob
- Black plated steel case halves
- Cam and catch: Heat treated steel



## INSTALLATION:

- Easy to install—recommended mounting fastener (2) M6 x 1.0 flat or oval head class 8.8 or better fasteners are required for FMVSS 206 (ECE R11) (not included)
- Tighten to the fasteners recommended torque value, however, do not exceed 6 to 8 N-m (53 to 70 in-lbs.)
- Latch mounting plate supplied, is required to meet FMVSS 206 (ECE R11) loads

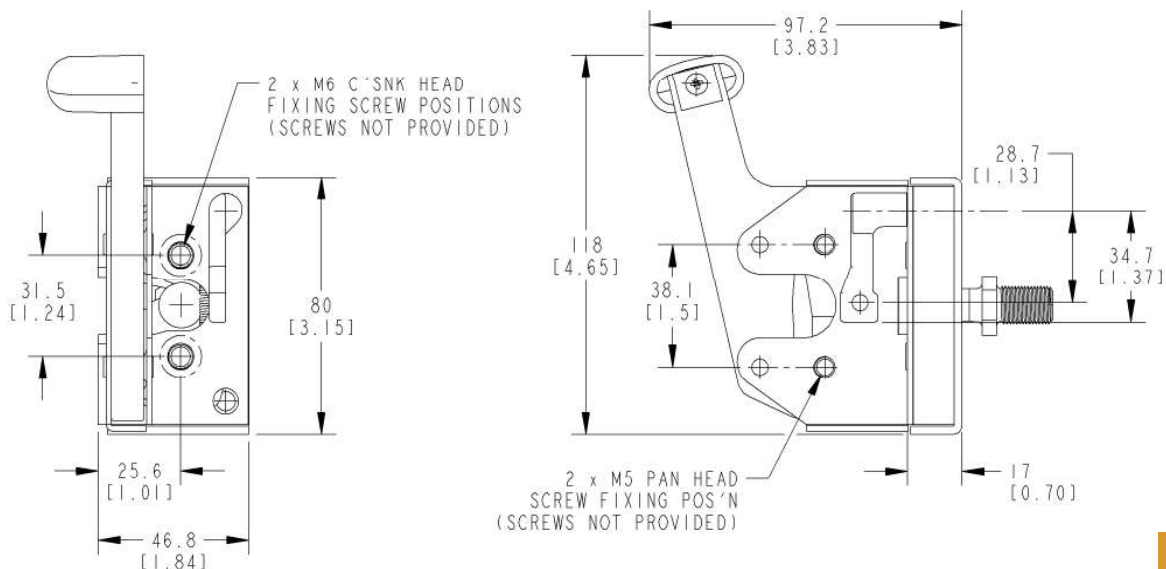
## USE WITH:

- Latch Mounting Plate (included)
- 070-7100 10mm Striker Pin

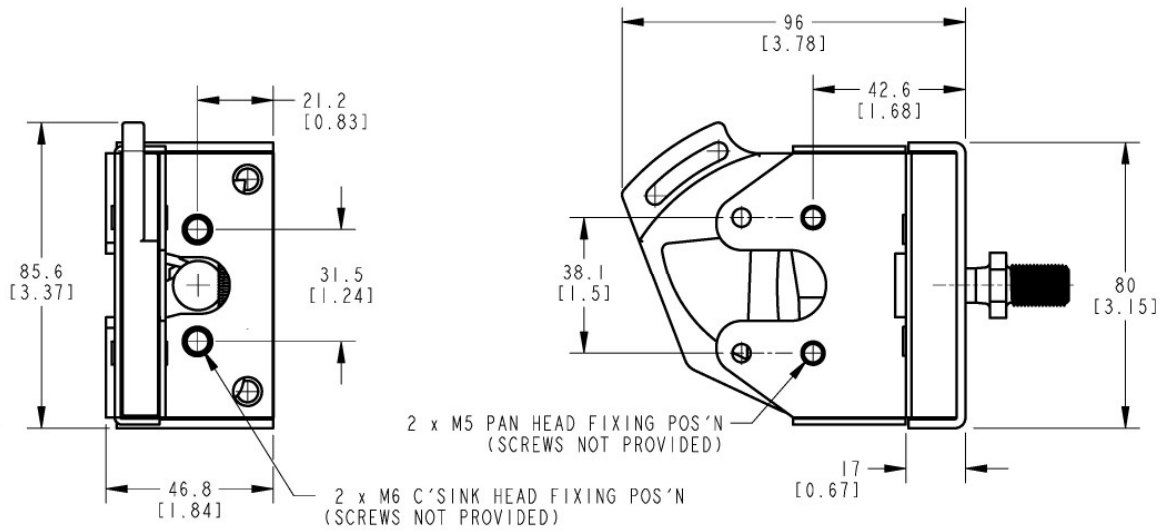
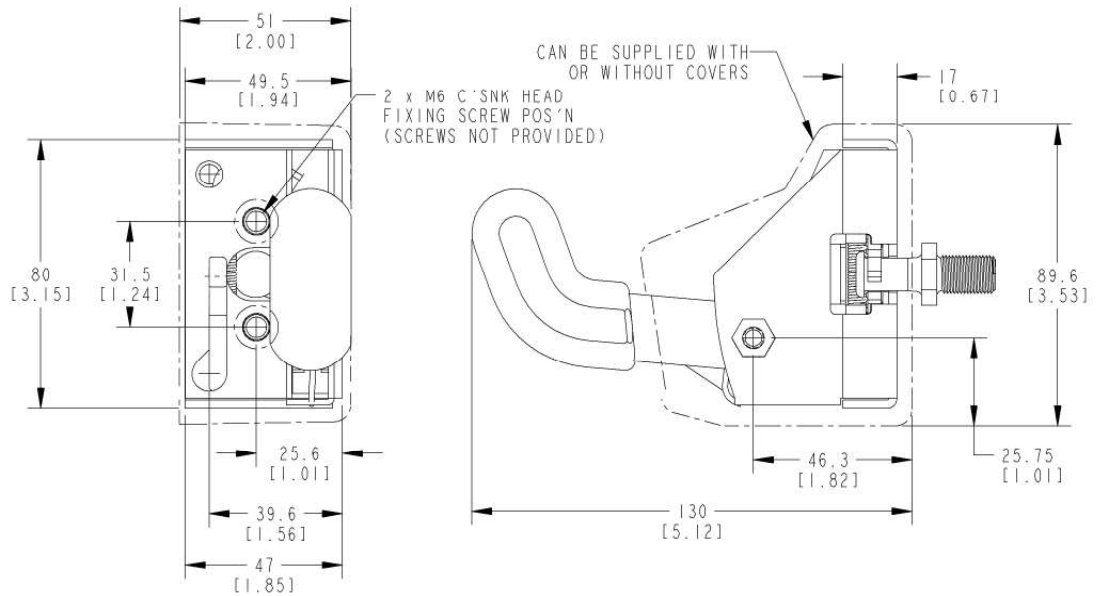
Note that this 050-7100 10mm Single Rotor Latch complies with FMVSS 206 (ECE R11) when tested with supplied bracket and accordance with SAE J839 and that this product meets FMVSS 206 (ECE R11) load requirements and may be used in FMVSS 206 (ECE R11) applications pending TriMark application approval. Please refer to page 158 for the complete FMVSS 206 (ECE R11) statement.

**Caution:** Product does not meet the locking requirements for FMVSS 206 (ECE R11).

All dimensions are for reference only. For more information visit [www.trimarkcorp.com](http://www.trimarkcorp.com)



# 050-7100 continued



All dimensions are for reference only. For more information visit [www.trimarkcorp.com](http://www.trimarkcorp.com)

# 050-7120 10mm Single Rotor Latch with Handrail

The compact 050-7120 10mm Single Rotor Latch with Handrail is designed for operator and compartment door applications for off-highway vehicles that require a remote interior release. The latch is incorporated into a rectangular tube for support for the opening and closing function of the door and provides for greater ease of operation (ergonomics) over direct releases.

- Light to medium duty doors up to 45 Kg (100 lbs.) with door seal pressures no greater than 11 Kg (25 lbs.)

## FEATURES/BENEFITS:

- Compact size and shape; requires minimum use of door space
- Two position rotary function suitable for personnel doors for FMVSS 206 (ECE R11) applications
- Standard black finish reduces the need for secondary painting
- Supplied with latch plastic cover
- Robust designed remote inside release is incorporated into rectangular tubing which gives additional door structure support and assistance for the opening and closing functions of the door
- Provides for greater ease of operation
- Inside release can be positioned at two points along the tube for convenient location to suit the door/cab design
- Inside release is connected by rods, cables or direct operation to the latch

## AVAILABLE:

- Versions are available to allow direct or remote actuation from exterior push button or flap handles
- With left and right variants; provides application flexibility (right hand shown)
- Tube is variable in length and angled to suit customer requirements providing flexibility in the product application



## MATERIAL/FINISH:

- Inside release components: Nylon, zinc casting
- Black plated steel case halves
- Cam and catch: Heat treated steel
- Springs: Non-corrosive stainless steel
- Tubing: Black painted steel
- Tube mounting end: Reinforced nylon

## INSTALLATION:

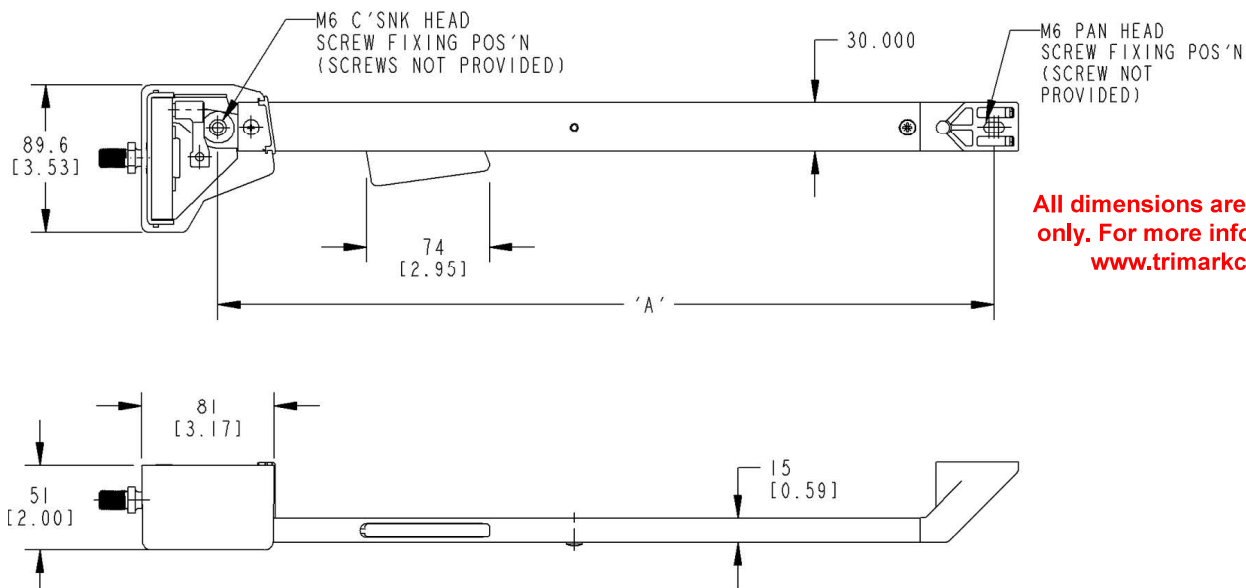
- Easy to install - recommended mounting fastener (2) M6 x 1.0 flat or oval head class 8.8 or better fasteners are required for FMVSS 206 (ECE R11) (not included) plus (1) M6 fastener on handrail end
- Tighten to the fasteners recommended torque value, however, do not exceed 6 to 8 N-m (53 to 70 in-lbs.)
- Latch mounting plate is required to meet FMVSS 206 (ECE R11) loads

## USE WITH:

- Latch Mounting Plate (included)
- 070-7100 10mm Striker Pin

Note that this 050-7120 10mm Single Rotor Latch with Handrail complies with FMVSS 206 (ECE R11) when tested with supplied bracket and accordance with SAE J839 and that this product meets FMVSS 206 (ECE R11) load requirements and may be used in FMVSS 206 (ECE R11) applications pending TriMark application approval. Please refer to page 158 for the complete FMVSS 206 (ECE R11) statement.

**Caution:** Product does not meet the locking requirements for FMVSS 206 (ECE R11).



# 050-7130 10mm Single Rotor Latch with Squeeze Release

The compact 050-7130 10mm Single Rotor Latch with Squeeze Release is designed for operator door applications for off-highway vehicles that require a remote interior release. Similar to the 050-7120, this 10mm Single Rotor Latch with Direct Squeeze Release allows inside squeeze release integration into the customers door tubing.

- Light to medium duty doors up to 45 Kg (100 lbs.) with door seal pressures no greater than 11 Kg (25 lbs.)

## FEATURES/BENEFITS:

- Compact size and shape; requires minimum use of door space
- Two position rotary function suitable for personnel doors for FMVSS 206 (ECE R11) applications
- Standard black finish reduces the need for secondary painting
- Robust designed remote inside release is able to be incorporated into customers door tubing
- Provides for greater ease of operation

## AVAILABLE:

- Versions are available to allow direct or remote actuation from exterior push button or paddle handles
- With left and right variants; provides application flexibility (right hand shown)

## MATERIAL/FINISH:

- Inside release components: Nylon
- Black plated steel case halves
- Cam and catch: Heat treated steel



## INSTALLATION:

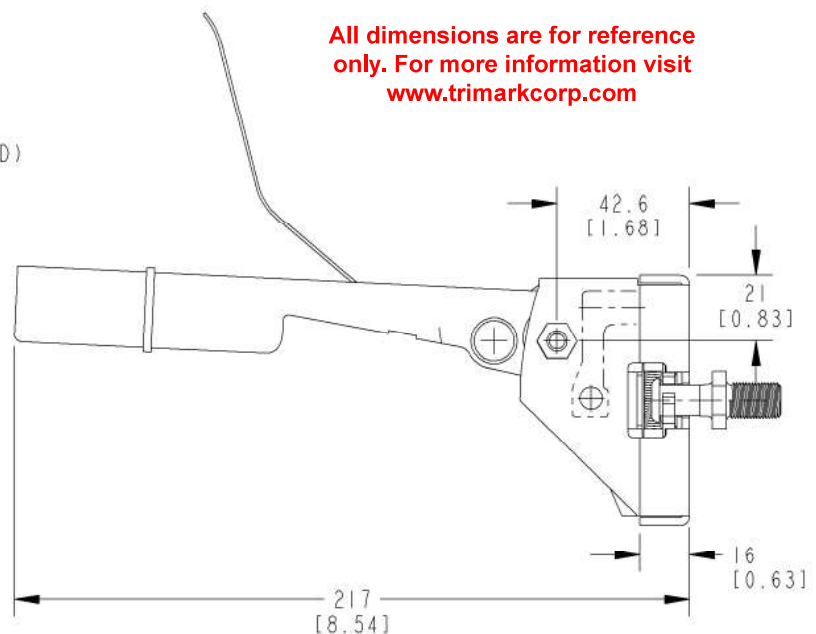
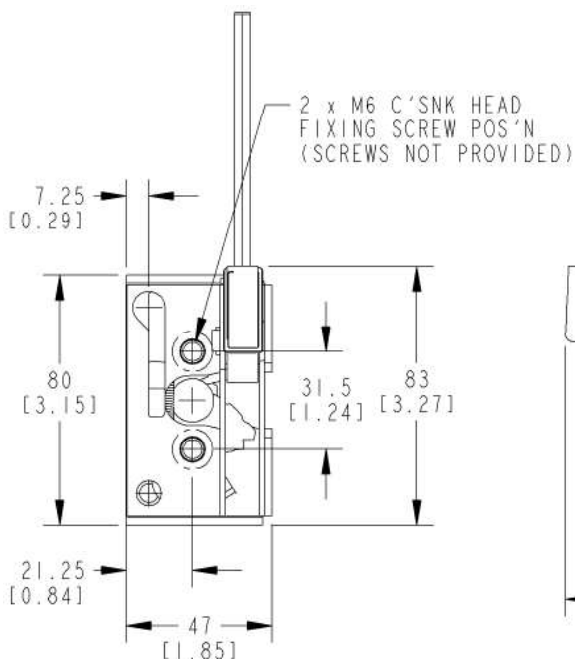
- Easy to install - recommended mounting fastener (2) M6 x 1.0 flat or oval head class 8.8 or better fasteners are required for FMVSS 206 (ECE R11) (not included)
- Tighten to the fasteners recommended torque value, however, do not exceed 6 to 8 N-m (53 to 70 in-lbs.)
- Latch mounting plate supplied, is required to meet FMVSS 206 (ECE R11) loads

## USE WITH:

- Latch Mounting Plate (included)
- 070-7100 10mm Striker Pin

Note that this 050-7130 10mm Single Rotor Latch Squeeze Release complies with FMVSS 206 (ECE R11) when tested with supplied mounting bracket and accordance with SAE J839 and that this product meets FMVSS 206 (ECE R11) load requirements and may be used in FMVSS 206 (ECE R11) applications pending TriMark application approval. Please refer to page 158 for the complete FMVSS 206 (ECE R11) statement.

**Caution:** Product does not meet the locking requirements for FMVSS 206 (ECE R11).





# 050-7140 10mm Single Rotor Latch with Cable Release

The compact 050-7140 10mm Single Rotor Latch with Cable Release is designed for operator applications for off-highway vehicles that require a remote interior release. Similar to the 050-7120, this 10mm Single Rotor Latch with Cable Release allows inside squeeze release integration into the customers door tubing.

- Light to medium duty doors up to 45 Kg (100 lbs.) with door seal pressures no greater than 11 Kg (25 lbs.)

## FEATURES/BENEFITS:

- Compact size and shape; requires minimum use of door space
- Two position rotary function suitable for personnel doors for FMVSS 206 and (ECE R11) applications
- Standard black finish reduces the need for secondary painting
- Supplied with latch plastic cover
- Provides for greater ease of operation (ergonomics) and flexibility into customers door tubing

## AVAILABLE:

- Versions are available to allow direct or remote actuation from exterior push button or paddle handles
- With left and right variants; provides application flexibility (right hand shown)
- Multiple cable lengths are available providing flexibility in the product application. Custom lengths are available (please inquire)

## MATERIAL/FINISH:

- Black plated steel case halves
- Cam and catch: Heat treated steel



## INSTALLATION:

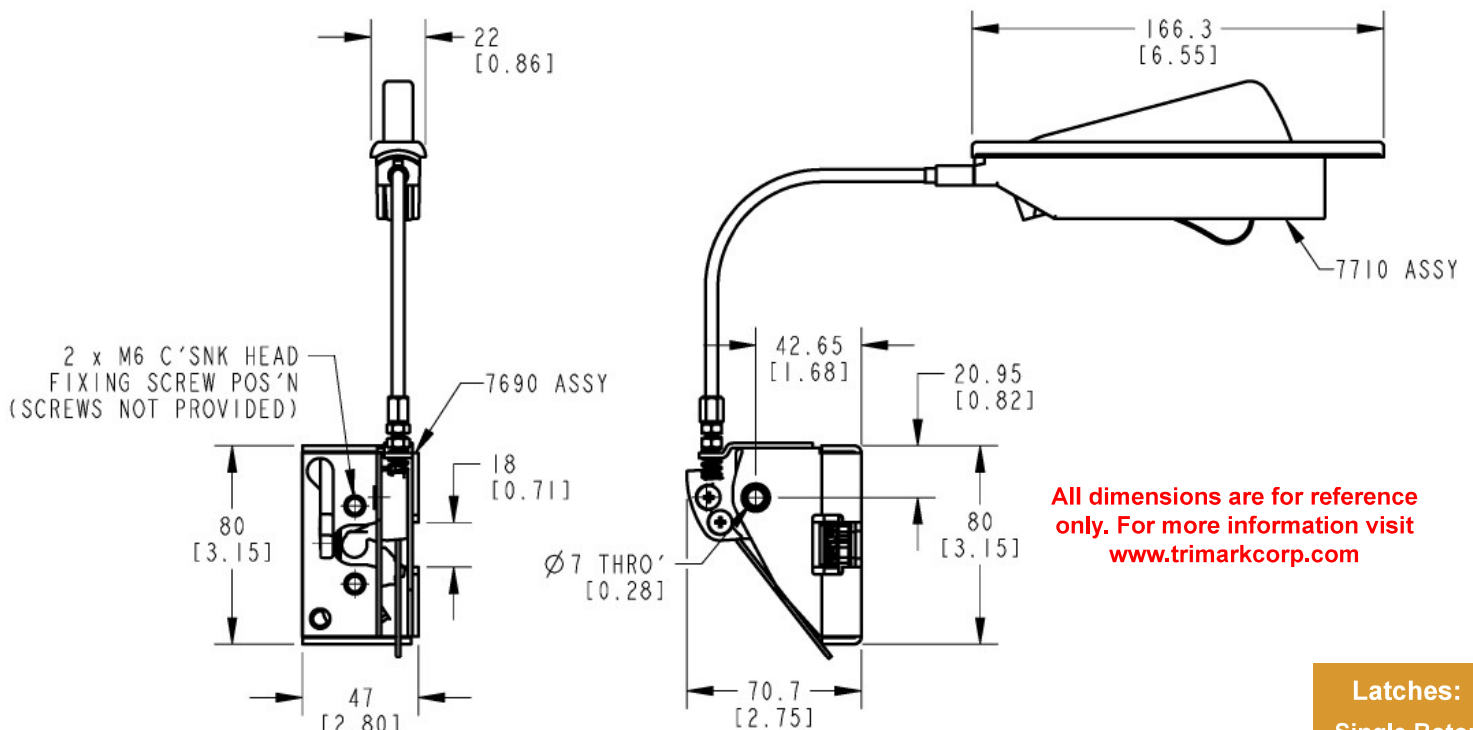
- Easy to install - recommended mounting fastener (2) M6 x 1.0 flat or oval head class 8.8 or better fasteners are required for FMVSS 206 and (ECE R11) (not included)
- Tighten to the fasteners recommended torque value, however, do not exceed 6 to 8 N-m (53 to 70 in-lbs.)
- Latch mounting plate is required to meet FMVSS 206 (ECE R11) loads

## USE WITH:

- Latch Mounting Plate (included)
- 070-7100 10mm Striker Pin

Note that this 050-7140 10mm Single Rotor Latch With Cable Release complies with FMVSS 206 (ECE R11) when tested with supplied mounting bracket accordance with SAE J839 and that this product meets FMVSS 206 (ECE R11) load requirements and may be used in FMVSS 206 (ECE R11) applications pending TriMark application approval. Please refer to page 158 for the complete FMVSS 206 (ECE R11) statement.

**Caution:** Product does not meet the locking requirements for FMVSS 206 (ECE R11).



# 050-7180 10mm Single Rotor Latch with Finger Release

The compact 050-7180 10mm Single Rotor Latch with Finger Release is designed for compartment door applications for off-highway vehicles that require a simple and compact rotary latch with a finger release.

- Access panels and hoods for light duty doors up to 23 Kg (50 lbs.) with door seal pressures no greater than 7 Kg (15 lbs.)

## FEATURES/BENEFITS:

- Compact size and shape; allows maximum use of door space
- Two position rotary function
- Standard black finish reduces the need for secondary painting

## AVAILABLE:

- Versions are available to allow application flexibility
- With and without direct release inside levers
- With left and right variants; provides application flexibility (right hand shown)

## MATERIAL/FINISH:

- Black plated steel case halves
- Cam and finger release: Heat treated steel



## INSTALLATION:

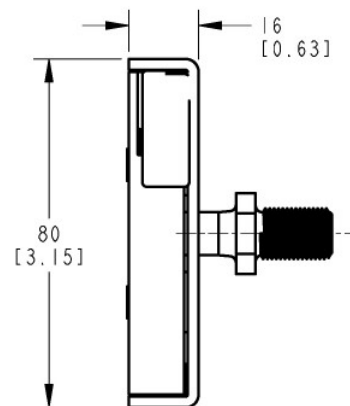
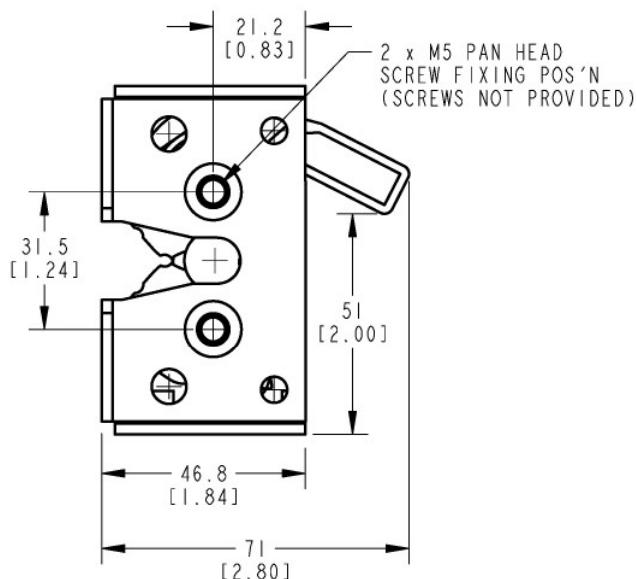
- Easy to install - recommended mounting fastener (2) M6 x 1.0 flat or oval head fasteners are required (not included)

## USE WITH:

- 070-7100 10mm Striker Pin

**Caution:** Latch does not meet FMVSS 206 (ECE R11) load requirements.

**All dimensions are for reference only. For more information visit [www.trimarkcorp.com](http://www.trimarkcorp.com)**



# 050-7200 10mm Single Rotor Latch with Dual Trip Levers

The compact 050-7200 10mm Single Rotor Latch with Dual Release Levers is designed for operator and compartment door applications for off-highway vehicles. Offering a direct push button handle release with remote cable or rod actuated inside release providing expanded application flexibility

- Light to medium duty doors up to 45 Kg (100 lbs.) with door seal pressures no greater than 20 Kg (44 lbs.)

## FEATURES/BENEFITS:

- Compact size and shape; requires minimum use of door space
- Standard black finish reduces the need for secondary painting
- Two position rotary function

## AVAILABLE:

- Versions are available to allow direct or remote actuation from exterior push button or paddle handles
- With left and right variants; provides application flexibility (right hand shown)

All dimensions are for reference only. For more information visit [www.trimarkcorp.com](http://www.trimarkcorp.com)



## MATERIAL/FINISH:

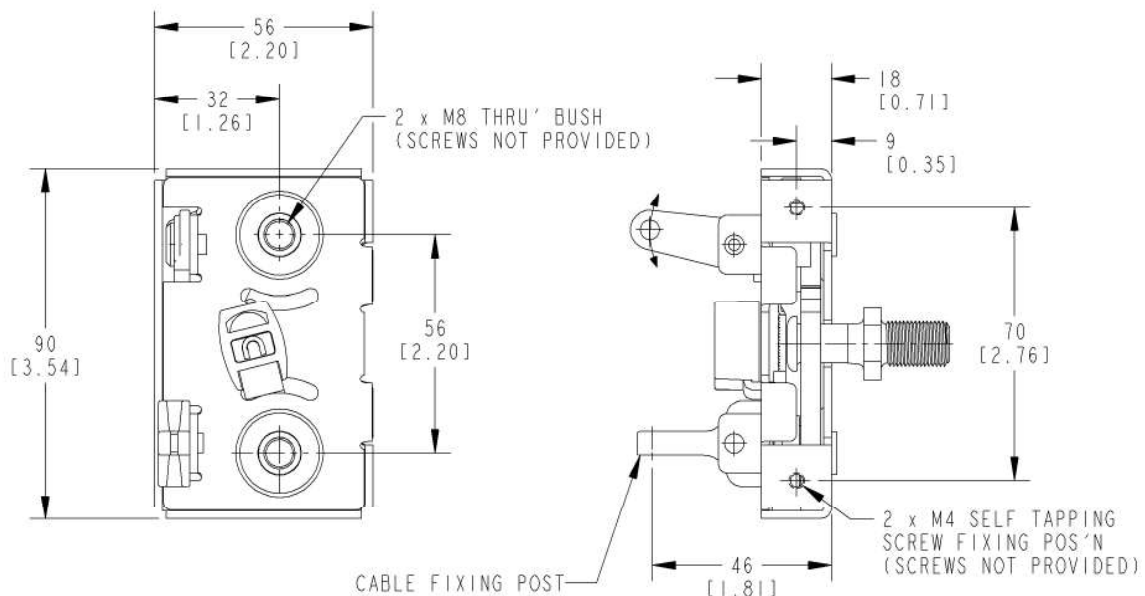
- Black plated steel case halves
- Cam and catch: Heat treated steel

## INSTALLATION:

- Easy to install - recommended mounting fastener (2) M8 x 1.25 flat or oval head fasteners are required (not included)

## USE WITH:

- 070-7100 10mm Striker Pin



# 060-0100 Plunger Bolt

This plunger bolt was designed for lightweight compartment and access doors where low cost slam action latching with L-handle actuation is desired. It features a robust steel plunger bolt for durability and a base mount that allows for ease of installation.

## FEATURES/BENEFITS:

- Minimal door seal pressures
- Easily installed using your choice of mounting fasteners (not included)
- Slotted mounting holes for easy adjustment (mounting surface must be completely flat)

## AVAILABLE:

- In left or right hand configurations (right hand shown)
- 90° or 20° orientation of 5/16" (8.1mm) square drive bar opening

**All dimensions are for reference only. For more information visit [www.trimarkcorp.com](http://www.trimarkcorp.com)**

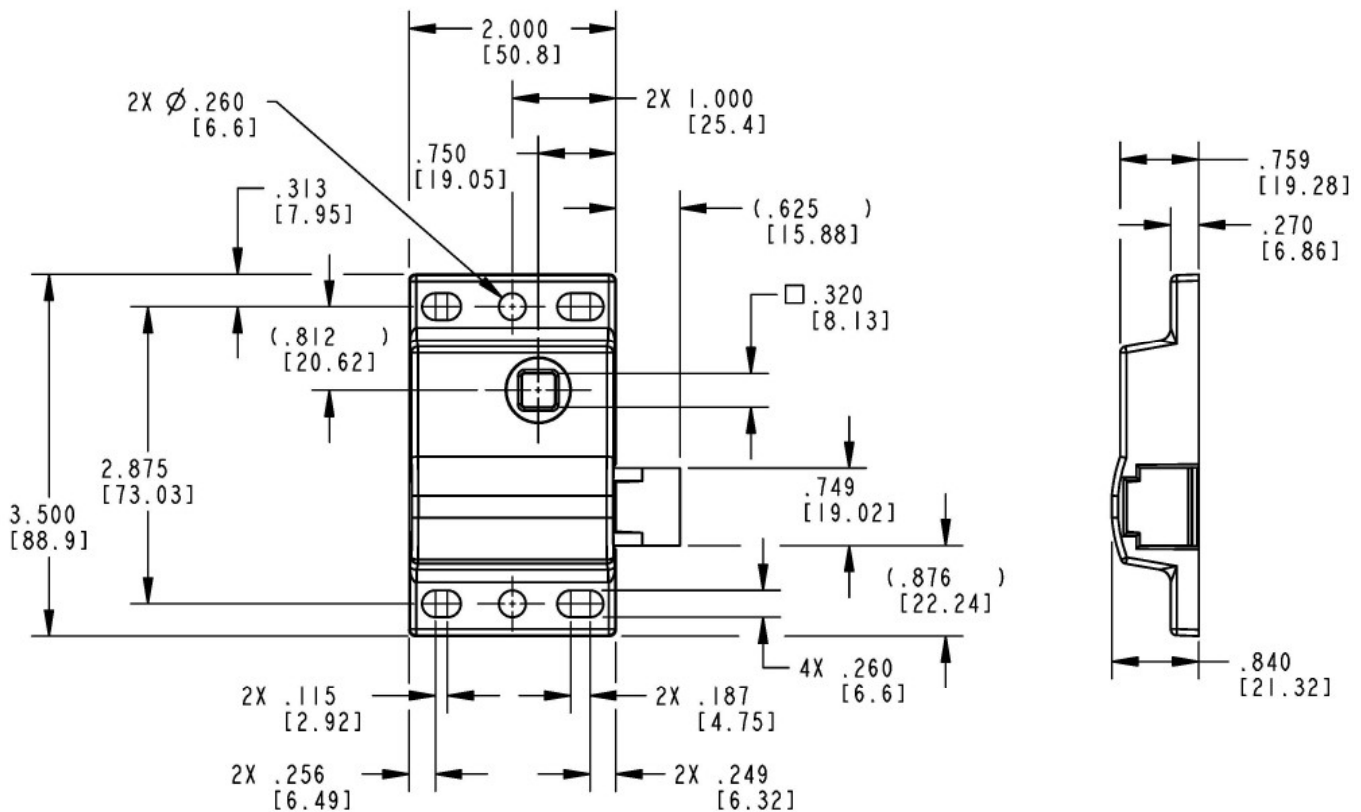


## FINISH:

- Mill--unplated
- Zinc plated
- Black powder coated

## MATERIAL:

- Housing: Die cast zinc alloy
- Plunger bolt: Powder metal/steel
- Back plate: Zinc plated steel





# 060-0500 Plunger Bolt

This plunger bolt was designed for small compartment and access doors where low cost slam action latching is desired. It features a plastic plunger bolt for ease of closing/opening and is available with rod collars and a direct release knob for installation and ease of use.



## FEATURES/BENEFITS:

- Unique, economical, single piece cover design
- .625" (15.87mm) allowable travel
- Low operating efforts
- Corrosion resistant
- Slotted mounted holes for ease of installation
- Precision placed mounting holes allow pre-drilling of holes in mating parts
- Optional inside release feature
- Non-metallic plunger bolt for low operating efforts
- Optional collar and setscrew for easy rod attachment and adjustment

## FINISH:

- Cover and link: Zinc plated with clear chromate conversion coating
- Collar: Clear chromate dip

## MATERIAL:

- Cover and link: Cold rolled steel
- Plunger bolt: Black nylon
- Collar: Zinc die cast alloy

## INSTALLATION:

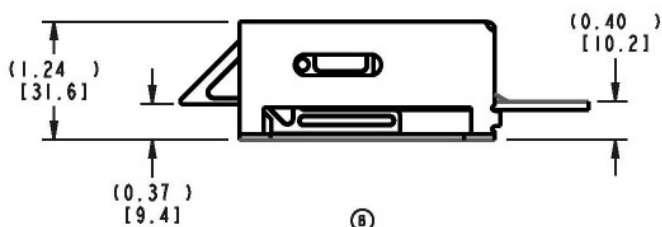
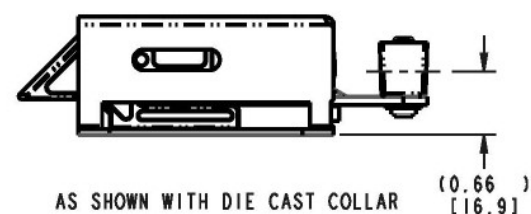
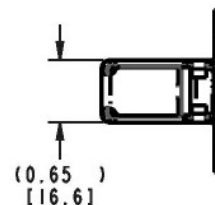
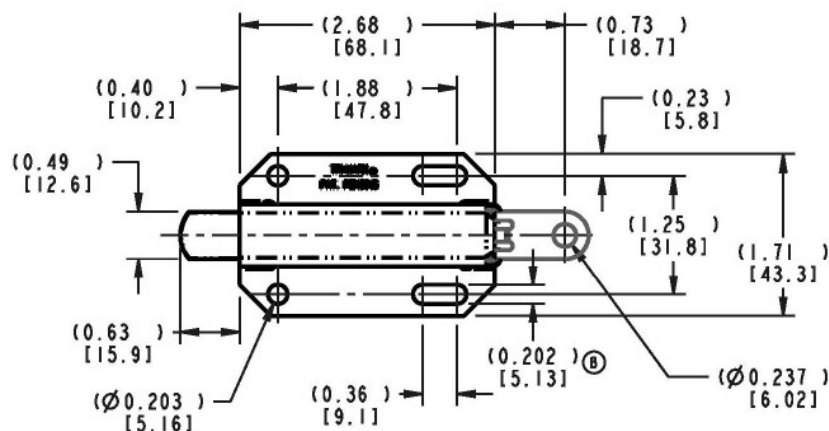
- Recommended use of #10-24 or #10-32 type D, F, G or T thread cutting, self-threading screws (not included)

## AVAILABLE:

- With or without collar and setscrew as shown below (please inquire)
- Operated with cables or rods
- Custom rods up to .219" diameter (5.4mm)
- Optional plunger nose configurations available (requires tooling)

**Note:** Rod collars are not intended or recommended for use in applications that require FMVSS 206 (ECE R11) compliance or applications that have heavy or extreme striker bolt loads (> 25 lbs. / 11 kg) and/or high to extreme usage (> 100,000 door cycles/life).

All dimensions are for reference only. For more information visit [www.trimarkcorp.com](http://www.trimarkcorp.com)



# 060-0900 Recessed Mount Plunger Bolt

This plunger bolt was designed for small compartment and access doors where low cost slam action latching is desired. It features a plastic plunger bolt for ease of closing/opening and a flange mount that allows for internal door mounting (recessed).



## FEATURES/BENEFITS:

- .500" (12.7mm) allowable travel
- Low operating efforts
- Corrosion resistant
- Non-metallic plunger bolt for low operating efforts
- Flange mount allows for internal door mounting (recessed)

## FINISH:

- Black painted

## MATERIAL:

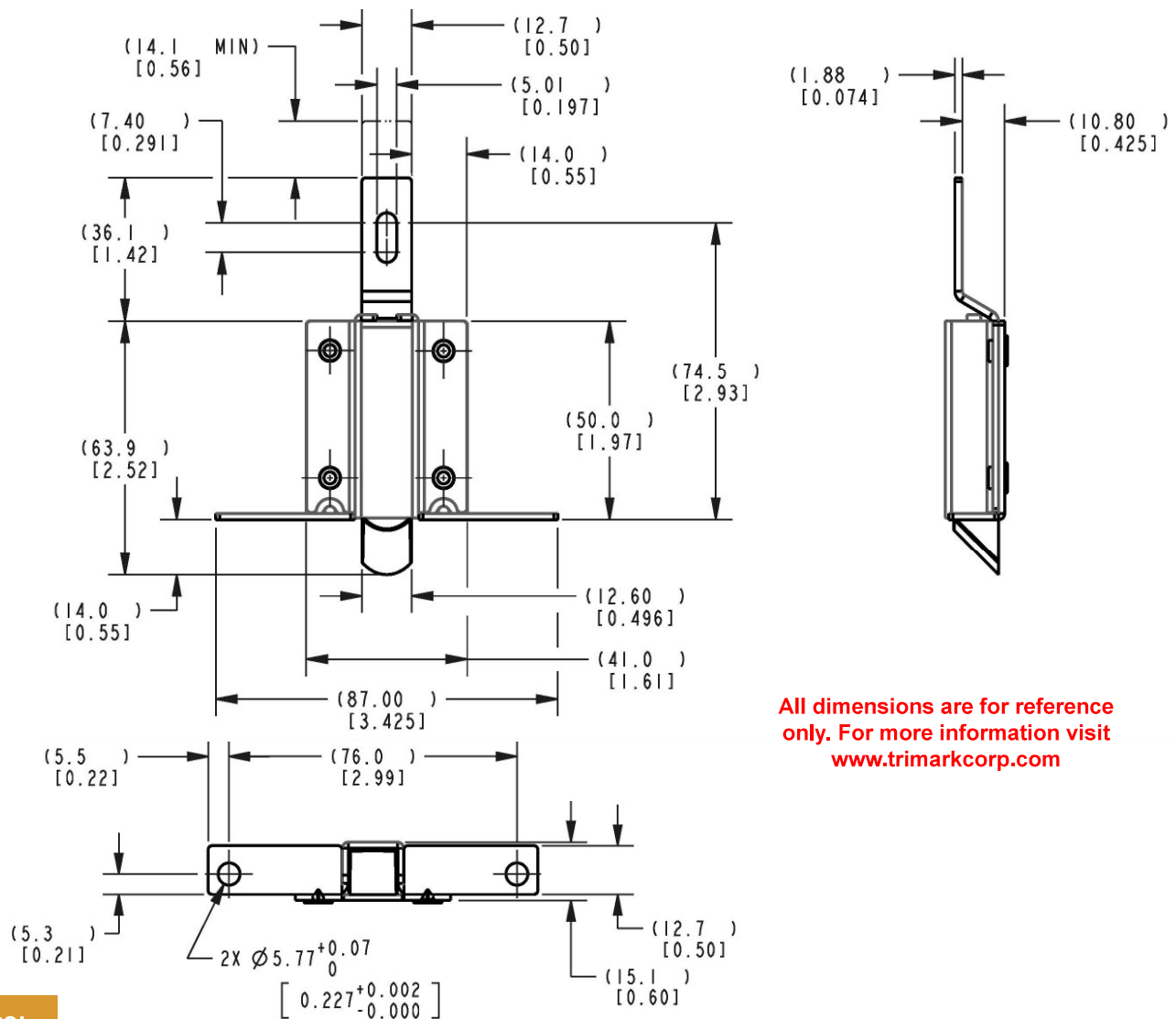
- Base, cover, slide: Cold rolled steel
- Spring: Stainless steel
- Plunger: Nylon

## AVAILABLE:

- Custom rods up to .188" diameter (4.5mm)

## INSTALLATION:

- Recommended use of (2) 3/16 (4.5mm) diameter pop rivets or #12 type AB, B or BP steel thread forming screws



All dimensions are for reference only. For more information visit [www.trimarkcorp.com](http://www.trimarkcorp.com)

Latches:

Sliding Bolt  
44

# 060-0901 Low Profile Plunger Bolt

This plunger bolt was designed for small compartment and access doors where low cost slam action latching is desired. It features a robust steel plunger bolt for durability and a base mount that allows for ease of installation.

- Light duty baggage doors
- Door weights up to 30 lbs. (13.6 kg)
- Door seal load up to 15 lbs. (6.8 kg)

## FEATURES/BENEFITS:

- Plunger bolt retraction is independent of link
- 500" (12.7mm) allowable travel
- Low operating efforts
- Corrosion resistant
- Slotted mounting holes for ease of installation

## FINISH:

- Cover, link, plunger bolt: Zinc plated with clear chromate conversion coating

## MATERIAL:

- Cover and link: Cold rolled steel or 304 stainless steel
- Plunger bolt: Powder metal
- Spring and base plate: Stainless steel

All dimensions are for reference only. For more information visit [www.trimarkcorp.com](http://www.trimarkcorp.com)



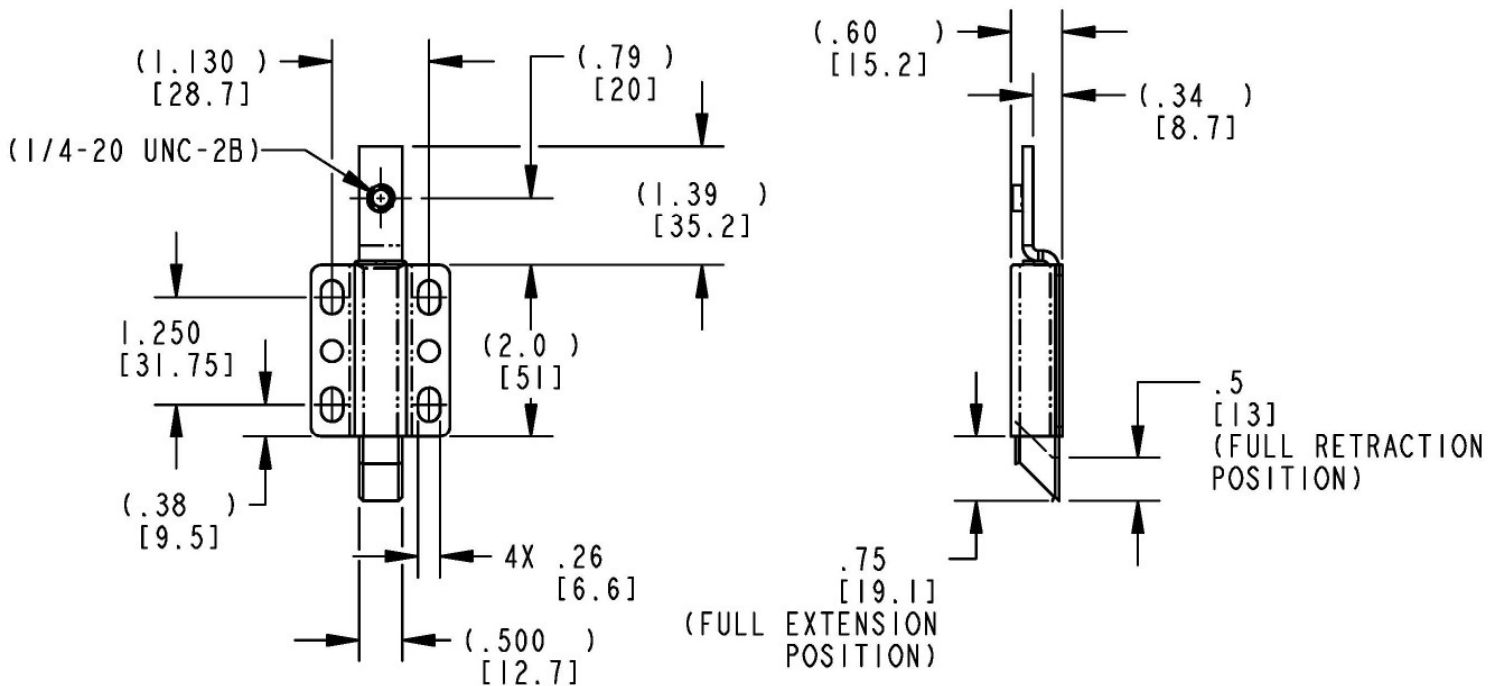
## AVAILABLE:

- Reverse plunger for inward swinging doors (please inquire)

## INSTALLATION:

- Recommended use of (4) 1/4-20 or M6 type fasteners

Caution: Latch does not meet FMVSS 206 (ECE R11) load requirements.



# 060-1200 RV Screen Door Latch

This product is designed for securing of screen doors for RV motor homes and travel trailers. It features sturdy die cast zinc construction for years of trouble free use.

## FEATURES/BENEFITS:

- Dual function - latch secures the screen door to the exterior door as well as the door jamb
- Allows for one hand operation with positive slam action latching function
- Low profile design will work with a wide variety of doors

## AVAILABLE:

- Right hand version
- Door latch and strike are included for a total system solution

## INSTALLATION:

- Easy to install with (6) #8 fasteners (included)



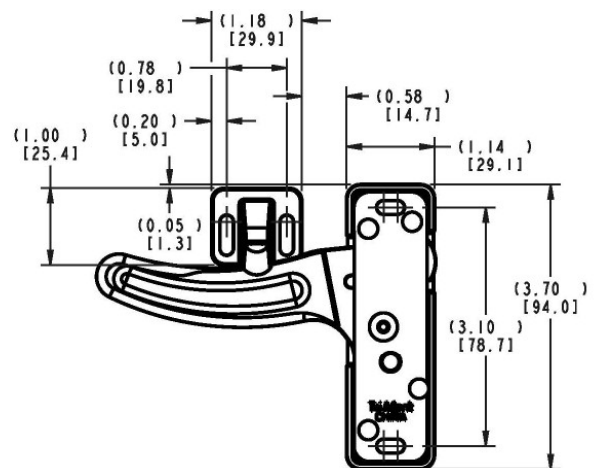
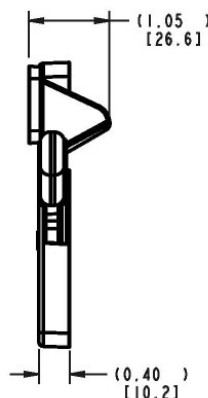
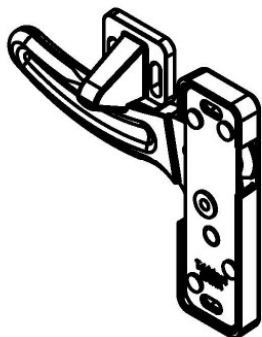
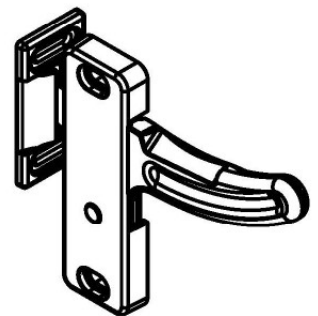
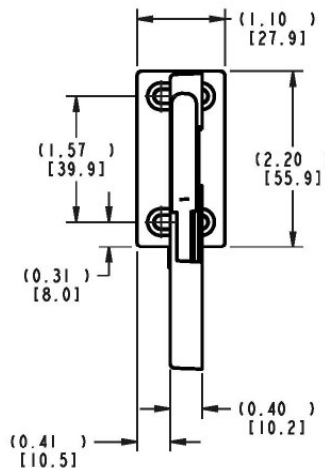
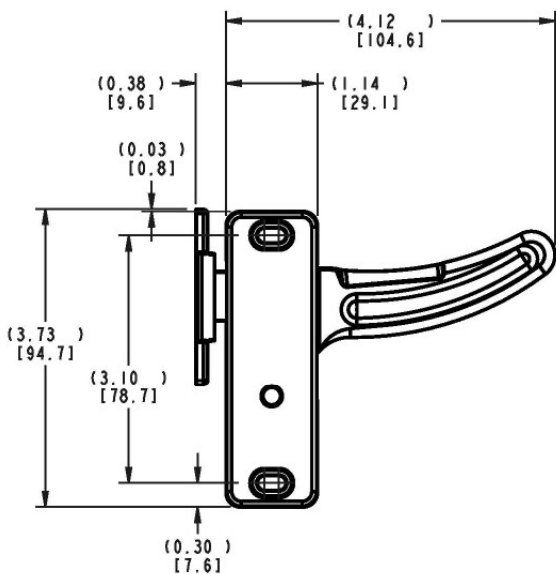
## MATERIAL:

- Sturdy die cast zinc alloy
- Non-corrosive stainless steel spring
- Door strike and keeper—engineered plastic

## FINISH:

- Black powder coated

All dimensions are for reference only. For more information visit [www.trimarkcorp.com](http://www.trimarkcorp.com)





# 060-7100 Plunger Latch - Low Profile L-Handle

Designed for compartment and access doors where low cost slam action latching with L-handle actuation is desired. It features a robust zinc die cast plunger bolt for durability.

## FEATURES/BENEFITS:

- Various handle styles
- Easy to install
- Accommodates door thickness from 25mm to 50mm (1.00-2.00")
- Non-handed

## AVAILABLE:

- Several options are available to suit a variety of applications

## MATERIAL:

- Sturdy zinc die cast alloy housing and plunger bolt components



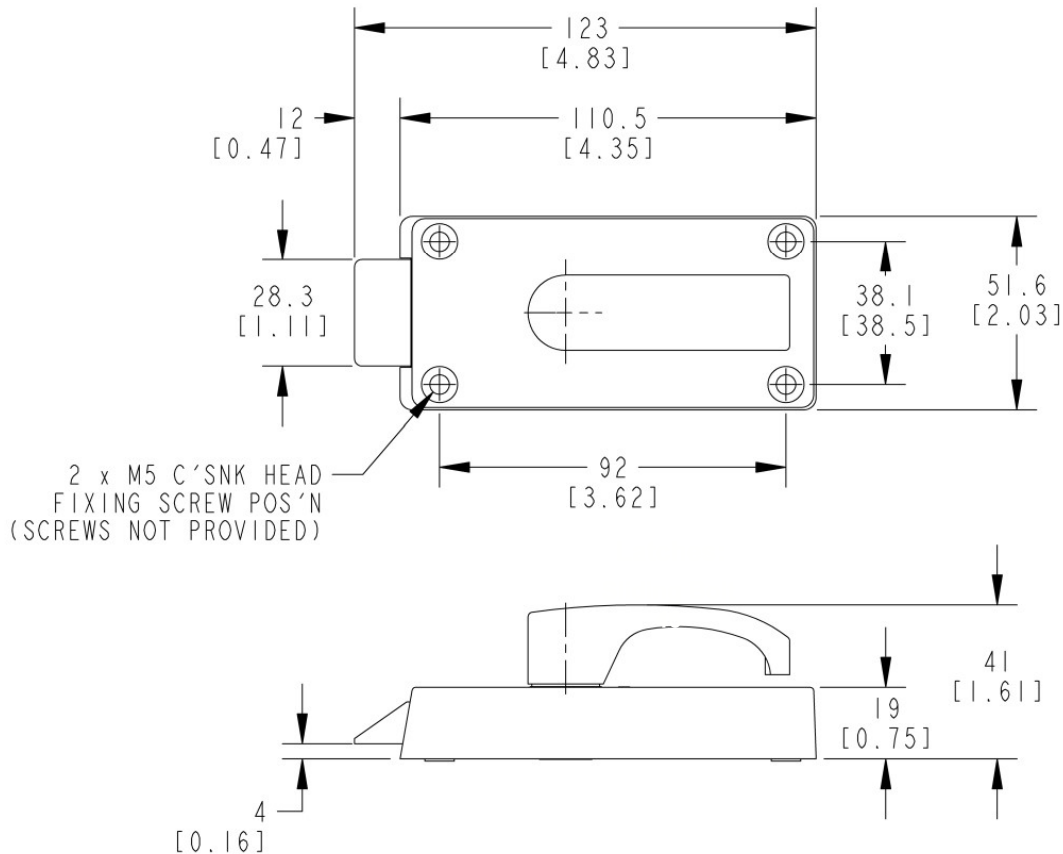
## FINISH:

- Standard black or silver powder coated
- Other color options available upon request

## INSTALLATION:

- Easy to install, (4) M5 fixing screws available, not to exceed 6 N-m (50 in-lbs.)
- Various base plates available (spacer)

All dimensions are for reference only. For more information visit [www.trimarkcorp.com](http://www.trimarkcorp.com)



# 060-7200 Heavy Duty Plunger Latch - Large L-Handle

Designed for compartment and access doors where low cost slam action latching with L-handle actuation is desired. It features a robust zinc die cast plunger bolt for durability.

## FEATURES/BENEFITS:

- Various handle styles
- Easy to install
- Accommodates door thickness from 25mm to 50mm (1.00-2.00")
- Internal Locking

## AVAILABLE:

- Several options are available to suit a variety of applications
- Left and right hand variants (handle rotation)

## MATERIAL:

- Sturdy zinc die cast alloy housing
- Zinc die cast alloy plunger bolt with steel reinforcement plate



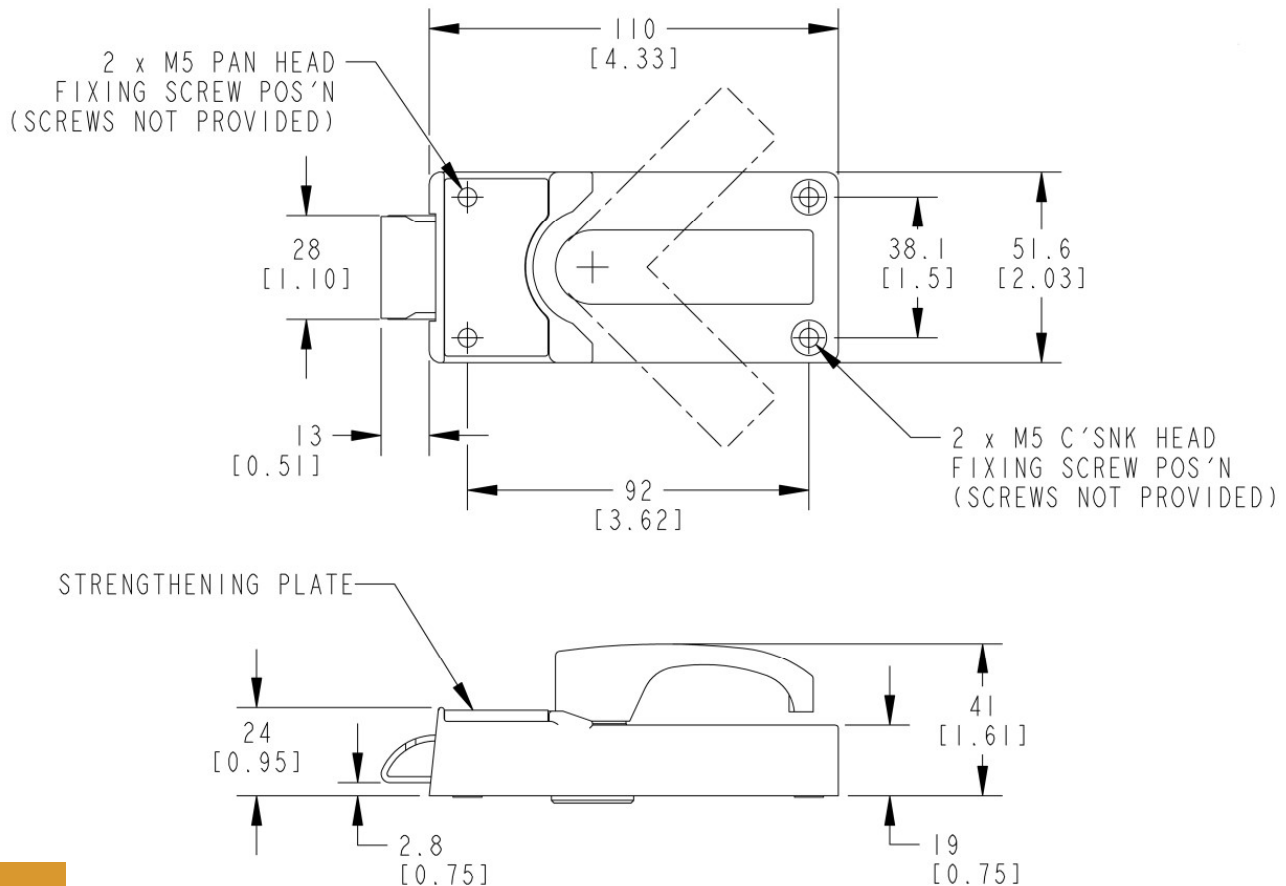
## FINISH:

- Standard black or silver powder coated
- Other color options available upon request

## INSTALLATION:

- Easy to install, (4) M5 fixing screws available, not to exceed 6 N-m (50 in-lbs.)
- Various base plates available (spacer)

All dimensions are for reference only. For more information visit [www.trimarkcorp.com](http://www.trimarkcorp.com)



# 140-0100 TriGuard Heavy Duty Cam Lock

This heavy duty cam lock module is designed to be located in high stress areas and used as a primary mechanism for securing personnel doors, rear doors, hatches and windows or as a secondary mechanism in conjunction with a primary door latch. Providing additional strength and security, it can be used singularly or in multiples and can be operated and controlled via rods or cables from a central release such as TriMark's 010-1000 Inside Release Handle.

## FEATURES/BENEFITS:

- Heavy duty modular construction is received fully assembled and tested
- Integrated detent holds the cam in 90 degree orientations
- Square drive detail allows for interior handle attachment and exterior emergency release

## AVAILABLE:

- Clockwise and counter-clockwise rotation to lock (clockwise rotation shown)
- Customization features available
- Please inquire - special cases and mounting details

## MATERIAL:

- High strength steel construction
- Heat treated cam and cross shaft

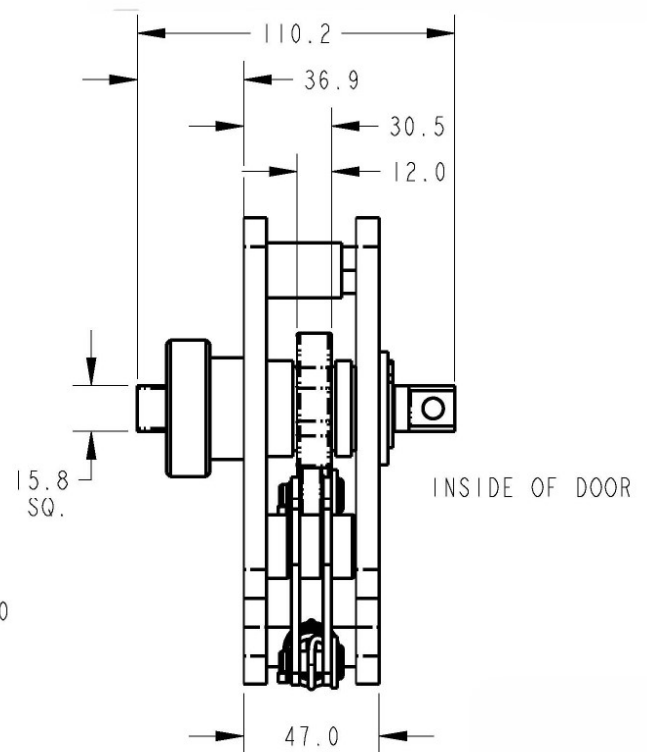
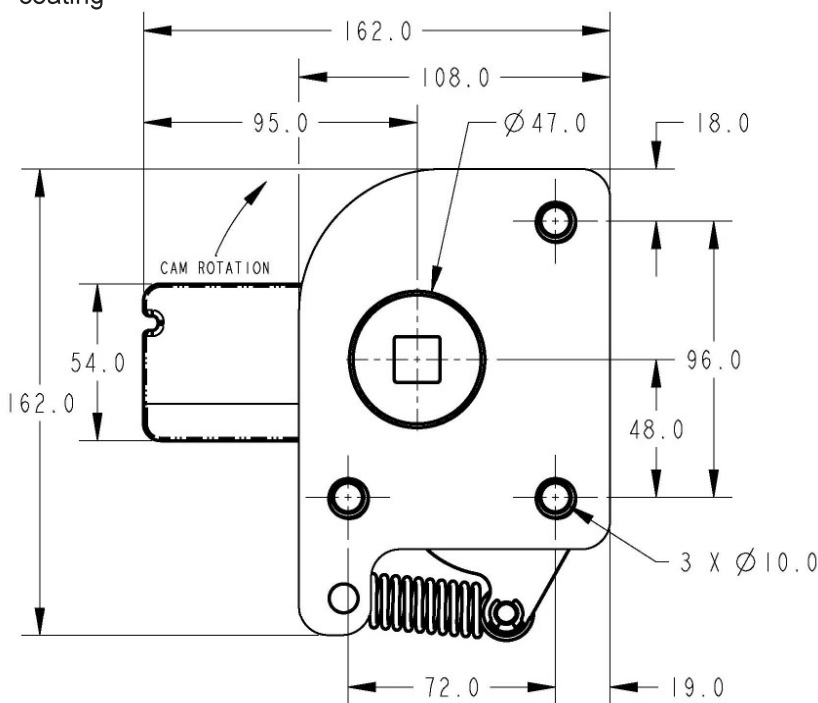
## FINISH:

- Zinc plated, clear chromate steel components
- Optional finishes available including: Black Magni coating, Tan/Olive CARC paint and Tan/Olive powder coating



## INSTALLATION:

- Easy to install, module mounts with (3) M8 x 1.25 Class 8.8 fasteners
- Tighten to the manufacturers' recommended torque value
- For best results, lock cam to have minimal clearance to the door frame 1.0mm-2.0mm (0.040-0.080")



All dimensions are for reference only. For more information visit [www.trimarkcorp.com](http://www.trimarkcorp.com)

Latches:  
Deadbolt  
49

# 030-0500 Pivoting Catch Compartment Latch

This latch was specifically designed for storage and compartment doors for off-road vehicles including agricultural and construction equipment and industrial enclosures. It features a pivoting hook latching design and a reverse paddle design that is suited for top hinged doors and resistance to the insertion of foreign objects.

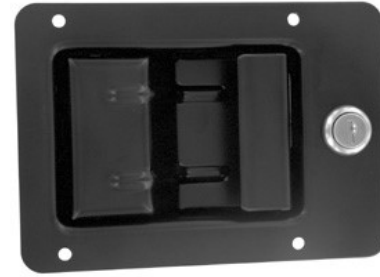
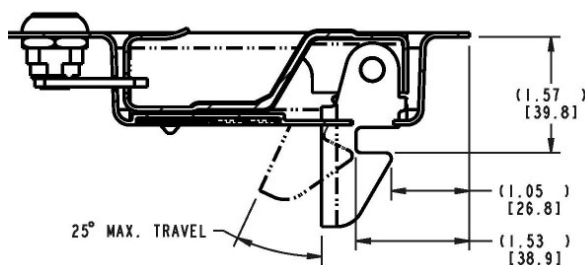
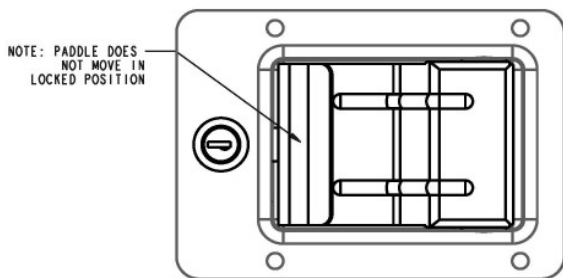
- On or off-highway vehicle applications - construction, mining, agricultural
- Service and utility truck body doors
- Electrical switch and transformer boxes

## FEATURES/BENEFITS:

- Pivoting catch allows relative movement between the door and frame when the vehicle frame flexes
- Components are spring loaded internally to minimize effects of vibration
- Reverse paddle design of the compartment latch is suited for top hinged doors and provides resistance to insertion of foreign objects
- Two levels of performance/duty; the heavy duty version (030-0550) provides a higher level of resistance to vibration and wear

## AVAILABLE:

- Key locking - keyed alike with most common key codes to match paddle actuators used for operator enclosures
- Non-locking
- Padlockable for increased security
- Optional hole patterns



## MATERIAL:

- All steel reinforced construction

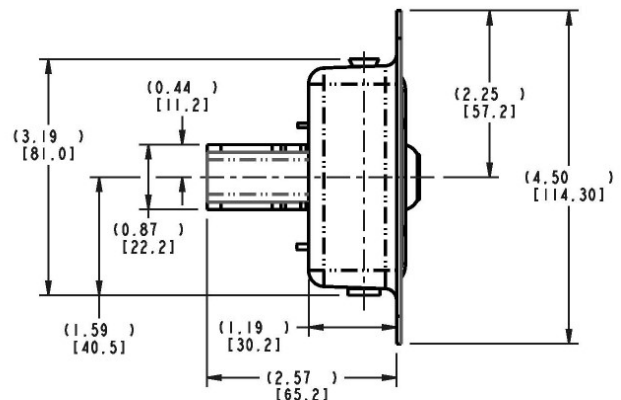
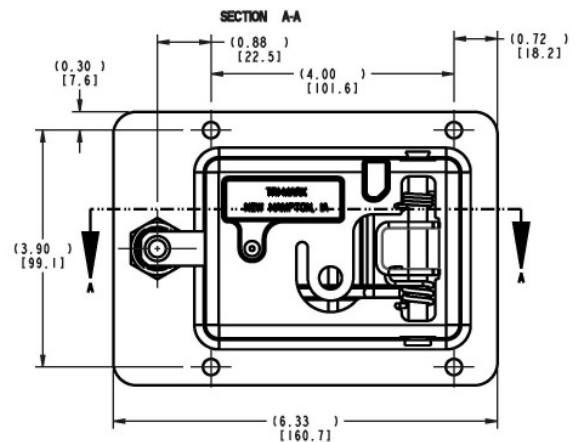
## FINISH:

- Zinc plate, clear chromate conversion coat for maximum paint adhesion and resistance to rust
- Black powder coated

## INSTALLATION:

- Lock cylinder may be installed after the latch has been assembled into the door and painted
- (4) 3/16" M4 diameter steel "pop" rivets or 1/4-20 or M6 screws (not included)

Caution: Latch does not meet FMVSS 206 (ECE R11) load requirements.

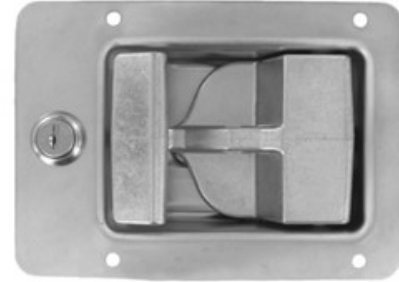


# 030-0550 Heavy Duty Pivoting Catch Compartment Latch

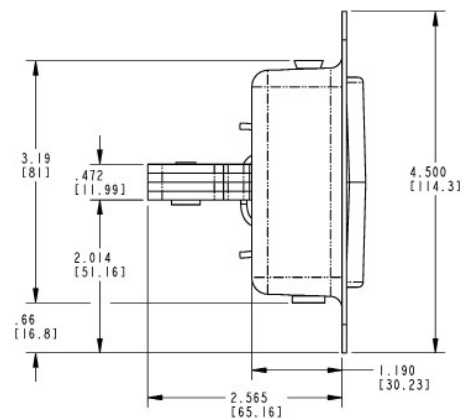
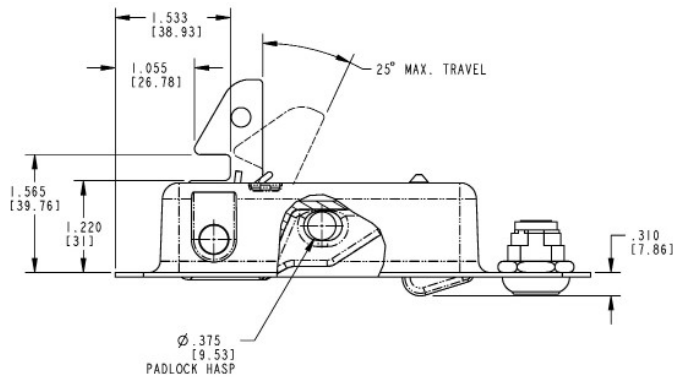
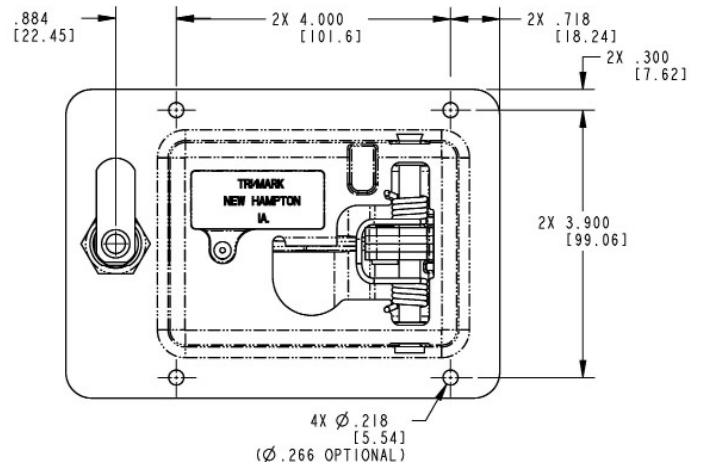
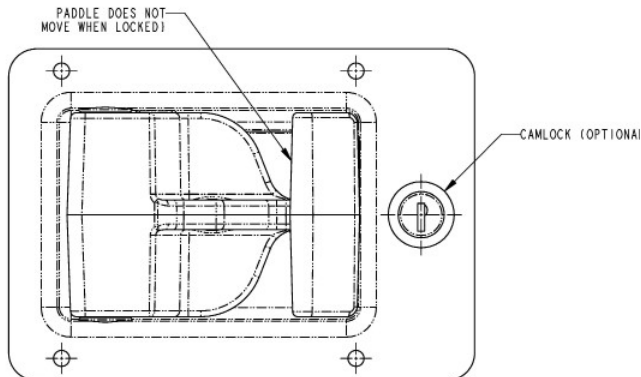
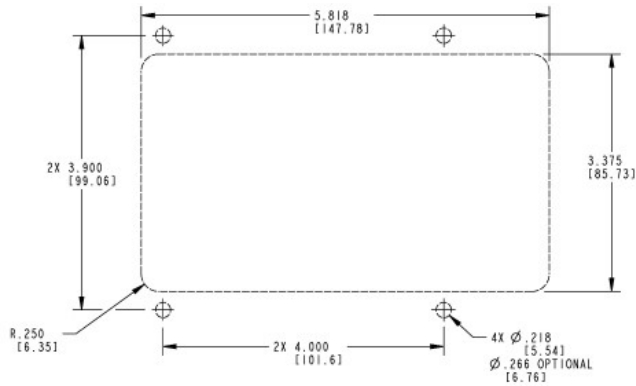
## 030-0550 FEATURES:

- The high strength steel laminated hook resists wear and increases strength
- Heavy duty zinc die-cast paddle resists deformation
- Retrofits the same cutout as the 030-0500 Pivoting Catch Compartment Latch

**Caution:** Latch does not meet FMVSS 206 (ECE R11) load requirements.



All dimensions are for reference only. For more information visit [www.trimarkcorp.com](http://www.trimarkcorp.com)





# 050-1300 Plastic Slam Latch

TriMark's 050-1300 Plastic Slam Latch is designed to secure a variety of storage, compartment and access doors. The robust construction and compact size at a very cost effective price makes it a great choice for light duty compartment door and access panel applications.



## FEATURES/BENEFITS:

- Slam action latch is non-handed
- Small size will work in a variety of small compartments and applications
- Simple, cost-effective latch offers an alternative to standard rotary latches
- Operation - dual plungers allow the rod to enter into the latch as normal slam action, then the rods must be retracted to allow for the release
- Reduced operating efforts under load
- Reduced operating noise and rattle when compared to zinc/steel products
- Engineered plastic withstands corrosion and has a lower coefficient of friction, reducing closing and operating efforts
- Striker diameter - .375" (9.5mm)

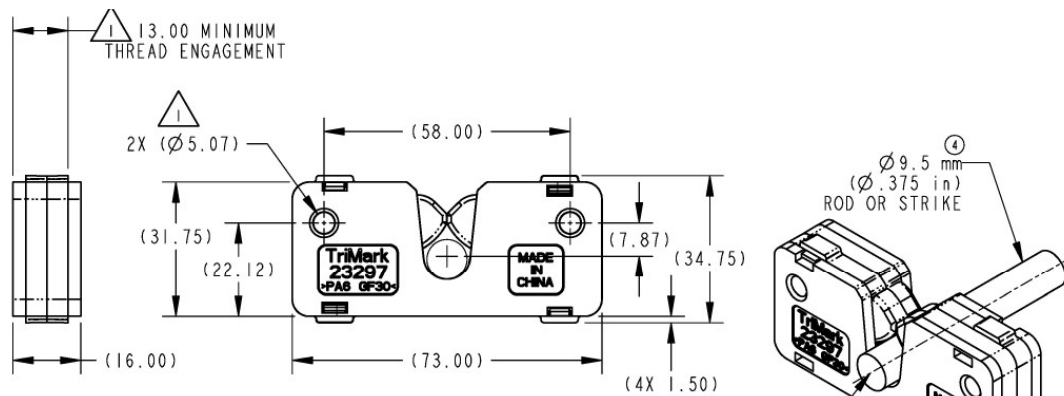
## INSTALLATION:

- Easy to install with (2) M6 thread forming fasteners (available - not included)

## MATERIAL:

- Engineered injection molded plastic
- Non-corrosive stainless steel springs
- Internal cold rolled stamped steel reinforcement plate (zinc plated, clear chromate)

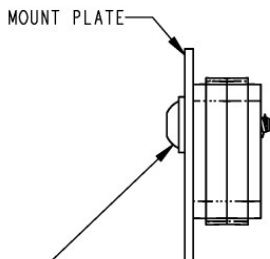
Caution: Latch does not meet FMVSS 206 (ECE R11) load requirements.



NOTES: UNLESS OTHERWISE SPECIFIED

- RECOMMEND MOUNTING WITH TRIMARK PART NUMBER 22031-01 (M6 TYPE DELTA POINT THREAD FORMING SCREWS) WITH 13.00 MM MINIMUM THREAD ENGAGEMENT. MOUNTING TORQUE NOT TO EXCEED 7.5 Nm (66 IN-LBF).

- CAUTION: CASE HALF SEPARATION MAY OCCUR WHEN THREADING A SCREW INTO THE LATCH IF THE OPPOSITE SIDE CASE HALF IS NOT HELD RIGID.



MOUNTING OPTION

TRIMARK P/N 22031-01 M6 TYPE DELTA PT THREAD FORMING SCREWS OR APPROVED EQUIVALENT

All dimensions are for reference only. For more information visit [www.trimarkcorp.com](http://www.trimarkcorp.com)

# 080-0200 Lever Style Compression Latch

This product is designed for light to medium duty compartment doors, access panels and hoods for off-highway vehicle applications. This heavy duty lever action fixed grip compression latch offers a long lever handle for increased door closing leverage, simplicity of operation and comfortable grip.

## FEATURES/BENEFITS:

- Double cam design works with strikers up to 10mm in diameter providing a high level of resistance to vibration and wear
- Over-center action prevent accidental opening due to shock or vibration
- 4mm compression dampens vibration and helps reduce noise and rattle
- Stylish handle cover provides a comfortable grip

## AVAILABLE:

- Standard padlock hasp
- Key locking provision to add a cam lock for increased security



## MATERIAL:

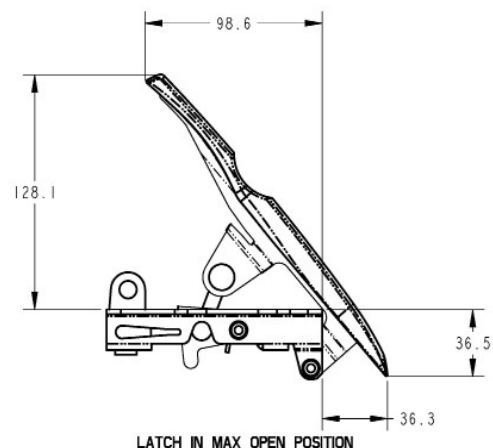
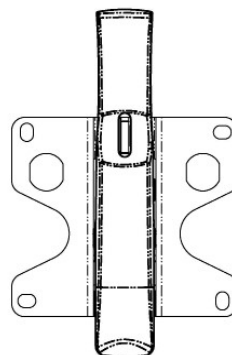
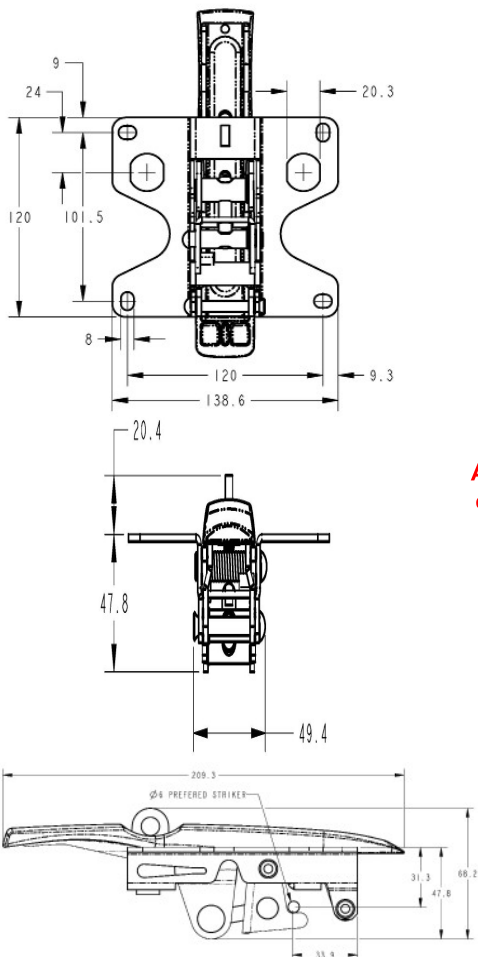
- Robust all steel reinforced construction
- Handle cover: Black engineered plastic
- Springs: Non-corrosive stainless steel

## FINISH:

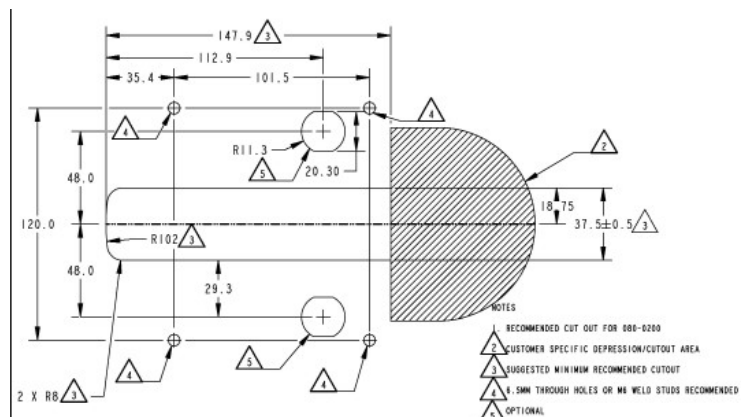
- Zinc plated steel components with black chromate

## INSTALLATION:

- (4) M6 or 1/4" fasteners (not included)
- Latch mounts from inside of door panel
- Lock cylinder may be installed after the latch has been assembled into the door



All dimensions are for reference only. For more information visit [www.trimarkcorp.com](http://www.trimarkcorp.com)



# 080-0400 CompOne™ Compression Latch

TriMark's 080-0400 CompOne Compression Lock combines the compactness of a cam lock with smooth and secure pull-in functionality. Featuring 5mm of compression with a 180° turn of the key, this robust lock is intended for gasketed doors, is fully adjustable, water resistant and easy to install.



- Light to medium on or off-highway panel and compartments where door gaskets require a compression lock to pull-in for a firm seal



## FEATURES/BENEFITS:

- The KeyOne™ Plus locking system allows the operation of multiple onboard locking hardware with a single key or the option to key differently
- Key-operated compression lock provides 5mm of compression with 180° turn of the key, helps reduce or eliminate noise and rattles caused by vibration.
- Internal and external gasket resists water infiltration through the door
- Cam mounting allows for 8mm (.315") adjustment and cams are rotatable in 45° increments

## MATERIAL:

- Sturdy die cast zinc alloy
- Fixing kits: Steel

## FINISH:

- Head: Black chromate or chrome plated
- Steel components: Zinc plate and clear chromate conversion coat

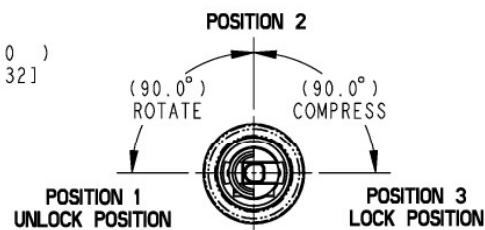
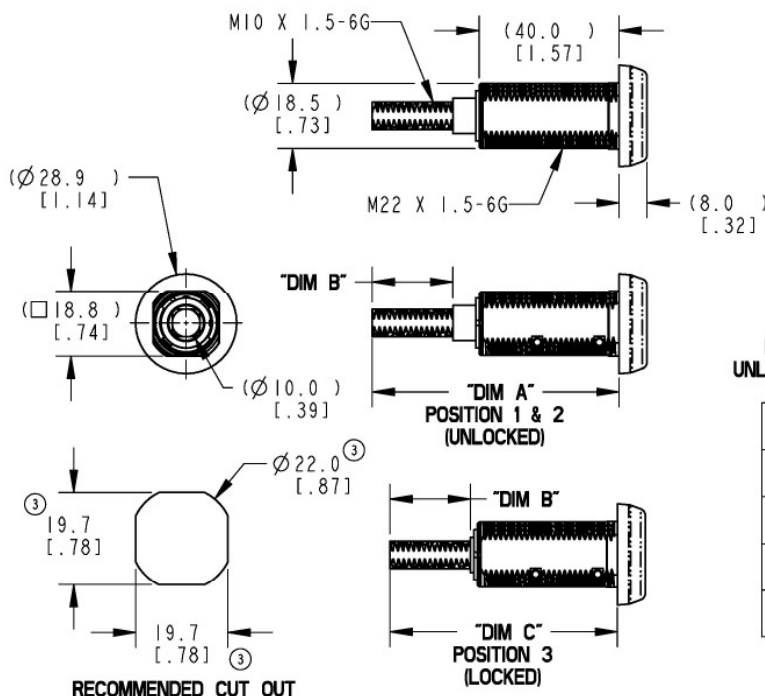
## AVAILABLE:

- With various fixing kits consisting of mounting gasket, panel nut, anti-vibration mount washer, (2) cam nuts/ washers and standard cam
- Special cams are available upon request
- Non-locking thumb turn and 7mm square drives are available in sturdy die cast zinc alloy with either low gloss black and chrome finish. Operation is smooth with detent rotation in latched and unlatched positions. Other tool drives are available upon request.

## INSTALLATION:

- The product installs easily in a panel with supplied panel nut and vibration washer through a single mounting hole
- Panel thickness range up to 22mm (.866")
- Maximum mounting nut torque 30 N-m (22.1 lbs-ft)

U.S. Patent No. 8,746,022



AVAILABLE SIZES			
	DIM "A"	DIM "B"	DIM "C"
OPTION 1	65.0	23.0	70.5
OPTION 2	60.0	18.0	65.5
OPTION 3	75.0	33.0	80.5

All dimensions are for reference only. For more information visit [www.trimarkcorp.com](http://www.trimarkcorp.com)

# 080-0500 Grapple Style Compression Latch

This grapple style compression latch is designed for compartments, access panels and hoods for off-highway vehicle applications that are subject to high vibration loads. Offering 5mm of compression, the three robust opposing jaws work with a striker diameter of .375" (9.5mm), providing a high level of resistance to vibration, shock and wear.

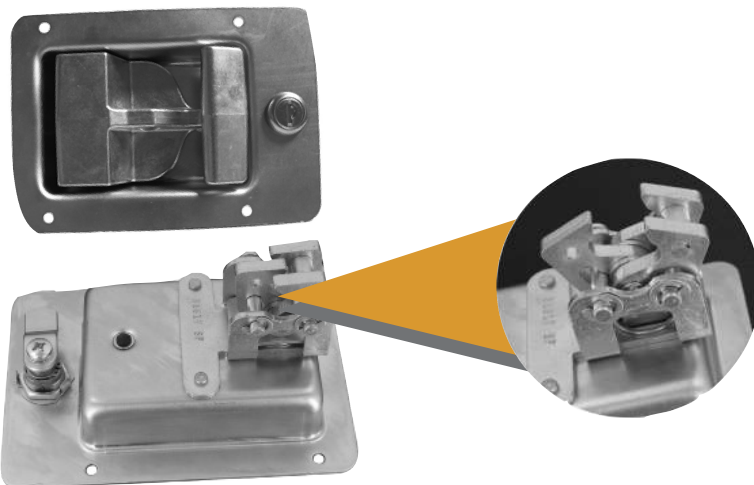
## FEATURES/BENEFITS:

- Its use in gasketed applications meets requirements for environmental sealing, noise and airflow management
- Sealed housing provides for minimal intrusion of dirt and water
- Easy to install, the product offers the same look and mounting pattern as the popular 030-0500/030-0550, offering customers a heavy duty product upgrade
- Intuitive open and close actuation does not require a turning operation
- Handle provides over-center action and remains up (flagged) when latch is open providing clear open/closed status

## AVAILABLE:

- Locking options include a standard padlock hasp with key locking provision to add a cam lock for increased security or keyed alike to common lock codes to match paddle actuators used for operator enclosures
- Non-locking

**All dimensions are for reference only. For more information visit [www.trimarkcorp.com](http://www.trimarkcorp.com)**



## MATERIAL:

- Handle: Sturdy die cast zinc
- Latch and housing: Steel reinforced construction

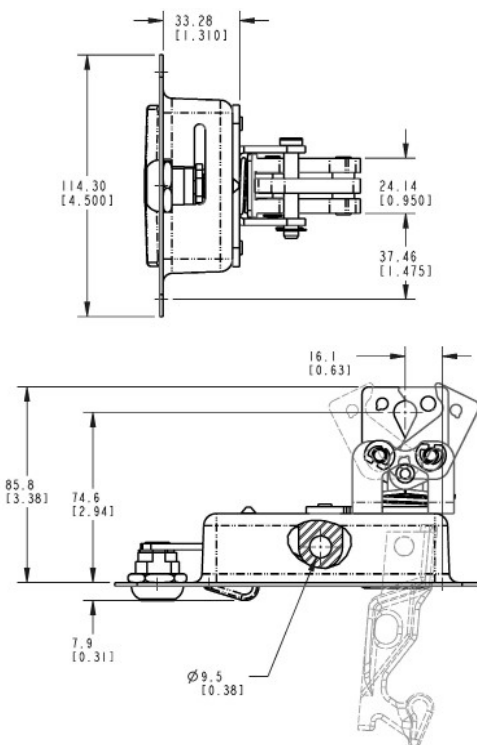
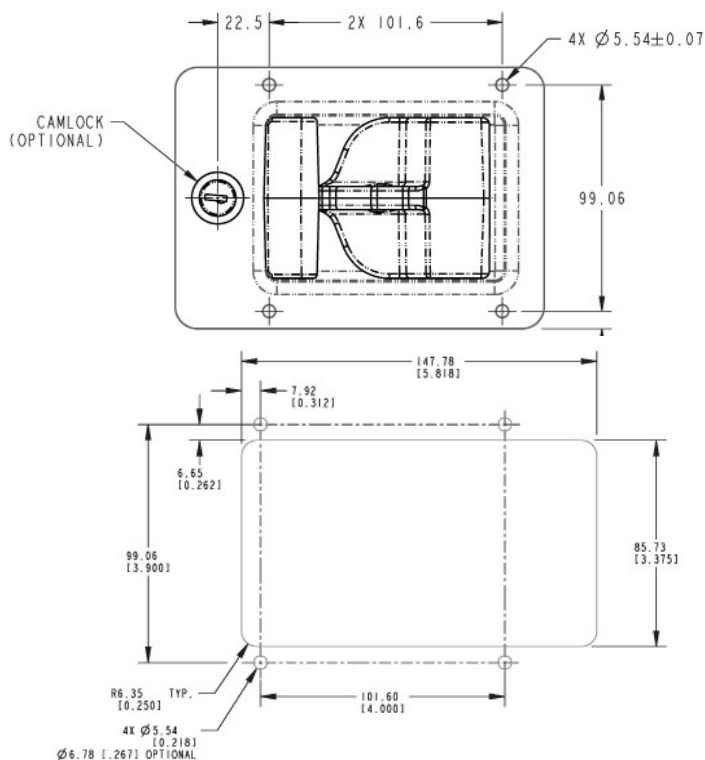
## FINISH:

- Zinc plate, clear chromate conversion coat for maximum paint adhesion and resistance to rust
- Black powder coated

## INSTALLATION:

- Lock cylinder may be installed after the latch has been assembled into the door and painted
- (4) 3/16" M4 diameter steel "pop" rivets, 1/4-20 or M6 x 1 screws (not included)

U.S. Patent No. 8,770,635



# 080-0700 Light Duty Compression Hook Latch

This cost effective, light duty lever operated compression hook latch provides a secure over-center action to keep panels rattle free and secure. Designed for applications where the latch and keeper are surface mounted on the same plane, folding the handle lever down pulls mating in-line panels tight.

## DESIGNED FOR:

- Light-duty off-highway panel and compartments where pull-in function and resistance to vibration loads are desired

## FEATURES/BENEFITS:

- Easy to operate (ergonomics), folding the handle lever down pulls mating in-line panels tight
- Adjustable hook (20mm range) can engage around a pin (6mm diameter) or into a hole (17mm diameter minimum) in the cover
- Provision to add a small padlock for added security (5mm diameter shackle)
- Universal design is non-handed



## MATERIAL:

- Mounting base/lever handle/housing, hook: Mild steel

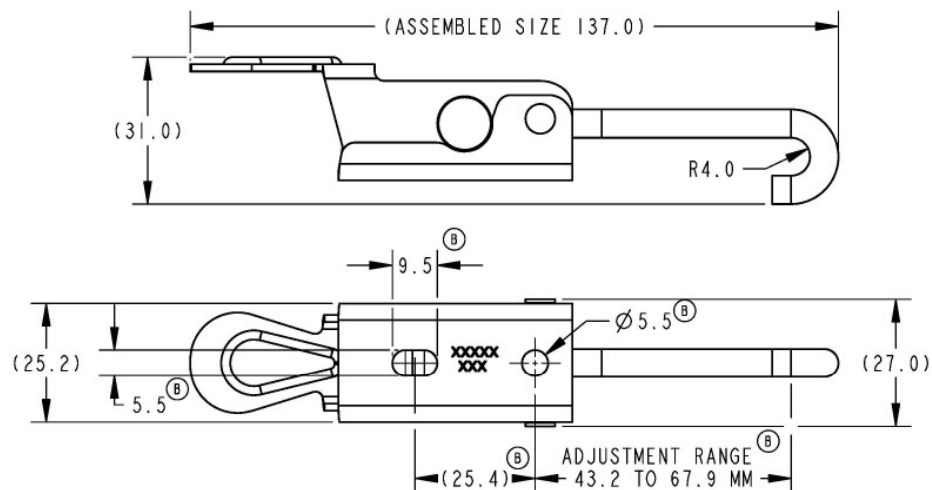
## FINISH:

- Zinc plate and clear chromate conversion coat

## INSTALLATION:

- Installs easily with (2) M5 #10 mounting fasteners (not included)

All dimensions are for reference only. For more information visit [www.trimarkcorp.com](http://www.trimarkcorp.com)





# 080-7100 Over Center Latch

Designed with no metallic parts for a direct replacement for steel where corrosion may not be acceptable. Locking pin can be replaced with a padlock (not supplied).

## FEATURES/BENEFITS:

- Ergonomic function and styling
- Quick release pin or padlock option
- Impact resistant
- Unique non-metallic design reduces weight and provides corrosion resistance over steel counterparts

## AVAILABLE:

- With or without keeper (please inquire)

## MATERIAL:

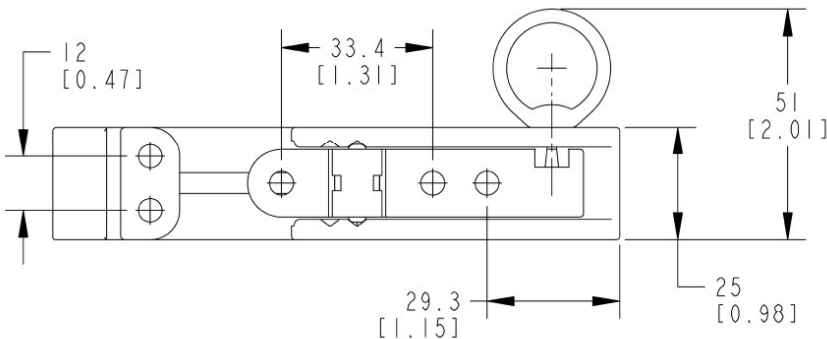
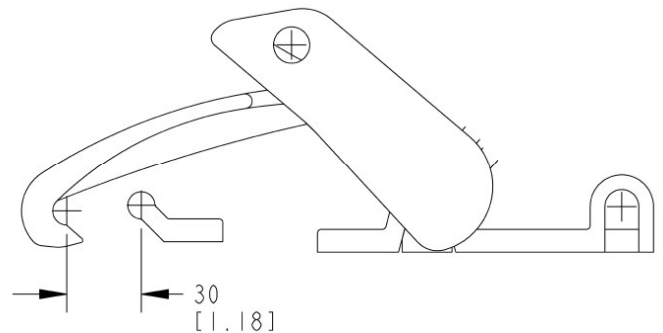
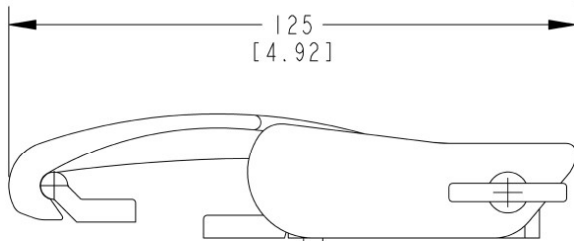
- UV stabilized black nylon

## INSTALLATION:

- Easy to install
- (3) M5 CSK screws for body (2) M5 CSK screws for keep (screws not supplied) or alternatively can be riveted



All dimensions are for reference only. For more information visit [www.trimarkcorp.com](http://www.trimarkcorp.com)



# 090-0520 Window Hold-Open

This easy to operate window hold-open is designed for top and side hinged venting windows for on and off-highway vehicles. It features an over center design that orientates the window at fully closed and fully open positions and an optional quick release pin.

- Mushroom window fixings designed for 5mm or 6mm glass thickness
- Non-handed style will work on windows in any orientation
- Easy to install with window fixings (optional)

**AVAILABLE:**

- With or without quick release pin (please inquire)

**INSTALLATION:**

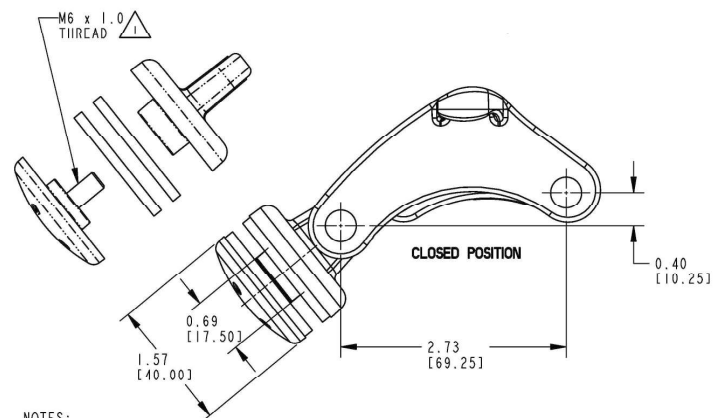
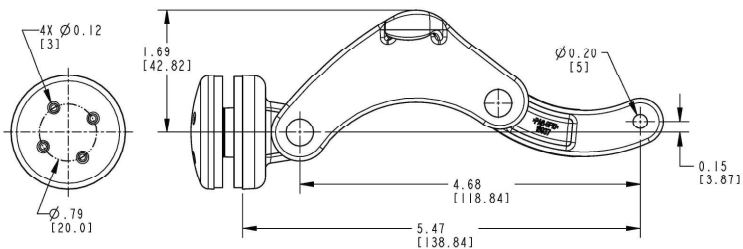
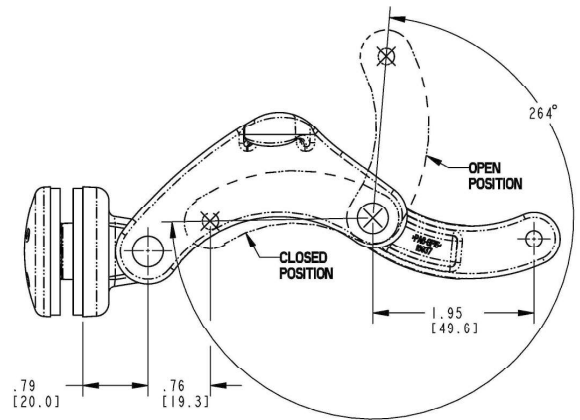
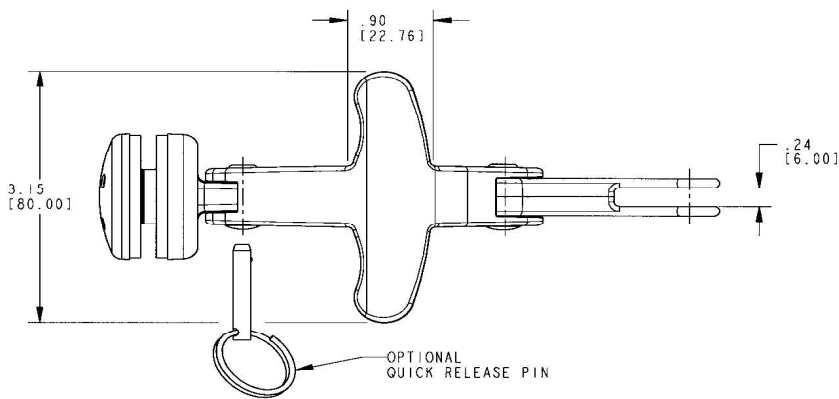
- Installs through 18mm diameter hole

**MATERIAL:**

- Glass reinforced nylon (black)



090-0520 Window Hold-Open



NOTES:  
 ▲ RECOMMENDED APPLICATION TORQUE TO BE 3.3-4.5 Nm.

# 090-7100 T-Style Over Center Window Stay

This easy to operate window hold-open is designed to fit comfortably in the hand for top and side hinged venting windows for on and off-highway vehicles. It features an over center design that orientates the window at fully closed and fully open positions and an optional quick release pin in bright red nylon or steel.

## FEATURES/BENEFITS:

- Mushroom window fixings designed for 5mm or 6mm glass thickness
- Non-handed style will work on windows in any orientation
- Easy to install with window fixings
- Ratchet (optional) allows for various opening positions

## AVAILABLE:

- With or without quick release pin (please inquire)
- With mounting gaskets



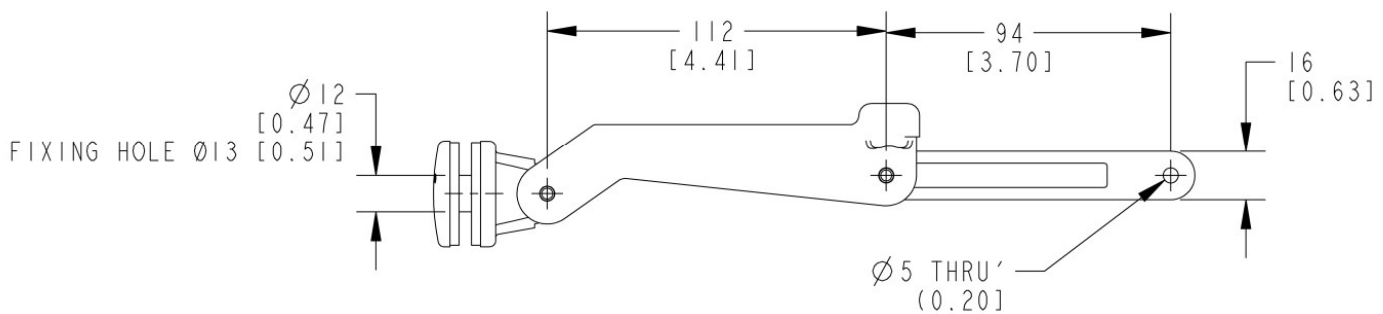
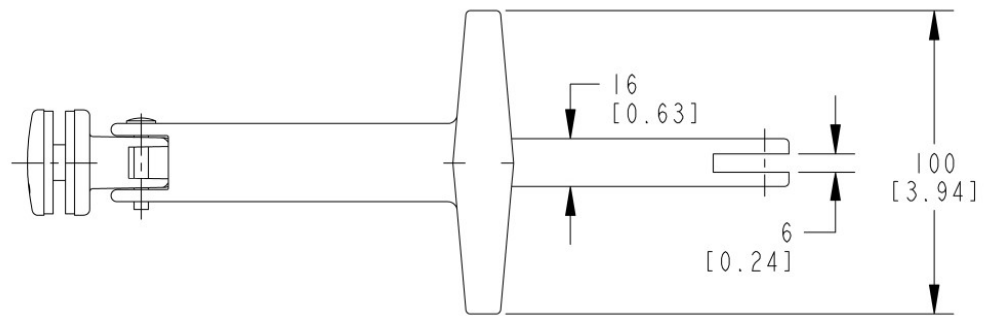
## MATERIAL:

- Glass reinforced nylon - black
- Brass threaded insert

## INSTALLATION:

- Installs through 13mm diameter hole
- Maximum opening of 220mm
- Mushroom fixing—not to exceed 6 N-m

All dimensions are for reference only. For more information visit [www.trimarkcorp.com](http://www.trimarkcorp.com)



# 090-7110 Compact T-Style Window Hold-Open

This easy to operate compact window hold-open is designed to fit comfortably using a two finger operation for top and side hinged venting windows for on and off-highway vehicles. It features an over center design that orientates the window at fully closed and fully open positions and an optional quick release pin in bright red nylon or steel.

## FEATURES/BENEFITS:

- Mushroom window fixings designed for 5mm or 6mm glass thickness
- Non-handed style will work on windows in any orientation
- Easy to install with window fixings (optional)
- Ratchet, allows for various opening positions

## AVAILABLE:

- With or without quick release pin (please inquire)
- With mounting gaskets

## MATERIAL:

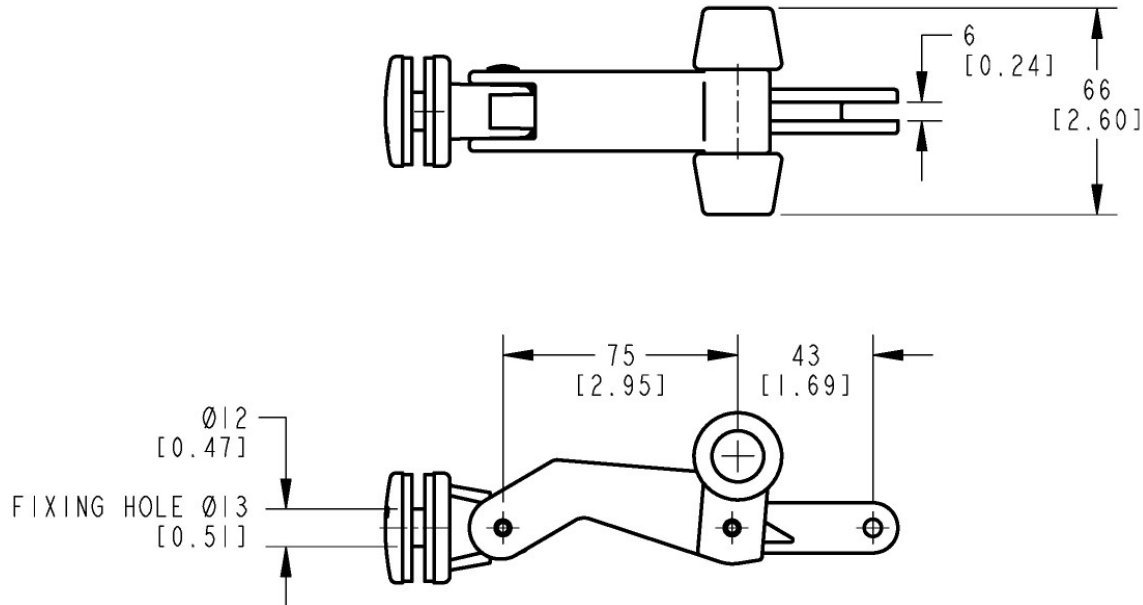
- Glass reinforced nylon
- Brass threaded insert

## INSTALLATION:

- Installs through 13mm diameter hole
- Maximum opening of 135mm
- Not to exceed 6 N-m



All dimensions are for reference only. For more information visit [www.trimarkcorp.com](http://www.trimarkcorp.com)



# 090-7200 L-Style Over Center Window Stay

This easy to operate window hold-open is designed to fit comfortably in the hand for top and side hinged venting windows for on and off-highway vehicles. It features an over center design that orientates the window at fully closed and fully open positions and an optional quick release pin in bright red nylon or steel.



## FEATURES/BENEFITS:

- Mushroom window fixings designed for 5mm or 6mm glass thickness
- Easy to install with window fixings (optional)
- Ratchet, allows for various opening positions

## AVAILABLE:

- With or without quick release pin (please inquire)
- With mounting gaskets

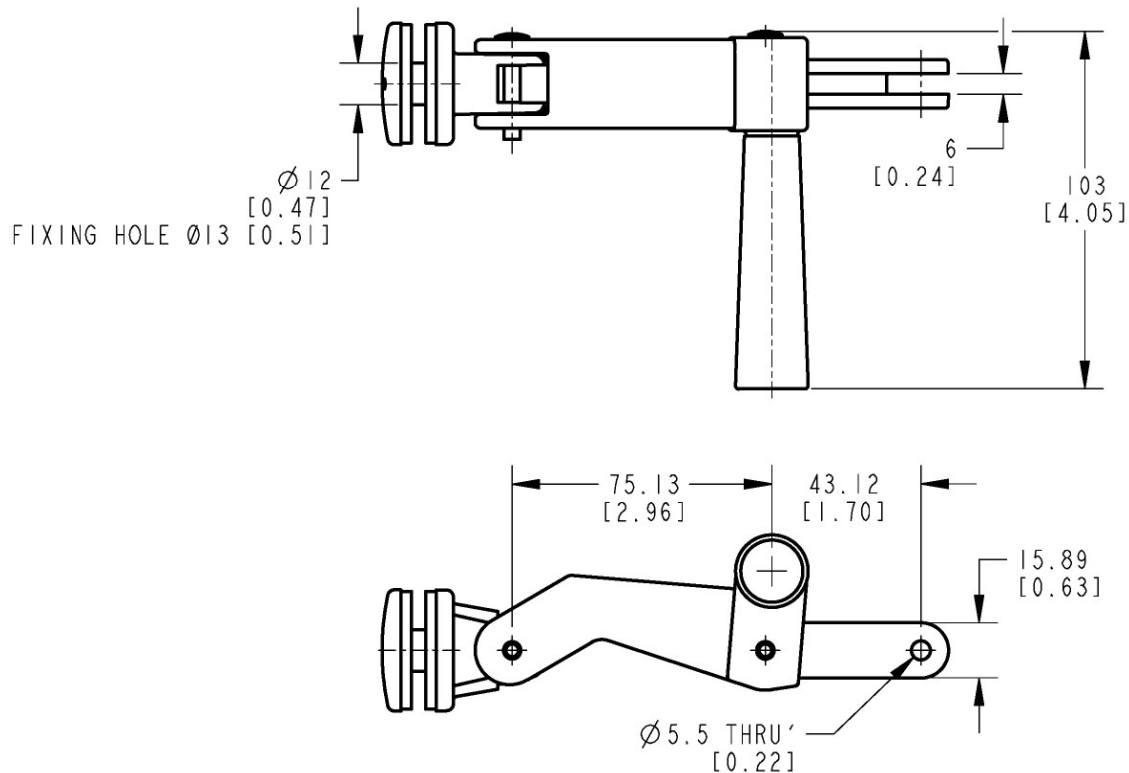
## MATERIAL:

- Glass reinforced nylon - black
- Brass threaded insert

## INSTALLATION:

- Installs through 13mm diameter hole
- Maximum opening of 135mm
- Mushroom fixing—not to exceed 6 N-m

All dimensions are for reference only. For more information visit [www.trimarkcorp.com](http://www.trimarkcorp.com)





# 130-0100 Dual Release Door Hold-Open

This product is designed for light to medium duty agricultural, construction personnel doors or any door that needs to be held in an open position. Any application where it is desirable to hold or retain a hinged door in an open position. The simple rotating knob design allows for the door to be released from the open position from either the inside of the cab or from the ground level.

## FEATURES/BENEFITS:

- Simple, easy to use, rotating knob/pin latch
- Engineered to withstand vibration, shock, dust, dirt and moisture
- Ergonomic knob design
- Two stage lead in helps align the striker and receiver to compensate for door sag
- Universal design
- Rotating knob(s) allows for the door to be released from the open position from either the inside of the cab or from the ground level
- Durability in tough applications
- Easy to install
- Easily adaptable to a wide variety of door/cab configurations
- Fills a niche between the low cost "friction type" hold-opens and top end rotary and bayonet style products presently available



## MATERIAL:

- Engineered plastic withstands corrosion and UV exposure and has a lower coefficient of friction, reducing closing and operation efforts
- Striker shroud is the thermoplastic rubber (TPR) to help absorb door shock loads

## INSTALLATION:

- Easy to install with special thread forming screws (included)
- Flange mounting and self adhesive gaskets (included) permits through glass mounting

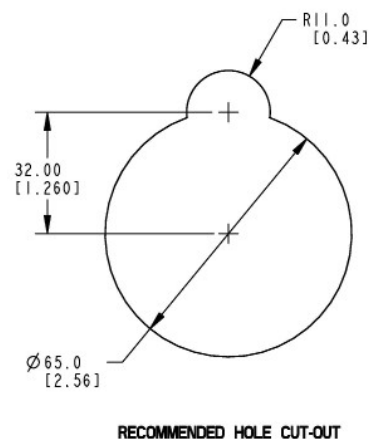
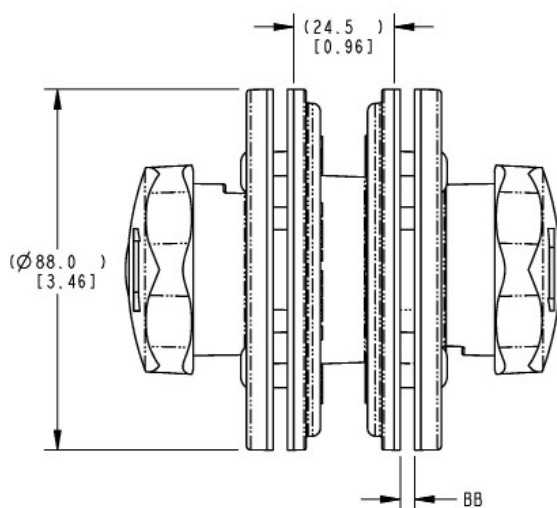
## AVAILABLE:

- With gasket options to adapt to a wide range of door/cab thickness 3mm-6mm (.118-.236")

## U.S. Patent No. 6,357,078

**Caution:** Door hold-open is not designed to secure a door in the closed position and does not comply with FMVSS 206 (ECE R11).

**All dimensions are for reference only. For more information visit [www.trimarkcorp.com](http://www.trimarkcorp.com)**



Latches:

Pin Type  
62

# 130-7200 Door Hold-Open

This door hold-open is designed for light to medium duty agricultural, construction or other equipment personnel doors that need to be held in an open position. Any application where it is desirable to hold or retain a hinged door in an open position.

## FEATURES/BENEFITS:

- Simple, easy to use
- Rotating knob/pin latch
- Engineered to withstand vibration, shock, dust, dirt and moisture
- Ergonomic knob design
- Rotating knob allows for the door to be released from the open position from the ground level
- Durability in tough applications
- Easily adaptable to a wide variety of door/cab configurations

## AVAILABLE:

- Single release pin latch or remote release version

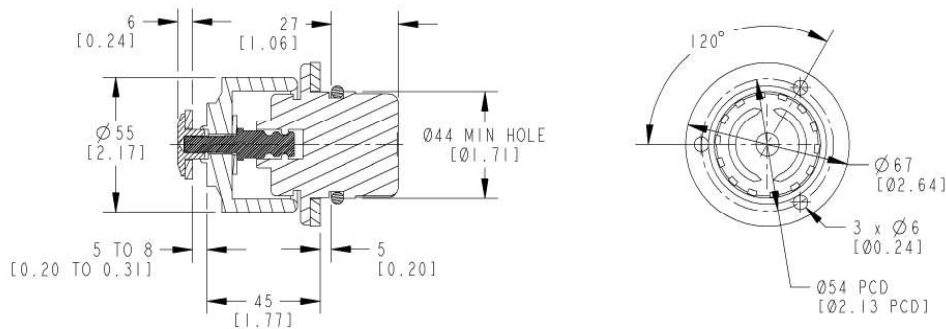
## MATERIAL/FINISH:

- Glass reinforced nylon - black
- Chromed steel latching pin
- Internal components: Zinc plated steel

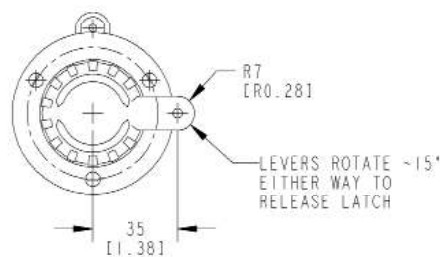
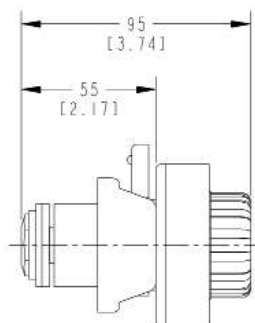
## INSTALLATION:

- Easy to install, can be mounted on glass or steel doors
- (1) Shouldered hat nut and large rubber O-ring (included)
- Recommended mounting fastener torque on strike sub-assembly to be 6.7 to 7.9 N-m (59 to 70 in. lbs.)

**Caution:** Door hold-open is not designed to secure a door in the closed position and does not comply with FMVSS 206 (ECE R11).



All dimensions are for reference only. For more information visit [www.trimarkcorp.com](http://www.trimarkcorp.com)



# 030-0100 Single Rotor Compartment Latch

Designed for most medium to heavy-duty storage and compartment doors, this product features an integrated rotary latch for ease of installation and use.

- On or off-highway vehicle applications - construction, mining, agricultural
- Service and utility truck body doors
- Fire and rescue unit vehicles
- Most storage, compartment and access doors with latch and strike location at top or sides of door
- Door weights of approximately 75 lbs. (34 kg) or less
- Use with TriMark 070-0100 Striker Bolt

## AVAILABLE:

- Keyed alike
- Keyed random
- Padlockable

## MATERIAL:

- Housing and paddle: Die cast zinc alloy
- Other components: Zinc plated, mild steel
- Internal latch components: Case hardened, smooth edge stamped steel

All dimensions are for reference only. For more information visit [www.trimarkcorp.com](http://www.trimarkcorp.com)



## FINISH:

- Clear chromate, ready to paint
- Buffed copper-nickel-chrome plated
- Buffed duplex nickel

## INTERNAL LUBRICATION:

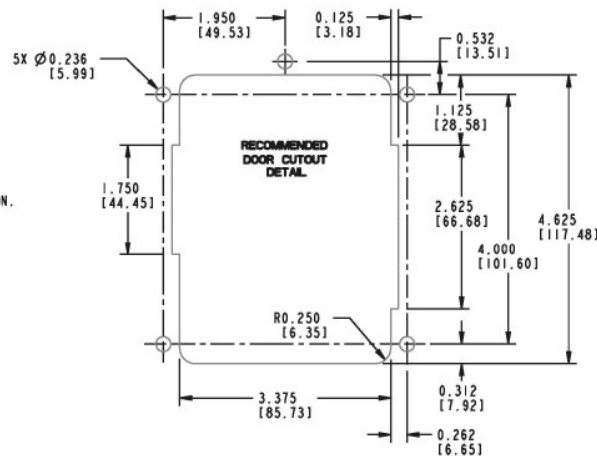
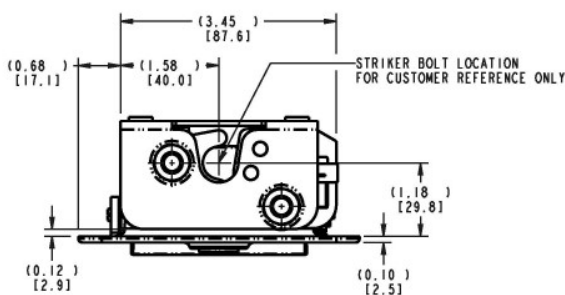
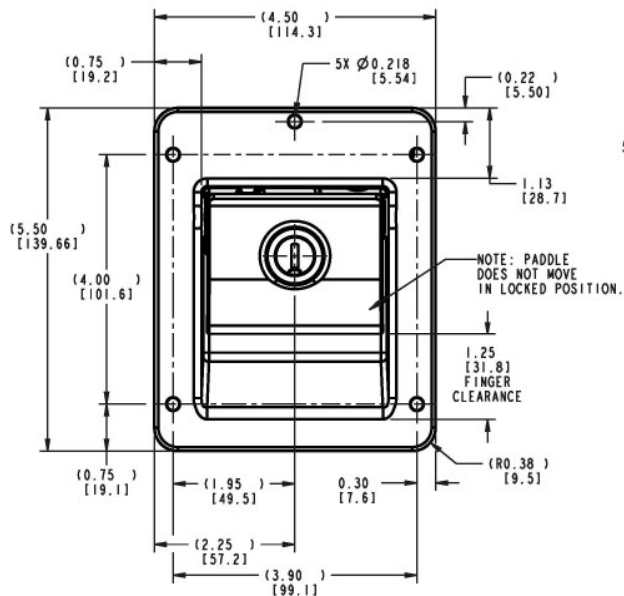
- Oven-cured dry lubricant is applied on all critical moving parts

## INSTALLATION:

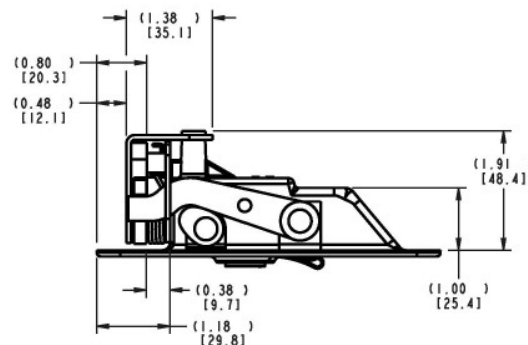
- 3/16" (4mm) diameter fasteners

## APPLICATION RECOMMENDATIONS:

- Striker bolt installation should allow for a minimum radial movement of .060" (1.524mm) for adjustment
- Rubber bumpers or door seals are recommended to reduce effects of vibration stress on door and latch system



Caution: Latch does not meet FMVSS 206 (ECE R11) load requirements.



# 030-0200 / 030-0250 Paddle Handle

This flush paddle was designed for heavy-duty off-highway vehicle entrance doors and features robust construction and pivot plate versatility.

- Off-highway vehicle applications - construction, mining, agricultural, forestry
- Doors requiring latch location remote from activating handle
- Door thickness of 2.00" (50.8mm) or greater

## AVAILABLE:

- In right or left hand configurations (left hand shown)
- In locking or non-locking configurations
- Optional pivot plates (please inquire)

## MATERIAL:

- Housing and paddle: Die cast zinc alloy
- Pivot components: Zinc plated, mild steel

## FINISH:

- Housing and paddle: Black powder coated
- Copper-nickel-chrome plated

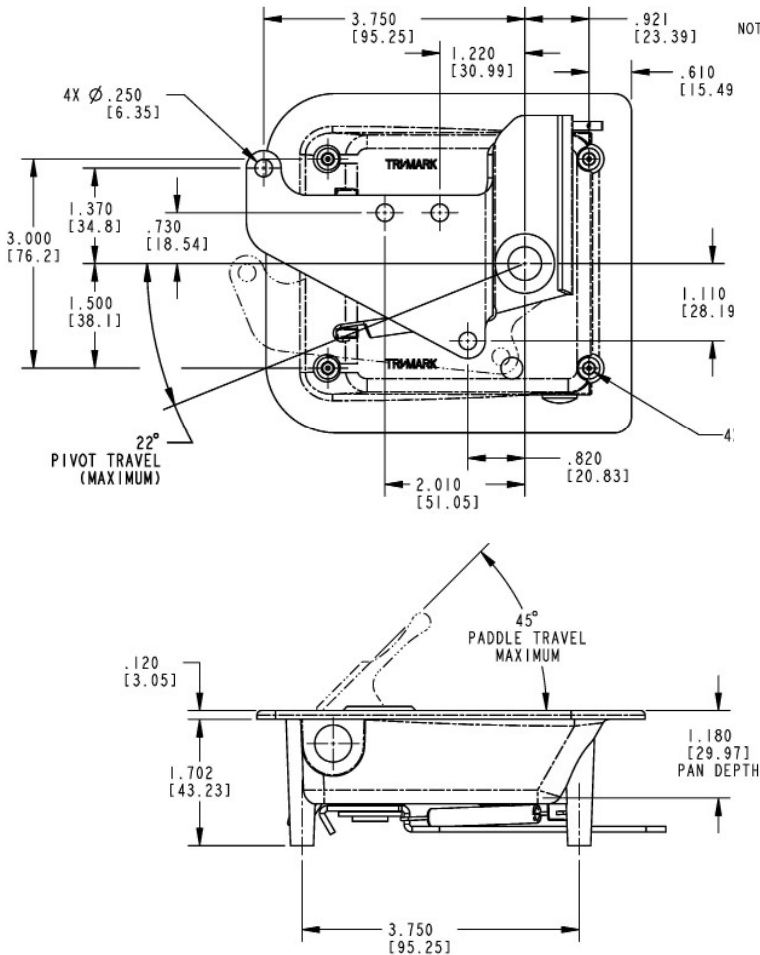


## INSTALLATION:

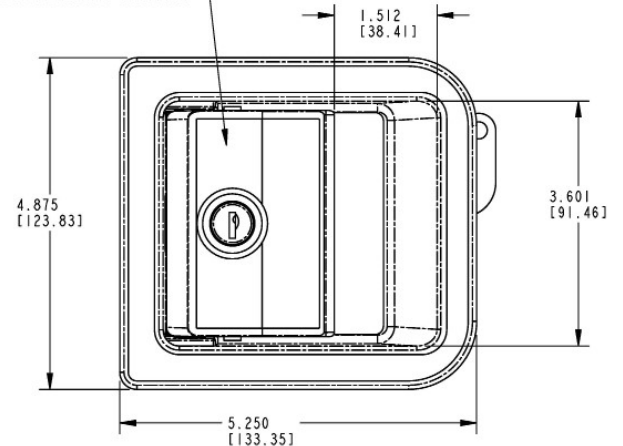
- (4) 10-24 UNC or M5 x .8 mounting screws (not included)

**NOTE:** Mounting bosses are tapped 3/8" deep

**Caution:** Product does not meet the locking requirements of FMVSS 206 (ECE R11).



NOTE: PADDLE IS RIGID IN LOCKED POSITION



030-0250 Paddle Handle With Inside Release Lever

All dimensions are for reference only. For more information visit [www.trimarkcorp.com](http://www.trimarkcorp.com)

Handles:  
Paddle  
65

# 030-0800 Flush Mounted Paddle Handle

This flush paddle was designed for medium to heavy-duty on-highway vehicle entrance doors and features robust construction and pivot plate versatility.

- Off-highway applications--construction, mining, forestry and agricultural
- On-highway--emergency vehicles not requiring FMVSS 206 standards

## FEATURES/BENEFITS:

- Mounts in doors requiring latch location remote from activating handle
- Can be used with both cutouts shown in drawing

## AVAILABLE:

- In right or left hand configurations (left hand shown)
- Non-locking or locking--keyed alike with shuttered keyway
- Optional pivot plates (please inquire)

## INSTALLATION:

- Easily installed with (2) 1/4-20 UNC mounting



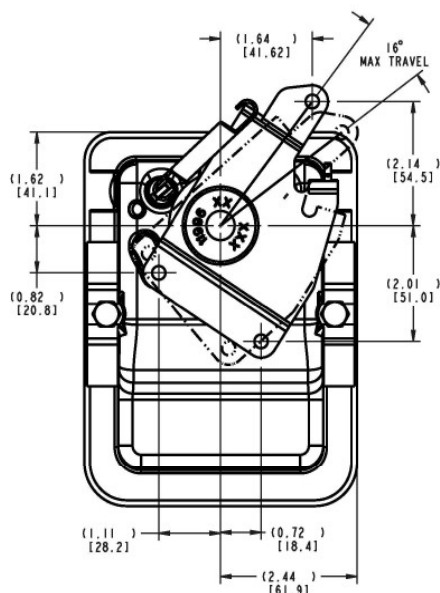
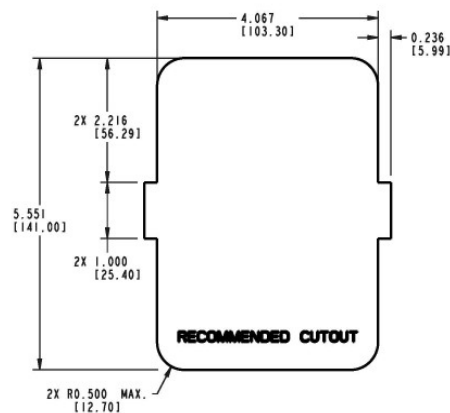
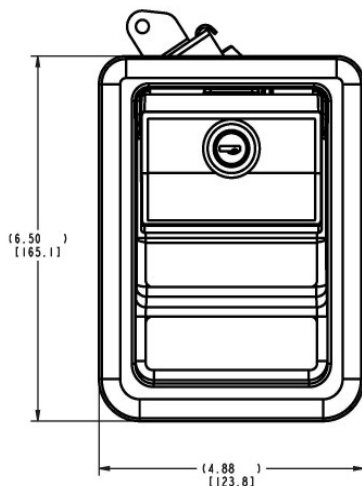
## MATERIAL:

- Housing and paddle: Sturdy die cast zinc alloy
- Pivot components: Zinc plated, mild steel
- Bushing for paddle axle and thrust washers for pivot plate: Nylon 6/6

## FINISH:

- Housing and paddle can be finished in your choice of black powder coat or buffed copper-nickel-chrome

**Caution:** Product does not meet the locking requirements of FMVSS 206 (ECE R11).



All dimensions are for reference only. For more information visit [www.trimarkcorp.com](http://www.trimarkcorp.com)

Handles:

Paddle  
66



# 030-0850 Flush Mounted Paddle Handle

This flush paddle was designed for medium to heavy-duty on-highway vehicle entrance doors and features robust construction, a lock detail that allows for power locking and is compliant to FMVSS 206 (ECE R11). It incorporates the basic materials and concept used in the 030-0800 Flush Mounted Paddle Handle.

## FEATURES/BENEFITS:

- Inside lock provides override if outside paddle should be locked
- Paddle is rigid when locked
- Inside lock provides for multiple connection points for use of inside lock and/or powerlock actuation
- Adaptable to power lock actuation

## INSTALLATION:

- Either handed version can be installed in a wide range of locations in door - either horizontal or vertical orientation (left hand shown)

## MATERIAL:

- Housing and paddle: Zinc die cast alloy
- Pivot components: Zinc plated, mild steel
- Bushing for paddle axle and thrust washers for pivot plate: Nylon 6/6

All dimensions are for reference only. For more information visit [www.trimarkcorp.com](http://www.trimarkcorp.com)



## FINISH:

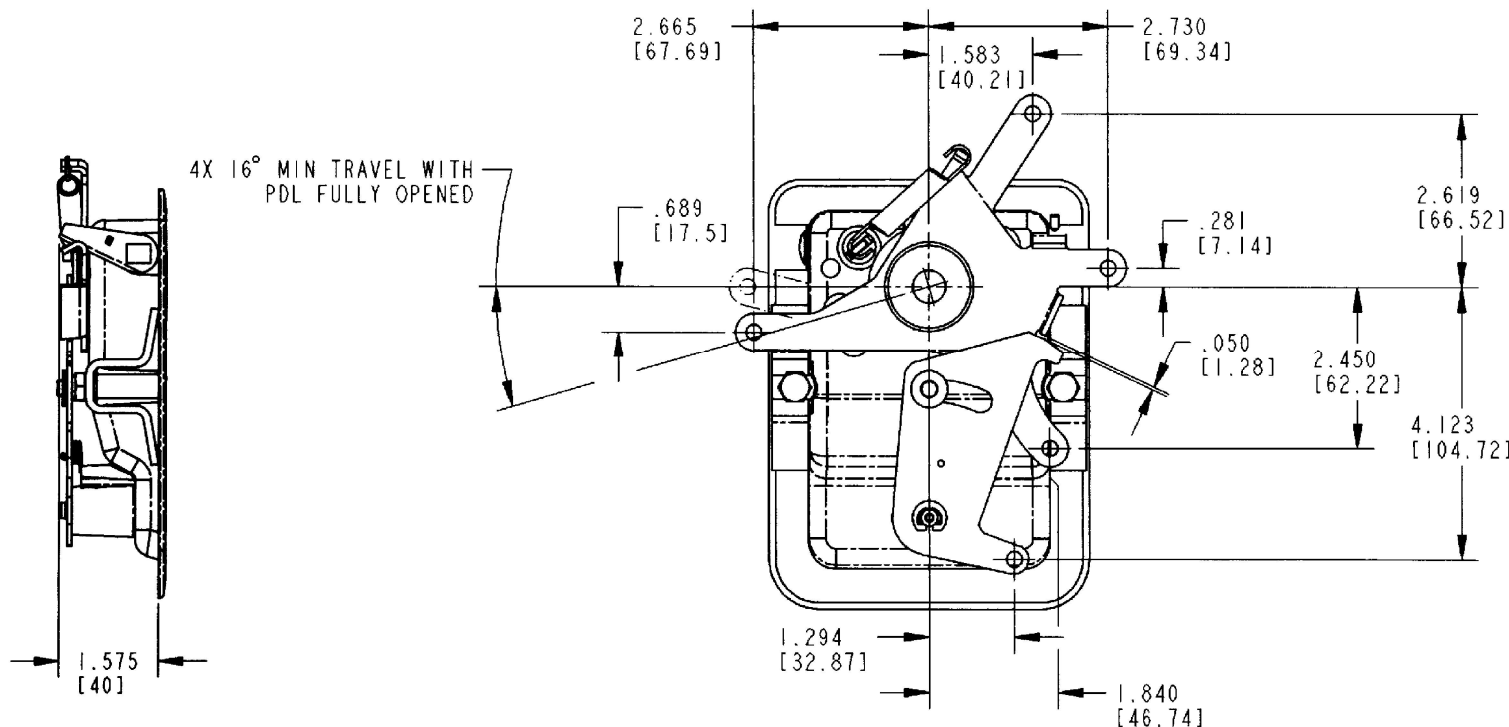
- Black powder coated
- Copper-nickel-nickel-chrome plated
- Combination black powder coated housing and chrome paddle

## AVAILABLE:

- Optional gasket for flange of housing is available to provide resistance to water and dirt infiltration
- Keyed random. TM201-TM250
- Keyed alike
- KeyOne™ Plus
- Optional pivot plates (please inquire)



Note that the 030-0850 Flush Mounted Paddle Handle complies with FMVSS 206 (ECE R11) when tested in accordance with SAE J839 and that this product meets FMVSS 206 (ECE R11) locking requirements and may be used in FMVSS 206 (ECE R11) applications pending TriMark application approval. Please refer to page 158 for the complete FMVSS 206 (ECE R11) statement.



Handles:  
Paddle  
67

# 030-0860 Flush Mounted Paddle Handle With Inside Lock Knob

This flush paddle was designed for medium to heavy-duty, on-highway vehicle entrance doors and features robust construction, an inside lock knob for use as an inside release and is compliant to FMVSS 206 (ECE R11). The 030-0860 Flush Mounted Paddle Handle With Inside Lock Knob incorporates the basic material and concepts used in the 030-0800 Flush Mounted Paddle Handle.

- Inside lock provides override if outside paddle should be locked
- Paddle is rigid when locked

## MATERIAL:

- Housing and paddle: Die cast zinc alloy
- Pivot components: Zinc plated, mild steel
- Bushing for paddle axle and thrust washers for pivot plate: Nylon 6/6

## FINISH:

- Black powder coated
- Chrome plated

## AVAILABLE:

- Optional pivot plates (please inquire)

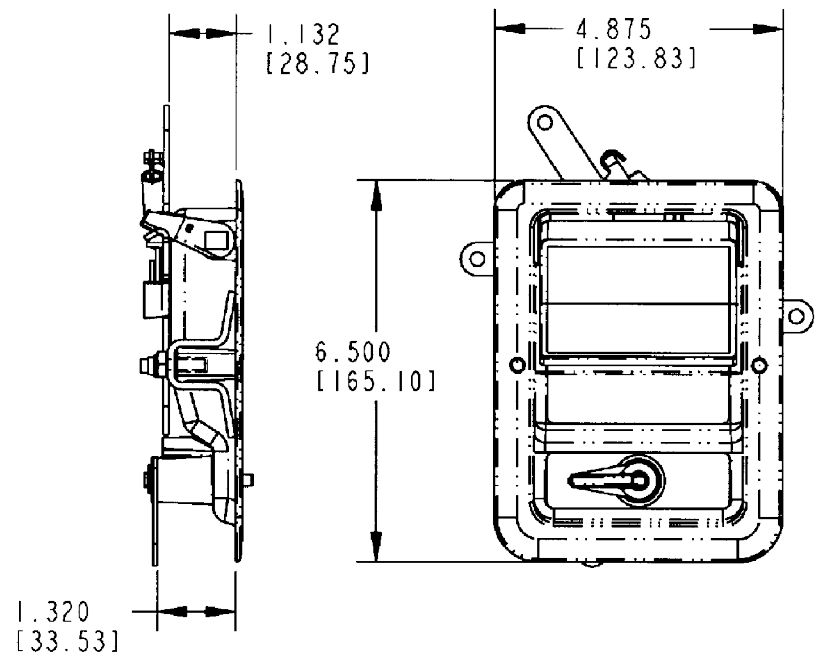
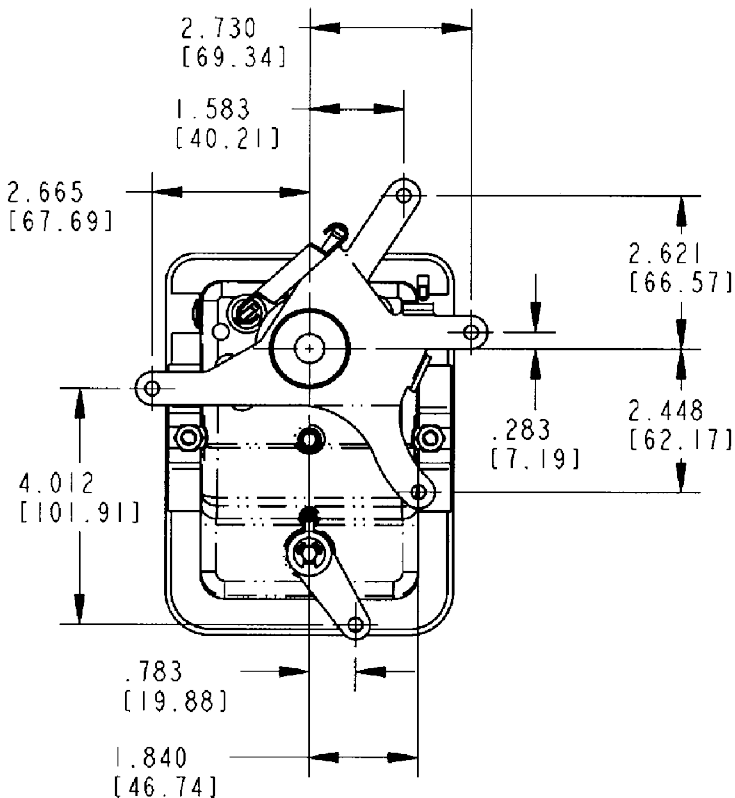


## INSTALLATION:

- Either handed version can be installed in a wide range of locations in door—either horizontal or vertical orientation (left hand shown)

Note that this 030-0860 Flush Mounted Paddle Handle With Inside Lock Knob complies with FMVSS 206 (ECE R11) when tested in accordance with SAE J839 and that this product meets FMVSS 206 (ECE R11) locking requirements and may be used in FMVSS 206 (ECE R11) applications pending TriMark application approval. Please refer to page 158 for the complete FMVSS 206 (ECE R11) statement.

**All dimensions are for reference only. For more information visit [www.trimarkcorp.com](http://www.trimarkcorp.com)**



Handles:

Paddle  
68

# 030-0875 Free-Float Flush Mounted Paddle Handle

This flush mounted paddle handle is a redesign of our popular 030-0850 Flush Mounted Paddle Handle. Featuring a free-float paddle in the locked position, this robust product allows for power locking and is compliant to FMVSS 206 (ECE R11).



- Medium to heavy-duty on-highway vehicle entrance doors where free-float locking is preferred
- Door weights of 23-455 kg (50-1000 lbs.)

## FEATURES/BENEFITS:

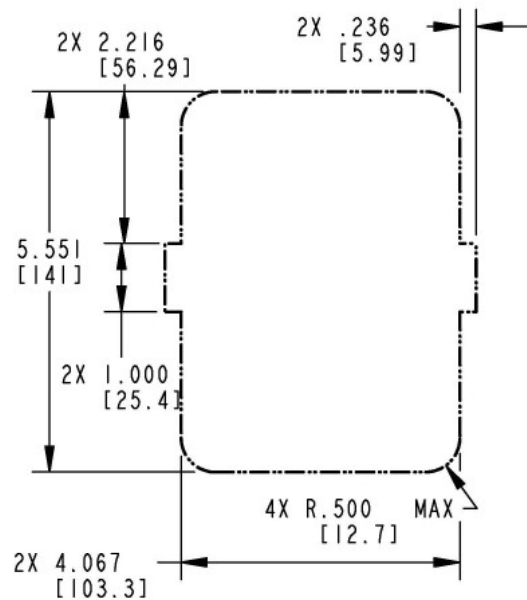
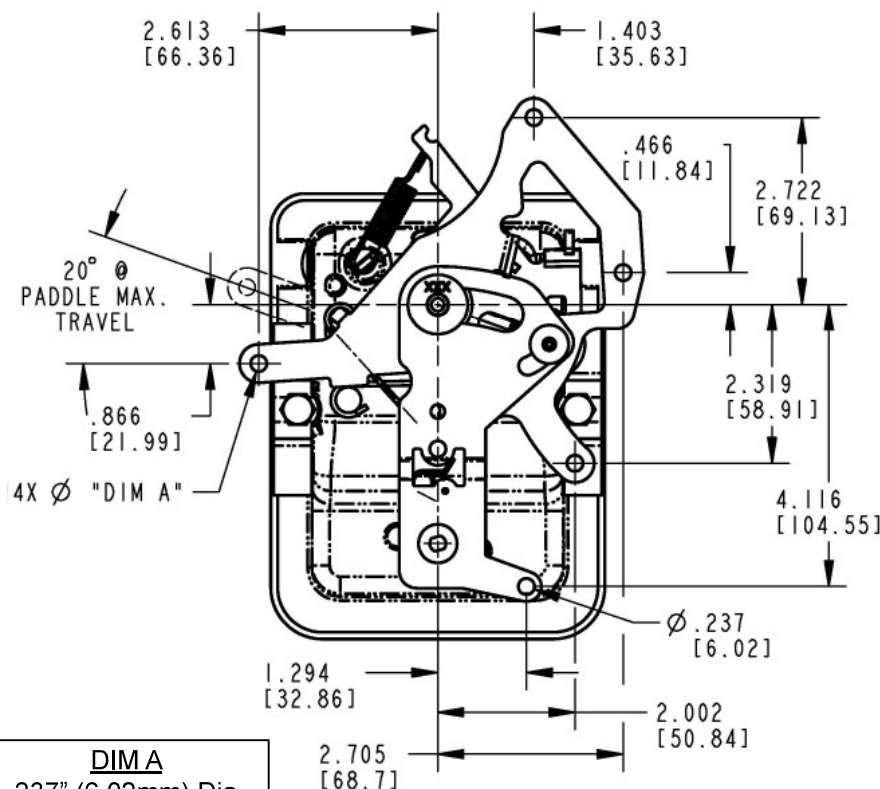
- Provides for multiple connection points for use on inside lock and/or power lock actuation
- Inside lock provides override if paddle should be locked
- Handle can be keyed to match other TriMark door products with KeyOne™ Plus for a single-key system or provided non-locking



## AVAILABLE:

- Optional gasket for flange of housing is available to provide resistance to water and dirt infiltration
- Lock can be keyed to match other TriMark door products with KeyOne™ Plus for a single-key system, keyed alike or provided non-locking
- Optional pivot plates (please inquire)

All dimensions are for reference only. For more information visit [www.trimarkcorp.com](http://www.trimarkcorp.com)



RECOMMENDED CUTOUT FOR INSTALLATION

**DIMA**  
 .237" (6.02mm) Dia.  
 .265" (6.73mm) Dia.

# 030-0875 continued

## INSTALLATION:

- Either hand version can be installed in a wide range of locations in door -- either horizontal or vertical orientation (left hand shown)
- Installs into current 030-0850 cut-outs

## MATERIAL:

- Paddle and housing: Sturdy die cast zinc alloy
- Pivot components: Zinc plated, mild steel
- Bushing for paddle axle and thrust washer for pivot plate: Nylon 6/6

## FINISH:

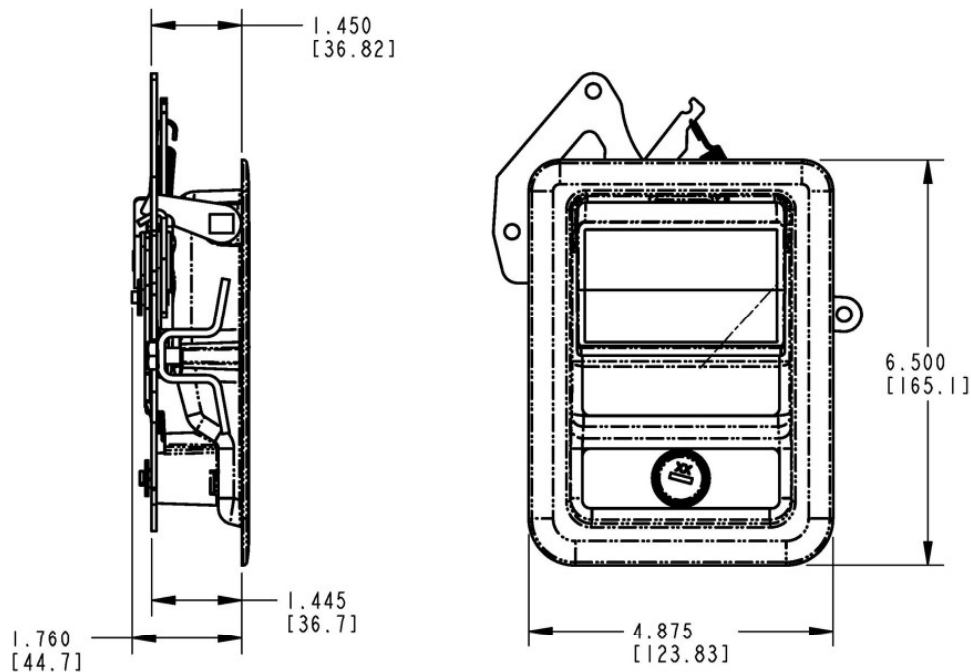
- Available in a variety of finishes including black powder coated, high quality buffed chrome or a combination of black/chrome finish

U.S. Patent No. 8,579,337

**NOTE:** Meets FMVSS 206 (ECE R11) load requirements and may be used in FMVSS 206 (ECE R11) applications pending approval.

Note that this 030-0875 Free-Float Flush Mounted Paddle Handle complies with FMVSS 206 (ECE R11) when tested in accordance with SAE J839 and that this product meets FMVSS 206 (ECE R11) locking requirements and may be used in FMVSS 206 (ECE R11) applications pending TriMark application approval. Please refer to page 158 for the complete FMVSS 206 (ECE R11) statement.

All dimensions are for reference only. For more information visit [www.trimarkcorp.com](http://www.trimarkcorp.com)



Handles:

Paddle  
70

# 030-0900 Motor Home Entrance Door Hardware With Deadbolt

Designed for motor home entrance doors, this product provides easy installation with through sandwich mounting. It features a large exterior paddle and an ergonomic "L" inside release and is adaptable for power locking.



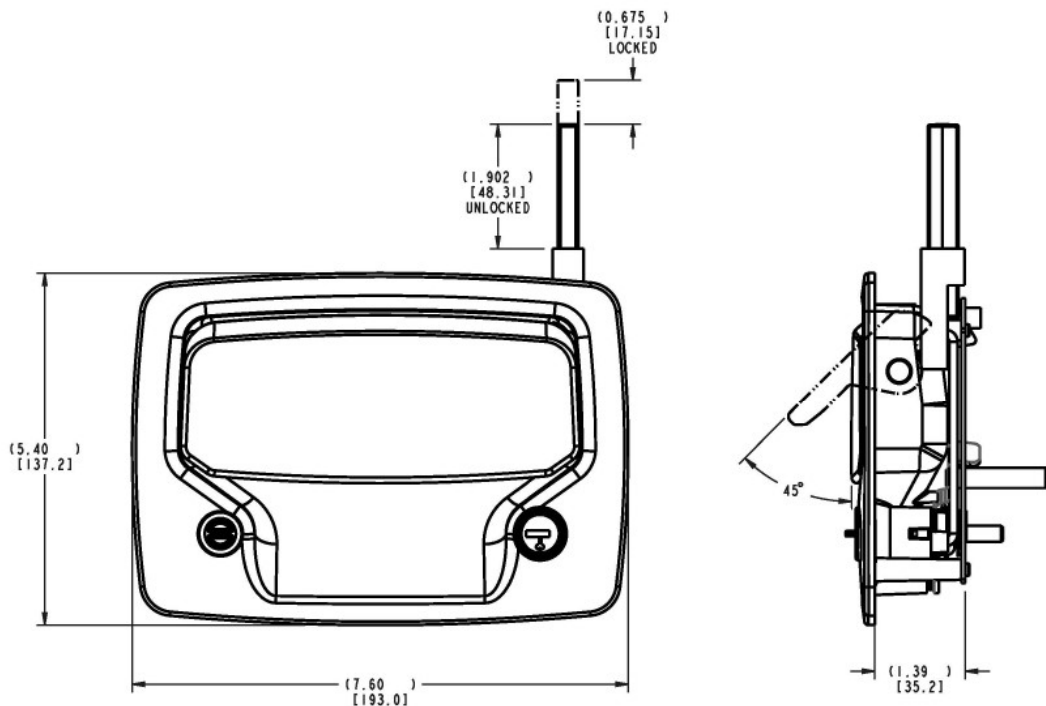
- Motor home entrance doors with thickness of 1-1/2" (38.1mm) or 1-15/16" (49.2mm)
- Applications requiring resistance to water and dirt infiltration
- Door seal pressures of 25 lbs. (11 kg) or less for ease of function and maximum life (not to exceed 50 lbs. (23 kg))
- Right hand applications
- Door weights up to 75 lbs. (34 kg)

## FEATURES/BENEFITS:

- Automotive style latch mechanism
- Smooth opening/closing action
- Paddle can be locked before door is shut
- Paddle is rigid when locked
- Comfortable finger access
- New inside handle design facilitates ergonomic function and modern styling
- Adaptable for power door lock actuator
- Built-in deadbolt eliminates the need for an add-on residential type deadbolt
- Deadbolt locks into the fully extended position for true dead bolt functioning

## AVAILABLE:

- Master keyed passage lock key cylinder
- Non-master keyed deadbolt
- Gasket (not included)
- Lock can be keyed to match other TriMark door products with KeyOne™ Plus for a single-key system, keyed alike or provided non-locking
- Standard or extended length deadbolt
- Sandwich mounting is available for door thicknesses of 1.500" (38.1mm), 1.614" (41.0mm) or 1.875" (47.6mm)



All dimensions are for reference only. For more information visit [www.trimarkcorp.com](http://www.trimarkcorp.com)



# 030-0900 continued

## FINISH:

- Black powder coated
- Chrome plated
- Interior release: Black powder coat or white

## MATERIAL:

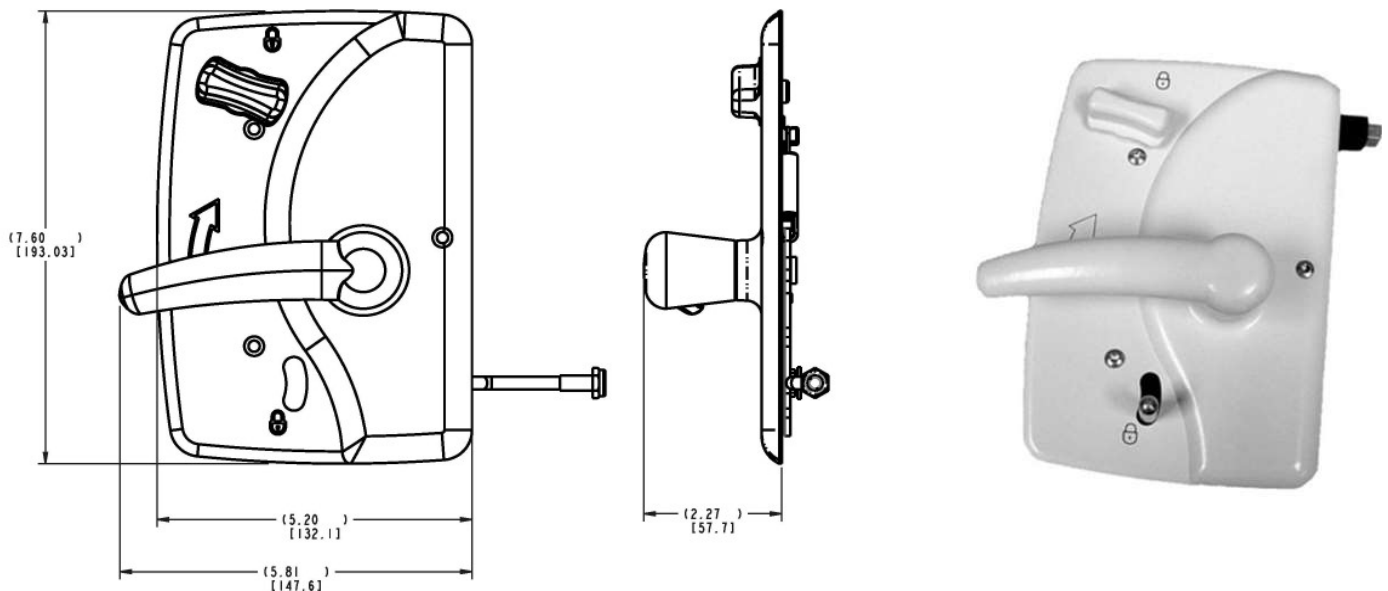
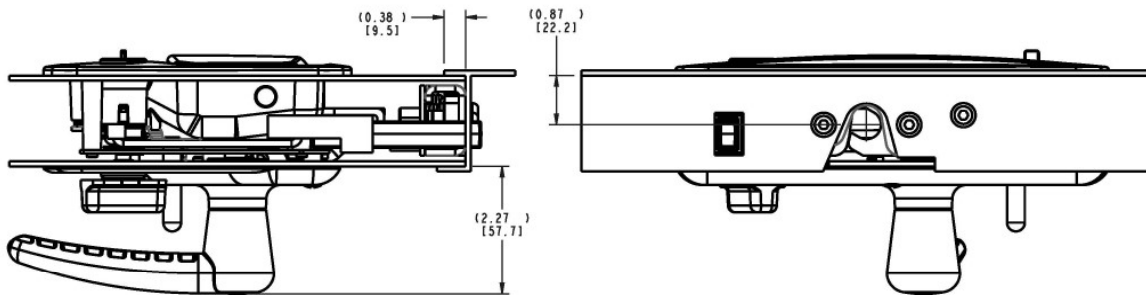
- Housing, inside plates, paddles, and certain lock actuating components: Die cast zinc alloy
- Internal latch components: Heat treated, smooth edge stamped steel
- Springs: Non-corrosive stainless steel
- Case halves: High strength steel

## INSTALLATION:

- #8-32 UNC mounting screws (please inquire)  
Recommended torque 13 in-lbs (1.4 N-m)
- Sandwich mount installation does not require any linkage rods

U.S. Design Patent No. D529,367

Note that this 030-0900 Motor Home Entrance Door Hardware With Deadbolt complies with FMVSS 206 (ECE R11) when tested in accordance with SAE J839 and that this product meets FMVSS 206 (ECE R11) locking requirements and may be used in FMVSS 206 (ECE R11) applications pending TriMark application approval. Please refer to page 158 for the complete FMVSS 206 (ECE R11) statement.



All dimensions are for reference only. For more information visit [www.trimarkcorp.com](http://www.trimarkcorp.com)

# 030-1100 Two Point Paddle Handle

This compartment latch was designed for light to medium duty storage and compartment doors. This non-handed product features a two point bellcrank for remote actuation.

- Cross bed tool boxes
- Truck topper and lift gate doors
- Most storage, compartment, and access doors with single or two point latch mechanism

## FEATURES/BENEFITS:

- Water resistant
- Sleek automotive styling
- Paddle is rigid when locked
- Single point or two point actuation
- Flush mount -- contoured surface
- Corrosion resistant
- Non-handed design

## AVAILABLE:

- Non-locking or locking with shuttered keyway
- Two point actuation
- Keyed alike
- Keyed random. 50 key codes -- TM901 - TM950
- With rod collars

## FINISH:

- Black powder coated



## MATERIAL:

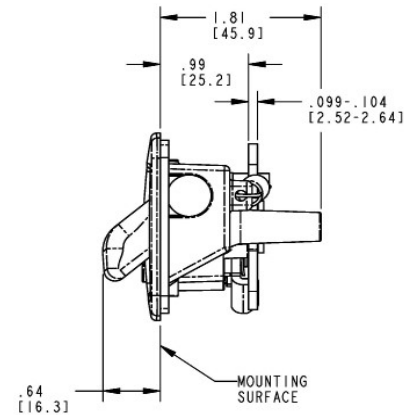
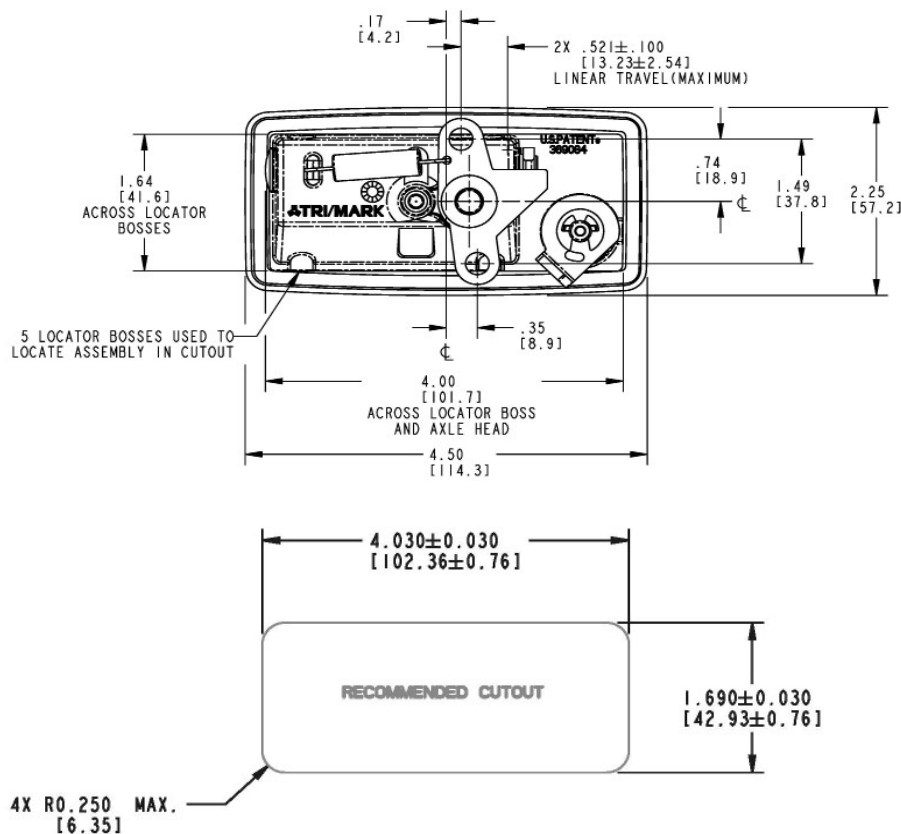
- Housing and paddle: Die cast zinc alloy
- All steel parts (axles, pivot arm, pivot plate, lock cam): Zinc plate clear chromate for corrosion resistance

## INSTALLATION:

- Supplied with gasket already applied under recess in housing flange for simple, clean installation
- Single point #10-24 UNC mounting fastener
- Optional mounting brackets (please inquire)

**NOTE:** Rod collars are not intended or recommended for use in applications that require FMVSS 206 (ECE R11) compliance or applications that have heavy or extreme Striker Bolt Loads (> 25 lbs. / 11 kg.) and/or high to extreme usage (> 100,000 door cycles/life).

**Caution:** Product does not meet the locking requirements for FMVSS 206 (ECE R11).



030-1125 Paddle Handle With Hook

All dimensions are for reference only. For more information visit [www.trimarkcorp.com](http://www.trimarkcorp.com)

Handles:  
Paddle  
73

# 030-1200 Round Paddle Handle

The 030-1200 Round Paddle Handle was designed for use on personnel and compartment doors for light to medium duty for on or off-highway applications. This ergonomic handle offers compact size for a cost effective price and brings a modern look and function to your cabs and enclosures.

- Light to medium duty agricultural and construction personnel and compartment doors
- Any baggage or compartment door
- Use in a direct latch release application or used in conjunction with a bellcrank for single point remote actuation

## FEATURES/BENEFITS:

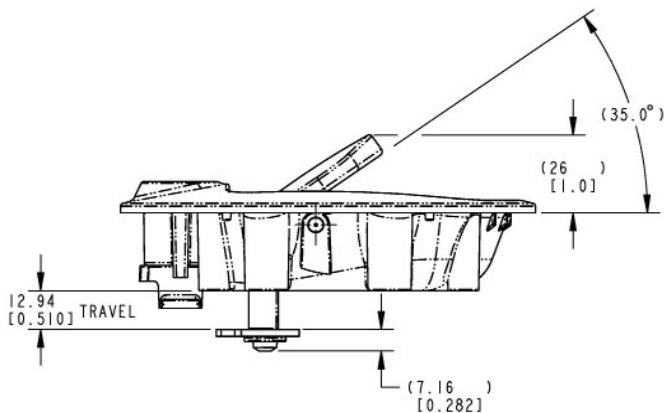
- Ergonomic function and styling
- Interior or exterior applications
- Rigid handle when locked
- Lock can be keyed to match other TriMark door products with KeyOne™ Plus for a single-key system, keyed alike or provided non-locking
- Non-handed configuration allows for universal applications



## AVAILABLE:

- With a conventional paddle or open bail style handle for maximum leverage
- Can be keyed alike with most single and reversible key systems
- In locking or non-locking configurations
- With gasket for maximum water resistance
- With standard mounting bracket

All dimensions are for reference only. For more information visit [www.trimarkcorp.com](http://www.trimarkcorp.com)



## MATERIAL:

- Handle, paddle and actuator: engineered plastic withstands corrosion and UV exposure
- Spring: non-corrosive stainless steel

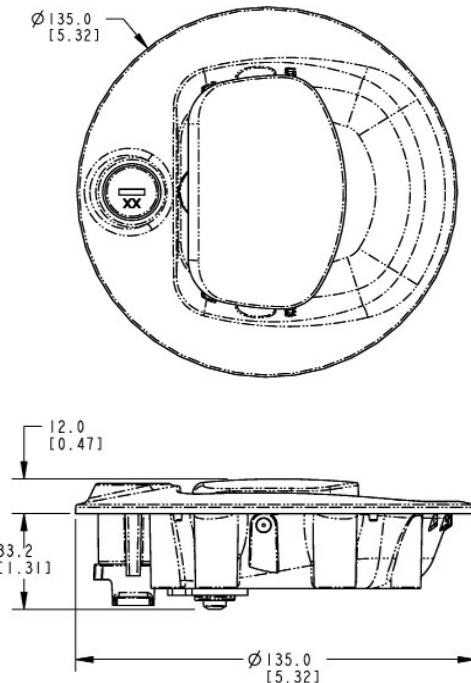
## INSTALLATION:

- Easy installation with (4) M6 special high performance thread forming fasteners available
- Allows for glass mounting through a single 120mm diameter hole or steel through a double-D cutout

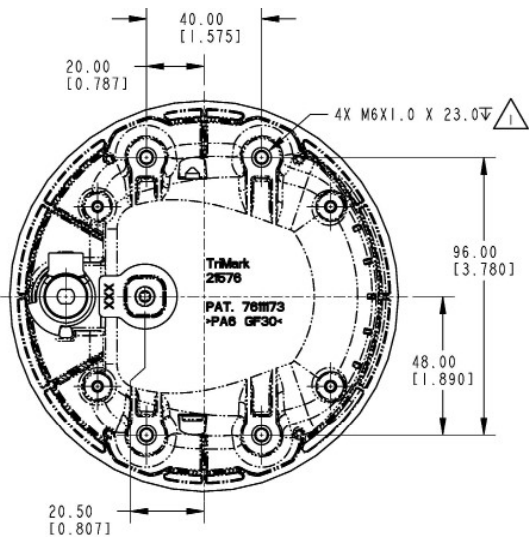
U.S. Patent No. 7,611,173

U.S. Design Patent No. D541,129

Caution: Product does not meet the locking requirements for FMVSS 206 (ECE R11)



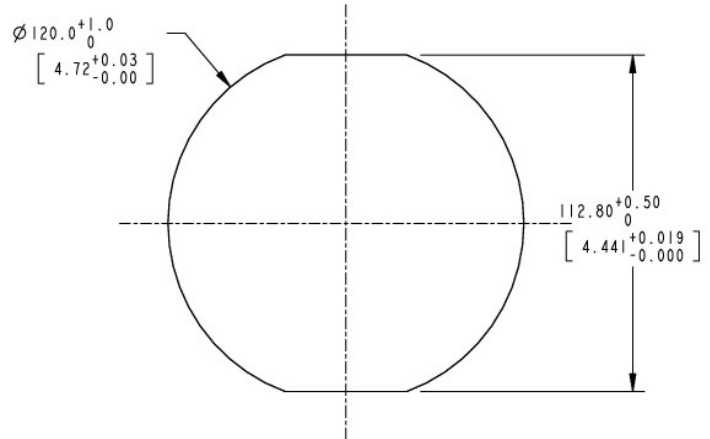
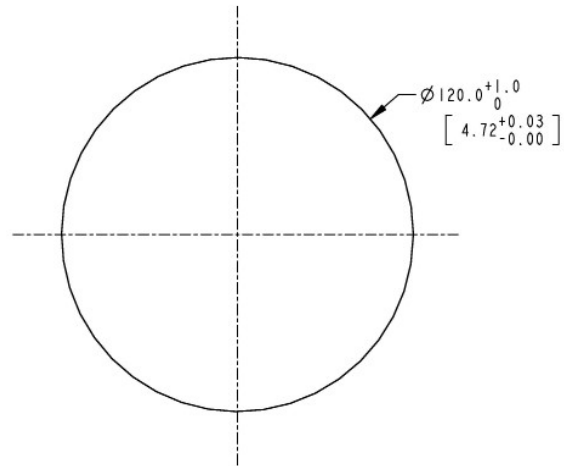
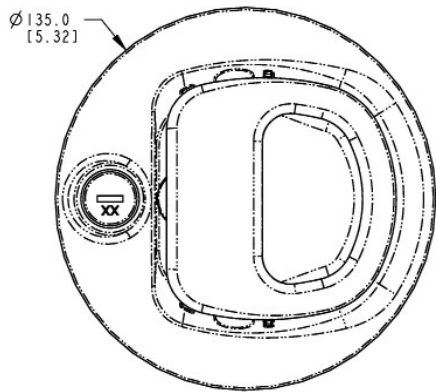
# 030-1200 continued



NOTE: UNLESS OTHERWISE SPECIFIED;

RECOMMENDED INSTALLATION TORQUE TO BE 9.4-11.5 N-m [83-102 lbf-in]

**All dimensions are for reference only. For more information visit [www.trimarkcorp.com](http://www.trimarkcorp.com)**



# 030-1300 D-Paddle Handle

This compartment paddle handle is designed for utility and service bodies, emergency vehicles and baggage doors for recreational vehicles. It features a multipoint bellcrank and is available in black or buffed copper-nickel-chrome finishes.

- Compartment doors on recreational vehicles
- Most storage, compartment and access doors
- Emergency vehicle compartment doors

## AVAILABLE:

- In locking or non-locking configurations
- With single rotor latch module (050-0206) that can be orientated at 90° intervals with the paddle depending on application
- With gasket for flange of housing to provide resistance to water and dirt infiltration
- Multiple pivot plate for doors that require a remote latching mechanism

## MATERIAL:

- Housing and paddle: Die cast zinc alloy
- Internal latch components: Case hardened, smooth edge stamped steel
- Springs: Stainless steel, non-corrosive
- Other components: Zinc plate mild steel



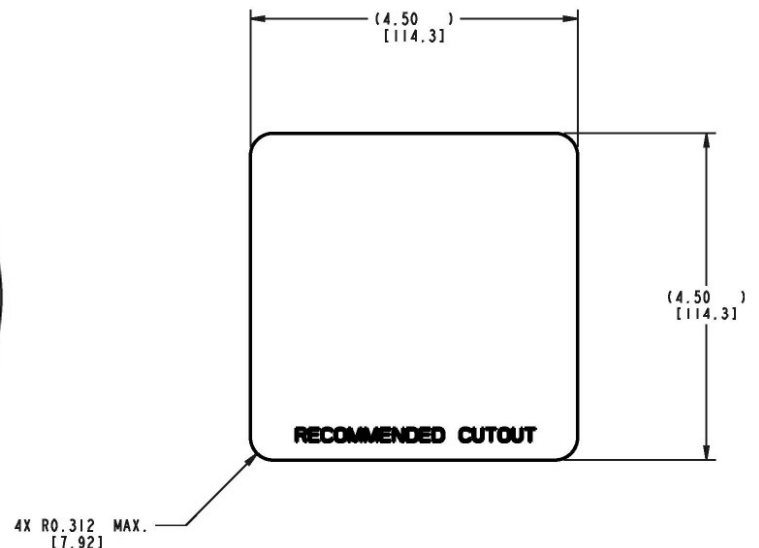
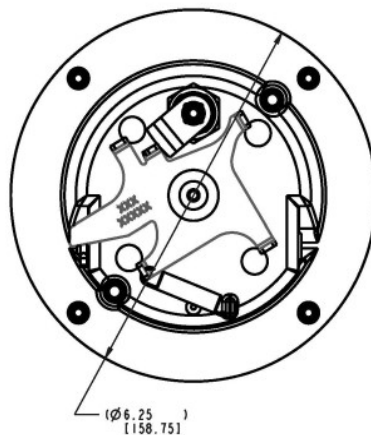
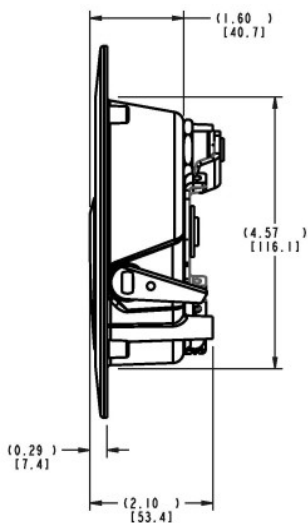
## FINISH:

- Housing and paddle: Black powder coated or buffed copper-nickel-chrome plated
- Stampings: Zinc plate clear chromate conversion coat

## INSTALLATION:

- Easy drop-in installation
- Integrated rotary: Mounts with (2) 1/4-20 UNC threaded cutting screws (not included)
- Two point: Mounts with (4) #10-24 UNC screws (not included)
- Retrofits with most folding D-ring handles presently used

**Caution:** Product does not meet the locking requirements for FMVSS 206 (ECE R11).



All dimensions are for reference only. For more information visit [www.trimarkcorp.com](http://www.trimarkcorp.com)

Handles:

Paddle  
76



# 030-1400 Paddle Handle

This flush mounted paddle is a redesign of our 030-0400 paddle handle for entrance doors on RV and specialty vehicles. Containing the same proven mechanical details as previous with a modernized look, it can be used in FMVSS 206 (ECE R11) applications and features a remote pivot plate and lock cam actuation.

- Offers updated styling
- Inside lock provides override if outside paddle should be locked
- Molded rubber gasket for flange of housing provides resistance to water and dust infiltration
- Adaptable to power lock actuation



## AVAILABLE:

- Lock can be keyed to match other TriMark door products with KeyOne™ Plus for a single-key system, keyed alike or provided non-locking
- Several pivot plate options are available to suit a wide variety of applications

## MATERIAL:

- Sturdy zinc die cast alloy housing and paddle
- Steel components: Zinc plated, mild steel

## FINISH:

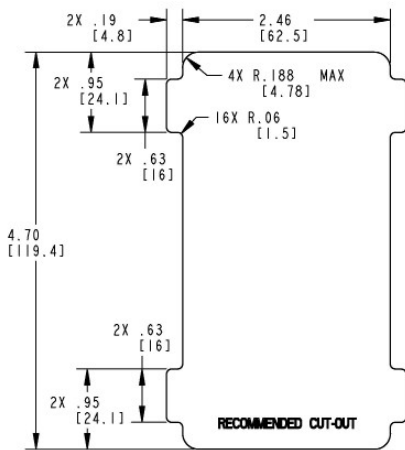
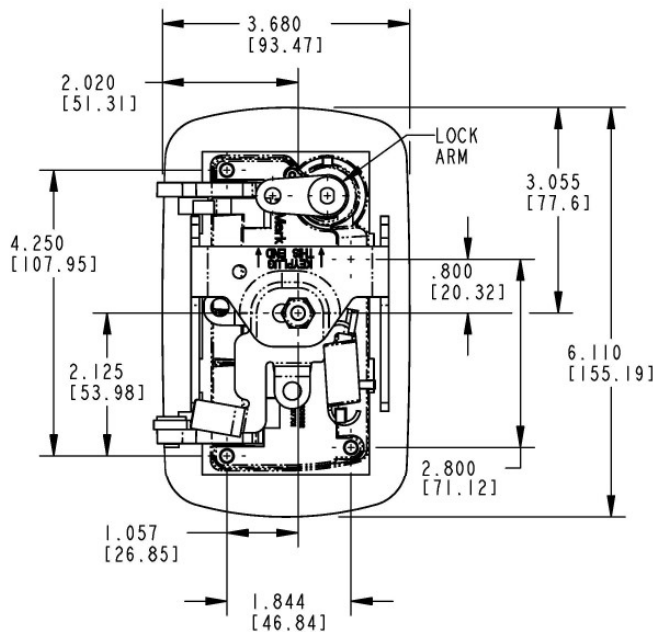
- Standard black powder coated, buffed copper-nickel-nickel-chrome plated or combination black powder coated housing and buffed chrome paddle

## INSTALLATION:

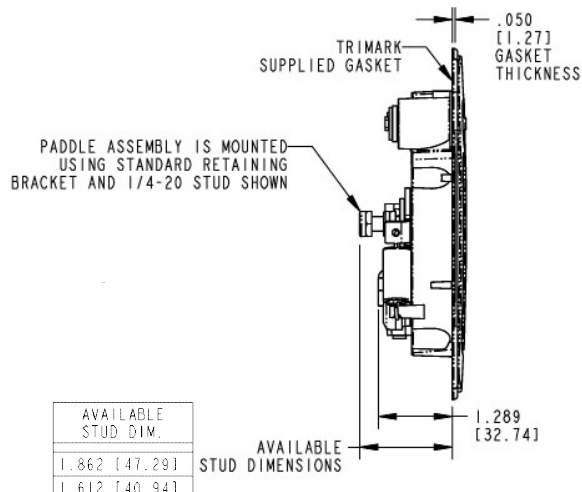
- Handle is easy to install with supplied single 1/4-20 UNC nut and mounting bracket (mounting torque not to exceed 30 in-lbs (3.39 N-m))
- Either handed version can be installed in a wide range of locations in both horizontal or vertical orientations (left hand shown)
- Retrofits with most 030-0400 flush paddle handles

## U.S. Design Patent No. D537,701

Note that this 030-1400 Paddle Handle complies with FMVSS 206 (ECE R11) when tested accordance with SAE J839 and that this product meets FMVSS 206 (ECE R11) locking requirements and may be used in FMVSS 206 (ECE R11) applications pending TriMark application approval. Please refer to page 158 for the complete FMVSS 206 (ECE R11) statement.



SCALE 1.000



All dimensions are for reference only. For more information visit [www.trimarkcorp.com](http://www.trimarkcorp.com)

Handles:  
Paddle  
77

# 030-1425 Inside Bezel & Release Lever Assembly

This redesigned product functions as a remote inside release and features a built-in lock lever and improved zinc die cast bezel for durability and ease of installation. It is also available in non-locking and power locking versions.



- Remote interior release and locking applications for on or off-highway
- Light to medium duty recommended
- Use with TriMark latch/logic mechanisms

## FEATURES/BENEFITS:

- Offers modern automotive styling
- Built-in lock lever for added security
- Remote mounting provides versatility and flexibility

## AVAILABLE:

- Right or left hand configurations (right hand shown)
- Cutout for power door lock
- Non-locking bezel also available
- As a complete assembly or separate components for application flexibility

## MATERIAL/FINISH:

- Bezel and release lever: Die cast zinc alloy
- Lock lever: Engineered plastic
- Stamped steel mounting brackets

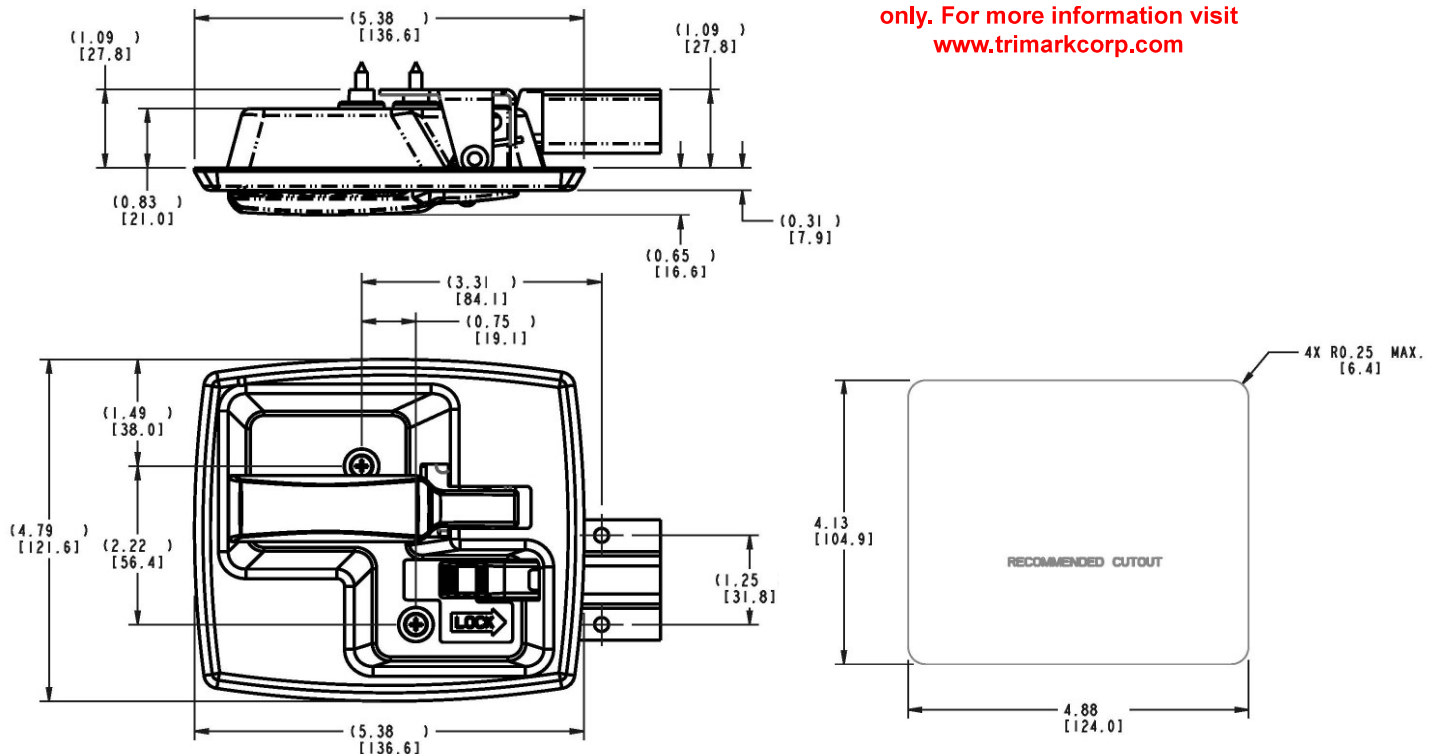
## INSTALLATION:

- Fasteners supplied for mounting inside bezel

U.S. Design Patent No. D598,729 / D588,895

Note that this 030-1425 Paddle Handle complies with FMVSS 206 (ECE R11) when tested accordance with SAE J839 and that this product meets FMVSS 206 (ECE R11) locking requirements and may be used in FMVSS 206 (ECE R11) applications pending TriMark application approval. Please refer to page 158 for the complete FMVSS 206 (ECE R11) statement.

All dimensions are for reference only. For more information visit [www.trimarkcorp.com](http://www.trimarkcorp.com)



Handles:

Paddle  
78

# 030-1450 Two Point Paddle Handle

This flush mounted paddle is a redesign of our 030-0450 paddle handle for compartment doors and entrance doors on RV and specialty vehicles. Containing the same proven mechanical details as previous with a modernized look, it can be used in FMVSS 206 (ECE R11) applications, is power lockable and features two point remote pivot plate and lock cam actuation.



## FEATURES/BENEFITS:

- Offers updated styling
- Paddle is rigid when locked
- Inside lock detail provides for multiple connection points for use of inside lock and/or powerlock actuation
- Molded rubber gasket for flange of housing provides resistance to water and dust infiltration



## AVAILABLE:

- Lock can be keyed to match other TriMark door products with KeyOne™ Plus for a single-key system, keyed alike or provided non-locking
- Several two point pivot plate options are available to suit a wide variety of applications

## INSTALLATION:

- Handle is easy to install with single 1/4-20 UNC nut and supplied mounting bracket (mounting torque not to exceed 30 in-lbs (3.39N-m))
- Either handed version can be installed in a wide range of locations in either horizontal or vertical orientations (left hand shown)
- Retrofits with most 030-0450 flush paddle handles

## FINISH:

- Standard black powder coated, buffed copper-nickel-nickel-chrome plated or combination black powder coated housing and buffed chrome paddle

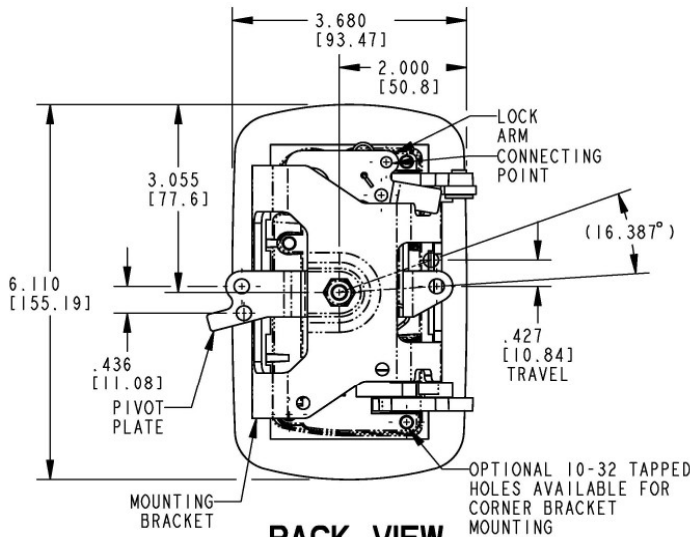
## MATERIAL:

- Sturdy zinc die cast alloy housing and paddle
- Steel components: Zinc plated, mild steel

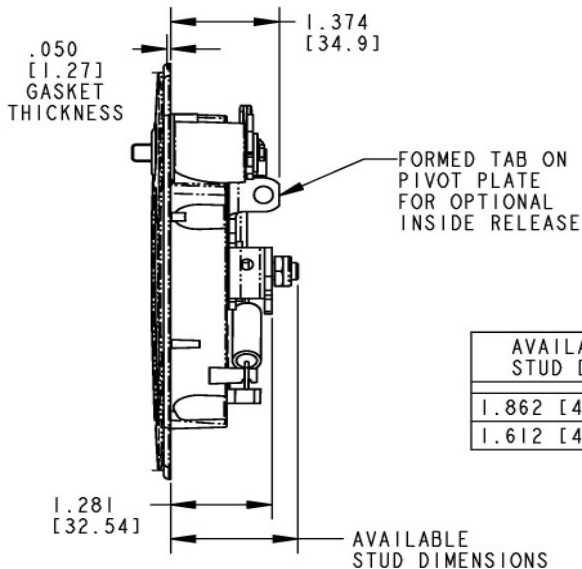
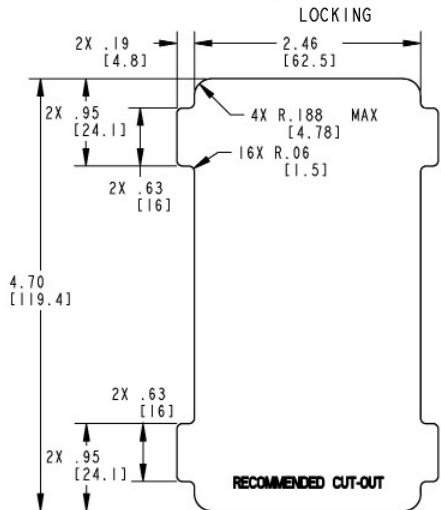
## U.S. Design Patent No. D537,701

Note that this 030-1450 2-Point Paddle Handle complies with FMVSS 206 (ECE R11) when tested accordance with SAE J839 and that this product meets FMVSS 206 (ECE R11) locking requirements and may be used in FMVSS 206 (ECE R11) applications pending TriMark application approval. Please refer to page 158 for the complete FMVSS 206 (ECE R11) statement.

**All dimensions are for reference only. For more information visit [www.trimarkcorp.com](http://www.trimarkcorp.com)**



### BACK VIEW



AVAILABLE STUD DIM.
1.862 [47.29]
1.612 [40.94]

**Handles:**  
Paddle  
79

# 030-1800 Non-Locking Flush Mounted Paddle Handle

This non-locking flush mounted paddle handle is a redesign of TriMark's popular 030-0800 Flush Mounted Paddle Handle. Containing an update for a modernized look, it features the same four point pivot plate.

- Medium to heavy-duty on-highway vehicle compartment doors
- Off-highway applications - construction, mining, forestry and agricultural
- On-highway - emergency vehicles not requiring FMVSS 206 (ECE R11) standards

## FEATURES/BENEFITS:

- Automotive styling preferred by customers in the ambulance and fire truck market
- Easy installation - do not have to maneuver large pivot plate through cut-out in the door
- Molded rubber housing gasket and o-rings on the axle for better water infiltration resistance
- Non-slip tape added for secure opening of the door

## AVAILABLE:

- Left and right hand configurations available
- Includes gasket for flange of housing to provide resistance to water and dirt infiltration
- Customized bezel/trim for unique look for customers with the request of an added logo
  - ◊ Bezel kits sold separately
- Optional pivot plates (please inquire)

## MATERIAL:

- Paddle and housing: sturdy die cast zinc alloy
- Pivot components: heat treated, mild steel for wear resistance
- Bushing for paddle axle and thrust washer for pivot



## FINISH:

- Available in a variety of finishes including black powder coated, high quality buffed CNC chrome or a combination of black/chrome finish

## INSTALLATION:

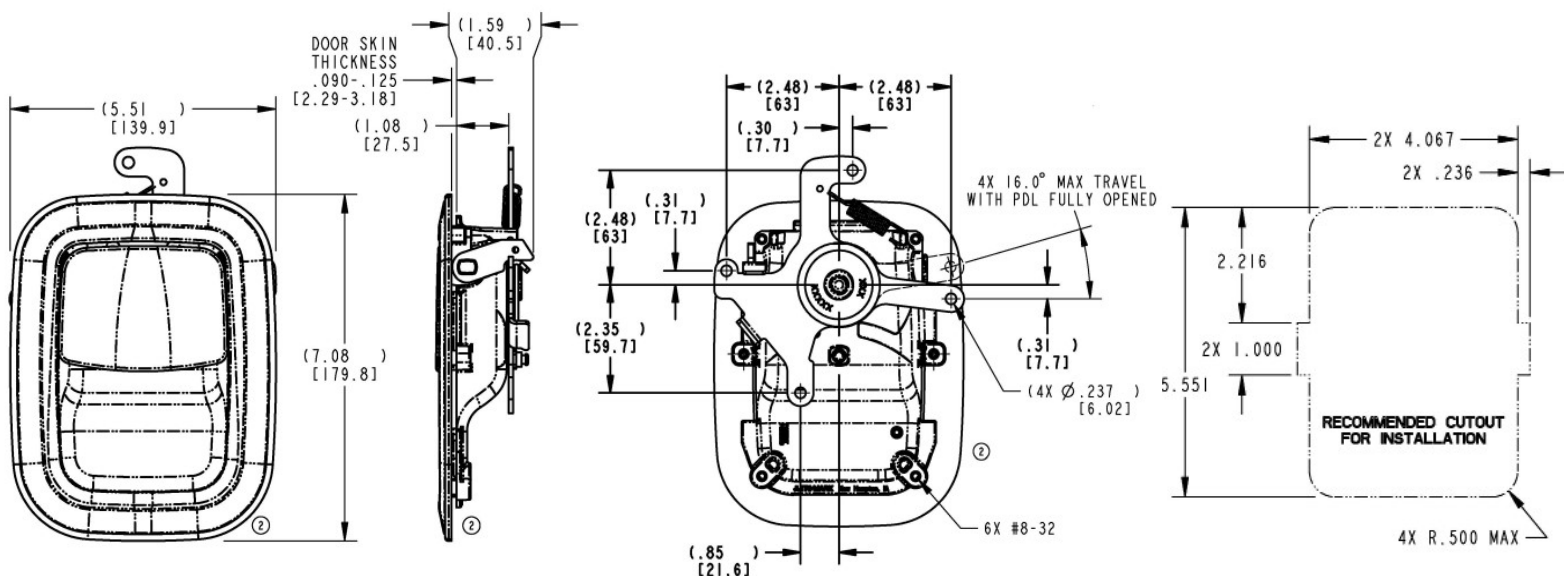
- Design provides for easy installation without a mounting bracket with the use of (6) #8-32 fasteners
- Can be installed in a wide range of locations in door - either horizontal or vertical orientation (left hand shown)
- Installs into current 030-0800 cut-outs
- Door skin thickness - .083"-.127" (2.11mm-3.22mm)

U.S. Design Patent No. D694,087

U.S. Patent No. 10,024,085

Caution: Product does not meet the locking requirements for FMVSS 206 (ECE R11).

All dimensions are for reference only. For more information visit [www.trimarkcorp.com](http://www.trimarkcorp.com)



Handles:

Paddle  
80



# 030-1850 Flush Mounted Paddle Handle-Rigid Locking

This flush mounted paddle handle with rigid locking paddle is a redesign of our popular 030-0850 Flush Mounted Paddle Handle. With a modernized look, it can be used in FMVSS 206 (ECE R11) applications, is power lockable and features a four point pivot plate and lock cam actuation.

- Medium to heavy duty on-highway vehicle entrance doors
- Off-highway applications - construction, mining, forestry and agricultural
- On-highway - emergency vehicles

## FEATURES/BENEFITS:

- Automotive styling preferred by customers in the ambulance and fire truck market
- Multiple connection points for use on inside lock and power lock actuation
- Easy installation - do not have to maneuver large pivot plate through cut-out in the door
- Molded rubber housing gasket and o-rings on the axle for better water infiltration resistance
- Non-slip tape added for secure opening of the door

## AVAILABLE:

- Left and right hand configurations available
- Includes gasket for flange of housing to provide resistance to water and dirt infiltration
- Handle can be keyed to match other TriMark door product with KeyOne™ Plus for a single-key system, keyed alike or provided non-locking
- Customized bezel/trim for unique look for customers with the request of an added logo
  - ◊ Bezel kits sold separately
- Optional pivot plates (please inquire)



All dimensions are for reference only. For more information visit [www.trimarkcorp.com](http://www.trimarkcorp.com)



## MATERIAL:

- Paddle and housing: Sturdy die cast zinc alloy
- Pivot components: Heat-treated, mild steel for wear resistance
- Bushing for paddle axle and thrust washer for pivot plate: Nylon 6/6

## FINISH:

- Available in a variety of finishes including black powder coated, high quality buffed CNNC chrome or a combination of black/chrome finish

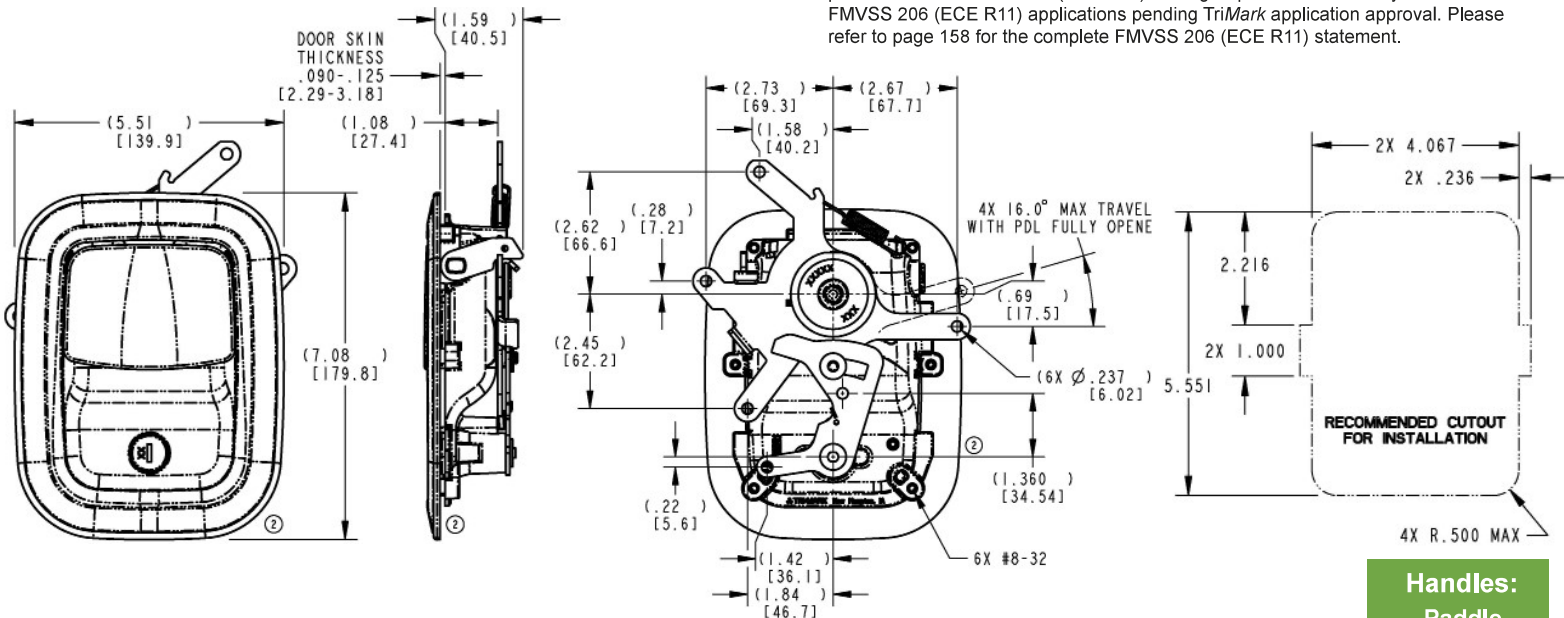
## INSTALLATION:

- Design provides for easy installation without a mounting bracket with the use of (6) #8-32 fasteners
- Can be installed in a wide range of locations in door - either horizontal or vertical orientation (left hand shown)
- Installs into current 030-0850 cut-outs
- Door skin thickness - .083"-.127" (2.11mm-3.22mm)

U.S. Design Patent No. D694,087

U.S. Patent No. 10,024,085

Note that this 030-1850 Free-Float Flush Mounted Paddle Handle complies with FMVSS 206 (ECE R11) when tested accordance with SAE J839 and that this product meets FMVSS 206 (ECE R11) locking requirements and may be used in FMVSS 206 (ECE R11) applications pending TriMark application approval. Please refer to page 158 for the complete FMVSS 206 (ECE R11) statement.





# 030-1860 Flush Mounted Paddle Handle With Inside Lock Knob

This flush mounted paddle handle with inside lock knob is a redesign of our popular 030-0860 Flush Mounted Paddle Handle. With a modernized look, it can be used in FMVSS 206 (ECE R11) applications, is power lockable and features a four point pivot plate and lock cam actuation.

- Medium to heavy-duty on-highway vehicle entrance doors
- Off-highway applications - construction, mining, forestry and agricultural
- On-highway - emergency vehicles



## FEATURES/BENEFITS:

- Automotive styling preferred by customers in the ambulance and fire truck market
- Multiple connection points for use on inside lock and power lock actuation
- Easy installation - do not have to maneuver large pivot plate through cut-out in the door
- Molded rubber housing gasket and o-rings on the axle for better water infiltration resistance
- Non-slip tape added for secure opening of the door

## AVAILABLE:

- Left and right hand configurations available
- Includes gasket for flange of housing to provide resistance to water and dirt infiltration
- Customized bezel/trim for unique look for customers with the request of an added logo
  - ◊ Bezel kits sold separately
- Optional pivot plates (please inquire)

## MATERIAL:

- Paddle and housing: Sturdy die cast zinc alloy
- Pivot components: Heat-treated, mild steel for wear resistance
- Bushing for paddle axle and thrust washer for pivot plate: Nylon 6/6

## FINISH:

- Available in a variety of finishes including black powder coated, high quality buffed CNNC chrome or a combination of black/chrome finish

## INSTALLATION:

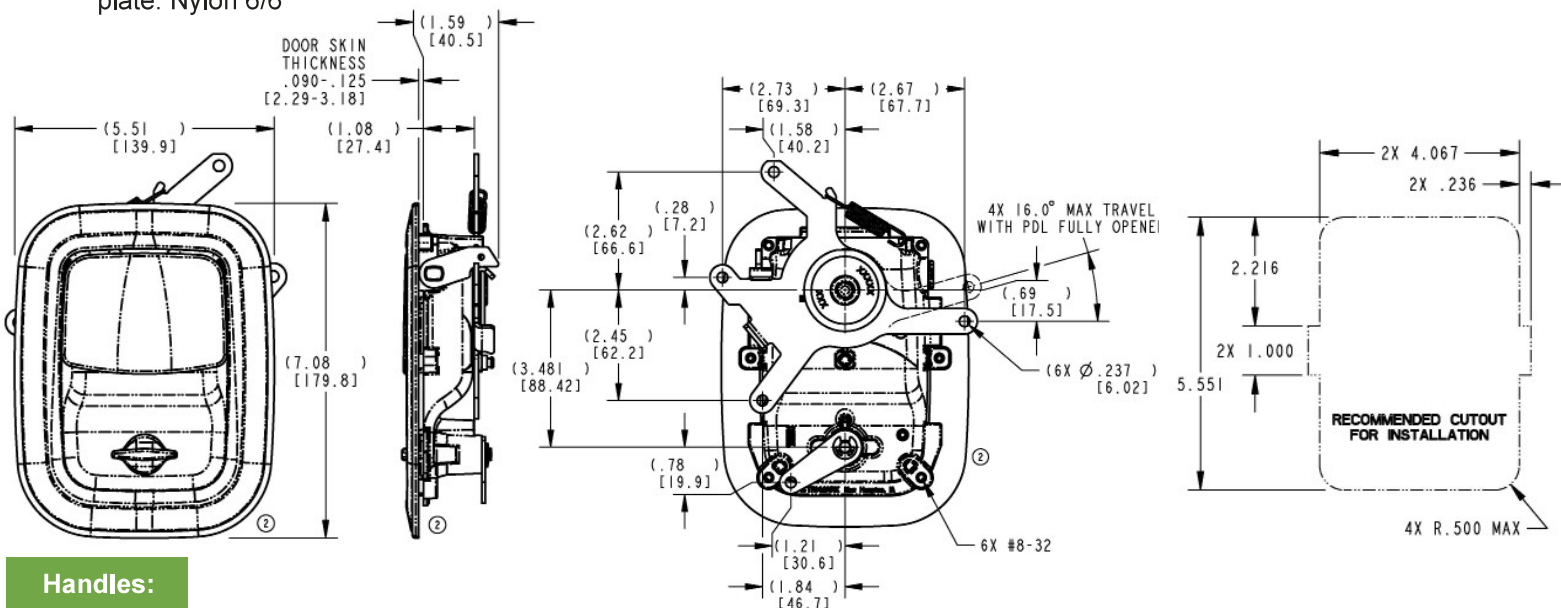
- Design provides for easy installation without a mounting bracket with the use of (6) #8-32 fasteners
- Can be installed in a wide range of locations in door - either horizontal or vertical orientation (left hand shown)
- Installs into current 030-0860 cut-outs
- Door skin thickness - .083"-.127" (2.1mm-3.22mm)

U.S. Design Patent No. D694,087

U.S. Patent No. 10,024,085

Note that this 030-1860 Flush Mounted Paddle/Handle With Inside Lock Knob complies with FMVSS 206 (ECE R11) when tested accordance with SAE J839 and that this product meets FMVSS 206 (ECE R11) locking requirements and may be used in FMVSS 206 (ECE R11) applications pending TriMark application approval. Please refer to page 158 for the complete FMVSS 206 (ECE R11) statement.

**All dimensions are for reference only. For more information visit [www.trimarkcorp.com](http://www.trimarkcorp.com)**



Handles:

Paddle  
82

# 030-1875 Flush Mount Paddle Handle With Free-Floating Paddle

This flush mounted paddle handle with free-floating paddle (when locked) is a redesign of our popular 030-0875 Flush Mounted Paddle Handle. Containing an update to the mechanical design and with a modernized look, it can be used in FMVSS 206 (ECE R11) applications, is power lockable and features same four point pivot plate and lock cam actuation.

- Medium to heavy-duty on-highway vehicle entrance doors where free-floating handle is preferred
- Off-highway applications - construction, mining, forestry and agricultural
- On-highway--emergency vehicles

## FEATURES/BENEFITS:

- Automotive styling preferred by customers in the ambulance and fire truck market
- Multiple connection points for use on inside lock and power lock actuation
- Easy installation - do not have to maneuver large pivot plate through cut-out in the door
- Molded rubber gasket and o-rings on the axle for better water infiltration resistance
- Non-slip tape added for secure opening of the door

## AVAILABLE:

- Left and right hand configurations available
- Includes gasket for flange of housing to provide resistance to water and dirt infiltration
- Handle can be keyed to match other TriMark door product with KeyOne™ Plus for a single-key system, keyed alike or provided non-locking
- Customized bezel/trim for unique look for customers with the request of an added logo
  - ◇ Bezel kits sold separately
- Optional pivot plates (please inquire)



**All dimensions are for reference only. For more information visit [www.trimarkcorp.com](http://www.trimarkcorp.com)**



## MATERIAL:

- Paddle and housing: Sturdy die cast zinc alloy
- Pivot components: Heat-treated mild steel for wear resistance
- Bushing for paddle axle and thrust washer for pivot plate: Nylon 6/6

## FINISH:

- Available in a variety of finishes including black powder coated, high quality buffed CNC chrome or a combination of black/chrome finish

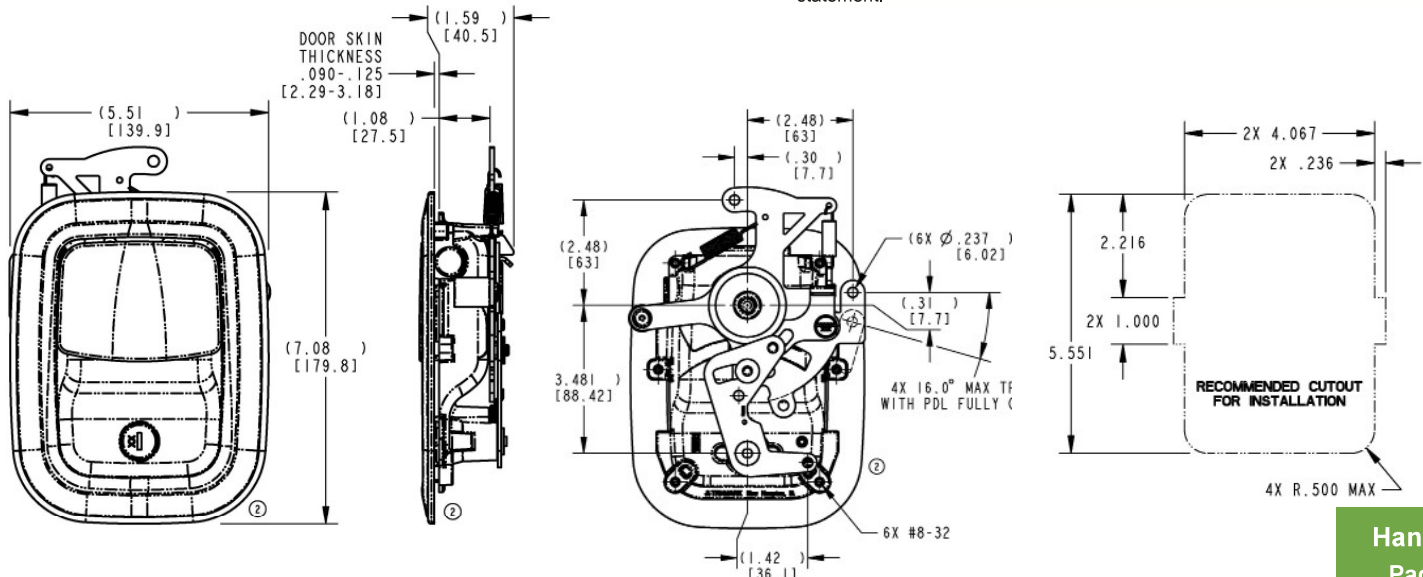
## INSTALLATION:

- Design provides for easy installation without a mounting bracket with the use of (6) #8-32 fasteners
- Can be installed in a wide range of locations in door - either horizontal or vertical orientation (left hand shown)
- Installs into current 030-0875 cut-outs
- Door skin thickness - .083"-.127" (2.11mm-3.22mm)

**U.S. Design Patent No. D694,087**

**U.S. Patent No. 8,881,564 / 10,024,085**

Note that this 030-1875 Flush Mounted Paddle Handle With Free-Floating Paddle complies with FMVSS 206 (ECE R11) when tested in accordance with SAE J839 and that this product meets FMVSS 206 (ECE R11) locking requirements and may be used in FMVSS 206 (ECE R11) applications pending TriMark application approval. Please refer to page 158 for the complete FMVSS 206 (ECE R11) statement.



# 030-2000 Two Point Free Float Baggage Lock

Designed for recreational vehicle baggage doors, this product is available in black or copper-nickel-chrome plated finish and features a two point bellcrank for remote actuation and is power lockable.

- Two point assembly ideally suited to fit 1.25" (31.8mm) and thicker foam core doors with linkage release efforts up to 7 lbs. (3.2 kg) per linkage rod

## FEATURES/BENEFITS:

- Foam gasket on flange of housing provides resistance to water infiltration
- Paddle free-floats when locked
- Modern automotive styling
- Adaptable to powerlock actuation
- Paddle can be locked before door is shut
- Large handle provides comfortable finger access and greater ease of operation (ergonomics)

## AVAILABLE:

- Handle can be keyed to match other TriMark RV door products with KeyOne™ Plus for a single-key system, keyed alike or provided non-locking
- Linkage rods available for your specific applications
- In right or left hand configurations (right hand shown)



## MATERIAL:

- Sturdy zinc die cast alloy paddle and housing
- All steel parts (axles, pivot arm, pivot plate, lock cam): cold rolled steel with zinc plate clear chromate for corrosion resistance
- Actuator: Engineered plastic

## FINISH:

- Supplied black powder coated, this product can easily be painted over to match body colors
- Also available copper-nickel chrome plated

## INSTALLATION:

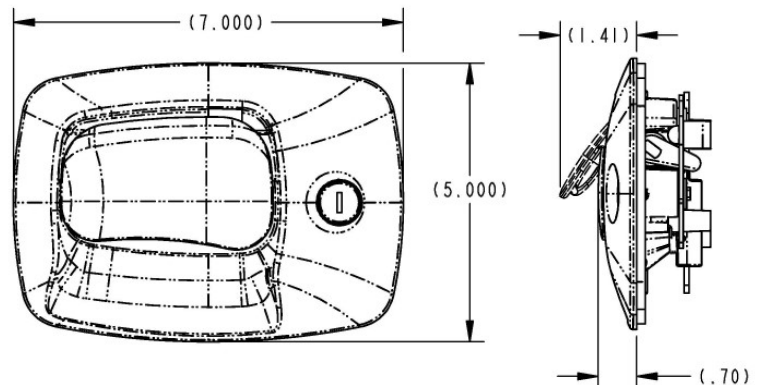
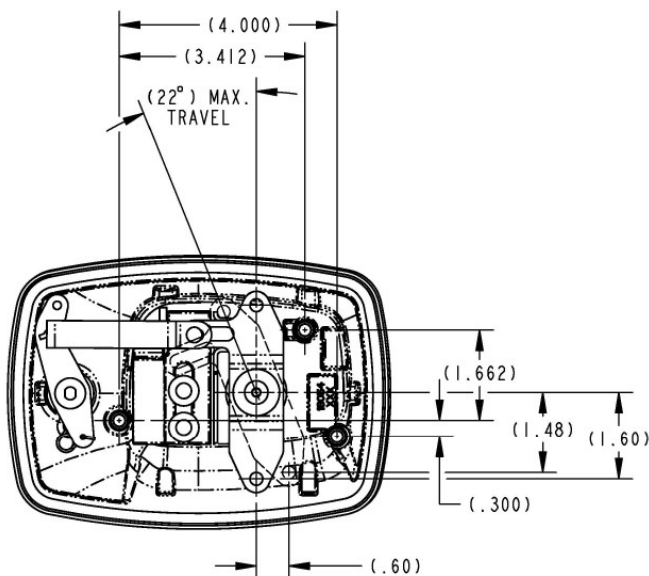
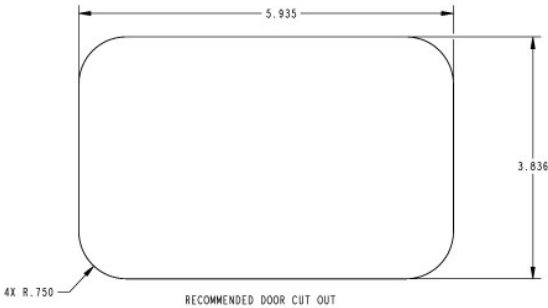
- Easy drop-in installation
- Supplied with gasket already applied under recess in housing flange for simple, clean installation
- Mounts with (3) 1/4-20 UNC thread forming screws (not supplied)
- Optional mounting bracket and rod designed for easy installation of power actuation
- Either handed version can be installed in a wide range of locations in door—horizontal or vertical orientation

U.S. Patent No. 6,708,537

U.S. Design Patent No. D496,576

Caution: Product does not meet the locking requirements for FMVSS 206 (ECE R11).

All dimensions are for reference only. For more information visit [www.trimarkcorp.com](http://www.trimarkcorp.com)



Handles:

Paddle

84



# 030-2300 Wedge Paddle Handle

This flush mounted paddle handle is designed specifically for medium to heavy-duty off-highway vehicle entrance doors that require remote actuation. It retrofits similar excavator paddle handles and offers robust construction for a very cost effective price.

## FEATURES/BENEFITS:

- Off-highway construction equipment applications
- Doors requiring latch location remote from actuating handle
- Door thickness of 55mm or greater
- Comfortable finger access
- Adaptable for power door lock actuation
- Molded gasket for flange of housing provides resistance to water infiltration



## AVAILABLE:

- Lock can be keyed to match other TriMark door products with KeyOne™ Plus for a single-key system, keyed alike or provided non-locking
- Choice of locking functions; locked rigid within the paddle or remote free-float locking to connect with latch/linkage



## INSTALLATION:

- Easy to install with (3) M6 mounting screws (not included)
- Recommended mounting torque 3.4 N-m

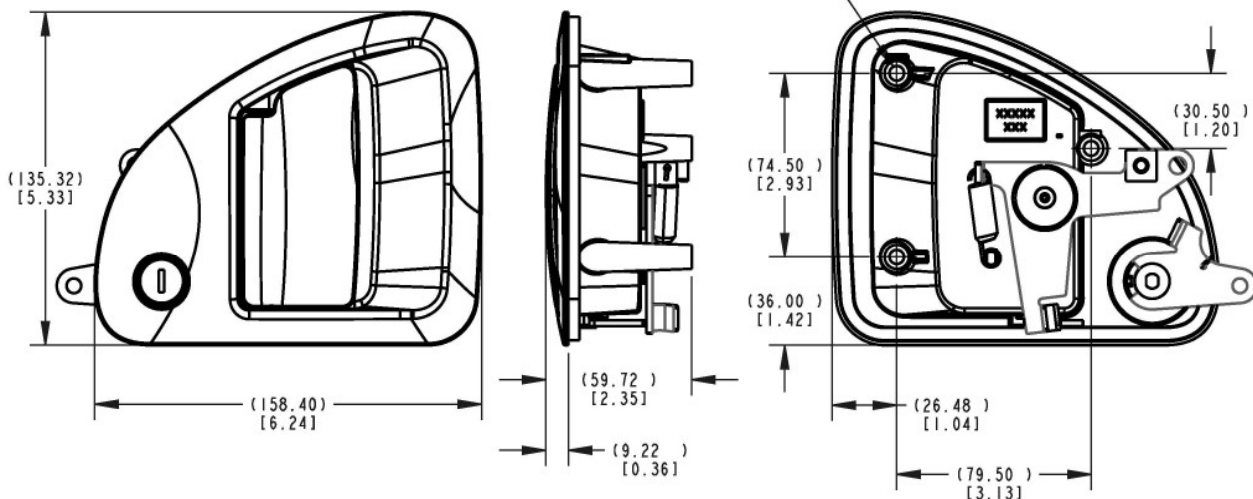
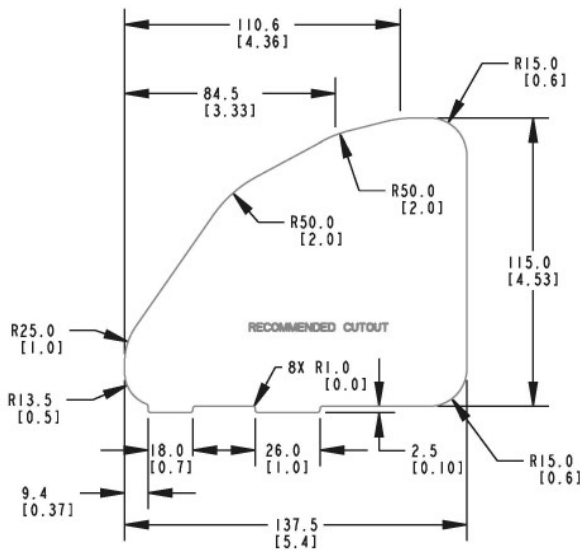
## MATERIAL:

- Sturdy die cast zinc alloy paddle and housing
- Pivot plate, lock cam and paddle axle: Mild steel

## FINISH:

- Black powder coated housing and paddle
- Zinc plated clear chromate steel components

**Caution:** Product does not meet the locking requirements for FMVSS 206 (ECE R11) (free-float version).

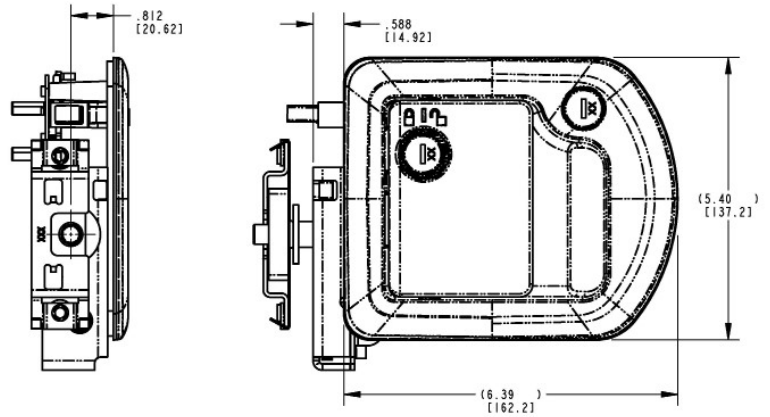


All dimensions are for reference only. For more information visit [www.trimarkcorp.com](http://www.trimarkcorp.com)

# 030-2650 Motor Home Entrance Door Hardware - Rotary

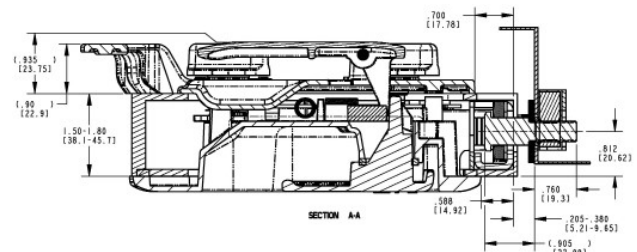
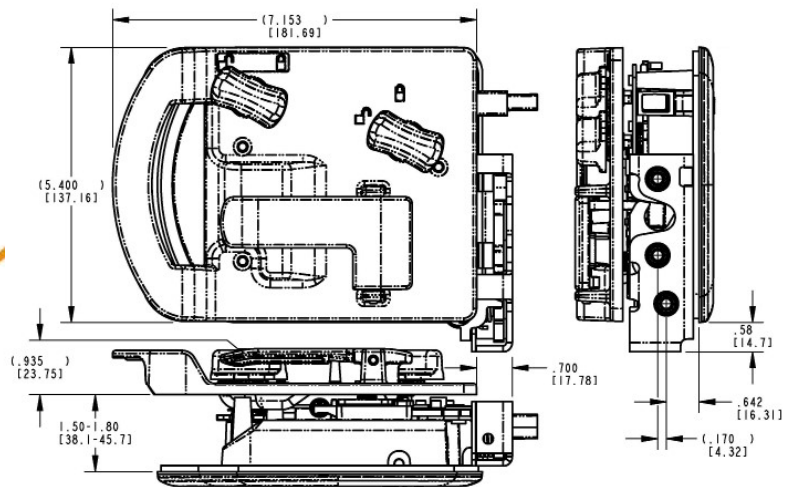
Designed for motor home and fifth wheel trailer entrance doors, this new product is a redesign of our 030-1000/030-1050 Motor Home Entrance Door Hardware. It features easy installation through sandwich mounting, a reliable direct release rotary latch which is compliant to FMVSS 206 (ECE R11), a built-in deadbolt for additional security and is power lockable.

- Motor home entrance doors with thickness of 1.390" (35.3mm) to 1.78" (45.2mm) (Different inside plates are required to facilitate range of door thicknesses. Please identify when inquiring.)
- Fifth-wheel trailers, pull-type trailers and slide-in campers
- Door seal pressures of 40 lbs. or less for ease of function and maximum life
- Right hand applications
- Door requiring resistance to water and dirt infiltration
- Use with TriMark 070-0100 Striker Bolt



## FEATURES/BENEFITS:

- Inside release is low profile .940" (23.9mm) to allow for close-fitting screen doors
- Paddle can be locked before door is shut
- Paddle is rigid when locked
- Automotive styling
- Comfortable finger access
- Inside assist with open bail for easy closing
- Can be keyed to match other TriMark door products with KeyOne™ Plus for a single key system, keyed alike or provided non-locking
- Built-in deadbolt eliminates the need for add-on residential type deadbolt (deadbolt option)
- Deadbolt locks into the fully extended position for true deadbolt functioning (deadbolt option)
- Ability to be used with power actuation for locking (deadbolt option)
- Deadbolt cylinder non-removable when locked for added security



All dimensions are for reference only. For more information visit [www.trimarkcorp.com](http://www.trimarkcorp.com)



# 030-2650 continued

## AVAILABLE:

- With optional built-in deadbolt
- Master keyed paddle key cylinder
- Without key cylinders for matching entire vehicle cylinders after installation

## MATERIAL:

- Housing, inside plates, handles, plunger bolt, deadbolt, locking components including lock knobs: Die cast zinc alloy

## FINISH:

- Black powder coated
- Copper-nickel-chrome plated
- Other finishes available upon request

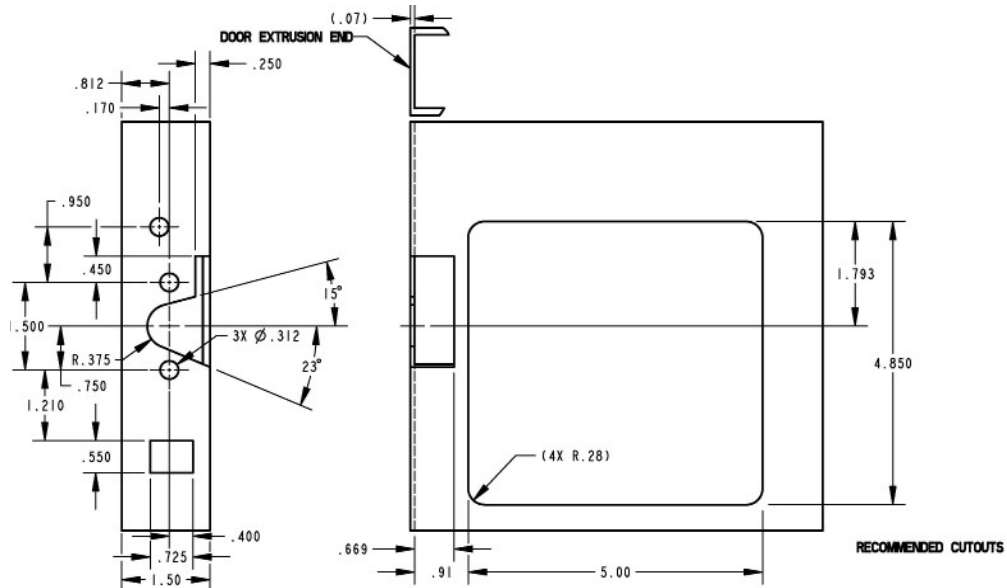
## INSTALLATION

- (3) #10-24 mounting screws (not included). Recommended torque 10 in-lbs (1.1 N-m)
- Supplied with gaskets already installed
- Sandwich mount installation does not require any linkage rods
- Power actuators, power actuation mounting brackets and rods are available for optional power actuation of locks. Please inquire.

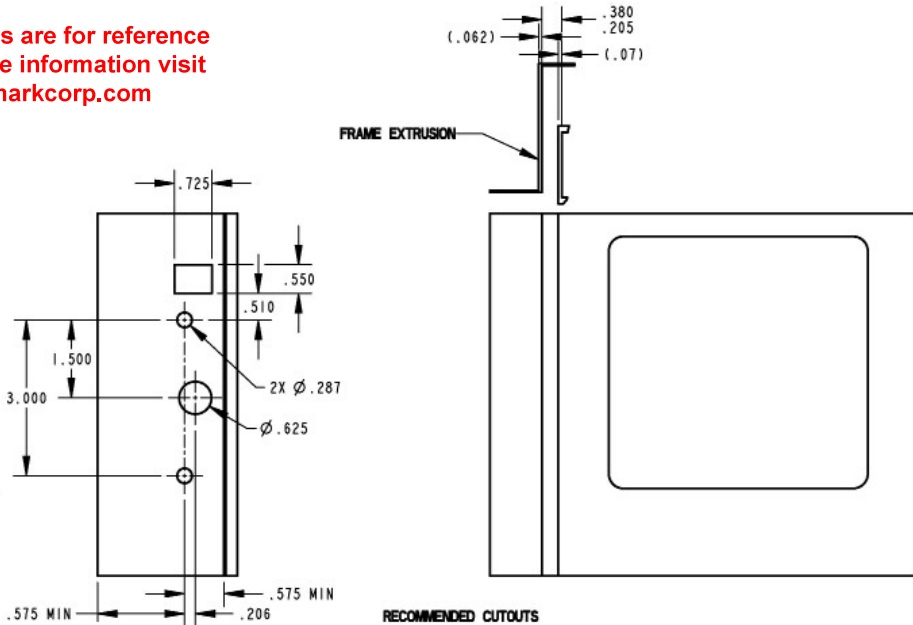
U.S. Design Patent No. D674,678 / D676,304

U.S. Patent No. 8,733,139

Note that this 030-2650 Motor Home Entrance Door Hardware System complies with FMVSS 206 (ECE R11) when tested accordance with SAE J839 and that this product meets FMVSS 206 (ECE R11) loads and locking requirements and may be used in FMVSS 206 (ECE R11) applications pending TriMark application approval. Please refer to page 158 for the complete FMVSS 206 (ECE R11) statement.



All dimensions are for reference only. For more information visit [www.trimarkcorp.com](http://www.trimarkcorp.com)



# 030-7100 Recessed Paddle Handle

Recessed zinc die cast paddle handle suitable for entrance doors. Robust design that provides long term durability and benefits from TriMark's KeyOne Plus lock system.

## FEATURES/BENEFITS:

- Non-handed style can be used in various orientations
- With mounting gaskets
- KeyOne™ Plus allowing for single keying option with variety of key coding available
- Can be used with a wide variety of available interior latch mechanisms
- Accommodates door thickness from 25mm (.98") to 50mm (1.97")

## AVAILABLE:

- Lock can be keyed to match other TriMark door products with KeyOne™ Plus for a single-key system, keyed alike or provided non-locking
- Several options are available to suit a wide variety of applications



## MATERIAL:

- Sturdy zinc die cast alloy housing and paddle
- Actuator: Glass filled nylon or zinc die cast



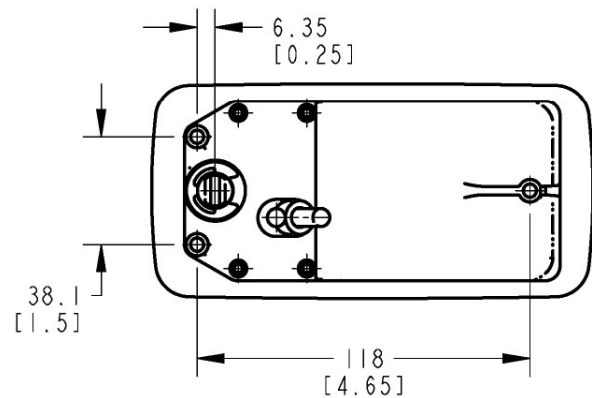
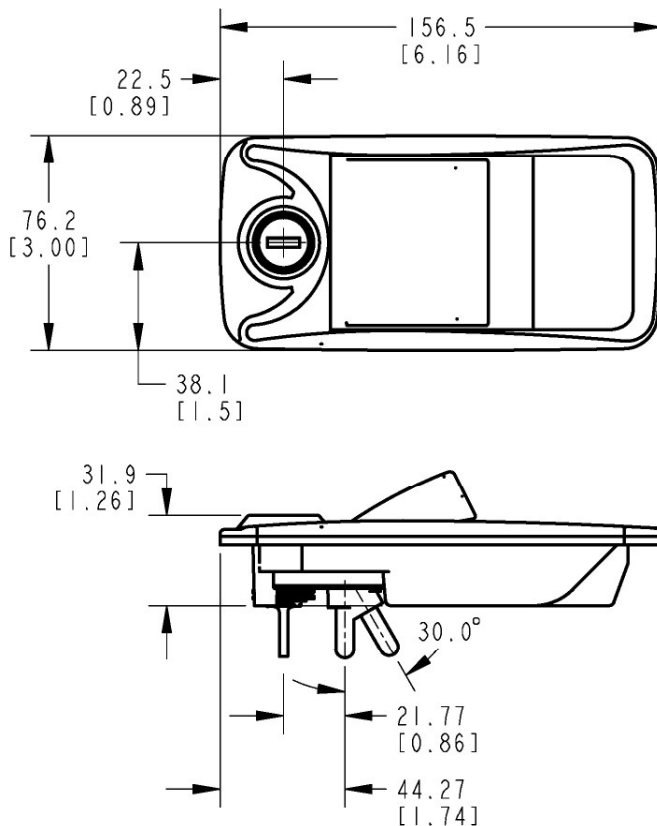
## FINISH:

- Standard black or silver powder-coated. Other color options available upon request

## INSTALLATION:

- Easy to install, (3) 5mm fixing screws available, not to exceed 6 N-m
- Various base plates available

**Caution:** Product does not meet the locking requirements for FMVSS 206 (ECE R11).



All dimensions are for reference only. For more information visit [www.trimarkcorp.com](http://www.trimarkcorp.com)

Handles:

Paddle  
88

# 030-7300 Compact Recessed Paddle Handle

Compact recessed zinc die cast paddle handle suitable for entrance/compartament doors. Robust design that provides long term durability.

## FEATURES/BENEFITS:

- Non-handed style
- With mounting gaskets
- A variety of key coding available
- Used with a variety of available interior plunger style latches
- Accommodates door thickness from 25mm (.98") to 50mm (1.97")

## AVAILABLE:

- Several options are available to suit a variety of applications

## MATERIAL:

- Sturdy zinc die cast alloy housing and paddle components

All dimensions are for reference only. For more information visit [www.trimarkcorp.com](http://www.trimarkcorp.com)



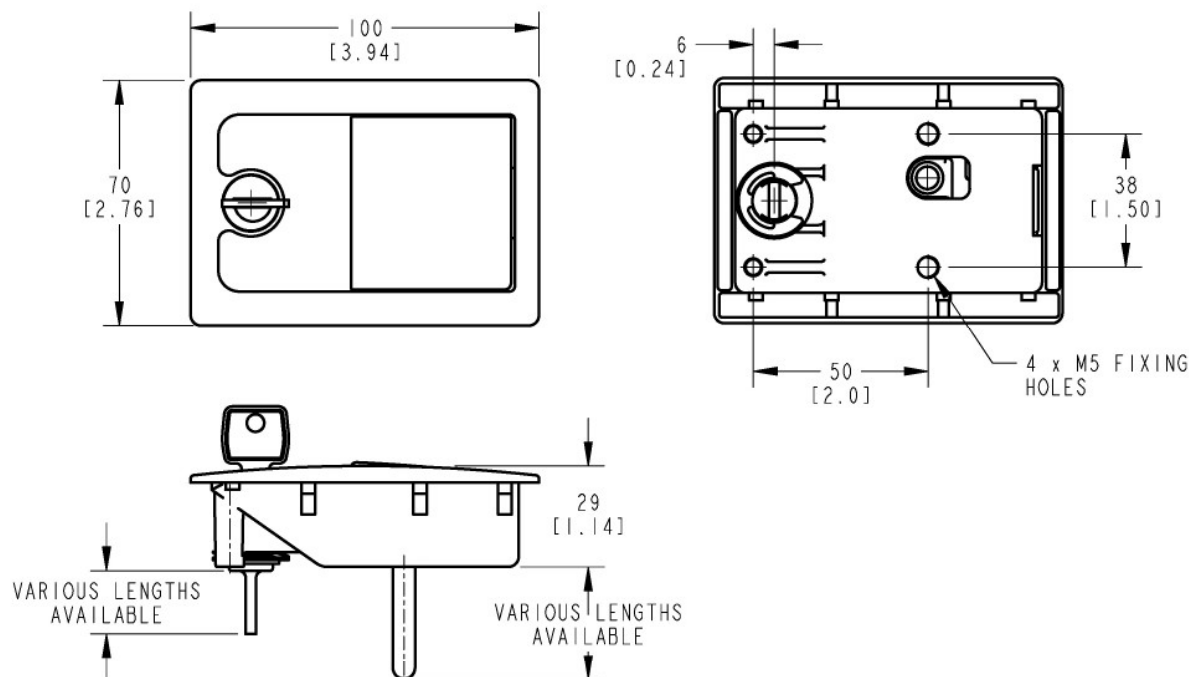
## FINISH:

- Standard black or silver powder coated
- Other color options available upon request

## INSTALLATION:

- Easy to install, (4) 5mm fixing screws, not to exceed 6 N-m
- Various base plates available

Caution: Product does not meet the locking requirements for FMVSS 206 (ECE R11).



# 060-0201 / 060-0251 Trailer Latch

This trailer latch was specifically designed for entrance, baggage and compartment doors for recreational vehicles including motor homes and travel trailers. It features a modern styled paddle and provides a single reversible key system with TriMark's KeyOne™ Plus system.

- All doors with thickness of 1-1/4" (31.8mm) to 1-1/2" (38.1mm) (other door thicknesses available - please inquire)
- Universal applications - either right or left handed

## FEATURES/BENEFITS:

- Paddle can be locked before door is shut
- Paddle is rigid when locked
- Automotive styling
- Comfortable finger access
- Inside assist for easy door closing
- Water resistant
- Master keying is standard for paddle key cylinder

## AVAILABLE:

- With optional built-in deadbolt (060-0251 Series)
- Reversible key for ease of operation
- With or without inside release (060-0201 Series)
- Reverse plunger for inward swinging doors (optional)
- Lock can be keyed to match other TriMark door products with KeyOne™ Plus for a single-key system, keyed alike or provided non-locking



## MATERIAL:

- Major components: Die cast zinc alloy
- Strike plate (standard version): Die cast zinc alloy
- Strike plate (optional dead bolt version): Steel or non-corrosive stainless steel
- Non-metallic plunger



060-0201 Trailer Latch



060-0251 Trailer Latch With Deadbolt

## FINISH:

- Black powder coated or white
- Copper-nickel chrome plated
- Strike plate (standard version): Black powder coating
- Strike plate (optional deadbolt version): Zinc plated

## INSTALLATION:

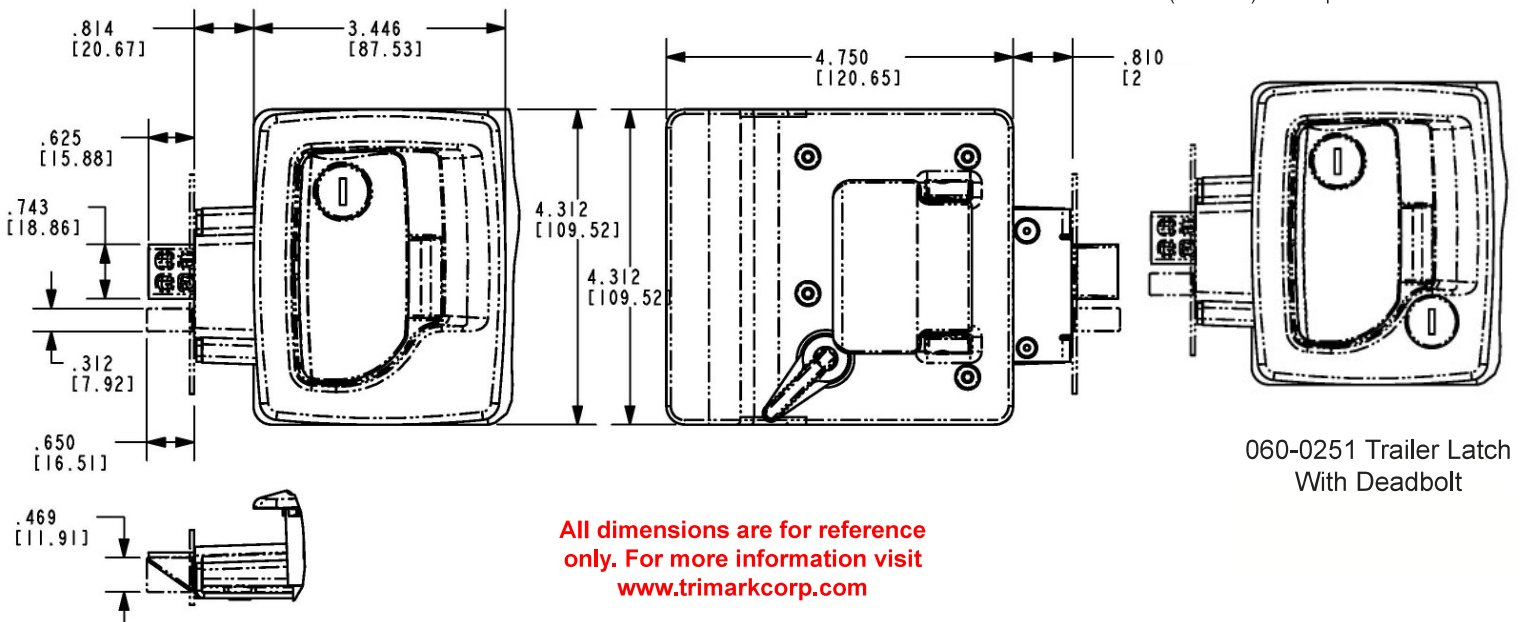
- Requires (4) #8-32 thread forming fasteners (available - please inquire)

## 060-0251 Series Dead Bolt Features

- Built-in deadbolt eliminates the need for an add-on residential type deadbolt
- Requires the same cut-out detail as the standard latch assembly (060-0200 / 060-0250 / 060-0201)
- Same fasteners may be used for all versions
- Deadbolt locks into the fully extended position for true deadbolt functioning
- Master keying is standard for paddle key cylinder

U.S. Patent No. 6,409,234 / 5,927,773

Caution: Latch does not meet FMVSS 206 (ECE R11) load requirements



060-0251 Trailer Latch With Deadbolt

All dimensions are for reference only. For more information visit [www.trimarkcorp.com](http://www.trimarkcorp.com)

Handles:

Paddle  
90

# 060-0460 EZ Access Baggage Door Lock

This door lock was specifically designed for baggage and compartment doors for recreational vehicles including motor homes and travel trailers. It features a modern styled paddle and is available with multi-point functionality or as a single point.

## FEATURES/BENEFITS:

- Offers lower operating efforts and a more forgiving assembly
- Ample finger clearance
- Paddle can be locked before the door is shut (slam action)
- Updated styling
- Improved plunger design
- Increased mechanical advantage to allow for lower operating efforts
- Available in single or three point actuation for latching versatility

## AVAILABLE:

- Locking or non-locking
- Keyed alike
- Wide variety of mounting bracket options available for various applications
- Lock can be keyed to match other TriMark door products with KeyOne™ Plus for a single-key system, keyed alike or provided non-locking
- Multi-point actuation or single point
- Zinc or plastic plunger



## FINISH:

- Paddle and housing: Powder coat in various colors
- Steel components: Zinc coat with clear chromate

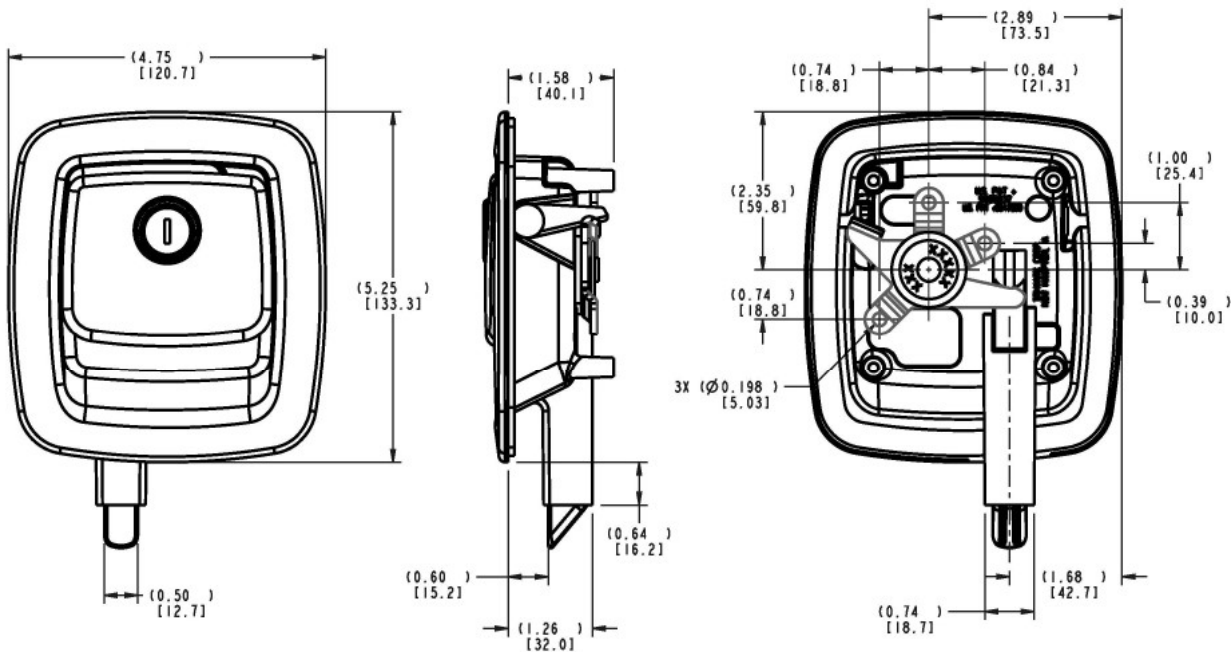
## MATERIAL:

- Housing and paddle: Die cast zinc
- Pivot plate, axles, pivot arm: Steel
- Plunger bolt: Plastic or die cast zinc

## INSTALLATION:

- Mounts with (4) #8-32 thread forming fasteners (not supplied)
- Supplied with gasket already applied under recess in housing flange for simple, clean installation

U.S. Patent No. 6,547,290



All dimensions are for reference only. For more information visit [www.trimarkcorp.com](http://www.trimarkcorp.com)

Handles:  
Paddle  
91



# 060-0475 Flush Baggage Door e-LOCK

This baggage door lock was specifically designed for baggage and compartment doors for recreational vehicles including motor homes and travel trailers. It features a modern styled paddle and offers the use of power door lock actuation. It is available with multi-point functionality or as a single point with either a zinc or plastic plunger.

## FEATURES/BENEFITS:

- Offers modernized styling
- Allows the use of power door lock actuation
- Large handle provides comfortable finger access and greater ease of operation (ergonomics)
- Single point zinc or plastic plunger or multi-point functionality works with TriMark rotary or plunger latches in doors 1.187" (30.1mm) and thicker
- Multi-point handle can be mounted in vertical or horizontal orientations and is able to actuate latches at the sides and also the top and bottom of the door
- Paddle can be locked before the door is closed (slam action)

## FINISH:

- Supplied painted in a low gloss black finish, the product can be easily painted over to match body colors
- Also available copper-nickel chrome plated

## MATERIAL:

- Sturdy zinc die cast alloy housing, paddle and plunger
- All parts (axles, pivot arm, pivot plate, lock cam): Cold rolled steel with zinc plate, clear chromate for corrosion resistance
- Engineered plastic used for plunger bolt drive end and plunger bolt (when specified) has lower coefficient of friction, reducing closing and operating efforts



## AVAILABLE:

- With or without plunger bolt for one or multi-point operation
- Single point version is available with a zinc or plastic plunger
- Handle can be keyed to match other TriMark RV door products with KeyOne™ Plus for a single-key system, keyed alike or provided non-locking
- Housing flange and internal gaskets provided for resistance to water and dirt infiltration
- Linkage rods available for your specific applications

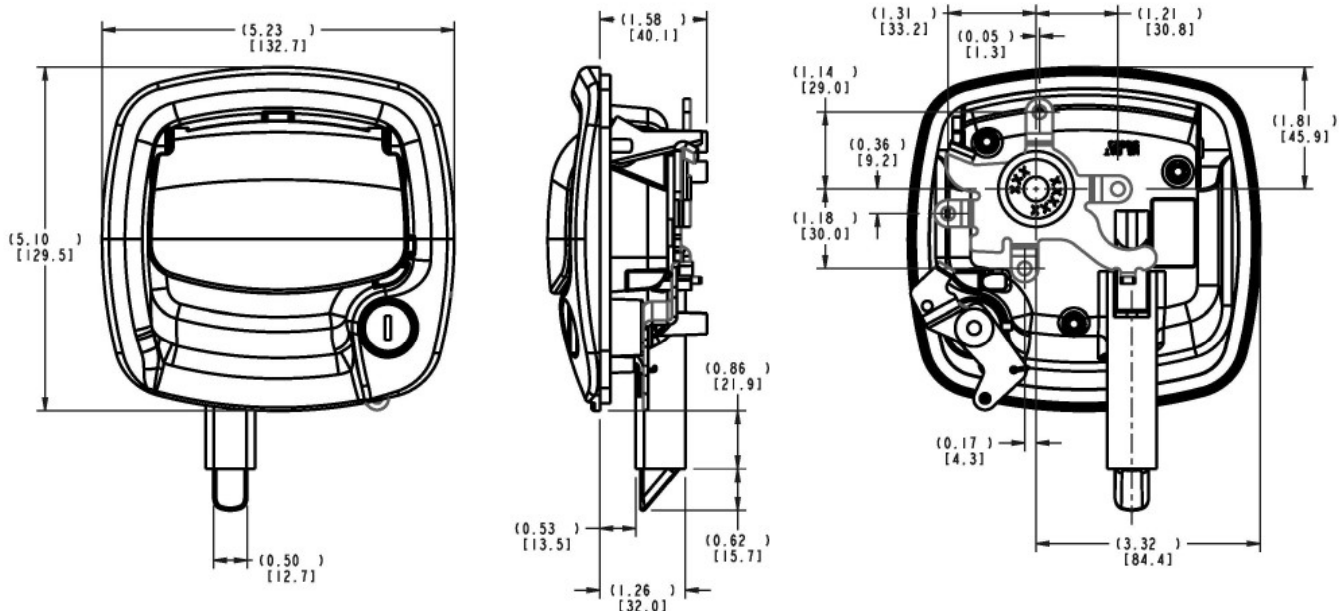


## INSTALLATION:

- Handle is easy to install with (3) #8-32 thread forming fasteners (supplied separately)
- Optional mounting bracket and rod allows the power actuator to mount to the handle for ease of installation
- Supplied with gasket already applied under recess in housing flange for simple, clean installation

U.S. Patent No. 7,232,162

U.S. Design Patent No. D519,823



Handles:

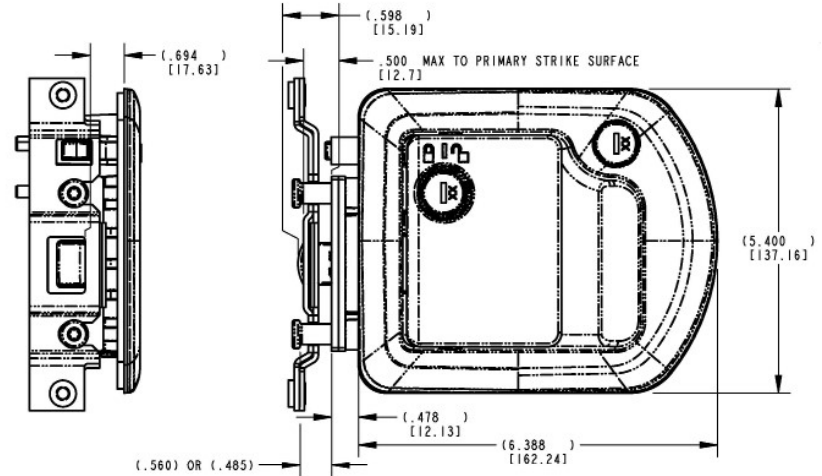
Paddle  
92

All dimensions are for reference only. For more information visit [www.trimarkcorp.com](http://www.trimarkcorp.com)

# 060-1650 Motor Home Entrance Door Hardware

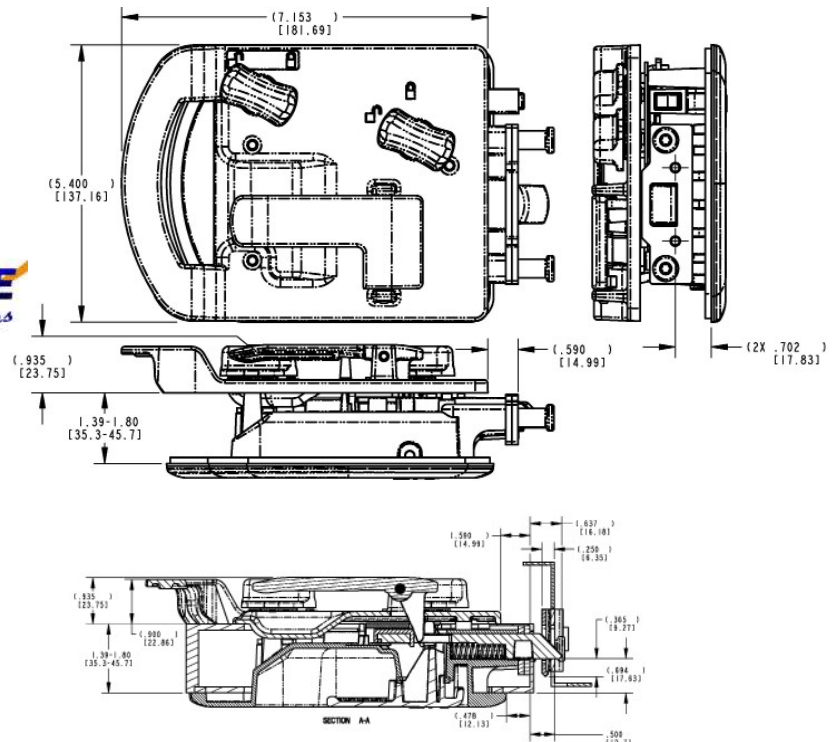
Designed for motor home and fifth wheel trailer entrance doors and is a redesign of our 060-0650 Motor Home Entrance Door Hardware. It features easy installation with through sandwich mounting, a low profile plunger style latch which is compliant to FMVSS 206, a built-in deadbolt for additional security and is power lockable.

- Motor home entrance doors with thickness ranging from 1.39" (35.3mm) to 1.78" (45.2mm)
- Different inside handle assemblies are required to facilitate the range of door thicknesses. Please identify when inquiring
- Fifth-wheel trailers, pull-type trailers, and slide-in campers
- Door requiring resistance to water and dirt infiltration
- Universal applications - either right or left-handed



## FEATURES/BENEFITS:

- Inside release is low profile .940" (23.9mm) to allow for close fitting screen doors
- Paddle can be locked before door is shut
- Paddle is rigid when locked
- Automotive styling
- Comfortable finger access
- Inside assist with open bail for easy closing
- Can be keyed to match other TriMark door products with KeyOne™ Plus for a single-key system, keyed alike or provided non-locking
- Built-in deadbolt eliminates the need for add-on residential type deadbolt (deadbolt option)
- Deadbolt locks into the fully extended position for true deadbolt functioning (deadbolt option)
- Ability to be used with power actuation for locking
- Deadbolt cylinder non-removable when locked for added security
- Two different lengths of load pins available pre-assembled



All dimensions are for reference only. For more information visit [www.trimarkcorp.com](http://www.trimarkcorp.com)

# 060-1650 continued

## AVAILABLE:

- With optional built-in deadbolt
- Master keyed paddle key cylinder
- Without key cylinders for matching entire vehicle cylinders after installation

## FINISH:

- Black powder coated
- Copper-nickel-chrome plated
- Other finishes available upon request

## MATERIAL:

- Housing, inside plates, handles, plunger bolt, deadbolt, locking components including lock knobs: Die cast zinc alloy
- Strike plate: Heat treated and zinc plated steel
- Load pins and plunger end plates: Steel

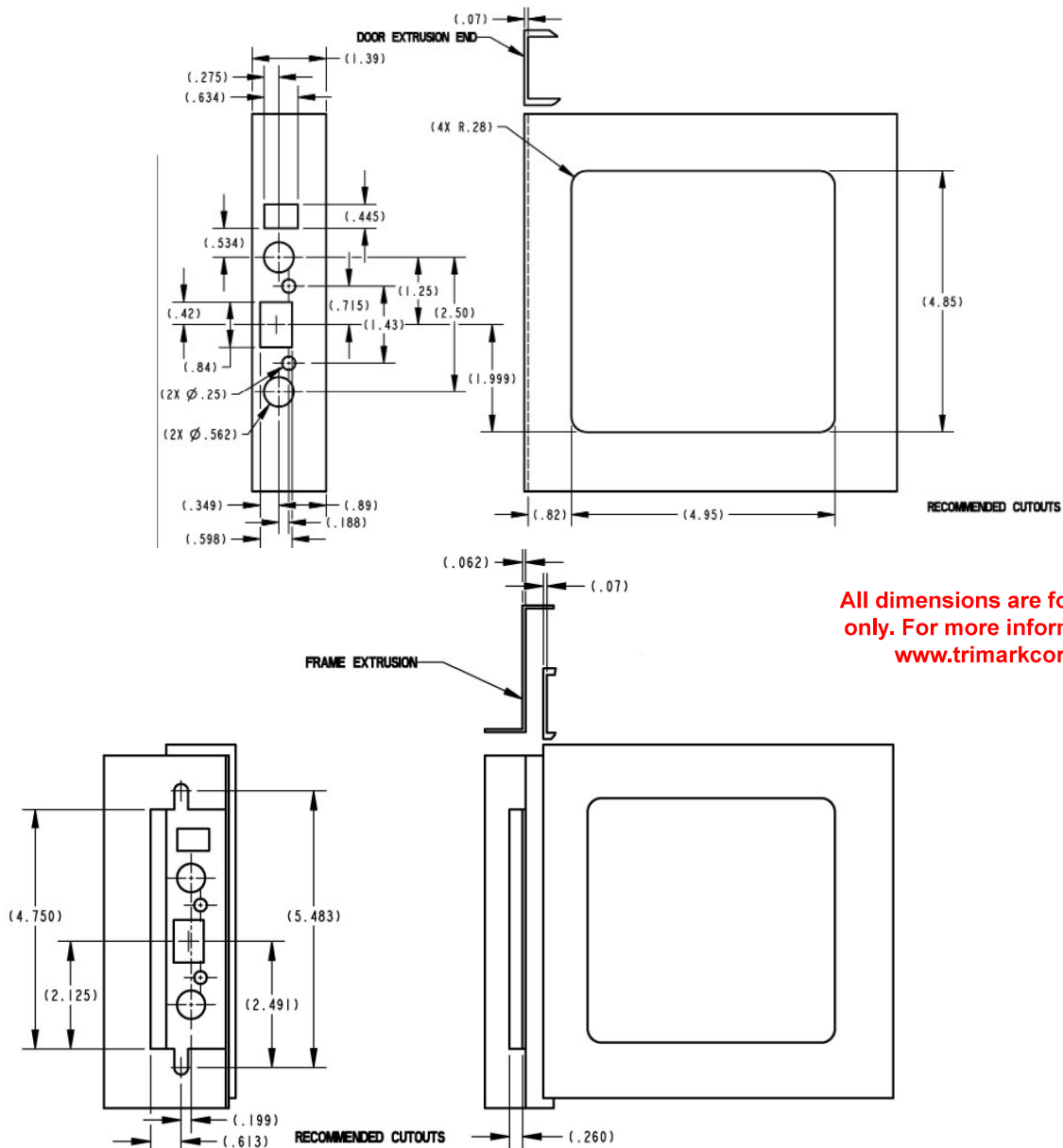
## INSTALLATION:

- #10-24 UNC mounting screws not included. Recommended torque 10 in-lbs. (1.1 N-m)
- 1/4-20 UNC grade 5-type fasteners for strike plate installation recommended
- Supplied with gaskets already installed
- Sandwich mount installation does not require any linkage rods
- Power actuators, power actuation mounting brackets and rods are available for optional power actuation of locks. Please inquire.

U.S. Design Patent No. D674,678 / D676,304

U.S. Patent No. 8,733,139

Note that this 060-1650 Motor Home Entrance Door Hardware System complies with FMVSS 206 (ECE R11) when tested accordance with SAE J839 and that this product meets FMVSS 206 (ECE R11) loads and locking requirements and may be used in FMVSS 206 (ECE R11) applications pending TriMark application approval. Please refer to page 158 for the complete FMVSS 206 (ECE R11) statement.



All dimensions are for reference only. For more information visit [www.trimarkcorp.com](http://www.trimarkcorp.com)

# 100-7100 Caraloc Entrance Door Set

Designed as a complete external and internal system. Specifically designed for baggage and compartment doors for recreational vehicles including motor homes and travel trailer (caravan entry doors).

## FEATURES/BENEFITS:

- Rotating actuation in a clockwise and counter-clockwise direction
- Low profile exterior
- With various configurations to accommodate door thickness (20mm to 36mm)

## AVAILABLE:

- Provided without key cylinders for matching entire vehicle cylinders after installation
  - ◊ WD key codes (72 codes)
- 10mm or 12mm base plates that fit between the inside face of the door and interior latch can be supplied
- Supplied either left or right hand
  - ◊ Inside release rotate up to lock



## MATERIAL:

- Glass filled nylon
- Zinc cast lock cylinder housing

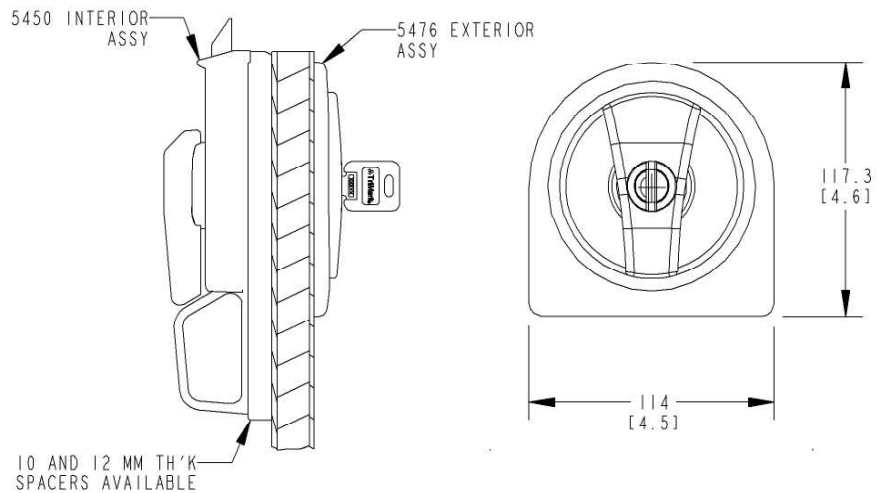
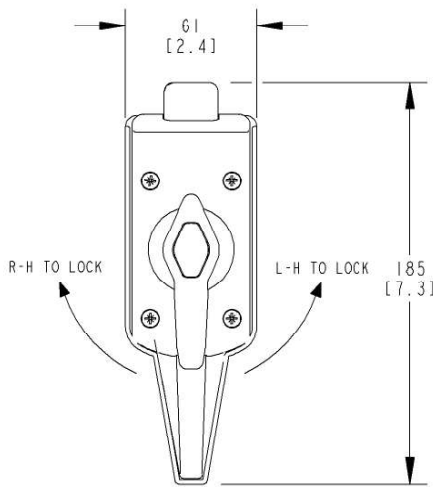
## FINISH:

- Standard black

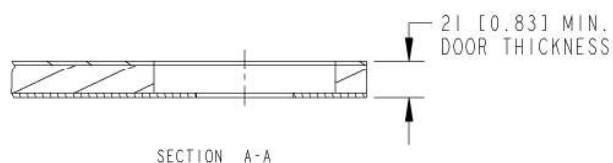
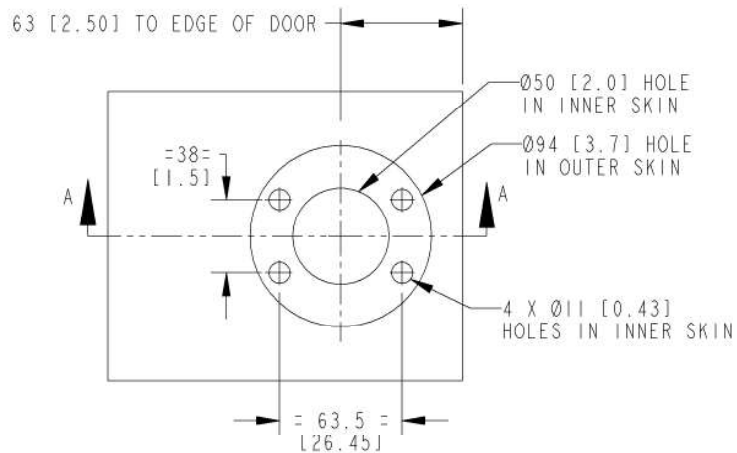
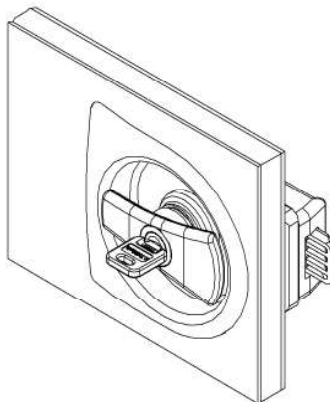
## INSTALLATION:

- Easy to install using provided fixings and gasket
- Recommended mounting fastener torque to be 5.0 N-m (44 lbf-in) maximum

**Caution:** Product does not meet FMVSS 206 (ECE R11) load requirements.



All dimensions are for reference only. For more information visit [www.trimarkcorp.com](http://www.trimarkcorp.com)



**Handles:**  
Paddle  
95



# 020-0700 Flush Pull Handle - Free-Float

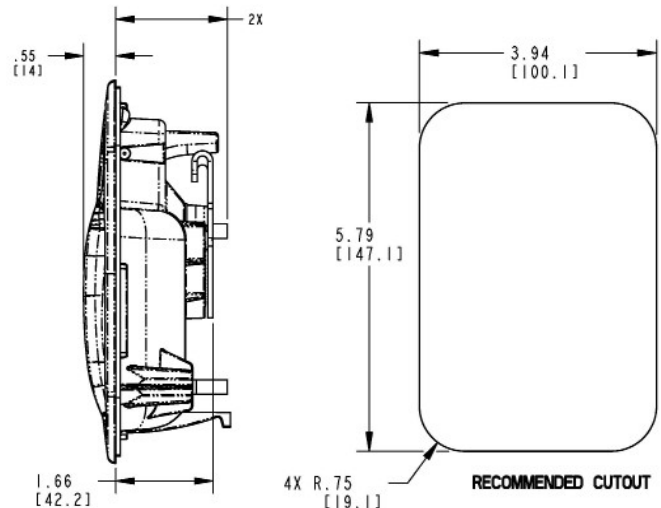
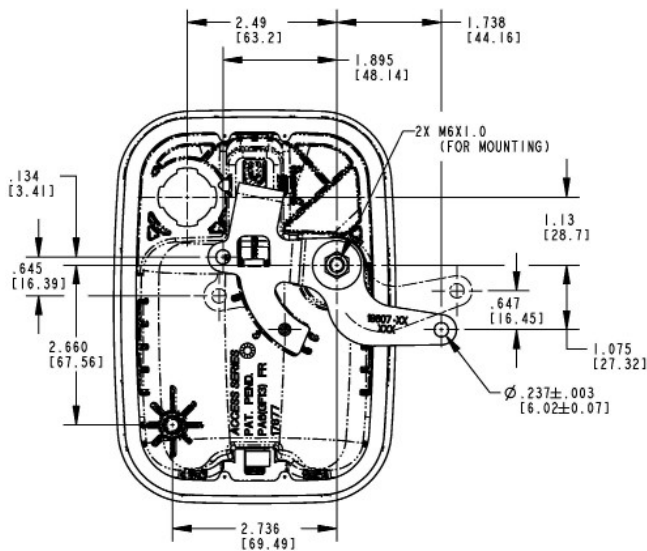
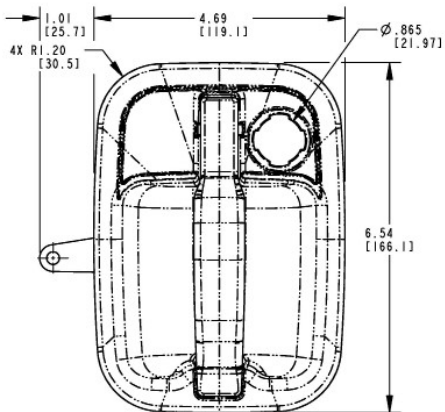
This pull handle was specifically designed for compartment and entrance doors for heavy truck, service truck, ambulance, fire/rescue and off-highway vehicles. It offers ergonomic function and styling, is adaptable for power door lock actuation and has a "free-floating" handle when locked.

- Class 7-8 trucks
- Utility bodies
- Off-highway vehicles (light duty)

## FEATURES/BENEFITS:

- Ergonomic function and styling
- Can be keyed to match common ignition locks (not included - please inquire)
- Paddle is "free-floating" when locked and used with appropriate latch/linking with lock logic
- Adaptable for power door lock actuator
- Interior or exterior applications
- Housing flange and internal gaskets provided for resistance to water and dirt infiltration

All dimensions are for reference only. For more information visit [www.trimarkcorp.com](http://www.trimarkcorp.com)



## AVAILABLE:

- Right and left hand configurations (right hand shown)
- Locking and non-locking

## MATERIAL:

- Housing: Glass reinforced black nylon, brass threaded mounting studs
- Handle: Glass reinforced black nylon
- Pivot plate: Mild steel

## FINISH:

- Black housing, black nylon handle
- Zinc plated clear chromate steel components

## INSTALLATION:

- Easy mounting with (2) M6 nuts (not included)
- Recommended mounting fastener torque 30-40 in-lbs (3.3 - 4.4 N-m)
- Either horizontal or vertical orientation
- Non-handed standard mounting bracket (sold separately)

U.S. Patent No. 6,802,544 / 6,805,388

Note that this 020-0700 Flush Pull Handle complies with FMVSS 206 (ECE R11) when tested accordance with SAE J839 and that this product meets FMVSS 206 (ECE R11) locking requirements and may be used in FMVSS 206 (ECE R11) applications pending TriMark application approval. Please refer to page 158 for the complete FMVSS 206 (ECE R11) statement.



# 020-0750 Flush Mount Pull Handle-Locked Rigid

This flush mount pull handle was specifically designed for compartment and entrance doors for off-highway vehicles. It offers ergonomic function and styling, is adaptable for power door lock actuation and has a "locked-rigid" handle when locked. The design provides for ease of operation by keying alike with other TriMark products with the KeyOne™ Plus lock.



- Light to medium agricultural and construction personnel and compartment doors



## FEATURES/BENEFITS:

- Ergonomic function and styling
- KeyOne™ Plus lock cylinder can be keyed alike with most single and reversible key systems
- Paddle is "locked rigid" when locked
- Adaptable for power door lock actuator
- Housing flange and internal gaskets provided for resistance to water and dirt infiltration

## AVAILABLE:

- Right and left hand configuration
- Can be keyed alike with most single and reversible key systems
- Locking version

## MATERIAL:

- Housing: Glass reinforced black nylon, brass threaded mounting studs
- Handle: Glass reinforced black nylon
- Pivot plate: Mild steel

## FINISH:

- Black housing, black nylon handle
- Zinc plated clear chromate steel components

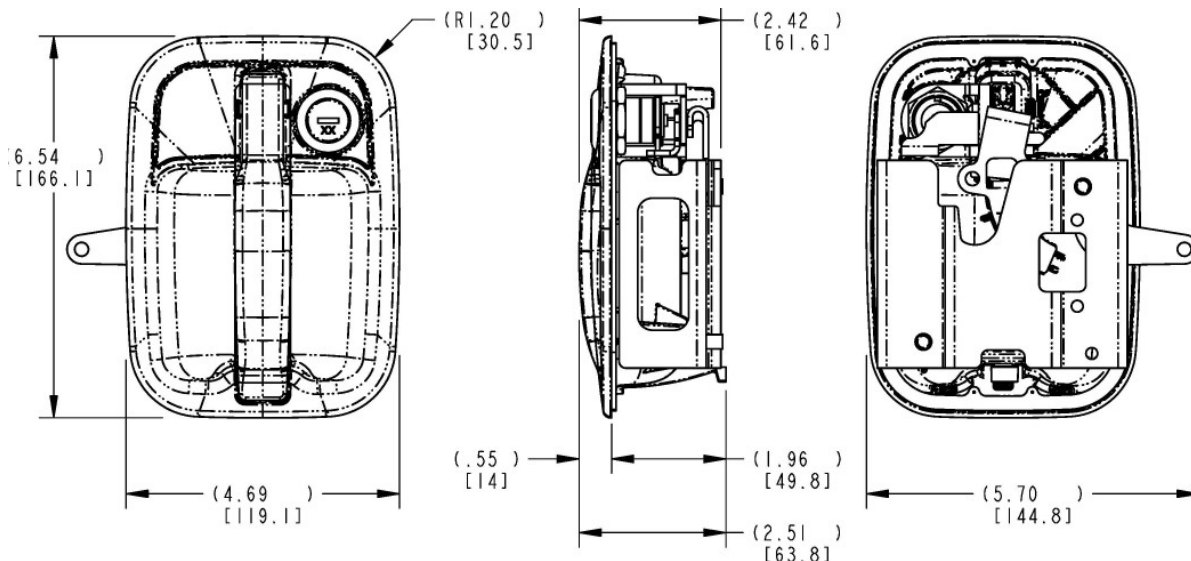
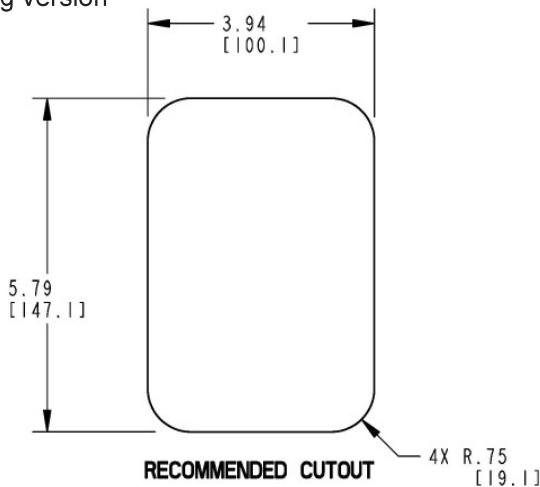
## INSTALLATION:

- Easy mounting with (2) M6 nuts (not included)
- Recommended mounting fastener torque 30-40 in-lbs (3.3 - 4.4 N-m)
- Either horizontal or vertical orientation
- Non-handed standard mounting bracket (sold separately)

U.S. Patent No. 6,802,544 / 6,805,388

Caution: Product does not meet the locking requirements for FMVSS 206 (ECE R11).

All dimensions are for reference only. For more information visit [www.trimarkcorp.com](http://www.trimarkcorp.com)



Handles:  
Pull Type  
97

# 020-0800 Surface Mounted Pull Handle

Designed specifically for off-highway vehicle applications that require a surface mounted exterior handle. This product allows greater ease of operation (ergonomics) than conventional push button or paddle handles and offers robust construction and rugged styling for a very cost effective price in a new handle category.

- Medium to heavy weight doors for off-highway vehicle applications
- Doors with high door seal loads or applications where a surface mounted pull type handle is more desirable than a push button or paddle handle

## FEATURES/BENEFITS:

- Full gloved hand clearance
- Exterior surface mount along with the configuration of the actuator allows for mounting in any orientation
- Provides for greater ease of operation (ergonomics) than conventional push button or paddle handles
- Readily adaptable to a variety of door thickness with adjustable connecting link assembly
- Handle is rigid when locked

## MATERIAL:

- Handle: Glass reinforced nylon
- Threaded inserts: Brass

All dimensions are for reference only. For more information visit [www.trimarkcorp.com](http://www.trimarkcorp.com)



## AVAILABLE:

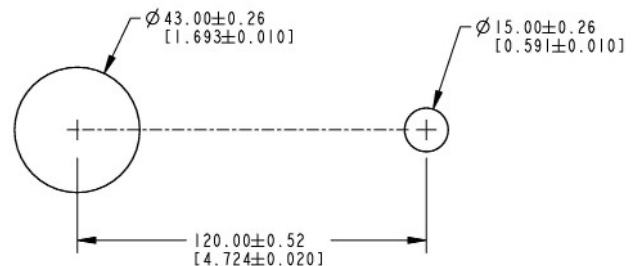
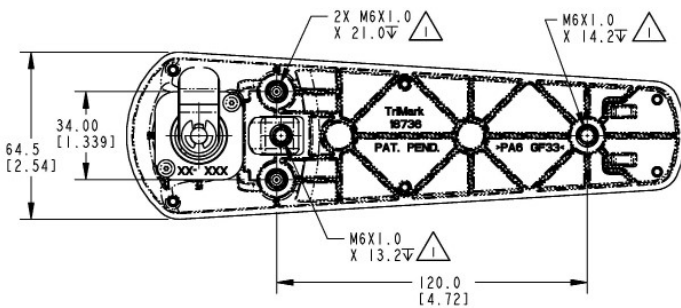
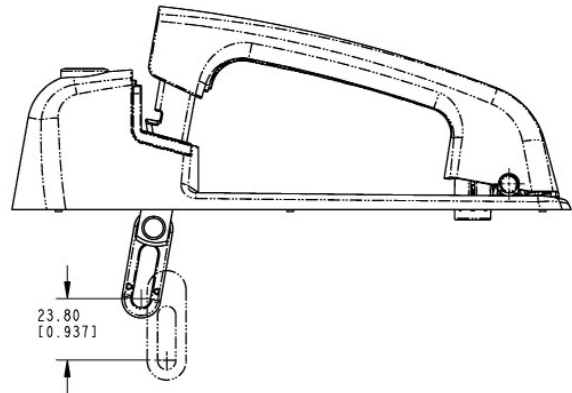
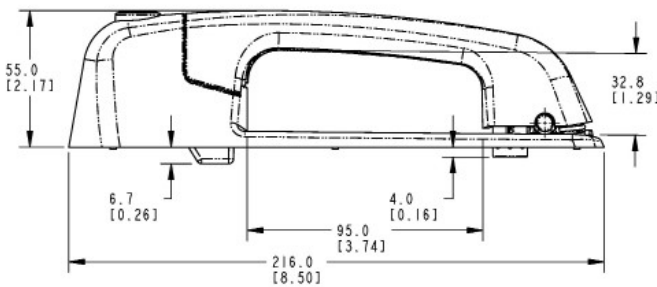
- Can be keyed alike with most single and reversible key systems
- With gaskets and spacers to facilitate mounting and provide resistance to water and dirt infiltration
- Connecting link assembly

## INSTALLATION:

- Mounts against glass with only two holes or steel with conventional mounting (see recommended hole pattern)
- Installed with (3) M6 x 1.0 bolts (not included)
- Recommended mounting fastener torque to be 5.6-6.7 N-m (50-59 lbf-in)

U.S. Design Patent No. D506,377

Caution: Product does not meet the locking requirements for FMVSS 206 (ECE R11).



Recommended Glass Mounting Hole Pattern

# 020-0850 e-LOCK Pull Handle

TriMarks' 020-0850 e-LOCK Pull Handle for off-road applications allows power locking/unlocking via a switch, remote RF FOB or keypad. Based on the proven 020-0800, this robust pull handle brings a new automotive function and convenience to your cabs and enclosures.



- Medium to heavy-duty agricultural and construction personnel doors
- Off-highway vehicle applications that require a direct release surface mounted exterior pull handle

## FEATURES/BENEFITS:

- Provides for greater ease of operation (ergonomics) than conventional push button or paddle handles; includes gas-assist molded handle
- Provides the ability to remotely lock the exterior pull handle
- Handle is rigid when locked
- KeyOne™ Plus lock cylinder can be keyed alike with most single and reversible key systems
- PTC overload to protect motor against excessive heating



## MATERIAL:

- Handle and base: Glass reinforced nylon
- Threaded inserts: Brass

## INSTALLATION:

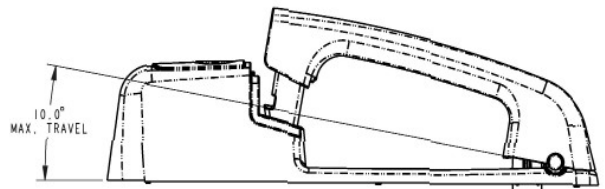
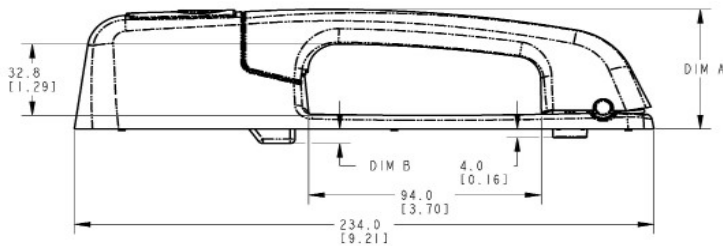
- Same mounting pattern as 020-0800 Pull Handle - mounts against glass with only two holes or steel with conventional mounting
- Installed with (3) M6 x 1.0 bolts (not included)
- Recommended mounting fastener torque to be 5.6-6.7 N-m (50-59 lbf-in)
- Wire length is 200mm
- Connector customization is available

## AVAILABLE:

- With perimeter gasket and spacers to facilitate mounting and provide resistance to water and dirt infiltration
- Non-power locking version

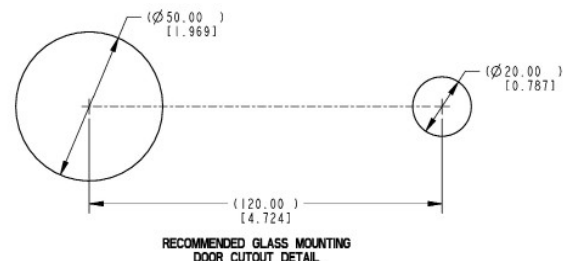
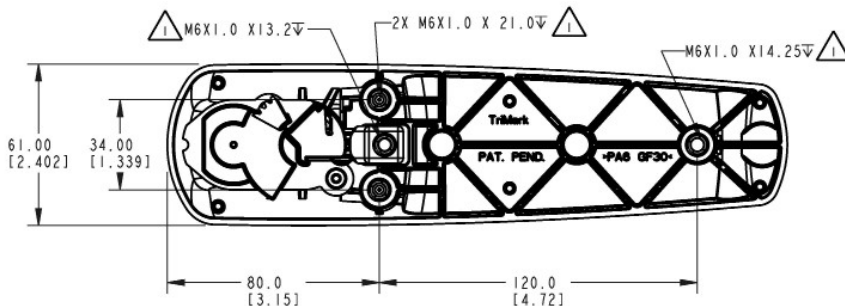
U.S. Patent No. 7,819,440

Caution: Product does not meet the locking requirements for FMVSS 206 (ECE R11).



BASE OPTION	DIM A	DIM B
STD (HEIGHT OPTION 1)	55.0 [2.17]	6.7 [0.26]
THICK (HEIGHT OPTION 2)	61.1 [2.41]	0.6 [0.02]

All dimensions are for reference only. For more information visit [www.trimarkcorp.com](http://www.trimarkcorp.com)



NOTES: UNLESS OTHERWISE SPECIFIED;

△ RECOMMENDED APPLICATION TORQUE TO BE 5.6-6.7 N-m [50-59 IN-LB].

Handles:  
Pull Type  
99

# 020-0870 Power Locking Pull Handle With Capacitive Sensor - PKE

The 020-0870 Power Locking Pull Handle with Capacitive Sensor for off-road applications, allows use with TriMark's Gen 3 e-ASK Passive Keyless Entry System featuring integrated capacitive sensor, PKE board and power lock/unlocking motor drive. Based on the proven 020-0850, this robust pull handle brings the latest automotive functionality and convenience to your cab enclosures.



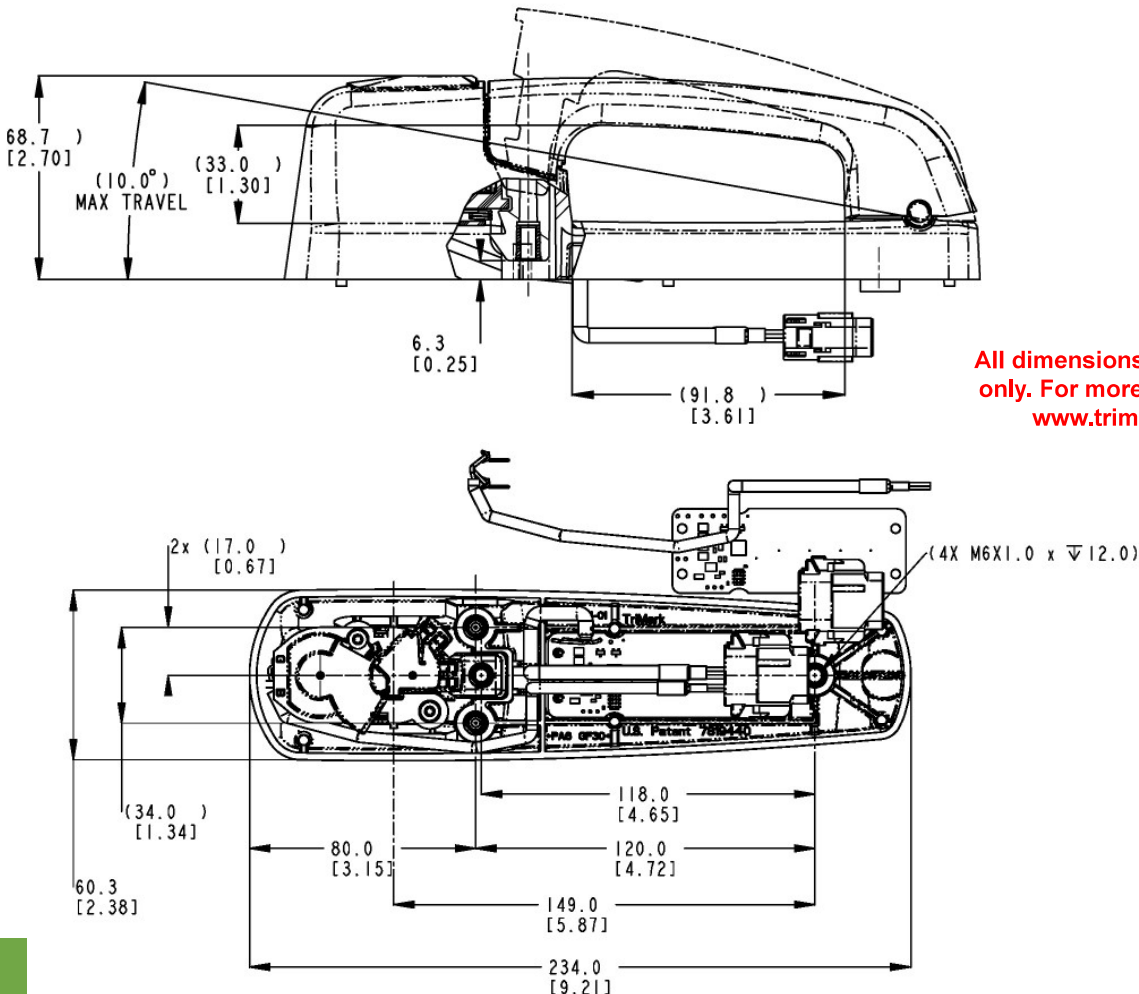
## DESIGNED FOR:

- Medium to heavy-duty agricultural and construction personnel doors
- Off-highway vehicle applications that require a direct release surface mounted exterior pull handle and "state of the art" Passive Keyless Entry

## FEATURES/BENEFITS:

- Extends the product range of TriMark's 020-0850 e-LOCK Pull Handle with an Integrated Capacitive Sensor and Passive Keyless Entry PCB board into the base. This minimizes footprint profile of handle to maximize visibility to the user.

- Passive Keyless Entry (PKE) provides for "hands free" unlocking
  - When the user's hand enters the field under the handle portion, the system wakes up
  - This activity energizes the exterior antenna. FOBs in range will respond with their serial numbers contained in a data packet sent via 433 MHz
  - If the FOBs respond with serial numbers that match an authorized list, the control module will pulse the unlock motor for ½ second to unlock the handle



All dimensions are for reference only. For more information visit [www.trimarkcorp.com](http://www.trimarkcorp.com)



# 020-0870 continued

- Powerlock/unlock motor integrated into handle to reduce assembly and space needs of vehicle
- Maintains lock cylinder for mechanical override in case of power disruption
- TriMark KeyOne™ Plus for “One Key - One Vehicle” convenience
- Readily adaptable to a variety of door thickness with adjustable connecting linkage assembly
- PTC overload protects motor against excessive heating
- Best in class features, flexibility and performance all in one package allowing fewer system configurations



## INSTALLATION:

- Same mounting pattern as 020-0800 and 020-0850 Pull Handles - mounts against glass with only two holes or steel with conventional mounting
- Installed with (3) M6 X 1.0 bolts (not included)
- Recommended mounting fastener torque to be 5.6-6.7 N-m (50-59 lbf-in)

U.S. Patent No. 7,819,440  
Other Patents Pending

**Caution:** Product does not meet the locking requirements for FMVSS 206 (ECE R11).

## AVAILABLE:

- With perimeter gasket and spacers to facilitate mounting and provide resistance to water and dirt infiltration
- Non-power locking version
- Standard Deutsch sealed connector - 8 pin socket plug. (Connector customizations are available)

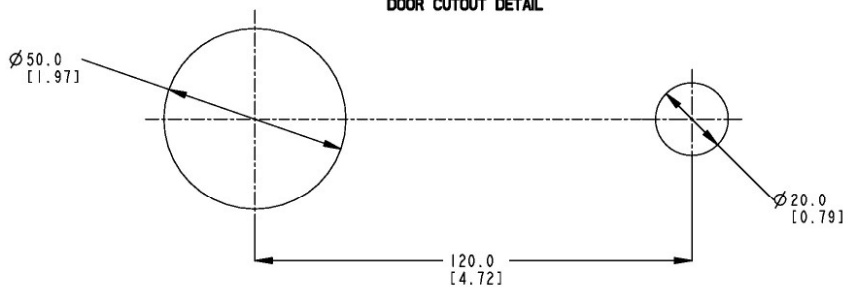
## MATERIAL:

- Handle and base: Glass reinforced nylon
- Threaded inserts: Brass
- Potted (polyurethane resin) PCB board ensures environmental protection and durability

All dimensions are for reference only. For more information visit [www.trimarkcorp.com](http://www.trimarkcorp.com)



RECOMMENDED GLASS MOUNTING  
DOOR CUTOUT DETAIL



Handles:  
Pull Type  
101



# 020-1100 Remote Pull Handle

This product is designed for entrance doors on RV and specialty vehicles where it is desirable to have the exterior handle remotely mounted from the inside release and rotary latch. It features a large automotive styled exterior pull handle and latch mechanism and is adaptable for power locking.

- Entrance doors with thickness of 2.00" (50.8mm) minimum

## FEATURES/BENEFITS:

- Automotive style pull handle and latch mechanism
- Smooth opening/closing action
- Comfortable finger access
- Adaptable for power door lock actuation
- Non-handed design - the pull handle can be mounted in vertical or horizontal orientations
- Molded gasket for flange of housing and paddle leg provides resistance to water infiltration

## AVAILABLE:

- Master keyed lock key cylinder
- Lock can be keyed to match other TriMark door products with KeyOne™ Plus for a single-key system, keyed alike or provided non-locking



## INSTALLATION:

- Easy to install with (4) #8-32 UNC mounting screws (not included)
- Recommended mounting torque 30 in-lbs (3.4 N-m)

## MATERIAL:

- Sturdy die cast zinc alloy paddle and housing
- Molded gaskets (included)

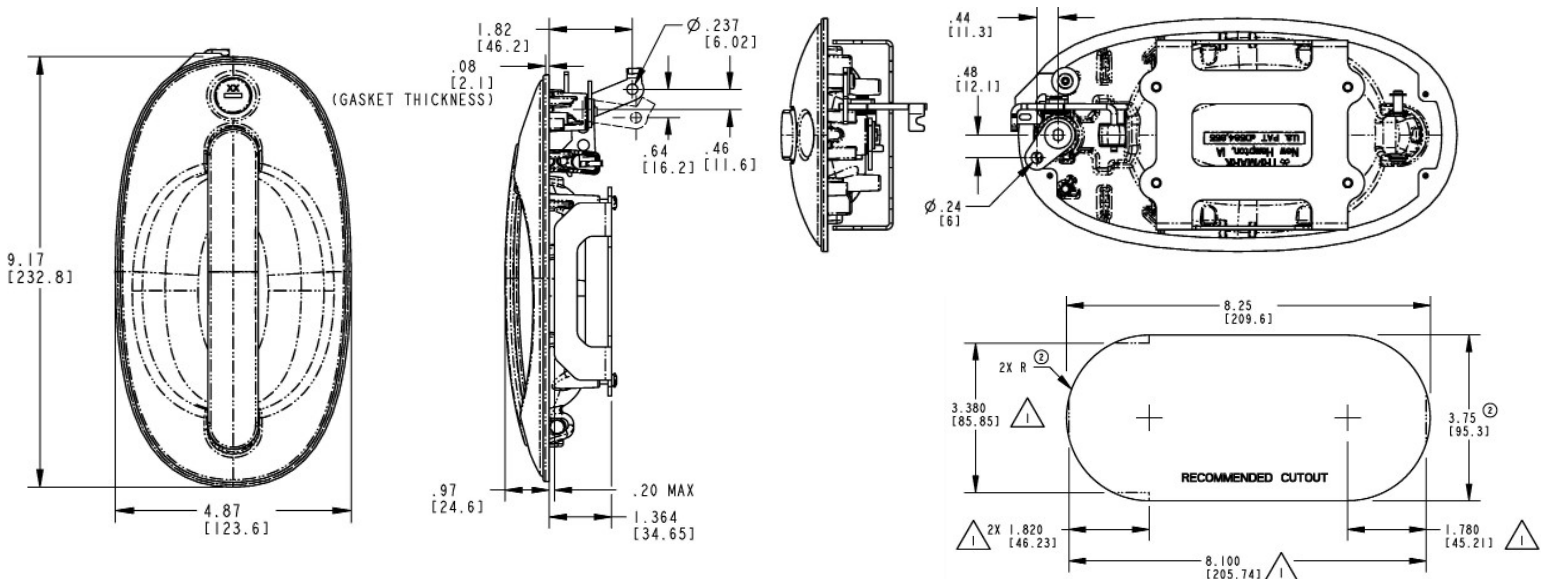
## FINISH:

- Black powder coated housing with black powder coated or chrome plated handle
- Optional chrome plated housing

U.S. Design Patent No. D564,855

Note that this 020-1100 Remote Pull Handle complies with FMVSS 206 (ECE R11) when tested accordance with SAE J839 and that this product meets FMVSS 206 (ECE R11) locking requirements and may be used in FMVSS 206 (ECE R11) applications pending TriMark application approval. Please refer to page 158 for the complete FMVSS 206 (ECE R11) statement.

All dimensions are for reference only. For more information visit [www.trimarkcorp.com](http://www.trimarkcorp.com)



# 020-1150 Two Point Free Float Pull Handle

This product is designed for entrance doors on RV and specialty vehicles where it is desirable to have the exterior handle remotely mounted from the inside release and rotary latch. It features a large automotive styled exterior pull handle and is adaptable for power locking.



## DESIGNED FOR:

- Entrance and compartment doors with thickness of 2.00" (50.8mm) minimum

## FEATURES/BENEFITS:

- Automotive style pull handle and latch mechanism
- Smooth opening/closing action
- Comfortable finger access
- Adaptable for power door lock actuation
- Non-handed design
- The pull handle can be mounted in vertical or horizontal orientation
- Molded gasket for flange of housing and paddle leg provides resistance to water infiltration

## AVAILABLE:

- Master keyed lock key cylinder
- Lock can be keyed to match other TriMark door products with KeyOne™ Plus for a single-key system, keyed alike or provided non-locking



## INSTALLATION:

- Easy to install with (4) #8-32 UNC mounting screws (not included)
- Recommended mounting torque 30 in-lbs (3.4 N-m)

## FINISH:

- Black powder coated housing with black powder coated paddle or chrome plated paddle
- Optional chrome plated housing

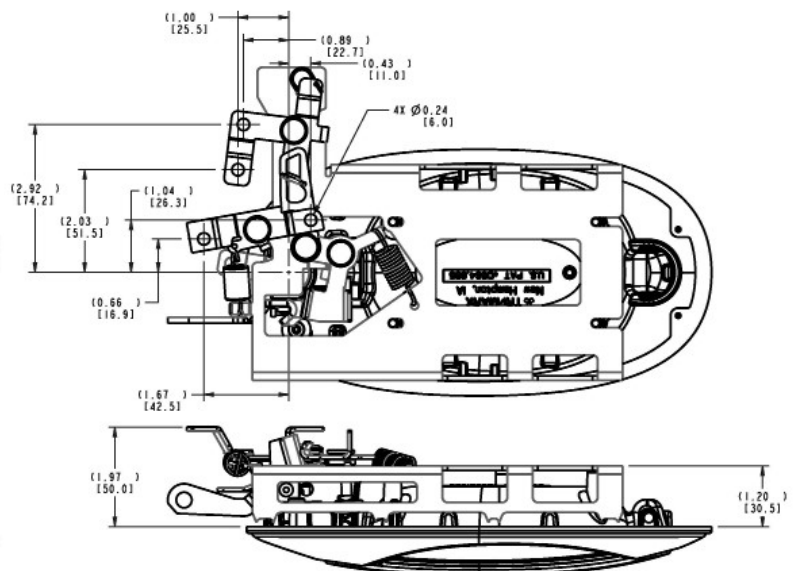
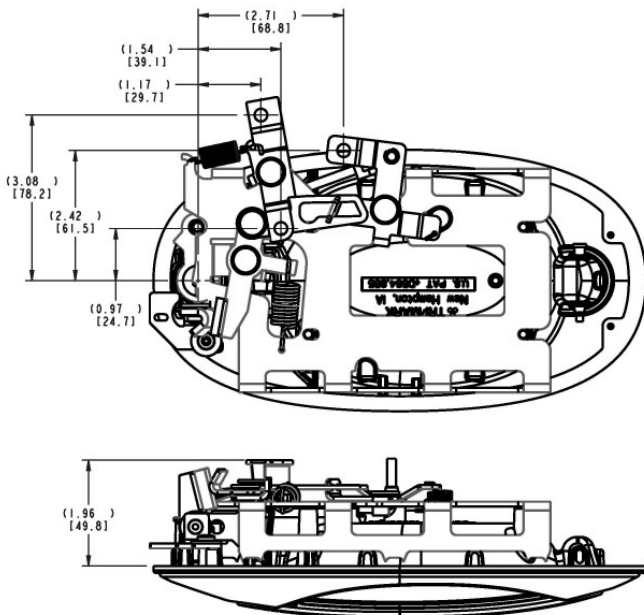
## MATERIAL:

- Sturdy die cast zinc alloy paddle and housing
- Molded gaskets (included)

U.S. Design Patent No. D564,855

Note that this 020-1150 Two-Point Free Float Pull Handle complies with FMVSS 206 (ECE R11) when tested accordance with SAE J839 and that this product meets FMVSS 206 (ECE R11) locking requirements and may be used in FMVSS 206 (ECE R11) applications pending TriMark application approval. Please refer to page 158 for the complete FMVSS 206 (ECE R11) statement.

All dimensions are for reference only. For more information visit [www.trimarkcorp.com](http://www.trimarkcorp.com)



# 020-7100 Flush Pull Handle

Recessed pull handle designed for personal and compartment doors for light to medium duty in agricultural and construction applications.

## FEATURES/BENEFITS:

- Ergonomic function and styling
- Variants for direct and remote release operations available in push and pull function (please inquire)
- Recessed profile with generous hand clearance
- 360° actuation movement to facilitate fitting in any orientation
- Supplied with mounting gasket
- Various key options available
- Handle free floats when locked

## AVAILABLE:

- Several options are available for direct and remote release operation



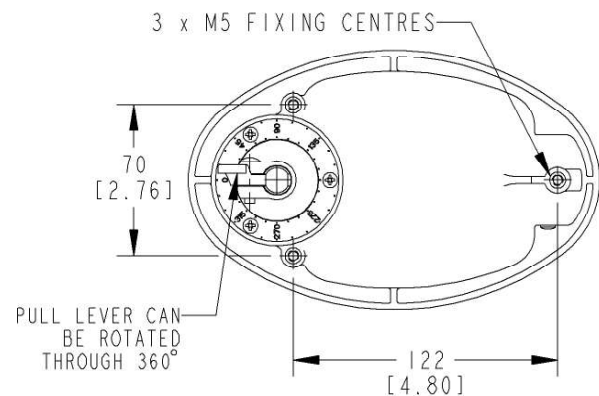
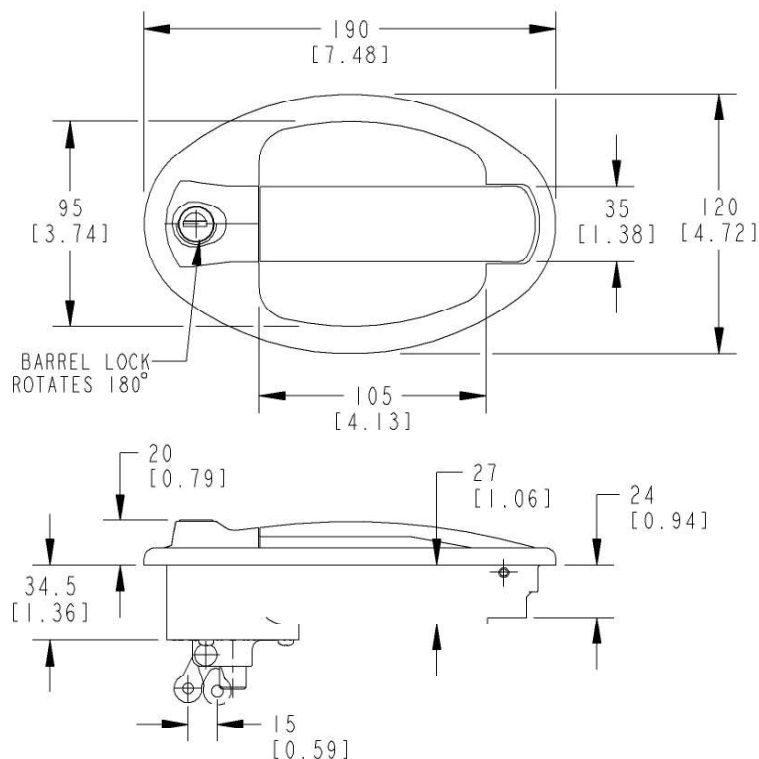
## MATERIAL/FINISH:

- Housing: UV stabilized nylon, brass mounting inserts
- Handle: UV stabilized nylon - gas injection

## INSTALLATION:

- Easy to install
- (3) M5 brass insert mounting for stability
- Recommended mounting fastener torque to be 2.0 N-m (18 lbf-in) maximum

**Caution:** Product does not meet the locking requirements for FMVSS 206 (ECE R11).



All dimensions are for reference only. For more information visit [www.trimarkcorp.com](http://www.trimarkcorp.com)

# 040-0300 Non-Metallic Push Button Handle

This handle was specifically designed for off-highway vehicle applications that require a surface mounted exterior push button handle. It offers robust construction and ergonomic function in a rugged engineering grade plastic.



- Off-highway applications - construction, mining, agricultural
- Outside latch release

## FEATURES/BENEFITS:

- Frictionless push button seal
- Flow through self-cleaning design
- Readily adaptable to a variety of door thicknesses with an adjustable 1/4" diameter capscrew
- Mounts against glass with only two holes
- Available keyed alike or keyed random

## MATERIAL:

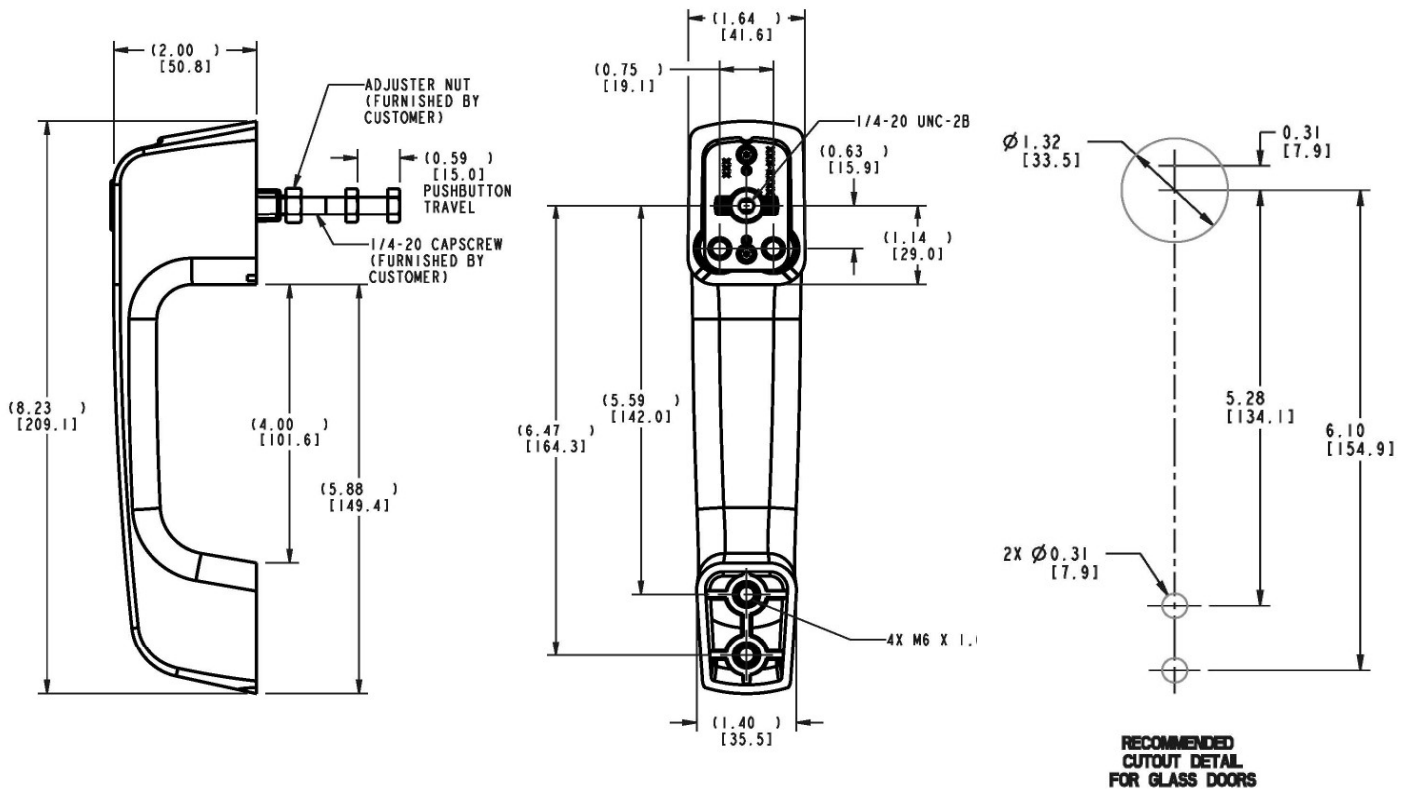
- Glass reinforced nylon
- Brass threaded inserts

## INSTALLATION:

- Installed with (3) M6 x 1 bolts (not included)
- Recommended mounting fastener torque to be 5.6-6.7 N-m (50-59 lbf-in)

All dimensions are for reference only. For more information visit [www.trimarkcorp.com](http://www.trimarkcorp.com)

**Caution:** Product does not meet the locking requirements for FMVSS 206 (ECE R11).



# 040-0600 TriMount Push Button Handle

The 040-0600 TriMount Push Button Handle was specifically designed for off-highway vehicle applications that require a surface mounted exterior push button handle with 120mm or 163mm mounting pattern. It retrofits with most European push button handles and offers robust construction, ergonomic function and styling for a very cost effective price.

## FEATURES/BENEFITS:

- Universal mounting is available in three different mounting configurations: (2) bolt 120mm (4.72"), (3) bolt 120mm (4.72") and (2) bolt 163mm (6.42") mounting
- Frictionless push button seal
- Readily adaptable to a variety of door thickness with an adjustable bolt and nut
- Full gloved hand clearance
- 15.88mm (.625") button travel
- Easy to operate (ergonomics)

## MATERIAL:

- Handle: Glass reinforced nylon



## AVAILABLE:

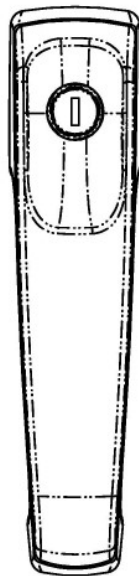
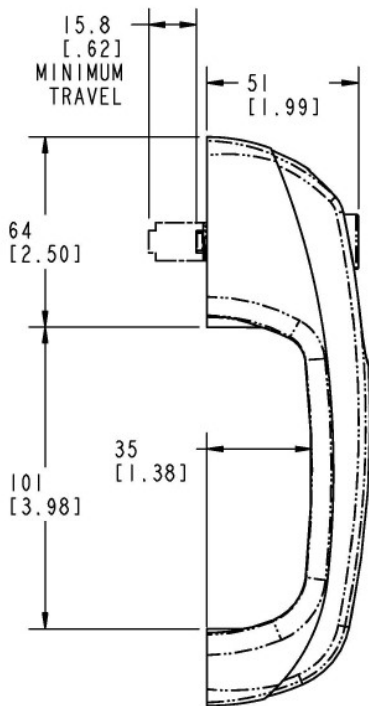
- Can be keyed alike with most single and reversible key systems or non-locking configurations
- Locked rigid or free-floating versions
- With bezels or gasket sets to facilitate mounting and provide resistance to water and dirt infiltration (sold separately)

## INSTALLATION:

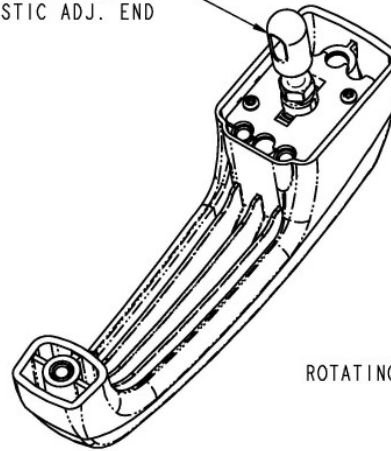
- Installed with (2 or 3) M6 x 1.0 bolts (not included)
- Mounts against glass with only two holes
- Recommended mounting fastener torque to be 5.6-6.7 N-m (50-59 lbf-in)

U.S. Design Patent No. D461,391

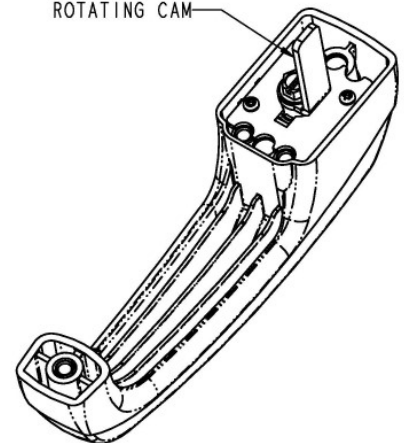
**Caution:** Product does not meet the locking requirements for FMVSS 206 (ECE R11).



ADJUSTABLE BOLT, NUT AND PLASTIC ADJ. END



ROTATING CAM



All dimensions are for reference only. For more information visit [www.trimarkcorp.com](http://www.trimarkcorp.com)



# 040-0700 Lift and Latch Handle

The 040-0700 Lift and Latch Handle is designed to operate on back hoe loader and excavator vertical opening windows for full unobstructed vision. Latching is provided in the 'fully open' or overhead position, and in the 'closed' front latched position. This integrated latching and handle solution features full gloved hand clearance, one-touch action release and slam action retention providing safe and secure operation.

- Medium to heavy-duty on-highway vehicle vertical windows where movement up and over is desired

## FEATURES/BENEFITS:

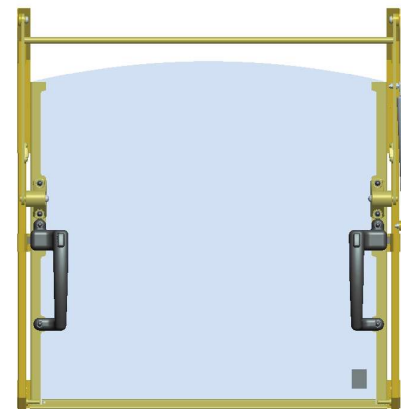
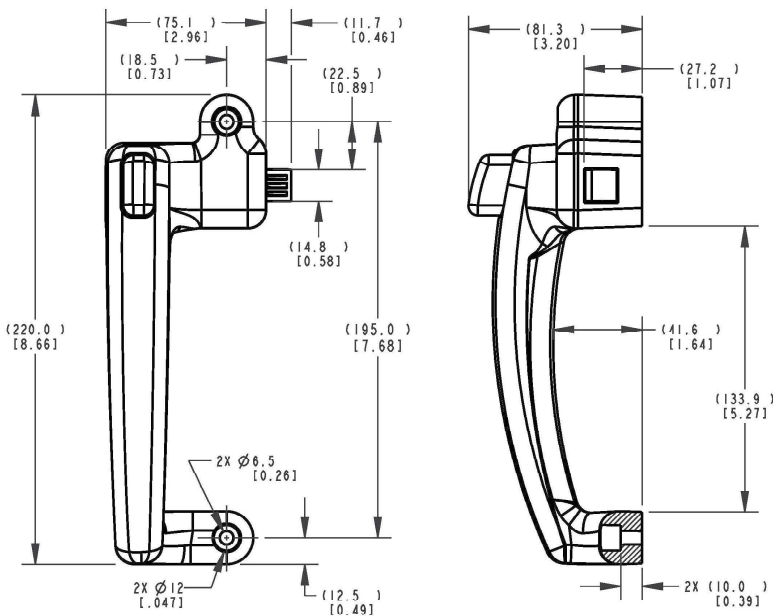
- Easy to operate (ergonomics), operator handle is gas injected which gives automotive feel and appearance
- 12mm (.47") plunger travel provides secure engagement into window tracks
- Right and left hand configuration is sold as a pair
- Manufactured in injection molded engineered plastic to save weight
- Lower cost compared to zinc die cast versions

## MATERIAL:

- Handle/Plunger: Glass reinforced nylon

## INSTALLATION:

- Push button handle with 195mm (7.68") mounting pattern - retrofits with some European up and over handles
- Installs easily with (4) M6 mounting fasteners (not included)



All dimensions are for reference only. For more information visit [www.trimarkcorp.com](http://www.trimarkcorp.com)

Handles:  
Push Button  
107

# 040-1400 Push Button Center Control

This handle was designed for toppers, lift-gate and baggage doors and features a push button actuation and a two point bellcrank linkage. Installation is easy with either a threaded panel nut or spring clip.

- Door thickness up to 1/4" (6.35mm)

## FEATURES/BENEFITS:

- Push button actuation versus typical twist action
- Durable and weather resistant construction
- Ergonomically shaped finger pull
- Housing flange gasket, push button o-ring and shuttered keyplug for reducing water and dirt infiltration
- Bypass lock mechanism allows push button to free-travel when locked for added security
- Lock can be keyed to match other TriMark door products with KeyOne™ Plus for a single-key system, keyed alike or provided non-locking



## INSTALLATION:

- 1-1/8" (28.6mm) panel nut to secure escutcheon to the door
- Spring clip to attach linkage to escutcheon

## MATERIAL:

- Housing, push button and mounting nut: Die cast zinc



## FINISH:

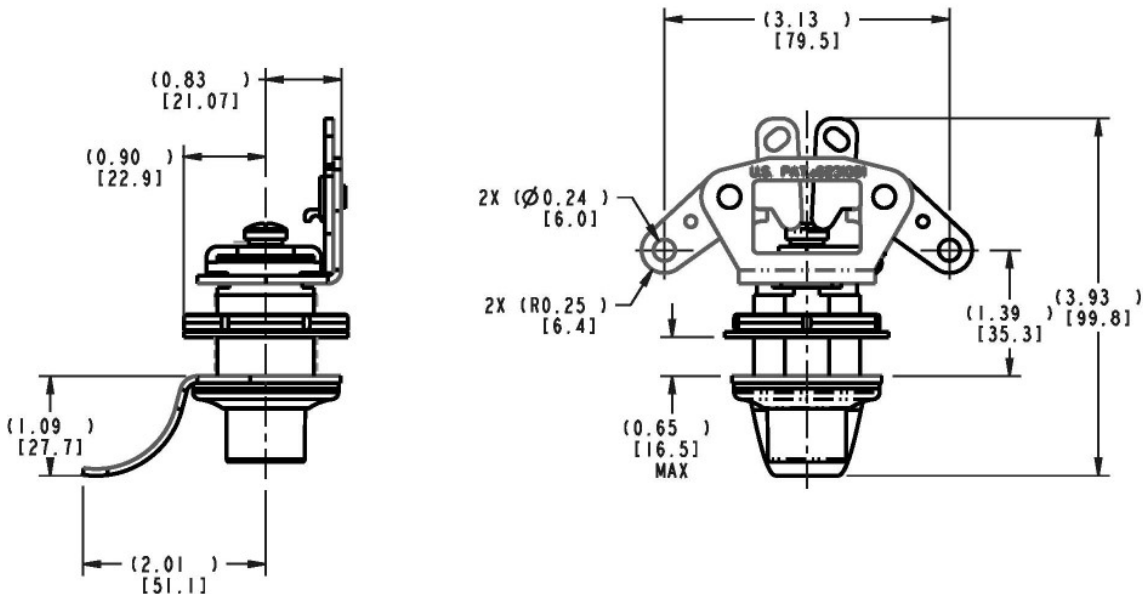
- Escutcheon and finger pull: Black powder coated
- Push button: Buffed chrome or black powder coated
- Steel components: Zinc plated with chromate conversion coating

## AVAILABLE:

- Custom finger pulls (please inquire)
- Optional anti-spin washer
- Keyed random. Over 50 key codes available
- Without bellcrank linkage as stand alone push button
- Can be keyed alike with most single and reversible key systems

U.S. Patent No. 6,231,091

All dimensions are for reference only. For more information visit [www.trimarkcorp.com](http://www.trimarkcorp.com)



# 040-7100 Push Button Handle - Economy

This exterior push button handle is designed for off-highway vehicle applications that require a surface mounted exterior push button handle

## FEATURES/BENEFITS:

- (2) bolt 120mm (4.72") mounting
- Readily adaptable to a variety of door thickness using various cams
- Suitable for mounting to glass, steel and composite surfaces
- 12mm (.47") button travel
- Easy to operate

## AVAILABLE:

- Can be keyed alike with most single and reversible key systems or non-locking configurations
- Locked rigid or free-floating versions
- Variety of cam options

## MATERIAL:

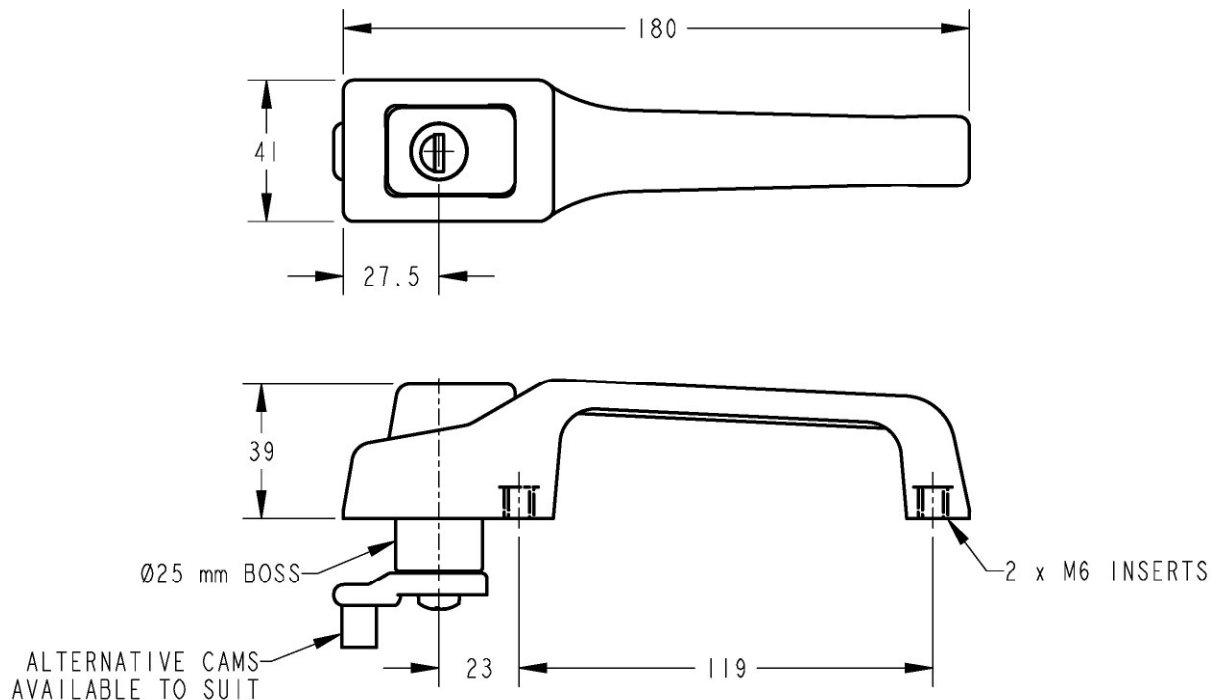
- Handle/Button: Glass reinforced nylon
- Brass threaded M6 inserts

## INSTALLATION:

- Installed with (2) M6 x 1.0 bolts (not included)
- Mounts against glass with only two holes
- Available with mounting gaskets
- Recommended mounting fastener torque to be 6-8 N-m (50-59 lbf-in)

All dimensions are for reference only. For more information visit [www.trimarkcorp.com](http://www.trimarkcorp.com)

Caution: Product does not meet the locking requirements for FMVSS 206 (ECE R11).



# 040-7200 Push Button Handle - Flat Style

This push button handle is designed for off-highway vehicle applications that require a surface mounted exterior push button handle.

## FEATURES/BENEFITS:

- (2 or 3) bolt 120mm (4.72") mounting
- Readily adaptable to a variety of door thickness using various cams
- Suitable for mounting to glass, steel and composite surfaces
- 12mm (.47") button travel
- Incorporates push button thumb shield
- Easy to operate

## AVAILABLE:

- Can be keyed alike with most single and reversible key systems or non-locking configurations
- Free-float locking
- Variety of cam options

## MATERIAL:

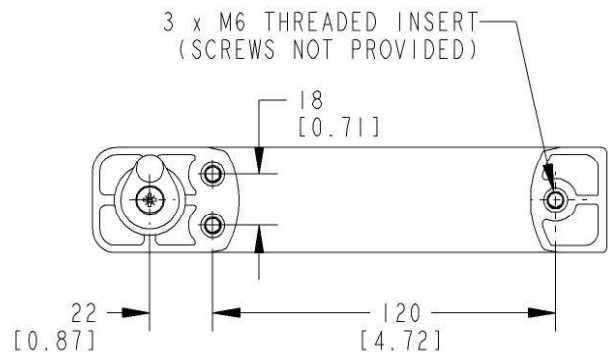
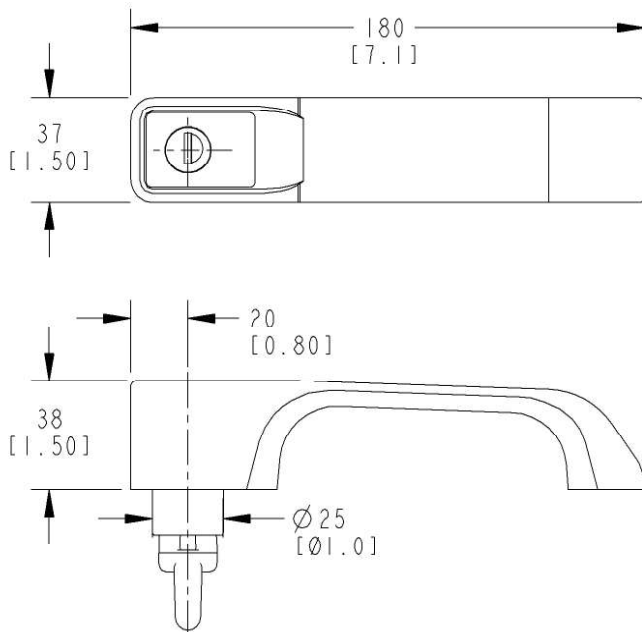
- Handle/Button: Glass reinforced nylon
- Brass threaded M6 inserts



## INSTALLATION:

- Installed with (2 or 3) M6 X 1.0 bolts (not included)
- Mounts against glass with only two holes
- Available with mounting gaskets
- Recommended mounting fastener torque to be 6-8 N-m (50-59 lbf-in)

**Caution:** Product does not meet the locking requirements for FMVSS 206 (ECE R11).



**All dimensions are for reference only. For more information visit [www.trimarkcorp.com](http://www.trimarkcorp.com)**

# 040-7300 Push Button Handle - Water Resistant

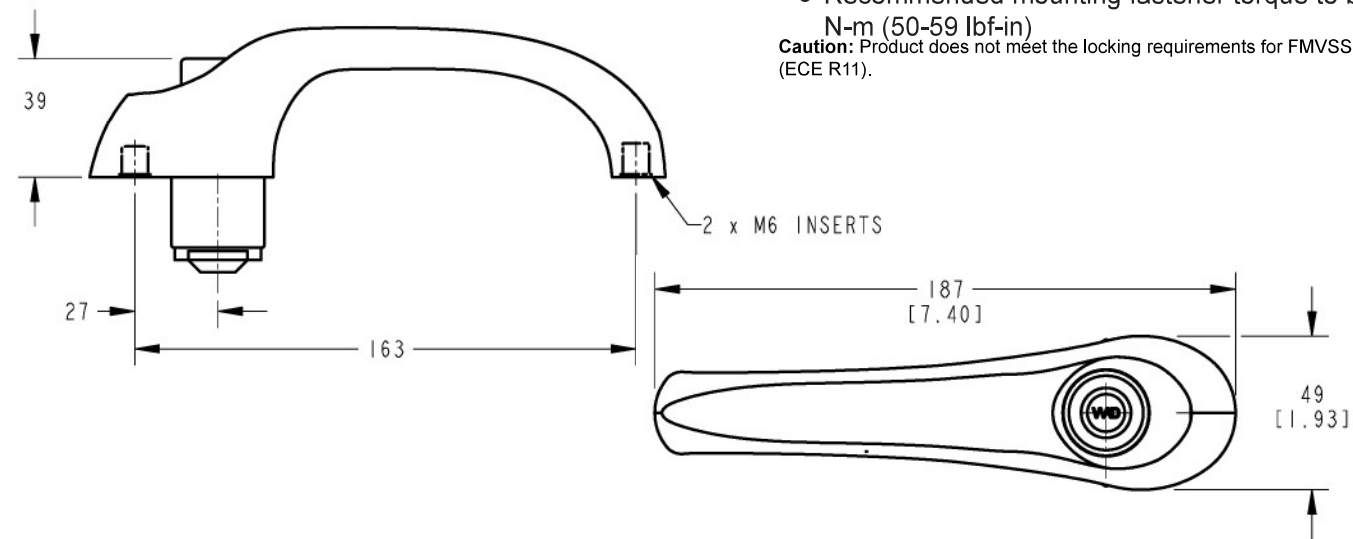
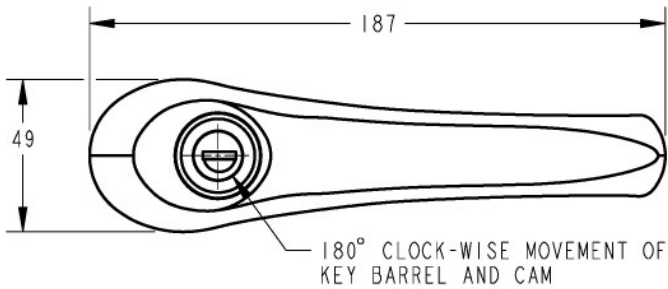
This stylish push button handle is designed for off-highway vehicle applications that require a surface mounted exterior push button handle.

## FEATURES/BENEFITS:

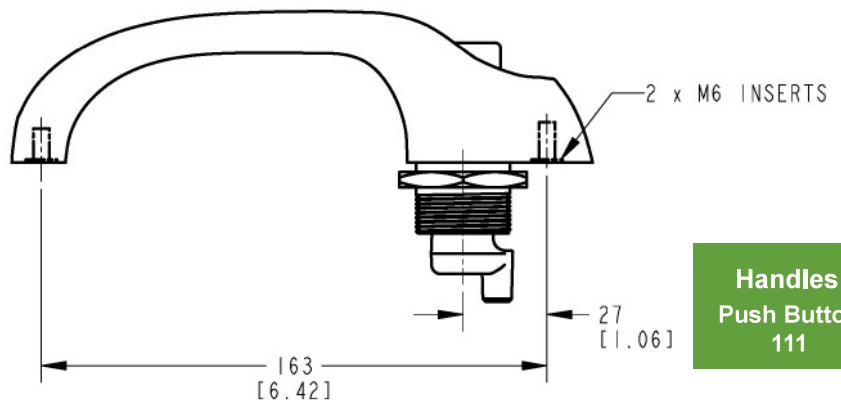
- (2) bolt 165mm (6.50") mounting or threaded boss 136mm (5.35") mounting
- Readily adaptable to a variety of door thickness using various cams
- Suitable for mounting to glass, steel and composite surfaces
- 12mm (.47") button travel
- Water resistant to IPX5 (IEC529 edition 2.1 2001/2002)
- Easy to operate (ergonomic)

## AVAILABLE:

- Can be keyed alike with most single and reversible key systems or non-locking configurations
- Locked rigid or free-floating versions



All dimensions are for reference only. For more information visit [www.trimarkcorp.com](http://www.trimarkcorp.com)



## MATERIAL:

- Handle/Button: Glass reinforced nylon
- Brass threaded inserts for conventional two hole fixing
- Brass nut for boss mount

## INSTALLATION:

- Installed with (2) M6 x 1.0 bolts (not included) or with M30 brass nut (included) and (1) M6 x 1.0 bolt (not included)
- Mounts against glass with only two holes
- Available with mounting gaskets
- Recommended mounting fastener torque to be 6-8 N-m (50-59 lbf-in)

**Caution:** Product does not meet the locking requirements for FMVSS 206 (ECE R11).

Handles:  
Push Button  
111



# 010-0100 Release Lever

Designed for an inside release for the use on L-handles, this product offers a simple low cost handle for use on rotating drive bar applications.

## AVAILABLE:

- With 5/16" square hole at 90 degree or 45 degree orientation

## MATERIAL

- Die cast zinc alloy

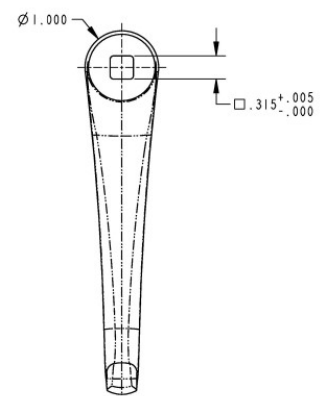
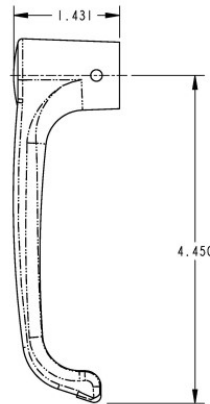
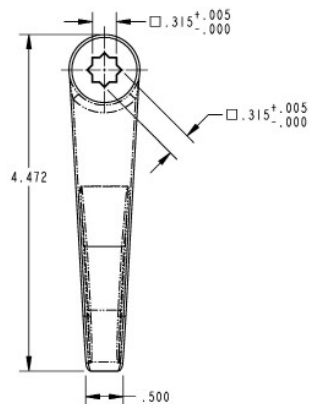
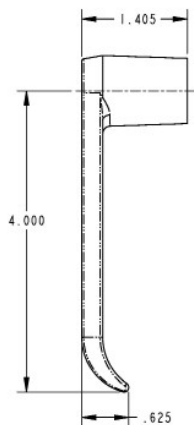
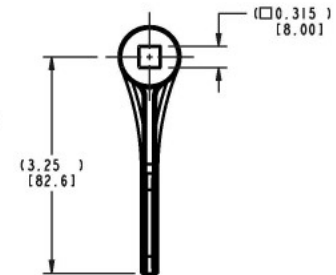
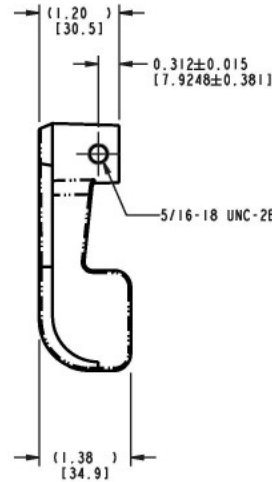
## FINISH:

- Mill - unplated
- Copper-nickel chrome plated
- Black powder coated

## INSTALLATION:

- .156" (4.0mm) diameter roll pin (not included)
- 5/16" diameter set screw

All dimensions are for reference only. For more information visit [www.trimarkcorp.com](http://www.trimarkcorp.com)



# 010-0200 Non-Locking / 010-0300 Locking L-Handle

Non-locking L handles provide simple interior/ exterior rotating handle functions for surface mounted applications.

- General purpose use for off-highway cab doors or storage, compartment and access doors for on or off-highway applications

## FEATURES/BENEFITS:

- Ample finger clearance
- Easily installed with oval or flat head #10 fasteners (not included)
- Locking L-handle assembly provides 360° rotation and locks at 90° increments

## AVAILABLE:

- Mounting hole patterns and escutcheons (bases) for different finger clearances
- Drive bar lengths, with or without holes or threaded rods
- Keyed CH751 and other key codes
- Drive bar attached to handle by drilling and pinning
- Locking or non-locking:
  - ◇ Standard finger clearance (Type 1 and 2)
  - ◇ Extended finger clearance (Type 4)
- 1.50" (3.81mm) or 1.75" (4.45mm) mounting hole spacing

**All dimensions are for reference only. For more information visit [www.trimarkcorp.com](http://www.trimarkcorp.com)**



## FINISH:

- Handle and escutcheon: Copper-nickel chrome plated or black powder coated
- Drive bar: Mill finish

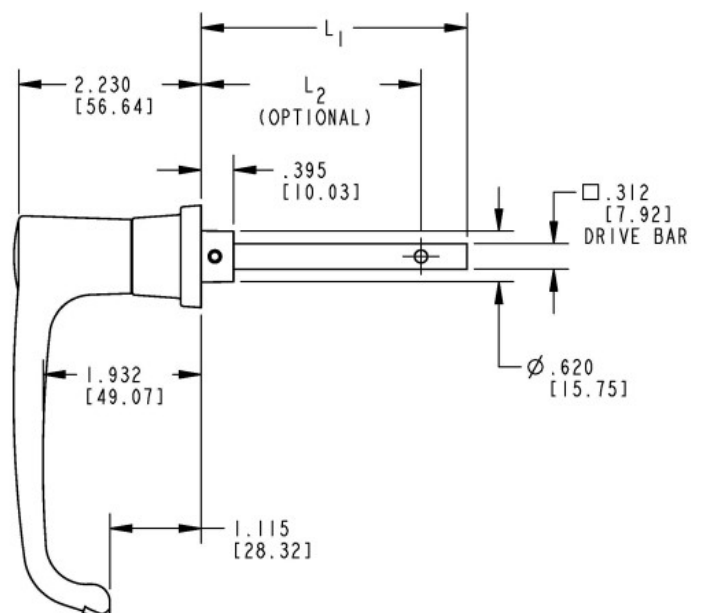
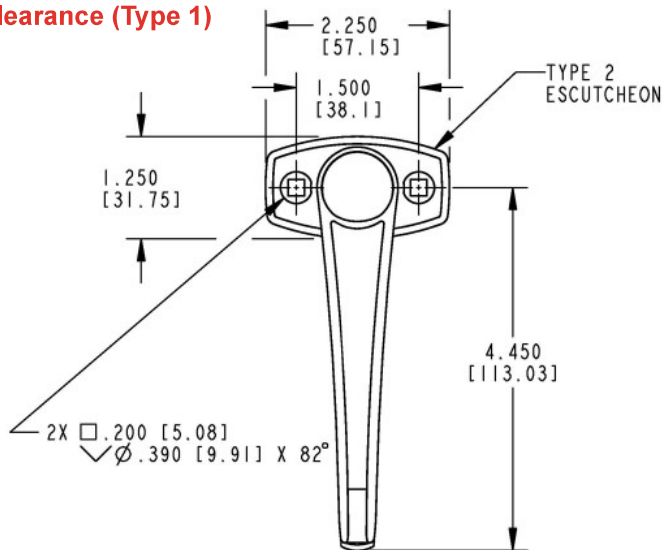
## MATERIAL:

- Handle and escutcheon: Die cast zinc alloy
- Drive bar: Mild steel

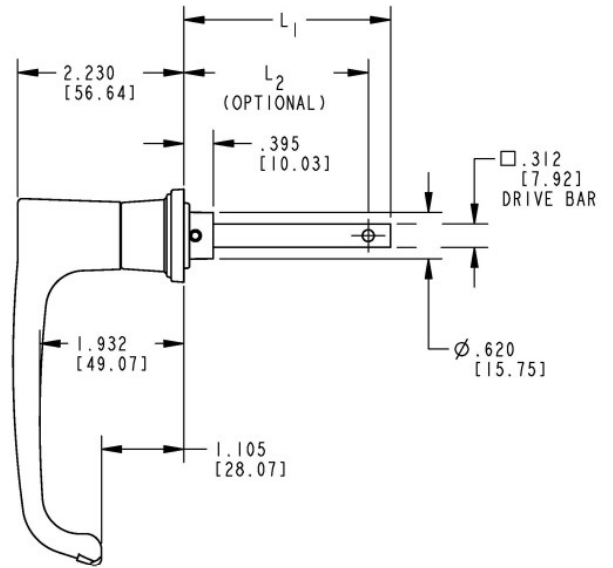
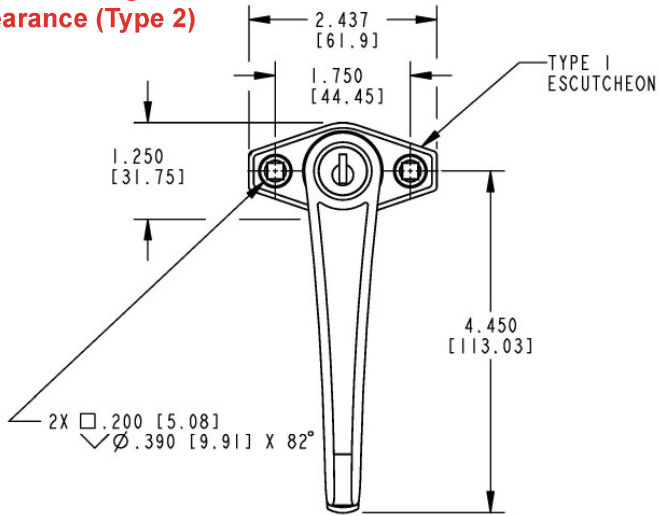
## SPECIFY WHEN ORDERING:

- Series number
- Escutcheon type
- Drive bar length (L1) and optional hole location (L2)

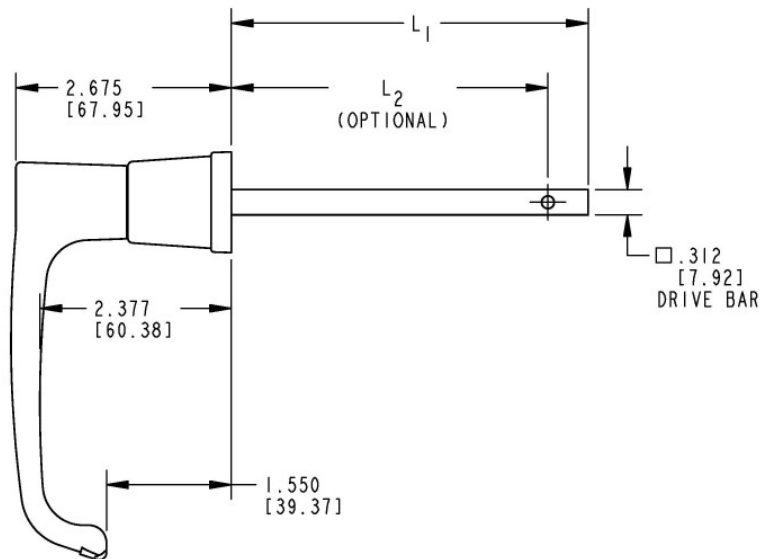
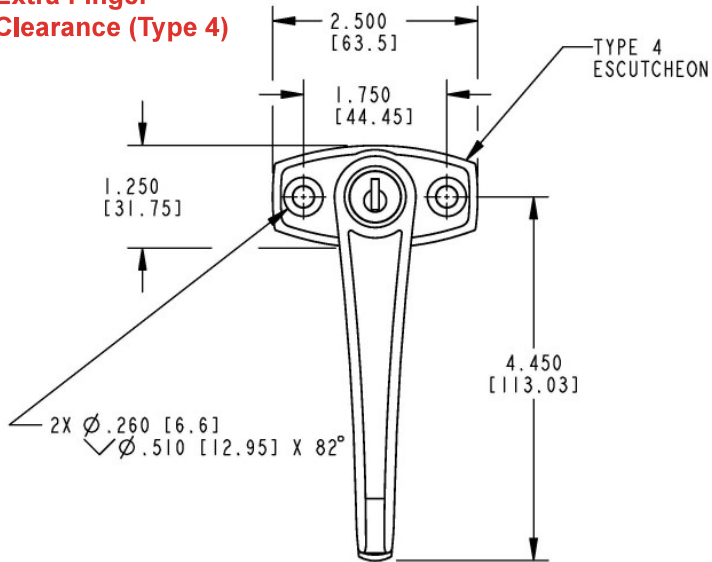
## Standard Finger Clearance (Type 1)



**Standard Finger Clearance (Type 2)**



**Extra Finger Clearance (Type 4)**



All dimensions are for reference only. For more information visit [www.trimarkcorp.com](http://www.trimarkcorp.com)

# 010-0600 Flush Mounted Pop-Up T-Handle

This handle was designed for toppers, lift gate and baggage doors where 1/4 turn cam locking is desired. It features a low profile handle that pops up when actuated for ease of use and is available in several rotations, drive bar lengths and finishes.

- Garage doors, storage and access doors
- Any application where low profile hardware is important

## FEATURES/BENEFITS:

- Flush mounted - when "T" handle is depressed, rivets and fastener heads are concealed
- Rubber gasket under base provides resistance to water infiltration

## AVAILABLE:

- Key lockable with 50 key codes available or keyed alike. Non-locking version is also available
- One or two point locking
- 90° or 150° rotation
- 2.50" (63.5mm) or 3.50" (88.9mm) drive bar lengths
- Clockwise or counterclockwise rotation



## MATERIAL:

- Shuttered keyway: Stainless steel
- All major components: Zinc alloy
- Drive bar: Zinc plated steel
- Internal (2) springs: Stainless steel

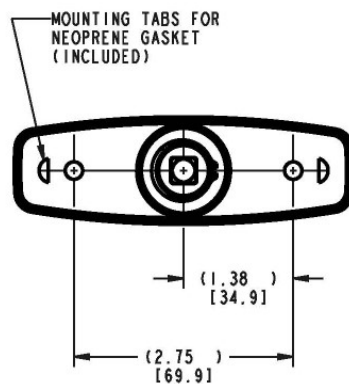
## FINISH:

- Black powder coated or white

## INSTALLATION:

- Easy installation with (2) #10 fasteners or rivets
- Recommended door mounting - 1.125" (28.6mm) diameter thru hole

All dimensions are for reference only. For more information visit [www.trimarkcorp.com](http://www.trimarkcorp.com)

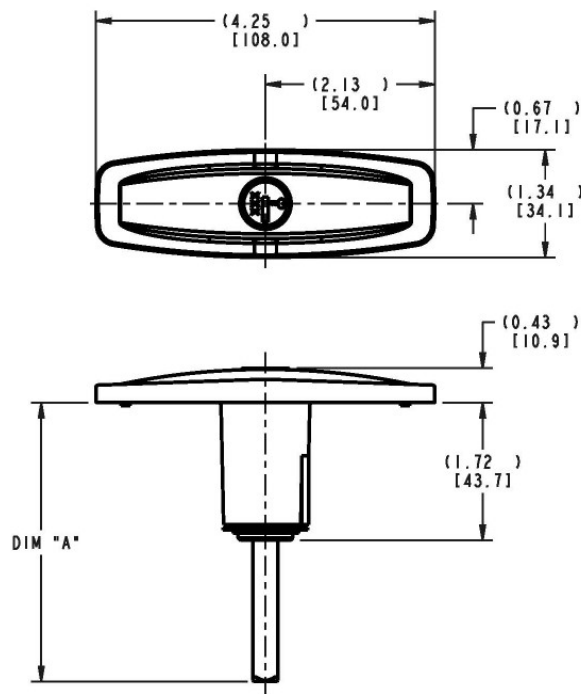


## DRIVE BAR CHART

### Dimension "A"

2.50" (63.5mm)

3.50" (88.9mm)



# 010-0700 Light Duty Compartment Latch

This handle was designed for small compartment and access doors and tool boxes where 1/4 turn cam locking is desired. Available in both locking and non-locking, the non-locking version features a detent function in both the latched and unlatched positions.

## AVAILABLE:

- Locking configuration: Keys furnished with assembly
- Non-locking configuration: Detent in latched and unlatched positions
- 90° cam rotation

## MATERIAL:

- Handle: Die cast zinc alloy
- Cam: Zinc plated steel



## FINISH:

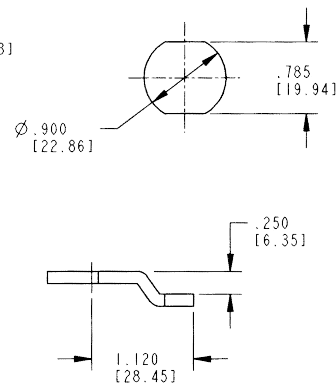
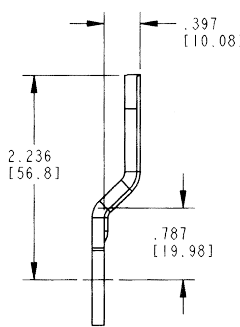
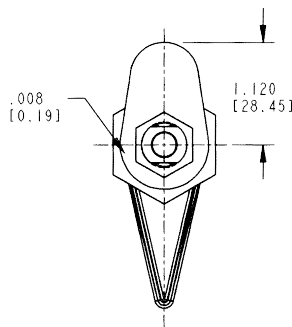
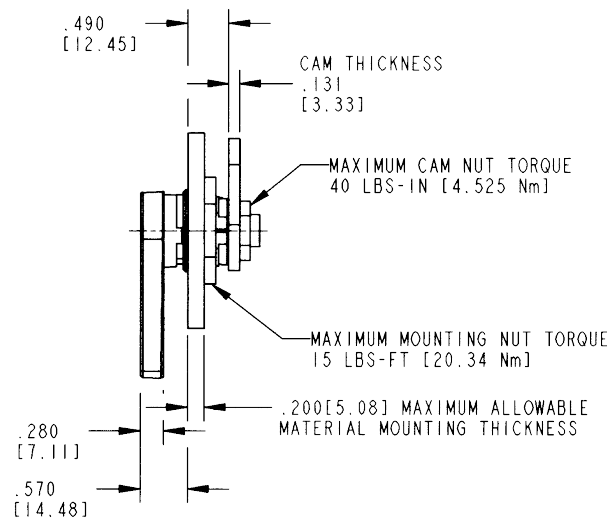
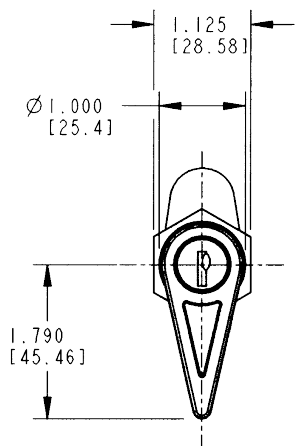
- Copper-nickel-chrome plated
- Black powder coated

## INSTALLATION:

- Supplied either fully assembled or bagged with cam and nuts packaged loose
- Removal of cam and 7/8-28 mounting nut is required for installation.

All dimensions are for reference only. For more information visit [www.trimarkcorp.com](http://www.trimarkcorp.com)

**Important:** Note maximum mounting nut torque specifications below.





# 010-1000 Rotating Lever Handle

These robust exterior and interior door handles are fabricated from high strength plate steel and feature modular attach/quick detach drive details and offer 1000 hour Cass protection with a soft touch coating.

## DESIGNED FOR:

- Entrance and rear door applications for heavy-duty vehicles
- Interior and exterior applications
- Medium to heavy duty doors of 23-455 kg (50-1000 lbs.)

## FEATURES/BENEFITS:

- Heavy duty construction

## AVAILABLE:

- A variety of sizes and forms available
- Customization features available: Please inquire
  - ◇ Length and forming of handle
  - ◇ Handle materials

## MATERIAL:

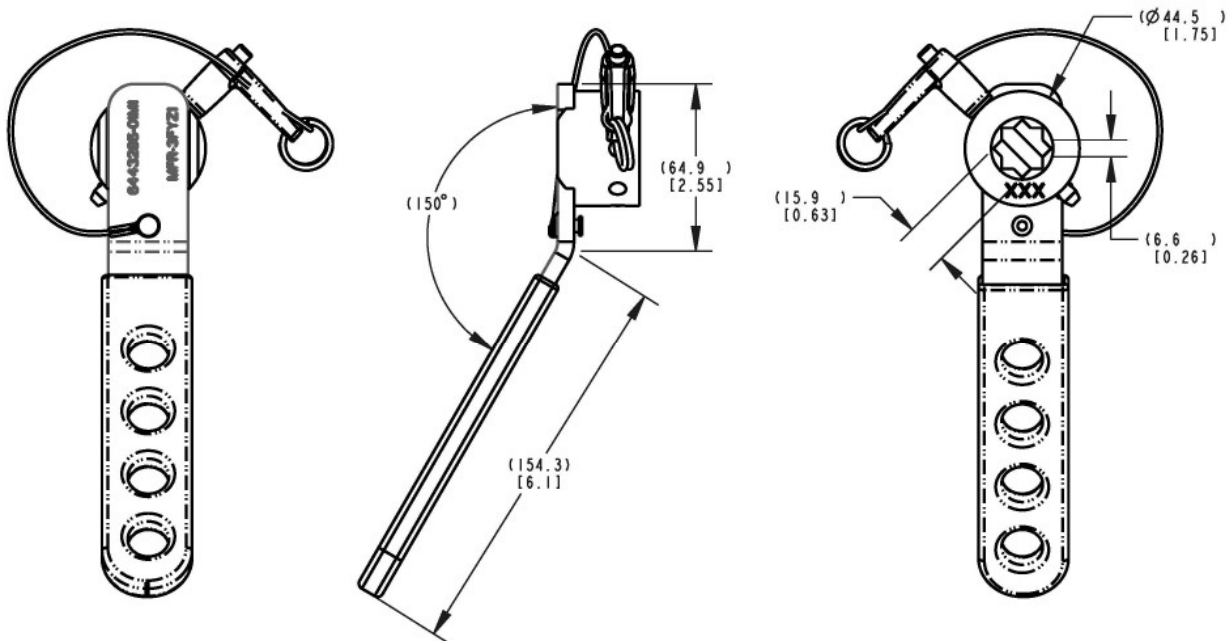
- Standard - high strength steel construction
- Available with advanced lightweight aluminum alloy



## FINISH:

- Standard low gloss black powder coated
- Mil-Spec soft grip nylon coated handle
- 1000 hour corrosion protection
- Optional finishes available including: Black Magni™ coating, Tan/Olive CARC paint and Tan/Olive powder coating

U. S. Design Patent No. D596,917 / D615,383 / D615,841



All dimensions are for reference only. For more information visit [www.trimarkcorp.com](http://www.trimarkcorp.com)

Handles:  
Rotating T&L  
117

# 010-1100 TriGuard Heavy - Duty Rotating Handle

This robust exterior L-handle features modular construction that allows for customization, including the use of light weight materials without sacrificing strength. The handle also allows for use of a padlock for security.

- Entrance and rear door application for heavy-duty vehicles
- Interior and exterior applications
- Medium to heavy duty doors of 23-455 kg (50-1000 lbs.)

## FEATURES/BENEFITS:

- Heavy duty modular construction
- Padlockable for additional security or non-locking versions available
- Modular construction allows for serviceable handle components disassembly

## AVAILABLE:

- Standard steel handle version or available with lightweight aluminum handle
- Right or left hand rotation versions available
- Customization features available. Please inquire.
  - ◇ Mounting details—door thickness
  - ◇ Length of handle
  - ◇ Handle materials

## MATERIAL:

- Standard - high strength steel construction
- Available with advanced lightweight aluminum alloy handle

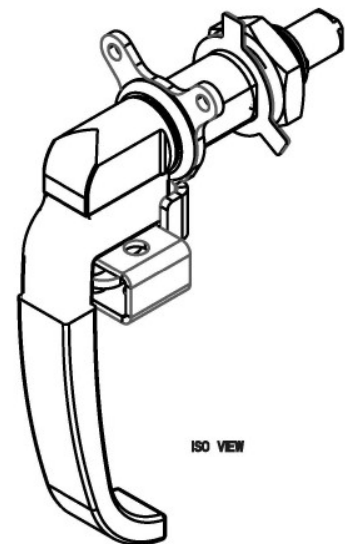
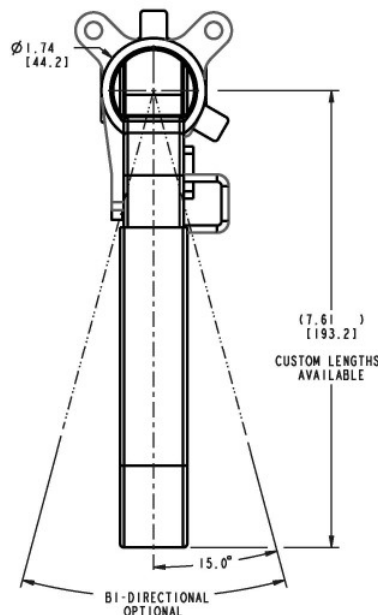
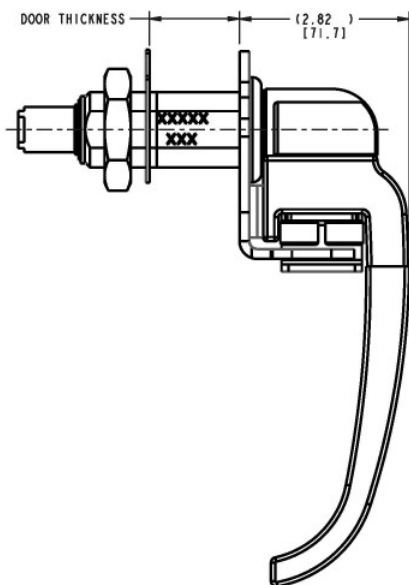


## FINISH:

- Standard low gloss black powder coated
- Mil-Spec soft grip nylon coated handle
- 1000 hour corrosion protection
- Optional finishes available including: Black Magni™ coating, Tan/Olive CARC paint and Tan/Olive powder coating

## INSTALLATION:

- Easy to install, mounts with single 1.250 - 20 UN threaded nut
- Tighten to the manufacturers' recommended torque value, however, do not exceed 405 N-m (295 ft-lb)
- Mounting nut and lock washer included



All dimensions are for reference only. For more information visit [www.trimarkcorp.com](http://www.trimarkcorp.com)

# 010-7100 Window Handle - Single Position

This easy to operate window handle is designed to fit comfortably in the hand for top and side hinged windows for on and off-highway vehicles. Featuring 90 degree orientation with steel mounting plate and glass filled nylon handle.

## FEATURES/BENEFITS:

- Designed to be used on hinged rear windows
- Ergonomic function and style
- Two configurations:
  - ◊ 31mm (1.22") height - 60mm (2.36") mounting
  - ◊ 78mm (3.07") height - 100mm (3.94") mounting
- 90° - clockwise rotation

## AVAILABLE:

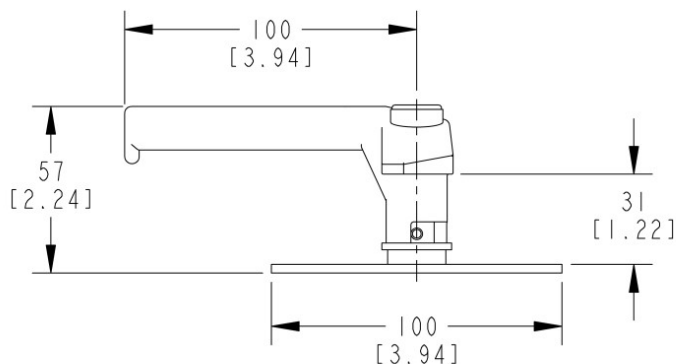
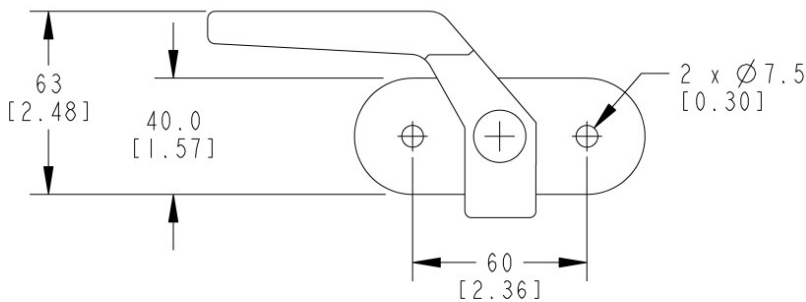
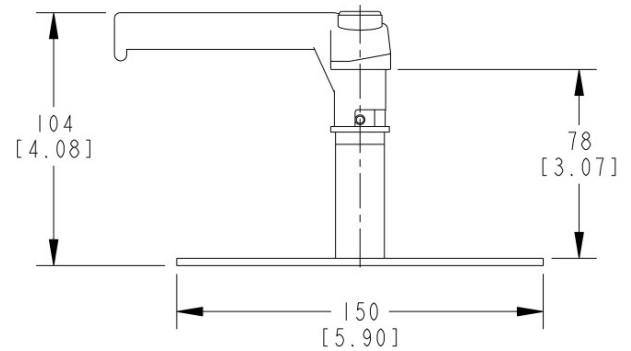
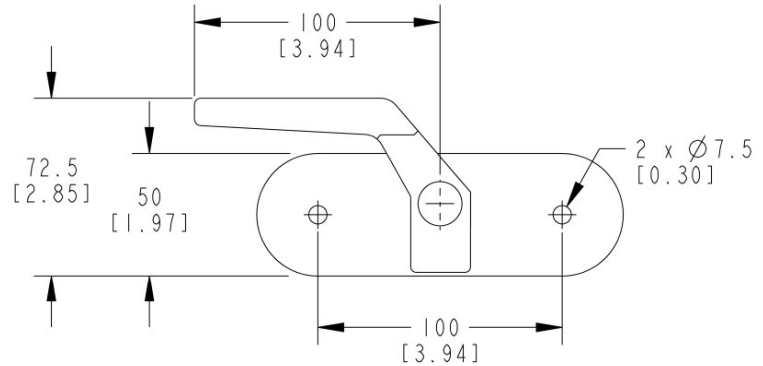
- Other length options are available to suit window off-sets

## MATERIAL/FINISH:

- Black glass reinforced nylon handle
- Black electrophoretic coated mild steel mounting plate

## INSTALLATION:

- Installed with (2) M6 X 1.0 bolts (not included)



All dimensions are for reference only. For more information visit [www.trimarkcorp.com](http://www.trimarkcorp.com)

# 010-7120 Window Handle - Double Position

This easy to operate window handle is designed to fit comfortably in the hand for top and side hinged windows for on and off-highway vehicles. Featuring 90 degree orientation with steel mounting plate and glass filled nylon handle. Provides two position venting.

## FEATURES/BENEFITS:

- L shape handle style
- Two point latching
- Easy to install

## MATERIAL/FINISH:

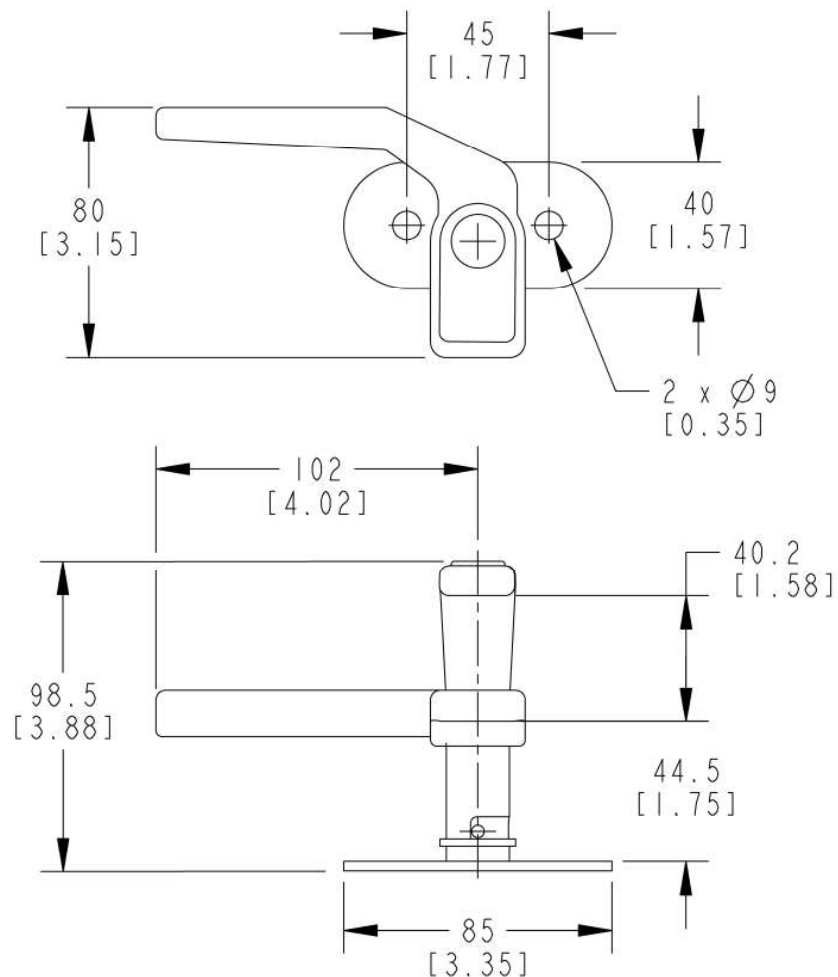
- Black glass reinforced nylon handle
- Black electrophoretic coated mild steel mounting plate

## INSTALLATION:

- (2) 9mm diameter (.35") through holes



All dimensions are for reference only. For more information visit [www.trimarkcorp.com](http://www.trimarkcorp.com)



Handles:

Rotating T&L  
120

# 020-0150 Grab Handle

This stylish entry assist handle for RV coaches, motor homes and travel trailers is available with a lighted acrylic bar for safety and convenience.

## FEATURES/BENEFITS:

- Offers modern styling with premium look and feel
- Rugged and durable construction
- Perfect interior complement for the 540-0200 Lighted Grab Handle With Keypad (e-GRAB)

## AVAILABLE:

- With or without handle rod light
- Handle rod can be personalized with manufacturer's name, model and logo
- Your choice of handle lengths

## INSTALLATION:

- Easy to install with (8) 1/4" or M6 fasteners (not supplied)

## FINISH:

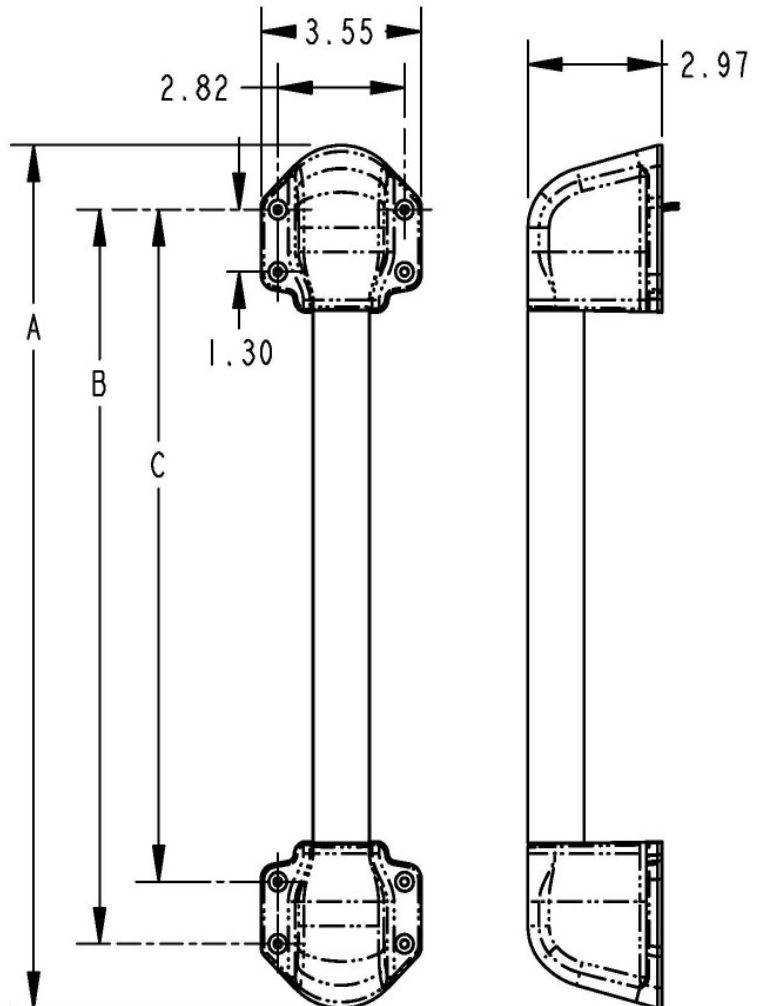
- High quality polished copper-nickel-nickel chrome is durable and stylish

## MATERIAL:

- Sturdy zinc die cast alloy mounting end caps
- Cast acrylic rod in clear finish

Design Patent No. D559,653

All dimensions are for reference only. For more information visit [www.trimarkcorp.com](http://www.trimarkcorp.com)



A	458 [18"]	495 [19.5"]
B	390 [15.3"]	427 [16.8"]
C	357 [14.0"]	395 [15.5"]



# 020-7200 Grab Handle

This molded grab handle offers a balance of strength and weight at a cost effective price.

## DESIGNED FOR:

- Exterior applications that require a light duty grab handle

## FEATURES/BENEFITS:

- Impact resistant material
- Easy to install
- Good hand clearance

## MATERIAL:

- 20% Mineral Filled Polypropylene

## FINISH:

- Standard black

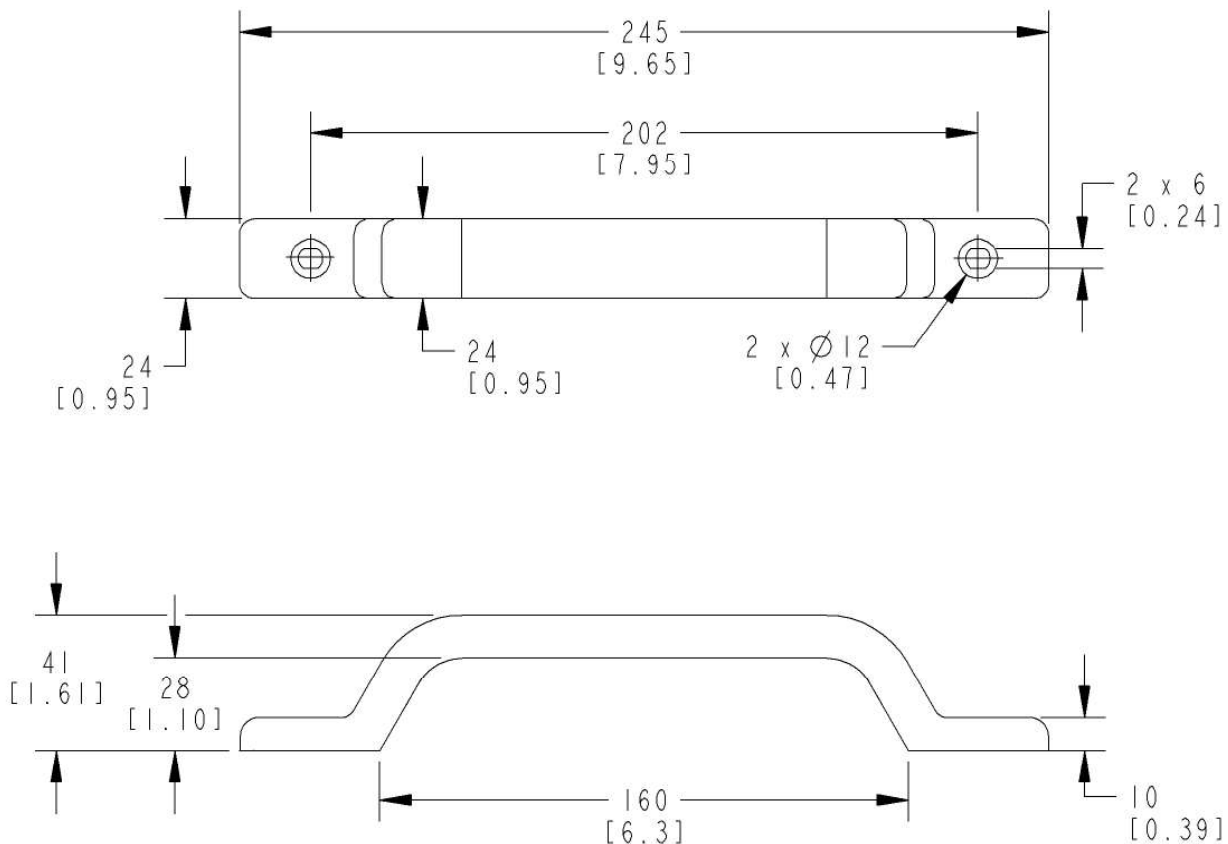
## INSTALLATION:

- Easy to install
- (2) M5 pan head screw required for mounting (not supplied)



All dimensions are for reference only. For more information visit [www.trimarkcorp.com](http://www.trimarkcorp.com)

**CAUTION:** Grab handle is not designed for interior use.



Handles:

Grab  
122

# 020-0900 Remote Inside Release

This product was specifically designed for off-highway vehicle applications including agricultural and construction equipment that require a remote inside release. The robust construction is incorporated into round tubing for support for the opening and closing functions of the door and provides for greater ease of operation (ergonomics) over direct releases.

- Medium to heavy weight doors for off-highway vehicle applications
- Doors where it is desirable to have the inside release remotely located to the latch location

## FEATURES/BENEFITS:

- Robust designed remote inside release is incorporated into round tubing which gives additional door structure support and assistance for the opening and closing functions of the door
- Provides for greater ease of operation (ergonomics). The inside release can be positioned at any point along the tube for convenient location to suit the door/cab design over direct lever releases
- The inside release is connected by a rod to the latch and includes an integrated return spring
- The cam detail in the inside release is reversible allowing the inside release to be actuated in the opposite direction providing flexibility in the product application

## AVAILABLE:

- As an inside release sub-assembly for installation into your door tube. (TriMark 020-0910 Inside Squeeze Release—Remote) (Note: Requires TriMark application assistance and approval.)
- In 25mm (.98") steel tubing diameters, painted black
- In different tubing lengths with various inside release positions and 90 degree mounting end



- Customization is available including formed tubing (please inquire)
- As a complete modular system including exterior handle, direct release latch, latch striker, inside release, gaskets, mounting brackets, latch cover, door tube and all necessary fasteners

## MATERIAL/FINISH:

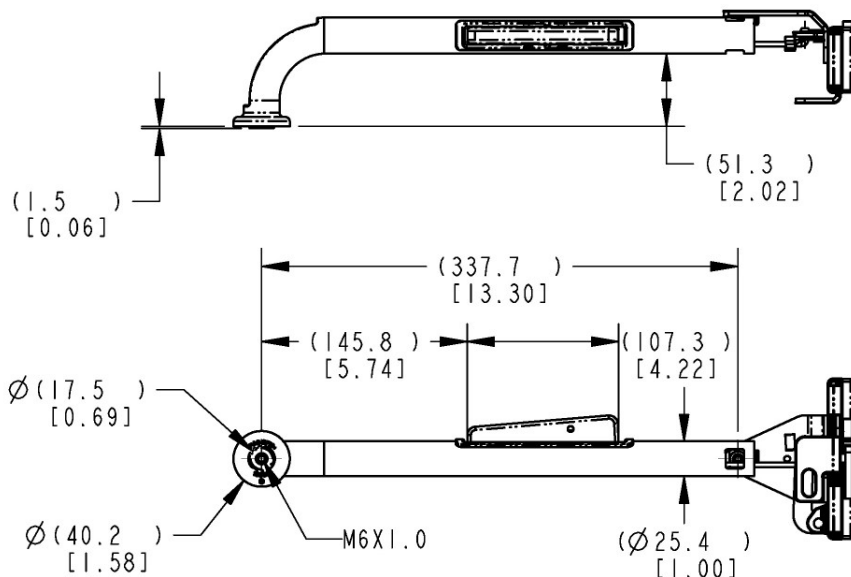
- Inside release components: glass reinforced nylon
- Tubing: painted steel
- Mounting end: glass-reinforced nylon with brass threaded insert

## INSTALLATION:

- Easy to install - can be provided with tubing pre-fastened to latch that requires a single fastener at the mounting end to secure the assembly to the door or the inside release can be supplied as a sub-assembly that easily installs into your door tube
- Tubing assembly - installs with a single M6 X 1.0 bolt. Glass mounting is also possible with available mushroom window fixing designed for 5-6mm glass thickness. Recommended mounting fastener torque to be 3.3 - 4.5N-m (30-40 lbf-in)
- The 020-0910 inside release sub-assembly installs without tools into the pipe and includes a flange that covers the tubing cutout

U.S. Patent No. 7,198,308 and 7,111,879

Caution: Product does not meet the locking requirements for FMVSS 206 (ECE R11).



All dimensions are for reference only. For more information visit [www.trimarkcorp.com](http://www.trimarkcorp.com)

# 020-0910 Inside Squeeze Release - Remote

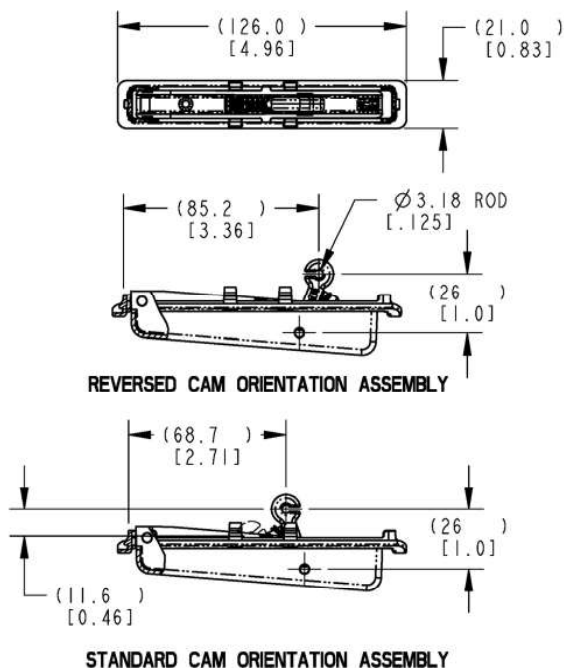
This product was specifically designed for off-highway vehicle applications including agricultural and construction equipment that require a remote inside release that mounts into an existing tubing provided by the customer.

- Medium to heavy weight doors for off-highway vehicle applications
- Doors where it is desirable to have the inside release remotely located to the latch location
- Use with 25mm (.98") diameter steel tubing—customer provided

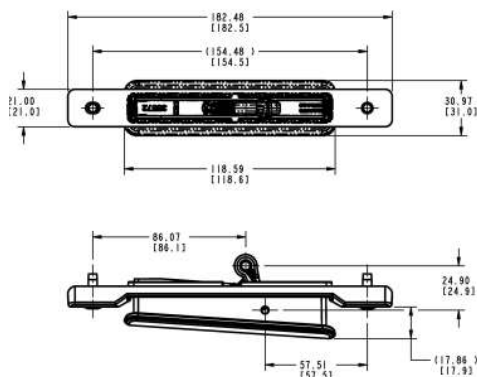
## FEATURES/BENEFITS:

- The inside release can be positioned at any point along the tube for convenient location to suit the door/cab design over direct lever releases
- Non-handed design is adaptable for door on either side of vehicle
- The inside release is connected by a rod or cable to the latch and includes an integrated return spring
- The cam detail in the inside release is reversible allowing the inside release to be actuated in the opposite direction providing flexibility in the product application

## Version 1



## Version 2



- Two versions available;
  - ◊ Version 1 installs without tools and snaps in the tubing
  - ◊ Version 2 requires (2) M5 thread forming cap screws and provides an anti-pinch squeeze handle

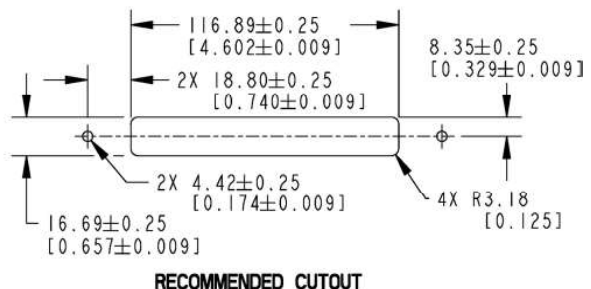
## MATERIAL:

- Inside release components: Glass reinforced nylon

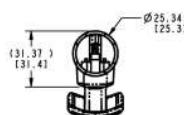
## INSTALLATION:

- The inside release sub-assembly installs into the pipe and includes a flange that covers the tubing cutout
- Version 1 snaps in the tubing
- Version 2 requires (2) M5 thread-forming cap screws

**Caution:** Product does not meet the locking requirements for FMVSS 206 (ECE R11).



**All dimensions are for reference only. For more information visit [www.trimarkcorp.com](http://www.trimarkcorp.com)**



# 020-0925 Squeeze Release With Assist Bar

This product was specifically designed for off-highway vehicle applications including agricultural and construction equipment that requires a remote inside release. The robust construction is incorporated into round tubing with 90 degree ends for ease of mounting onto a flat door panel. It also provides support for the opening and closing functions of the door and greater ease of operation (ergonomics) over direct releases.

## DESIGNED FOR:

- Medium to heavy weight doors where it is desirable to have an assist-bar in conjunction with a cable-driven latch release

## FEATURES/BENEFITS:

- Robust squeeze release is incorporated into round tubing for support of the opening and closing functions of the door
- Provides ease of operation (ergonomics). The squeeze release can be rotated within the tube for convenient location to suit the door design
- The cam detail in the inside release is reversible allowing the inside release to be actuated in the opposite direction providing flexibility in the product application

## AVAILABLE:

- Right and left hand configuration
- Adaptable for doors on either side of vehicle
- For different tube lengths, consult TriMark engineering
- Squeeze release is adaptable to several different latch platforms and customization is available
- Individual system components can be supplied separately as needed for installation into customer-specific door designs (TriMark 020-0910 Inside Squeeze Release - Remote)



## MATERIAL/FINISH:

- Inside release components: Glass reinforced nylon
- Tubes: Painted steel
- Mounting end: Glass-reinforced nylon

## INSTALLATION:

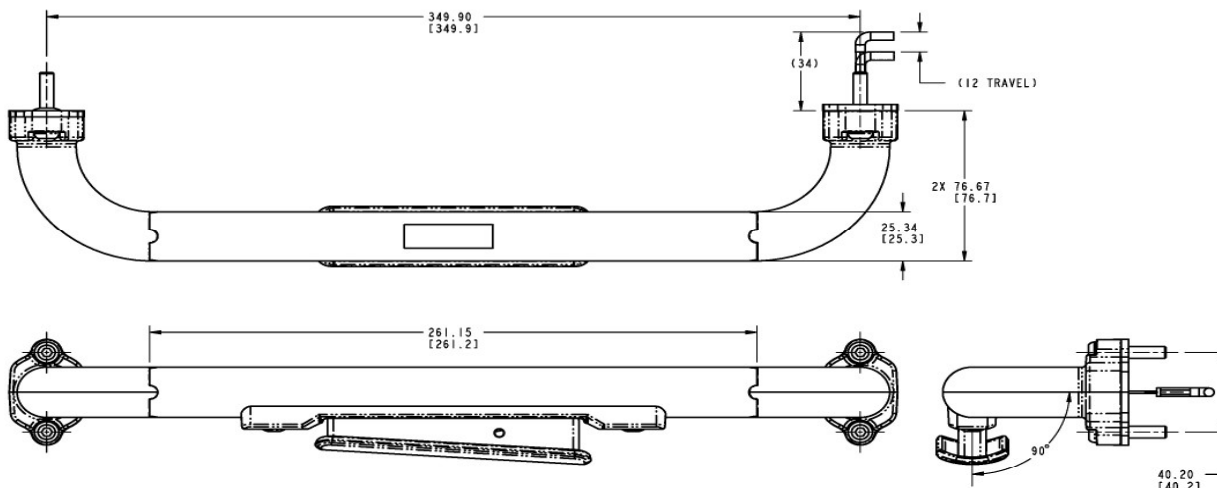
- Tubing assembly—installs with (4) M6 x 1.0 fasteners (supplied)
- The 020-0910 Inside Release sub-assembly installs with (2) M5 thread forming cap screws into the pipe and includes a flange that covers the tubing cutout

U.S. Patent No. 8,011,699

Caution: Product does not meet the locking requirements for FMVSS 206 (ECE R11).

All dimensions are for reference only. For more information visit [www.trimarkcorp.com](http://www.trimarkcorp.com)

OTHER HANDLE ROTATIONS ARE POSSIBLE, PLEASE CONTACT TRIMARK ENGINEERING FOR MORE OPTIONS



## 090-0201 Push Button Handle Linkages

This linkage is designed for light to medium duty applications for off-highway entrance doors requiring latch location remote from activating push button handles. These linkages provide ease of mounting for remote rod applications.

### **DESIGNED FOR:**

- Off-highway vehicle applications - construction, mining, agricultural, forestry
- Applications that require the latch location to be remote from the push button handle

### **FEATURES/BENEFITS:**

- Provides a linkage option that facilitates linkage connection and ease of mounting for remote push button handle applications

### **AVAILABLE:**

- In right or left hand configurations
- In a variety of bell cranks and mounting configurations



### **MATERIAL:**

- Linkage components: Zinc plated, mild steel

### **FINISH:**

- Zinc plated, clear chromate steel components

## 090-0220 Pull Handle Linkages

This linkage is designed for light to medium duty applications for off-highway entrance doors requiring latch location remote from activating pull handles. Available with and without an integrated inside release lever these linkages provide ease of mounting for remote rod and cable applications.

### **DESIGNED FOR:**

- Off-highway vehicle applications - construction, mining, agricultural, forestry
- Applications that require the latch location to be remote from the pull handle

### **FEATURES/BENEFITS:**

- Provides a linkage option that facilitates linkage connection and ease of mounting for remote pull handle applications

### **AVAILABLE:**

- In right or left hand configurations
- In a variety of bell cranks and mounting configuration
- Available with an integrated inside release lever



### **MATERIAL:**

- Linkage components: Zinc plated, mild steel

### **FINISH:**

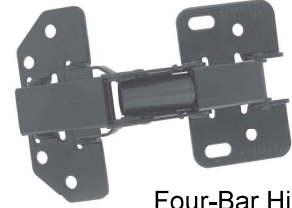
- Zinc plated, clear chromate steel components



# TriMark Hinges - from standard to custom

TriMark manufactures standard and custom hinges for world leading companies in the agriculture, construction, transportation and specialty vehicle markets and beyond. Our experience allows us to produce industrial hinges in plastic, steel and stainless steel materials, to suit light, medium and heavy duty requirements. If a standard off the shelf product will not suffice, we can custom-design and manufacture hinges to your exact specifications. TriMark's products include leaf/butt, four bar and barrel hinges with features such as free-swinging, positioning/detent, lift-off, articulated travel and dampened functionality.

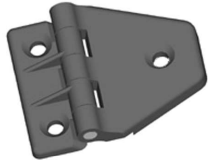
For more information please call 1-800-447-0343



Four-Bar Hinge



Custom Four-Bar Hinge



Leaf/Butt Hinge



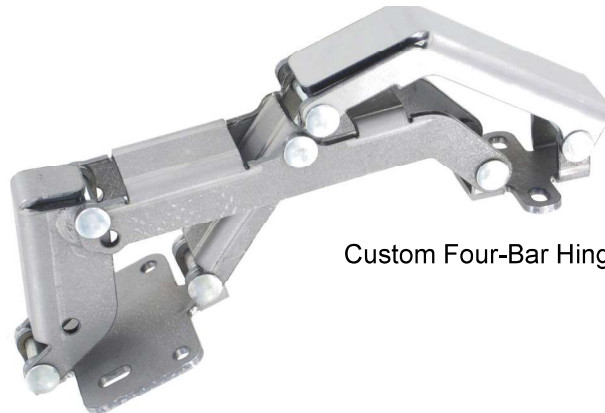
Custom Leaf/Butt Hinge



Custom Four-Bar Hinge



Custom Four-Bar Hinge



Custom Four-Bar Hinge

# 200-0100 Hinge Assembly - Plastic



This glass reinforced nylon leaf style hinge is designed for on or off-highway flush compartment, access doors or hinged windows. It can be surface mounted with grommets and spacers included to facilitate mounting on 5 or 6mm thick glass.

**MATERIAL:**

- Glass reinforced nylon - black

**INSTALLATION:**

- (3) 8mm flat or oval head mounting screws (not included)

**Caution:** Product does not meet the FMVSS 206 (ECE R11) load requirements.

# 200-0200 Cabinet Hinge

The 200-0200 Cabinet Hinge is a concealed hinge that surface mounts for ease of installation and totally hidden applications. The concealed hinge action has a rotational axis outside of the physical door (up and out) and provides for flush doors when closed.

**FEATURES/BENEFITS:**

- Spring-biased over-center detent holds the door in the open position and assists in closing action

**MATERIAL:**

- Robust, stamped steel construction

**FINISH:**

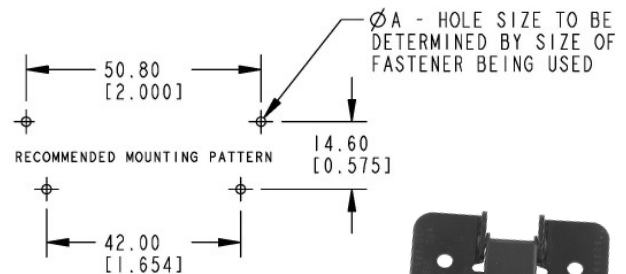
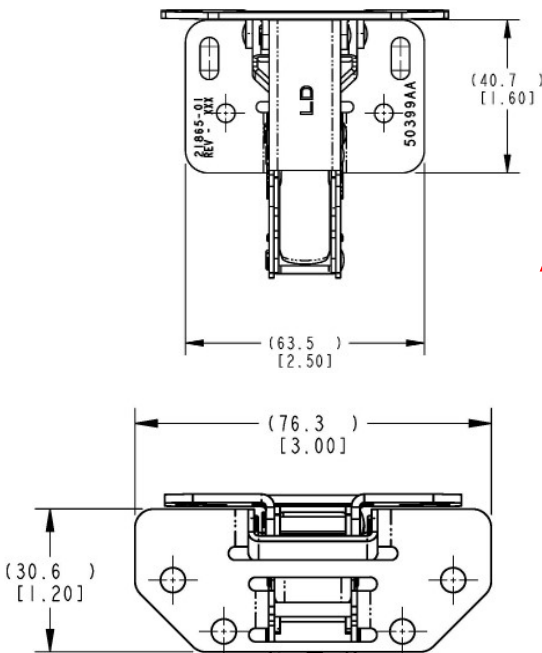
- Black e-coat

**AVAILABLE:**

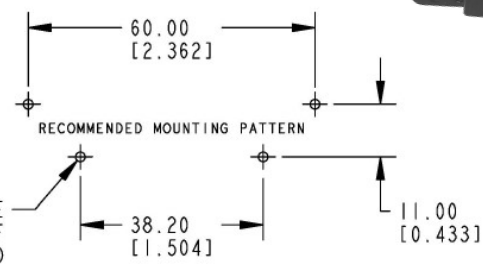
- Alternative mounting patterns
- Three versions:
  - ◊ Light duty  $4 \pm 1$  lbf ( $1.8 \pm .45$  kgf)
  - ◊ Heavy duty 33 lbf (15 kgf)
  - ◊ Heavy duty with dampener 33 lbf (15 kgf)
- Application assistance available — please inquire

**INSTALLATION:**

- Easy installation with (8) #8 or M4 fasteners (not included). Slotted mounting holes allow for tolerance and adjustability.



All dimensions are for reference only. For more information visit [www.trimarkcorp.com](http://www.trimarkcorp.com)



# 200-0500 Hinge Assembly

This sturdy zinc die cast leaf style hinge is designed for on or off-high-way flush compartment or access doors. It is available in a painted black finish and can be surface mounted or used with spacers to accommodate door offsets.

## DESIGNED FOR:

- Service truck body doors and all flush compartment or access doors.

## AVAILABLE:

- Surface mounted design (shown) or with spacers to accommodate offsets

## MATERIAL:

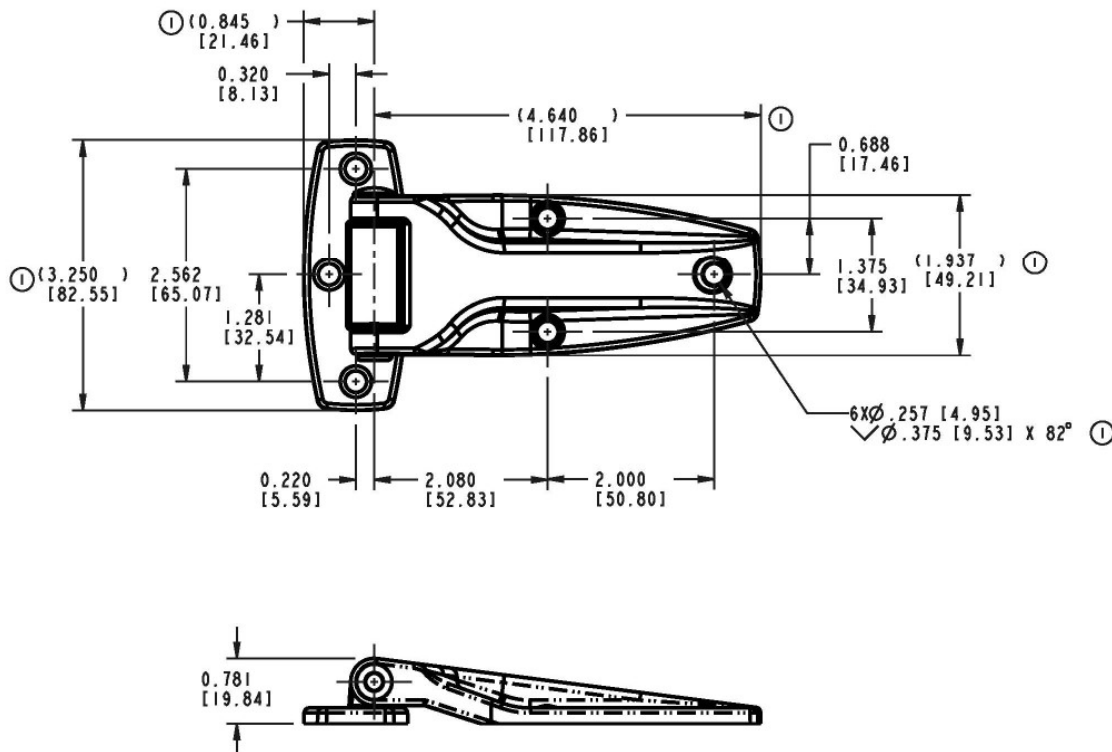
- Die cast zinc alloy
- Stainless steel hinge pin and nylon bushings

## FINISH:

- Polished, buffed and copper-nickel-chrome plated
- Clear chromate (ready for paint)
- Electrostatically applied paint or powder coated

## INSTALLATION:

- (6) #10 flat or oval head steel mounting screws (not included)



All dimensions are for reference only. For more information visit [www.trimarkcorp.com](http://www.trimarkcorp.com)

# 210-7100 Hinge Assembly - Aluminum

This aluminum hinge is designed for light-duty off-highway vehicle applications on storage compartments or hinged windows.

## FEATURES/BENEFITS:

- Designed to be used vertically mounted with same type of fixing at both ends
- Mounting configuration (2) M8 bolt, 76mm (3.00") mounting pattern

## MATERIAL/FINISH:

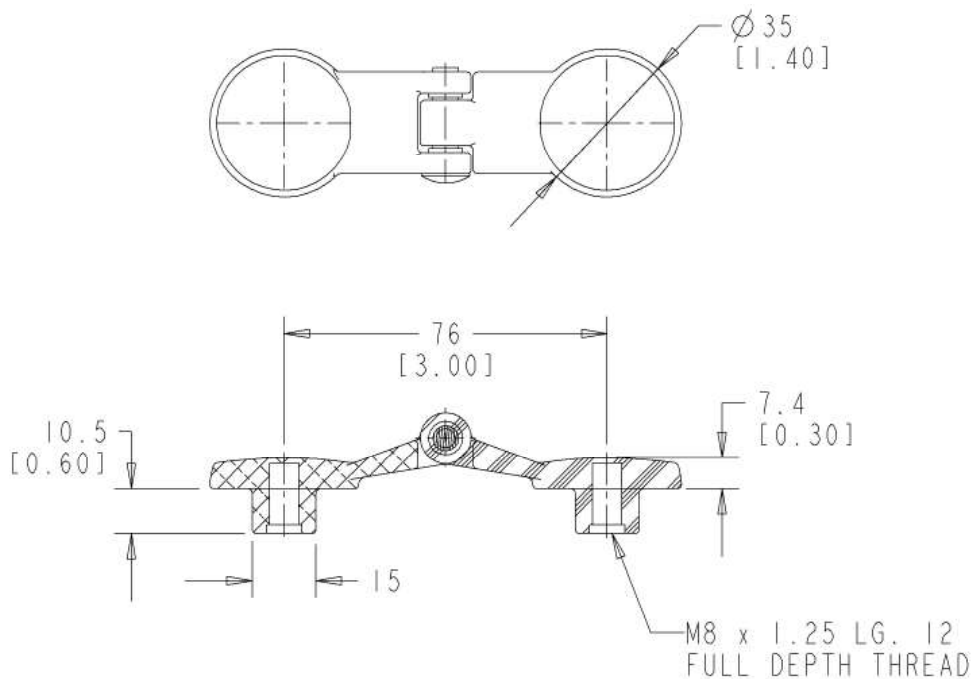
- Die cast aluminum material
- Black or grey powder coated

## INSTALLATION:

- Installs with either suitable M8 fixing bolts or mushroom caps for glass mounting (not included)
- Recommended mounting fastener torque to be 6.7 - 7.9 N-m (59 to 70 in-lbs.)



All dimensions are for reference only. For more information visit [www.trimarkcorp.com](http://www.trimarkcorp.com)



# 500-1000 e-ASK System

Components for this system are sold separately:

TriMark's top level e-ASK system consists of a selection of compatible components that allow for complete keyless entry for on or off-highway vehicle applications. The incorporation of keyless-entry into TriMark mechanical latches, handles and systems provides additional security and convenience for access door systems. This system includes both a touch pad and remote fob transmitter for the ultimate in end user convenience and functionality.

## FEATURES/BENEFITS:

- Easy and intuitive to operate
- Rugged and durable construction
- Compliant to on-road, off-road, and industrial environmental requirements
- Increased vehicle security with multiple triggers and outputs
- I/O module with on-board locking and unlocking relays
- Can control up to 20+ entry/compartments doors (expandable)
- Independent control of multiple door zones
- Staggered door control for minimized current draw
- J1939, RV-C communications
- Locking/unlocking confirmation
- Lighting and auxiliary output control
- Ability to provide four OEM definable functions from keypad, including ability to unlock one side of motor home baggage doors at a time

- Three security system inputs (ability to sense entry door(s) and baggage door(s), and other security system devices such as glass break and motion detectors)
- Variable timed light activation output (porch, compartment or interior lighting)

## AVAILABLE:

- Standard kit make up includes: Two pre-trained RF remote fob transmitters, I/O module, and manual
- Optional kit can include: any wiring harnesses for all connection points of system, extra relays, switches, door contacts, actuators, mounting hardware, mounting brackets, door latches, and door paddle handles
- Fob transmitters with independent entry and compartment control
- Fob transmitters with control of auxiliary features
- Vertical and horizontal keypad
- Customized wire harnesses
- Additional fob transmitters
- Two different programming functions; standard mode, and cargo mode. Standard mode allows for the lock/unlocking of doors plus panic mode and one auxiliary output (controls lighting, opens compartment etc.). Cargo mode allows for the lock/unlocking of main personnel doors plus independent control of many cargo/compartments doors.

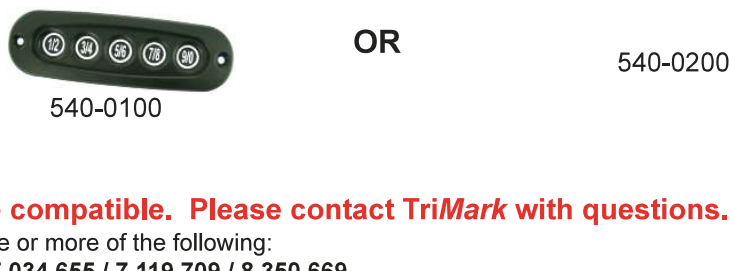
## INSTALLATION:

- Standard 12 VDC power
- I/O module is easily installed with (2) 1/4 or M6 screws (not included) and can be mounted in a concealed location

Control Module and e-FOB should be selected



A keypad may be selected



**Not all components are compatible. Please contact TriMark with questions.**

This product is covered by one or more of the following:  
U.S. Patent No. 6,789,003 / 7,034,655 / 7,119,709 / 8,350,669  
U.S. Design Patent No. D486,376 / D563,097

All dimensions are for reference only. For more information visit [www.trimarkcorp.com](http://www.trimarkcorp.com)

e-ASK:  
RF  
131



# 500-1100 e-FOB System

This cost-effective, simple, and integrated system offers increased security, convenience and functionality with reduced system installation and lower installation costs for demanding users of RVs, heavy trucks, emergency vehicles, agricultural and construction equipment.

Base system provides added convenience and security via a standard remote radio frequency (RF) transmitter providing automotive convenience to your vehicle.

## FEATURES/BENEFITS:

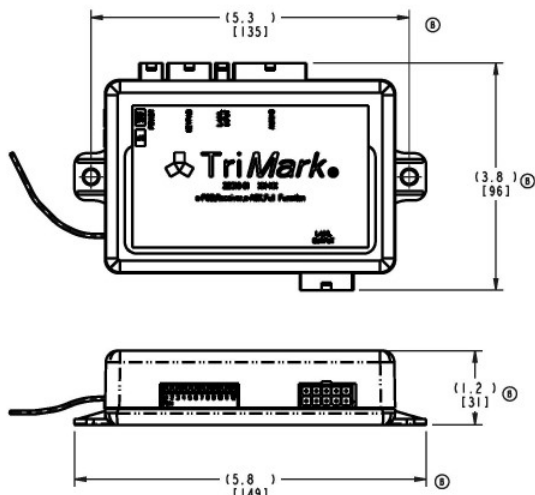
- Keyless-entry security and convenience for access door systems through an electrical interface that includes both a touch pad and remote fob transmitter for the ultimate in end user convenience and functionality
- Easy and intuitive to operate
- Rugged and durable construction
- Compliant to on-road, off-road, and industrial environmental requirements
- Increased vehicle security with multiple triggers and outputs
- I/O module with on-board locking and unlocking relays
- Can control up to 20+ entry/compartments doors (expandable)
- Independent control of multiple door zones
- Staggered door control for minimized current draw
- Multiplexing communications
- Locking/unlocking confirmation
- Ignition controlled auto-locking control
- Starter deactivation available for increased security
- Lighting and auxiliary output control
- Ability to provide five OEM definable functions from keypad, including ability to unlock one side of motor home baggage doors at a time
- Three security system inputs (ability to sense entry door(s) and baggage door(s), and other security system devices such as glass break and motion detectors)
- Three variable timed light activation output (porch, compartment or interior lighting)

## AVAILABLE:

- Standard kit make up includes: (2) pre-trained RF remote fob transmitters, RF receiver, (14) wire harness, (10) wire harness, (2) wire harness, push button switch, and LED assembly key rings and manual
- Optional kits can include: any wiring harness for all connection points of system, extra relays, switches, door contacts, actuators, mounting hardware, mounting brackets, door latches, and door paddle handles
- With security system integration
- Customized wire harnesses
- Multiplexed or discrete communications
- Two different functions; standard and cargo mode. Modes provide customized remote fob transmitter use. Standard mode allows for the lock/unlocking of doors plus panic mode and one auxiliary output (controls lighting, opens compartment etc). Cargo mode allows for the lock/unlocking of main personnel doors plus independent control of many cargo/compartment doors. Sustained mode allows for the lock/unlocking of doors plus continuous output control with lower buttons pressing.

U.S. Patent No. 8,350,669

U.S. Design Patent No. D563,097 / D590,780 / D589,000



## e-FOB

- Reliable radio frequency (RF) transmission
- High security with code hopping technology
- Compliant to FCC-Part 15 and EU RF requirements
- 4-button standard fob (other configurations available)
- Customized graphics possible (buttons and logos)
- Can add up to 4 fob transmitters to vehicle

## INSTALLATION:

- Standard 12 VDC power
- e-FOB receiver is easily installed with (2) #6 or M3 screws (not included) and can be mounted in a concealed location



e-ASK:

RF  
132

All dimensions are for reference only. For more information visit [www.trimarkcorp.com](http://www.trimarkcorp.com)

# 510-0250 e-ASK CAN IO and RF Module

Keyless-entry security and convenience for access door systems through an electrical interface that includes both a keypad and remote fob transmitter for the ultimate in end-user convenience and functionality.

## DESIGNED FOR:

- TriMark's e-ASK systems consist of a selection of compatible components that allow for complete keyless entry for on and off-highway vehicle applications
- Incorporation into TriMark mechanical latches and handles by providing keyless entry, security and convenience for access door systems through a RF remote fob electronics
- Integration to existing or independent SAE J1939 or other CAN based multiplexing buses
- SAE J1939 and other multiplexing protocols

## FEATURES/BENEFITS:

- Rugged and durable construction
- Compliant to on-road, off-road, and industrial environmental requirements
- Designed with on-board relays
- Variations for single or multiple door control
- Staggered outputs for minimized current draw
- Water proof (IP 67) and non-water proof versions available
- Compatible with 433 MHz Radio frequency (RF) remote transmitter fob
- Compliant to FCC, IC, and EU RF requirements
- Available with security system, lighting control, keypad connectivity, ignition connectivity, and other auxiliary device control
- Customizable via various hardware configurations or software modifications

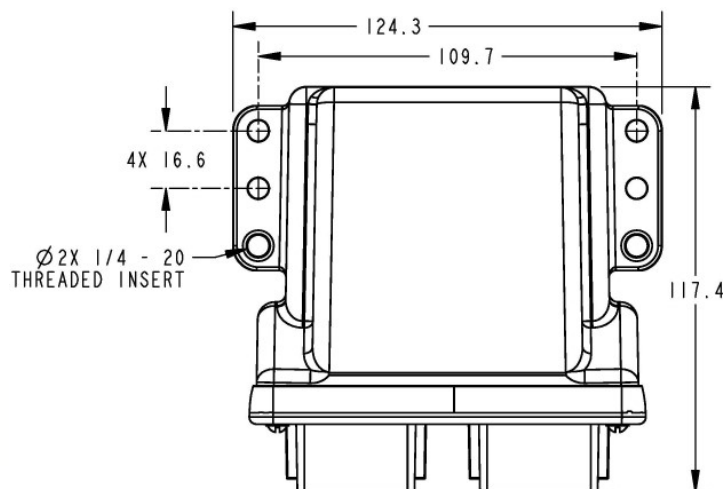


## AVAILABLE:

- Customized kits can include water proof door modules, dash mount IO modules, keypads, RF transmitter, wiring, power lock actuators and other security system accessories

Compliant to SAE J1939 CAN and other multiplexing protocols

U.S. Patent No. 6,789,003 / 7,034,655 / 7,119,709 / 8,350,669



All dimensions are for reference only. For more information visit [www.trimarkcorp.com](http://www.trimarkcorp.com)

e-ASK:  
RF  
133

# 530-0100 e-FOB Transmitter

## DESIGNED FOR:

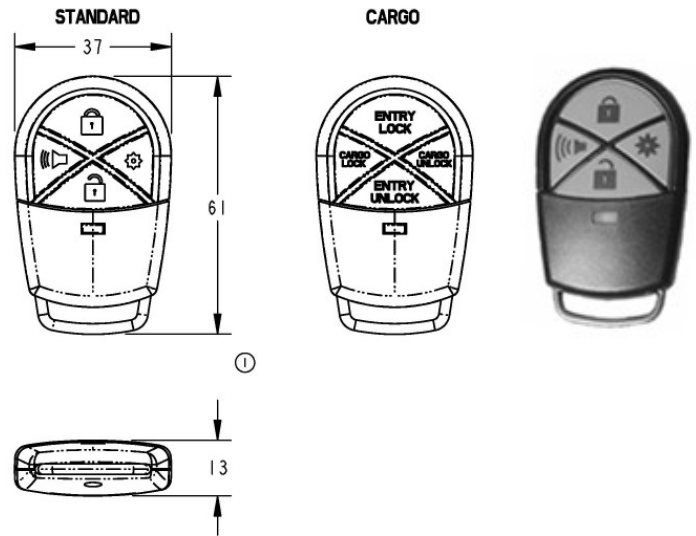
- Replacement components of TriMark's e-ASK systems

## INSTALLATION:

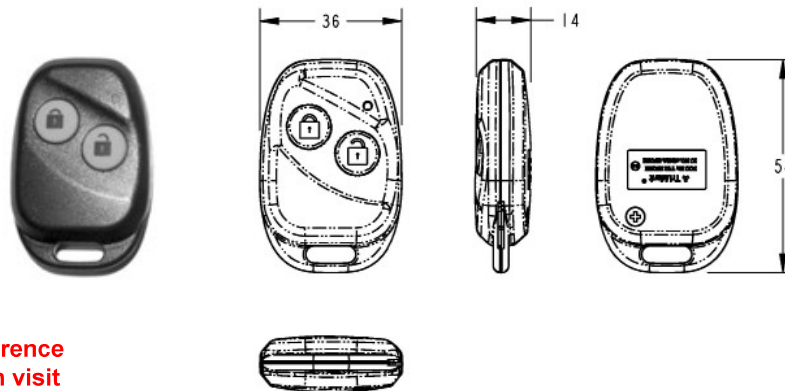
- e-FOB receiver is easily installed with (2) #6 or M3 screws (not included) and can be mounted in a concealed location
- Standard 12 VDC power

## AVAILABLE:

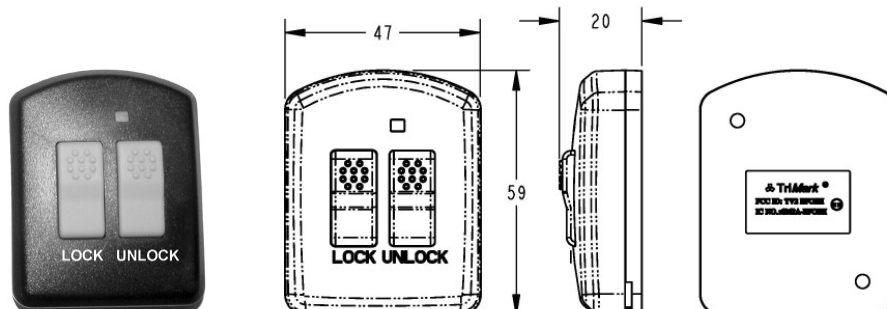
- Three different programming functions; standard mode, cargo mode and sustained mode. Modes provide customized remote fob transmitter use.
  - ◇ Standard mode allows for the lock/unlocking of doors plus panic mode and one auxiliary output (controls lighting, opens compartment etc.).
  - ◇ Cargo mode allows for the lock/unlocking of main personnel doors plus independent control of many cargo/compartments doors.
  - ◇ Sustained mode allows for the lock/unlocking of doors plus continuous output control with lower buttons pressing.
- 4-button standard and cargo fob, 2-button fob, and wall mount
- Customized graphics possible (buttons and logos - please inquire)



U.S. Design Patent No. D563,097 / D590,780 / D589,000



All dimensions are for reference only. For more information visit [www.trimarkcorp.com](http://www.trimarkcorp.com)



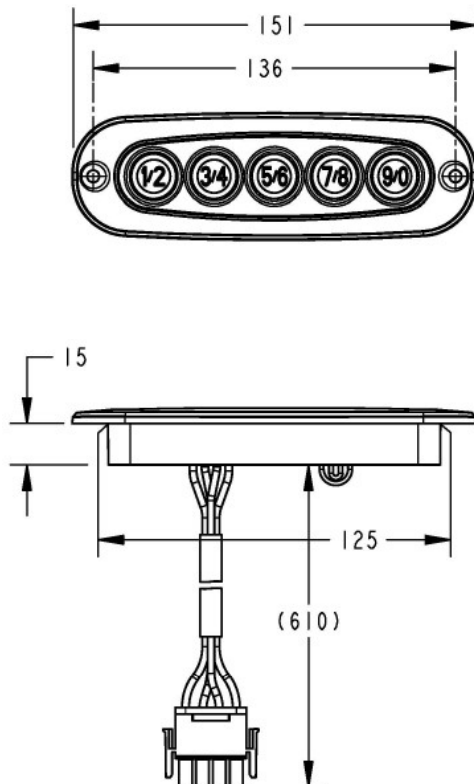
# 540-0100 e-PAD Keypad

This cost-effective, simple, and integrated system offers increased security, convenience and functionality with reduced system installation complexity and lower installation costs for demanding users of RVs, heavy trucks, emergency vehicles, agricultural and construction equipment.

- TriMark's e-ASK systems consist of a selection of compatible components that allow for complete keyless entry for on or off-highway vehicle applications
- Incorporation into TriMark mechanical latches, handles and systems by providing keyless-entry, security, and convenience for access door systems through a touch pad electronics interface

## FEATURES/BENEFITS:

- Increased end user convenience
- Easy and intuitive to operate
- Rugged and durable construction
- Compliant to on-road, off-road, and industrial environmental requirements
- Can control numerous entry/compartament doors
- Independent control of multiple door zones
- Tactile, visual, and audio feedback
- Over 3000 code combinations with tamper lock-out feature
- Lighted keypad for more effective night time usage
- Vertical and horizontal orientations
- Five user codes can be assigned
- Multiple layer code control



## AVAILABLE:

- With e-FOB remote transmitter integration
- With security system integration
- Vertical and horizontal keypad
- Complete kit with wire harnesses and other accessories
- Customized wire harnesses
- Multiplexed or discrete communications protocol

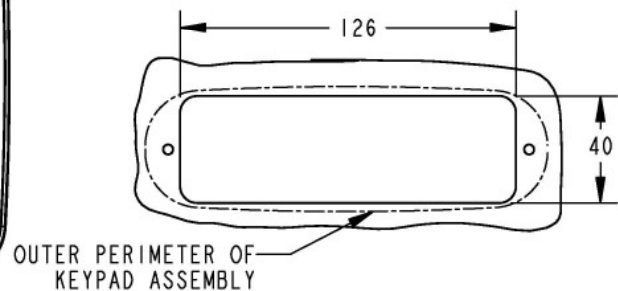
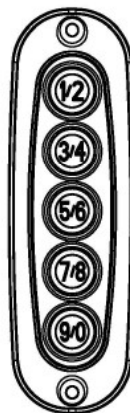
## INSTALLATION:

- Keypad is easy to install with (2) #8 or M4 flat head screws (not included)
- Can be installed in a wide range of locations in door - either horizontal or vertical orientation
- Standard 12 VDC power

U.S. Design Patent No. D486,376

U.S. Patent No. 7,034,655

All dimensions are for reference only. For more information visit [www.trimarkcorp.com](http://www.trimarkcorp.com)



RECOMMENDED KEYPAD CLEARANCE CUTOUT



# 540-0125 e-PAD Keypad With Relays

This stand alone keypad provides cost-effective and simple power door lock/unlock and unlatch control. The keypad, with on-board relays, provides increased security and convenience to minimize system and installation cost. Demanding users in the travel trailer, tool box, utility truck and low end motorized RV market will appreciate the high-end functionality at a value price.

## FEATURES/BENEFITS:

- 12V high current relay outputs
- Easy and intuitive to operate
- Rugged and durable construction
- Compliant to on-road environmental requirements
- Tactile and audio feedback
- Over 3000 code combinations with tamper lock-out feature
- Vertical and horizontal orientations
- Five user codes can be assigned
- Multiple layer code control
- Stand-alone keypad

## AVAILABLE:

- Vertical and horizontal keypad
- Lighted keypad - optional
- Complete kit with wire harnesses and other accessories
- Customized wire harnesses

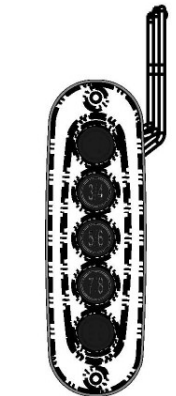
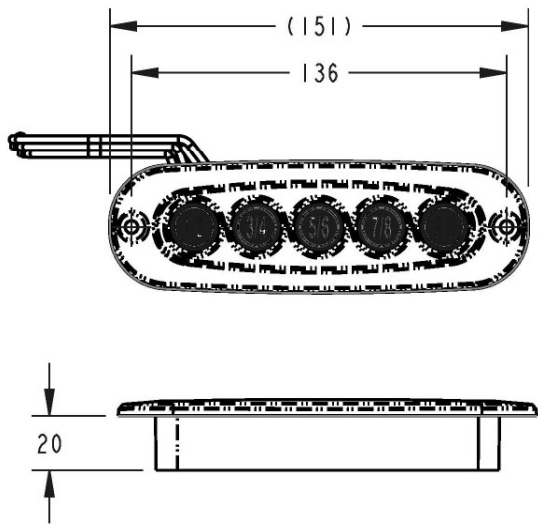
## INSTALLATION:

- Keypad is easy to install with (2) #8 or M4 flat head screws (not included)
- Can be installed in a wide range of locations in door - either horizontal or vertical orientation
- Standard 12 VDC power
- Gasket provided

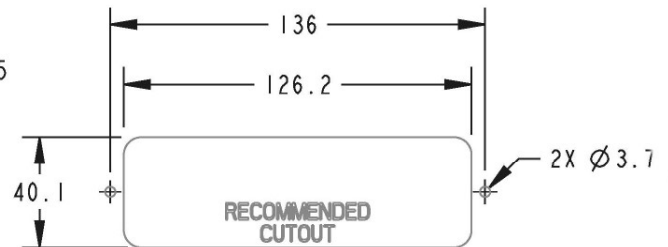
U.S. Design Patent No. D486,376

**Caution:** This product is not intended for use in wet locations where the backside is exposed to moisture.

All dimensions are for reference only. For more information visit [www.trimarkcorp.com](http://www.trimarkcorp.com)



SCALE 0.375



NOTES: UNLESS OTHERWISE SPECIFIED:

- ① 1. POWER WIRES: 1/4" MALE SPADE TERMINAL, 250 mm
- ② 2. OUTPUT WIRES: .156" FEMALE BULLET TERMINAL, 250 mm



# 540-0200 Lighted Grab Handle With Keypad (e-GRAB)

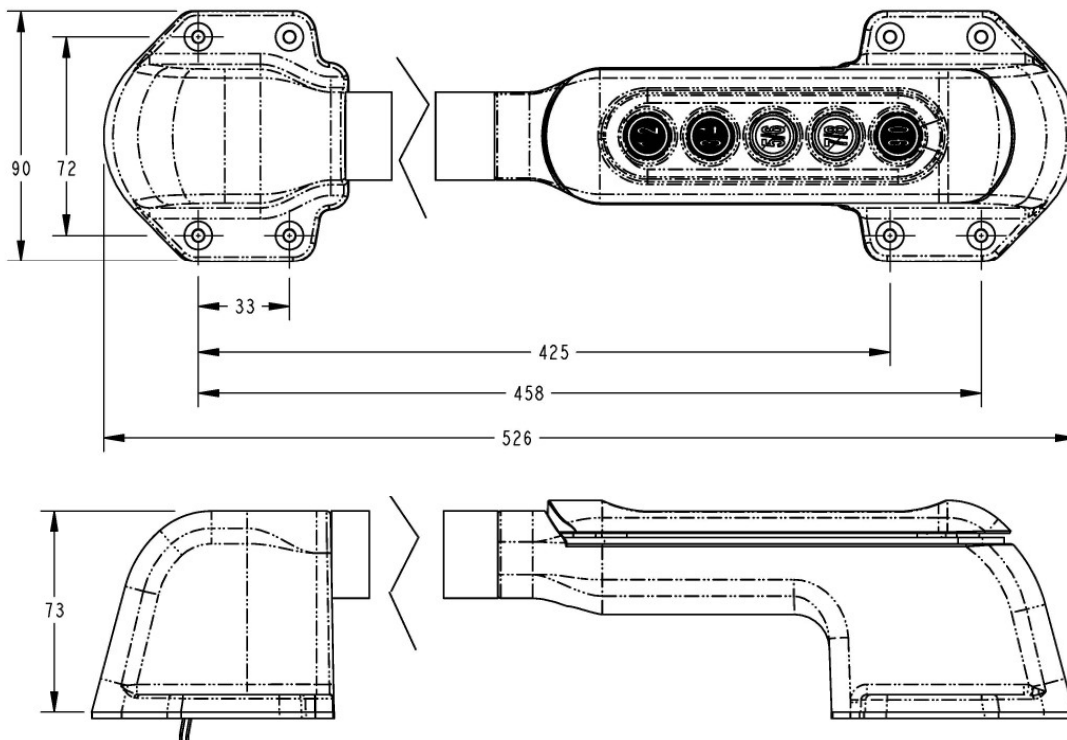
This product incorporates TriMark's e-ASK keypad into a stylish entry assist handle for RV coaches, motor homes and travel trailers. Offering increased end user convenience with high end look and feel, the grab handle provides keyless entry, security, and convenience through a keypad electronic interface.

- Incorporation with TriMark mechanical latches, handles and systems

## FEATURES/BENEFITS:

- Increased end user convenience
- Offers modern styling with high end look and feel
- Rugged and durable construction is environmentally sealed for long life
- Lighted keypad and handle rod for more effective night time usage
- Tactile, visual and audio feedback with the ability to control the handle rod LED light also
- Can control numerous entry/compartments doors with independent control of multiple door zones

All dimensions are for reference only. For more information visit [www.trimarkcorp.com](http://www.trimarkcorp.com)



## AVAILABLE:

- CAN multi-plex or discrete e-PAD Keypad (reference platforms 540-0100 and 500-1000 for additional information)
- With or without door bell feature
- Handle rod can be personalized with manufacturer name, model, logo etched
- Complete kit with wire harnesses and other accessories
- With e-FOB remote transmitter integration
- With security system integration

## FINISH:

- High quality polished copper-nickel-nickel chrome is durable and stylish

## MATERIAL:

- Sturdy zinc die cast alloy housing, cover and end cap
- Cast acrylic rod in clear or frosted finish

## INSTALLATION:

- Easy to install with (8) #8 or M4 fasteners (not supplied)
- Cost effective modular handle requires fewer holes in sidewall than separate components for ease of installation

# 500-1300 e-ASK PKE System (Passive Keyless Entry)

**TriMark's third generation of e-ASK Systems** consists of a selection of compatible components that allow for complete keyless entry for on- or off-highway vehicle applications. It features Passive Keyless Entry (PKE) and offers optional vehicle mobilization/immobilization and keyless push button start. These are the same 'state of the art' electronics that are featured on higher end automobiles and is now available for integration on your vehicles.

This new generation of Remote Keyless Entry not only brings expanded vehicle convenience and security to the end consumer, it also adds value to the Original Equipment Manufacturer (OEM) by incorporating the Passive Keyless Entry (PKE), immobilization and keyless start into a single package.

## How does passive keyless entry/start work?

Passive entry: No button presses are required. Simply placing a hand near the door handle or within range (30 mm) of the external capacitive sensing 'puck' will wake up the PKE controller. The controller sends a low-frequency (LF) signal, all FOBs within range respond with their serial numbers using a radio frequency (RF) signal. The controller compares the serial numbers against a stored list of authorized FOBs. The LF messaging also uses a random numbering scheme to prevent intercepting attacks. If an authorized FOB has responded, the door unlocks in less than one second.

RF entry: The FOBs also have typical lock/unlock buttons that can be used from up to 50 meters using RF signals with encrypted messaging. The FOB must decrypt the message and send back an appropriate response before the PKE controller will unlock the door.

The engine can be started by simply pressing the start button. The system uses the LF/RF messaging a second time to ensure an authorized FOB is within range inside the vehicle using the same protocol. The controller then communicates to another J1939 device that it's appropriate to mobilize the vehicle also using encrypted messages. The combination of LF challenge and RF response delivers low power consumption and long battery life.

This system allows for single standardized hardware architecture to be configured for many different user interfaces and many different applications. The resulting hardware includes a common controller and other peripheral modules. This hardware is already tested and validated and can be utilized to other applications with a high level of confidence.

Furthermore, common software development can support future applications adoption, controlling the I/O control module and communications (J1939 250k, J1939 500k or RV-C).

## DESIGNED FOR:

TriMark's comprehensive matched component selection allows for complete keyless entry, security, and ignition control for varied levels of sophistication of on- or off-highway vehicles, machine, or other equipment. Standard electronic controls are available for immediate integration, but also software adaptations can be provided for specific OEM and customer requirements.

## FEATURES/BENEFITS:

- Keyless-entry security and convenience for access door systems through a 'state of the art' electronic interface for the ultimate in end user convenience, functionality and security
- Passive Keyless Entry (PKE) provides for 'hands free' unlocking
  - ◇ When the user's hand enters the field under the handle portion, the system wakes up
  - ◇ This activity energizes the exterior antenna. FOBs in range will respond with their serial numbers combined in a data packet sent via 433 MHz using a radio signal frequency (RF)
  - ◇ If the FOBs respond with serial numbers that match an authorized list, the control module will pulse the unlock motor for 1/2 second to unlock the handle
- Easy and intuitive to operate
- Rugged and durable construction—compliant to on-road, off-road, and industrial environmental requirements
- Independent control of multiple door zones
- CAN J1939 (250k/500k) or RV-C communications
- Locking/unlocking confirmation
- Lighting and auxiliary output control
- Emphasizes a new modular approach for multiple user interfaces and enables adoption of new technologies such as wireless communications protocols that are more common in automotive and smart phone usage, namely remote passive entry and Bluetooth/WiFi protocols (coming soon)

## e-FOB:

- Stylish 4-button PKE FOB - operates at 125 kHz (PKE) and 433 kHz (RF) transmission (compliant to FCC-Part 15 and EU RF requirements)
  - ◇ 4-button FOB can be used for other functions such as illumination of work lights as you approach the machine for safe entry or service of the machine
  - ◇ The key FOB can also be used as a normal RF keyless entry so unlocking via button presses is possible
  - ◇ RF range is approximately 100 meters
- High security with random numbering scheme between the FOB(s) and controller to prevent attacks/hacking



# 500-1300 continued

- Customized graphics possible (buttons and logos)
- Can sync up to 4 FOB transmitters to vehicle
- Passive Start - FOB needs to be located inside the vehicle to allow Passive Start
- Immobilization – if the correct FOB is not within range of the internal antenna, the vehicle cannot be started

## e-CONTROLLER:

- Waterproof enclosure with high quality Deutsch connectors – (2) 12 pin connectors or unsealed enclosure with AMP Duac connectors
- Enables distributed functionality, such as multiple door control and ignition immobilization, via vehicle multiplex communication



## AVAILABLE:

- Standard kit make up includes: 2 pre-paired PKE remote FOB transmitters, IO module, external antenna and manual
- Multiplex or discrete communications
- Can add TriMark's 540-0100 e-PAD Keypad for true keyless operation
- Customized wire harnesses
- Optional kits can include: any wiring harnesses for all connection points of system, extra relays, switches, door contacts, actuators, mounting hardware, mounting brackets, door latches, and exterior door handles



## ANTENNA:

- RFID Antenna (125 kHz) - 1 external for cab entry (PKE) and 1-2 for interior; immobilization and push to start
- Potted construction ensures environmental protection and durability performance – can be used in exterior or interior locations
- Custom mounting brackets available



## REMOTE START:

- Optional Remote Start available with select engines. Custom software required to communicate with Engine Control Unit (ECU)

## USE WITH:

- TriMark 510-0300 PKE Module
- TriMark 530-0400 PKE FOB
- TriMark 590-1200 PKE Antenna
- TriMark 020-0870 Power Locking Pull Handle with Capacitive Sensor for PKE
- TriMark puck with Capacitive Sensor for PKE
- TriMark 540-0200 Lighted Grab Handle with Keypad (e-GRAB)

## INSTALLATION:

- Standard 12 VDC power
- I/O module is easily installed with (2) 1/4 or M6 screws (not included) and can be mounted in a concealed location

U.S. Patent No. 8,350,669

U.S. Patent Design No. D803,792



e-ASK:

PKE  
139

# 550-0100 Power Lock Actuators

TriMark's new Power Lock Actuator has been tested and validated to meet stringent performance requirements thus insuring a long life of trouble operation

## DESIGNED FOR:

- TriMark handles and latches equipped to accept a power lock actuator that provides a push/pull function and a clutch that allows for manual override with a key

## FEATURES/BENEFITS:

- Reliable and durable to high cycle counts in various environmental extremes
- High impact case design
- Long travel distance - .83" (21mm)
- Each actuator is tested to 10.0 lbs./44.5N - maximum output force is 13.5 lbs./60N. It is recommended that a minimum load of 2.5 lbs./11N be applied in the application for maximum product life.
- Motor is equipped with 12V thermal protection for excessive heating due to extreme usage such as rapid, frequent operations or sustained activation, which can cause premature motor failing or motor seizing
- Motor varistor for electrical transient noise reduction
- Actuator is equipped with a clutch mechanism for soft starts/stops and allows for manual override with key
- Includes a rotatable/detachable tip for ease of application
- 20 gauge, UL 1007 compliant



## AVAILABLE:

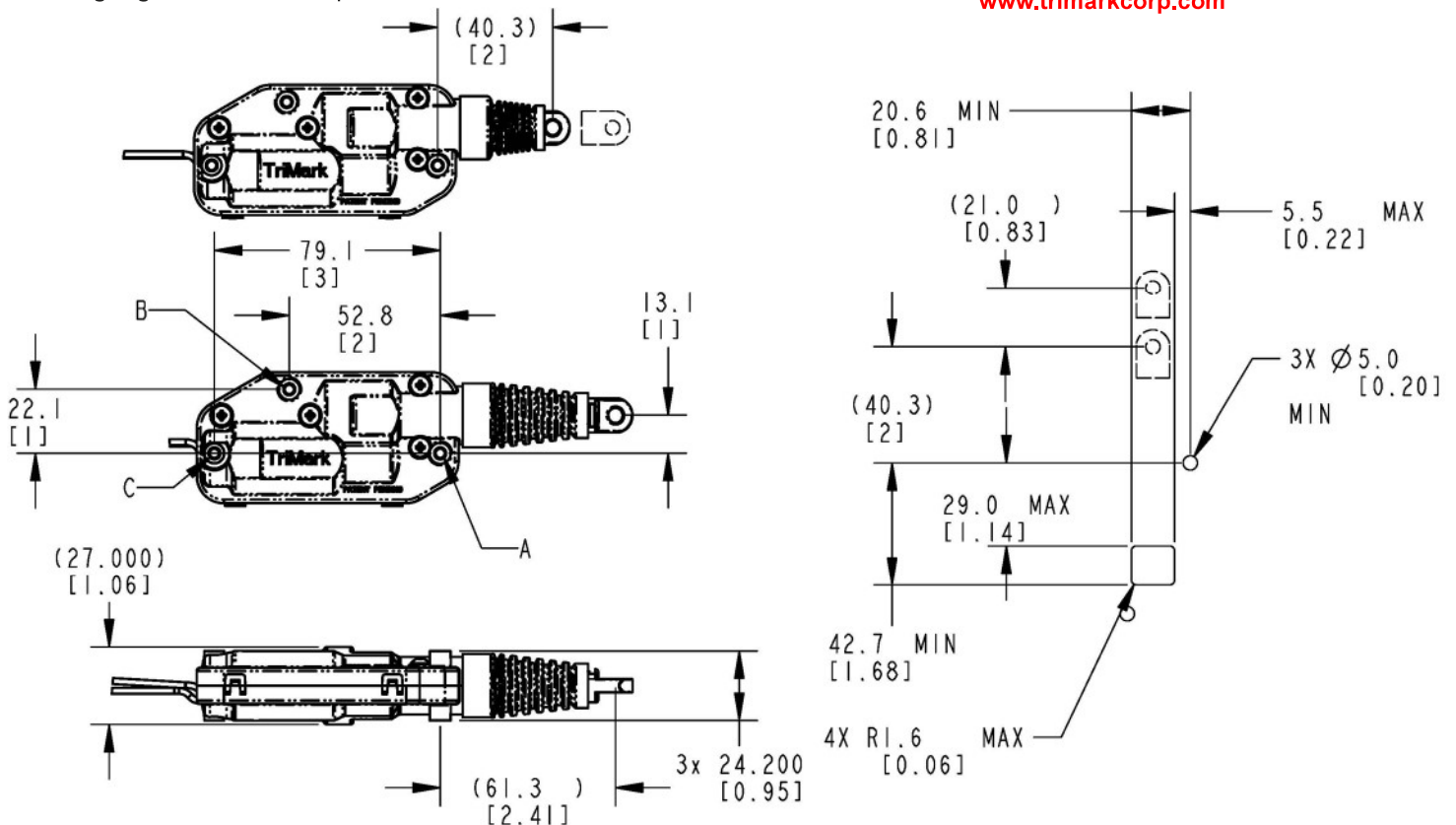
- Wiring options: blunt ends, bullet connectors, spade or Delphi connectors (please inquire)
- Possible customization available to include special connectors, custom wire length and kitting options. Please contact TriMark for more information.

## INSTALLATION:

- TriMark power actuators are easy to install either by integrating or mounting directly into available TriMark latches or handles
- 12 volt supply (9-16 VDC)
- Each actuator can draw up to 4.0A (nominal) of current - proper sized and located circuit protection is required at triggering device (switch/relay) that controls the actuator

Patent Pending

All dimensions are for reference only. For more information visit [www.trimarkcorp.com](http://www.trimarkcorp.com)





# 610-0100 Ignition Switch

TriMark's ignition switches satisfy the toughest customers in the roughest environments with superior performance and reliability. Further enhancement is now available by offering a heavy duty ignition switch for on or off-highway applications with KeyOne™ Plus modular locking system providing "One Key - One Vehicle" convenience.



## FEATURES/BENEFITS:

- Contact rating: 50 Amp at 12 VDC continuous (battery)
  - ◊ Ignition - 20 Amps
  - ◊ Accessory - 30 Amps (inductive)
  - ◊ Start -.33 Amps
- Standard positions: Accessory, Off, On (ignition/ accessory) and Start
- Rugged and durable construction is environmentally sealed for long life
- Standard brass Packard Electronic Connectors (#56)

## AVAILABLE:

- KeyOne™ Plus for a single-key system, keyed alike or keyed random
- In a wide variety of codes which allows the customer flexibility in keying a unit alike or differently
- Custom terminal configurations (please inquire)
- Custom function and positions (please inquire)



## FINISH:

- Retaining nut: Black or bright chrome
- Housing: Satin nickel

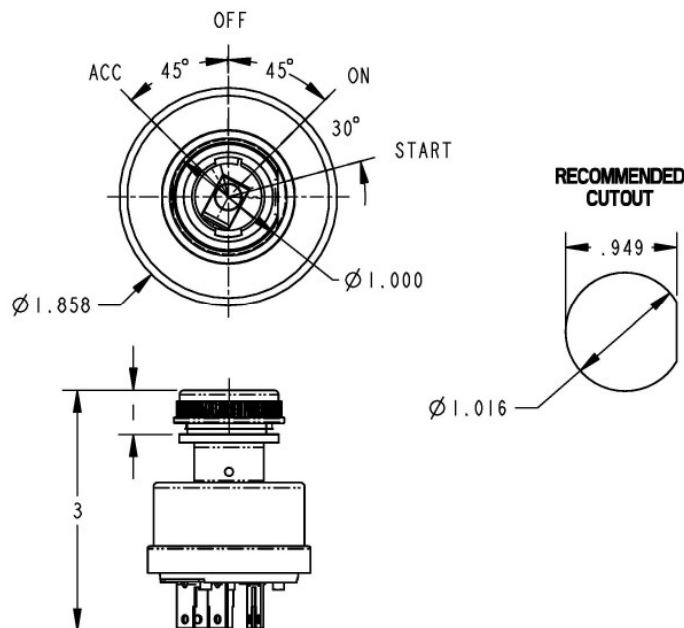
## MATERIAL:

- Sturdy zinc die cast alloy housing and retaining nut
- Base: engineered plastic
- Terminals and contacts: tin plated brass

## INSTALLATION:

- Standard 1.00" (25.8mm) mounting hole
- Recommended panel thickness; .115-.225" (2.9-5.7mm)
- Knurled retaining nut is included. Recommended torque in 10 ft-lbs. (13.3 N-m)

All dimensions are for reference only. For more information visit [www.trimarkcorp.com](http://www.trimarkcorp.com)





# 100-5020 TriGuard Heavy - Duty Slimline Hardware Module V2

This heavy duty, pre-engineered door module was updated to provide expanded functionality. Providing automotive-like functionality in a low profile, easy to install one-piece module, it is now available with a rotating lever exterior handle and a second remote latch. Featuring TriMark's 050-1600 Heavy Duty Latch, it allows power locking and is compliant to FMVSS 206 (ECE R11) strength requirements.

## FEATURES/BENEFITS:

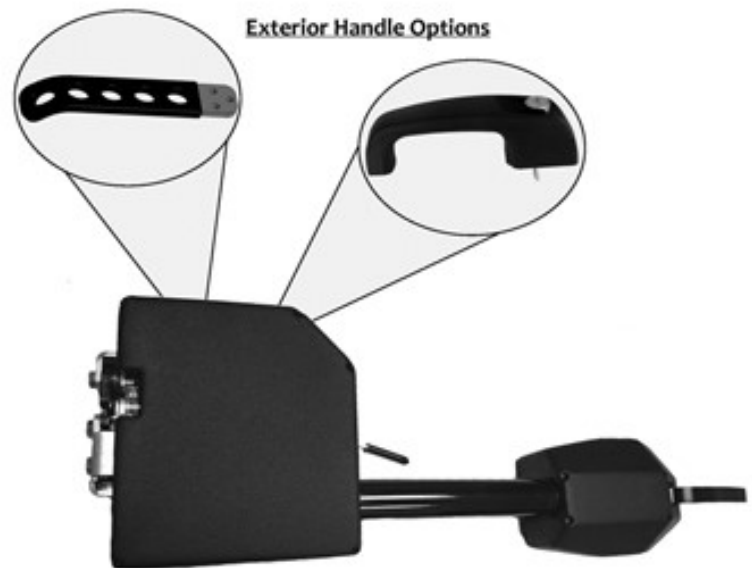
- Heavy duty modular construction is received fully assembled and tested
- Cuts door assembly time by as much as 50% to 70% - improving vehicle cost and throughput
- Improved serviceability in the field and ability to retro fit into existing applications
- Interior locking mechanism provides additional safety for occupants
- Single motion egress
- Incorporates TriMark's proven 050-1600 Heavy Duty Latch
- Integrated weight support system - designed for heavy-duty doors up to 277 kg (500 lbs.)
- Designed to be used with TriMark's 040-0600 TriMount Push Button Handle or 010-1000 Rotating Lever Handle

## INSTALLATION:

- Easy to install, mounts with (7) M8 x 1.25" (5/16-18 UNC) class 8.8 fasteners
- Tighten to the manufacturers' recommended torque value

## AVAILABLE:

- Remote or integrated exterior handle options (integrated version shown)
  - Exterior handle options—push button handle or rotating lever handle
- Right or left hand versions (left hand shown)
- Latch and striker available with self-aligning "slam cam" to compensate for door sag on heavy doors
- Remote second rotary latch to facilitate tall or heavy doors
- Optional power lock actuation provides reliable function and automotive convenience
- Customization features available. Please inquire:
  - ◇ Mounting details
  - ◇ Length of grab bar
  - ◇ Exterior handle type
    - ◇ 040-0600 Push Button Handle with KeyOne™ Plus locking or 010-1000 Rotating Lever Handle with offset modifications, bolt-on, pinned or integrated wrench for system override requirement



## MATERIAL:

- Standard - high strength steel construction
- Available with advanced lightweight aluminum alloy

## FINISH:

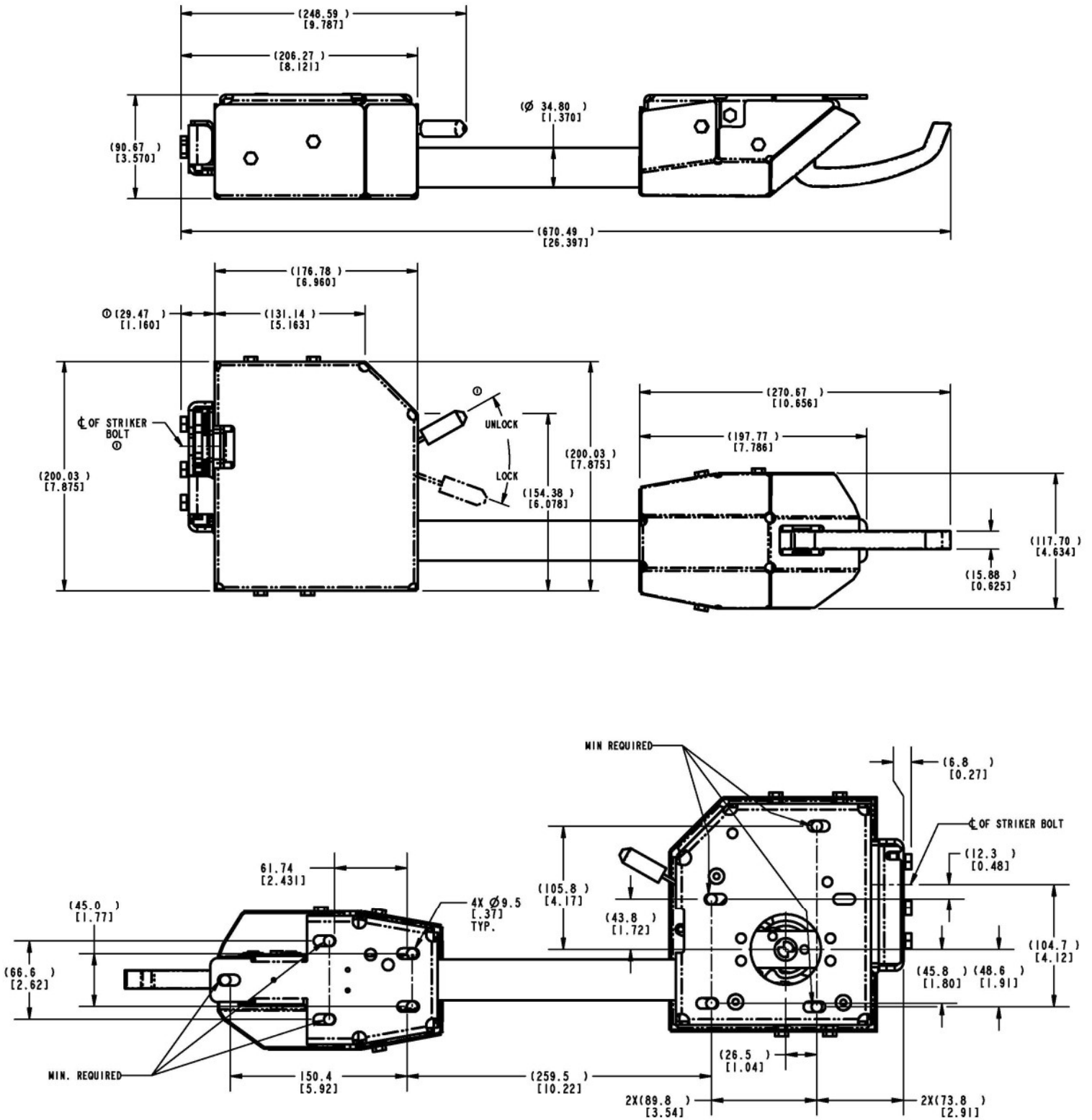
- Standard low gloss black powder coated
- Mil-Spec soft grip nylon coated covers and grab handle
- Robust corrosion protection
- Optional finishes available including: Black Magni™ coating, Tan/Olive CARC paint and Tan/Olive powder coating

## U.S. Patent No. 8,091,933

Applications of this system may fall within the requirements of FMVSS 206 and SAE J839 safety standards. These safety related requirements are dependent on door application, e.g. front and rear hinged doors, sliding doors, or hinged upward swinging doors. The entire door hardware system must be included in the design/analysis process: latch, handle, lock mechanism, rods/linkages, fasteners, hinges, etc. This ensures compatibility of all components within the hardware system. If FMVSS 206 is a requirement, then all of the components within the door system must comply with strength, inertia and locking requirements as specified within the Standard. Note that this product complies with FMVSS 206 when tested in accordance with SAE J839 and that this system meets FMVSS 206 loads and locking requirements and may be used in FMVSS 206 applications pending TriMark application approval.



# 100-5020 continued



All dimensions are for reference only. For more information visit [www.trimarkcorp.com](http://www.trimarkcorp.com)

# 100-5200 *COMMAND*Door Plus

*COMMAND*Door Plus is a complete power assist module that can simply and safely open and close the heaviest of armored vehicle doors with one intuitive motion and can be custom engineered to fit virtually any vehicle. The door fully integrates combat locks with a power-assist actuation and control system to open and close the door for those vehicles with very heavy doors. The inside control handle's unique two axis electromechanical design allows for simple and intuitive hand motions by the soldier to activate the open and close action of the door. Powered integration of the combat locks-automatically engaging them after door closure and automatically opening during the door opening, allows for the opening and closing of rear seat personnel doors remotely by the driver or commander from the front seat.

## **FEATURES/BENEFITS:**

- Designed to withstand the rigors of battle and rugged off-road abuse the system easily operates heavy armored doors by a 5th percentile female soldier, but stands up to the adrenalin-driven strength of a 95th percentile male soldier.
- The centerpiece of the *COMMAND*Door functionality is the *COMMAND* Handle. By designing a system in which a single control handle's motion coincides with the desired direction of door travel, TriMark has provided the first true Intuitive Motion Control System for the war fighter's ingress and egress from heavily armored vehicles.
- Soldier can actuate combat locks and open and close powered doors and ramps with a single inside release from both the interior and exterior
- Door Module contains linear door actuator, integrated control system, back-up power source, control sensors, safety strips and all mechanical hardware to articulate door or ramp to open and closed positions
- Lower current demands reducing on-board electrical draw and battery requirements



Door  
Systems:

144



## **SAFETY:**

- Integrated safety features assure users and first responders' safe and reliable use
- Releasing the *COMMAND* Handle at any time immediately stops door movement
- The system incorporates safety strips to stop door movement and relieve pinch points
- An emergency stop provision disables powered motion and allows for manual control
- An emergency latch release feature allows disengagement of the combat locks from the outside and permits opening *COMMAND*Door on a vehicle that is damaged or whose personnel have been disabled
- Interior locking mechanism provides additional safety for occupants plus an emergency latch release feature allows disengagement of the combat locks from the outside and permits opening *COMMAND*Door on a vehicle that is damaged or whose personnel have been disabled

## **AVAILABLE:**

- Configurable to work with electric, pneumatic or electric-hydraulic actuators
- Remote actuation via a switch that can be dash mounted or door mounted
- Right or left hand versions for side hinges doors or ramp doors
- TriMark's proven 050-0850 Heavy Duty Latch provides FMVSS 206 (ECE R11) compliancy
- Can be purchased as separate products or complete one-piece modules ready for installation
- Customization features available - please inquire.

**U.S. Patent No. 8,132,844 / 8,506,002 / 9,004,552 / 9,159,219**

Note that this product complies with FMVSS 206 (ECE R11) when tested accordance with SAE J839 and that this system meets FMVSS 206 (ECE R11) loads and locking requirements and may be used in FMVSS 206 (ECE R11) applications pending TriMark application approval. Please refer to page 158 for the complete FMVSS 206 (ECE R11) statement.



**COMMAND**Door*Plus*

# 070-0100 .500" (12.7mm) Diameter Striker Bolt

Designed as a companion part for use with TriMark's single rotor latches and cage nuts that requires a .500" (12.7mm) diameter striker bolt and compliance to FMVSS 206 (ECE R11). It is available in a variety of lengths with several drive details and mounting thread choices.



**INSTALLATION:**

- Torque to 35 ft-lbs (46.7 N-m) minimum depending upon surface conditions

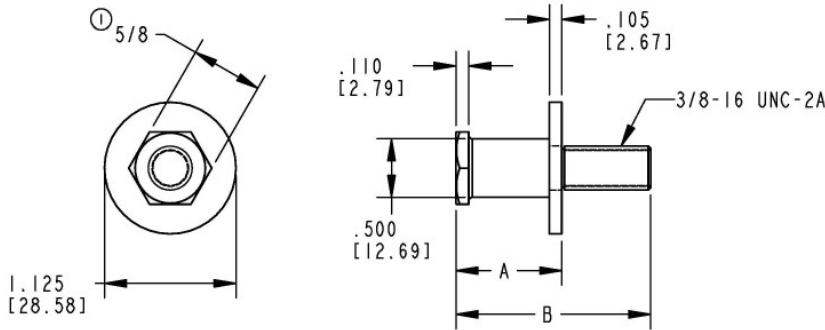
**MATERIAL:**

- Typical materials include AISI 4140 and AISI C10B21 steel (or equivalent), heat treated to TriMark ES-141

**FINISH:**

- Zinc plated with clear chromate

TriMark striker bolts are designed and tested to meet or exceed FMVSS 206 (ECE R11) safety requirements only when used with TriMark's corresponding FMVSS 206 (ECE R11) compliant latches. Note that some of the longer striker bolts have diminished load values in certain latch families. Please check with TriMark Engineering before finalizing your striker selection requiring FMVSS 206 (ECE R11) compliance.



DIMENSION "A"	DIMENSION "B"
0.905 [22.99]	1.465 [37.21]
0.905 [22.99]	1.665 [42.29]
0.905 [22.99]	2.630 [66.80]
1.045 [26.54]	1.805 [48.85]
1.300 [33.02]	2.060 [52.32]

# 070-0125 Striker Bolt

Designed as a companion part for use with TriMark's single rotor latches and cage nuts that requires a .500" (12.7mm) diameter striker bolt and FMVSS 206 (ECE R11) is not required.

**INSTALLATION:**

- Torque to 35 ft-lbs (46.7 N-m)

**MATERIAL:**

- Typical materials include AISI 4140 and AISI C10B21 steel (or equivalent), heat treated to TriMark ES-141

**FINISH:**

- Zinc plated with clear chromate

**CAUTION:** This headless striker bolt does not meet FMVSS 206 (ECE R11) load values.



All dimensions are for reference only. For more information visit [www.trimarkcorp.com](http://www.trimarkcorp.com)



# 070-0200 .675" (17.1mm) Diameter Striker Bolt

Designed as a companion part for use with TriMark's two rotor latches and cage nuts that requires a .675" (17.1 mm) diameter striker bolt and compliance to FMVSS 206 (ECE R11). It is available in a variety of lengths with several drive details and mounting thread choices.

**MATERIAL:**

- Typical materials include AISI 4140 and AISI C10B21 steel (or equivalent), heat treated to TriMark ES-141

**INSTALLATION:**

- Torque 7/16-14 UNC-2A to 56 ft-lbs (74.7 N-m) minimum depending upon surface conditions
- Torque 1/2-13 UNC-2A to 85 ft-lbs (113.3 N-m) minimum depending upon surface conditions
- Torque M12 x 1.75-6g to 75 ft-lbs (100.0 N-m) minimum depending upon surface conditions

**FINISH:**

- Zinc plated with clear chromate

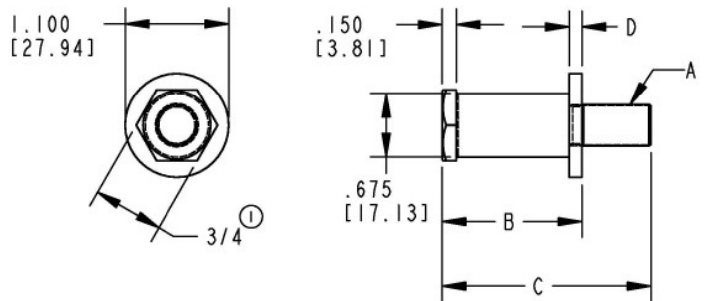
TriMark striker bolts are designed and tested to meet or exceed FMVSS 206 (ECE R11) safety requirements only when used with TriMark's corresponding FMVSS 206 (ECE R11) compliant latches. Note that some of the longer striker bolts have diminished load values in certain latch families. Please check with TriMark Engineering before finalizing your striker selection requiring FMVSS 206 (ECE R11) compliance.



**Note:** Striker bolt head and drive detail may vary from shown.

**All dimensions are for reference only. For more information visit [www.trimarkcorp.com](http://www.trimarkcorp.com)**

DIMENSION "A"	DIMENSION "B"	DIMENSION "C"	DIMENSION "D"
7/16-14 UNC-2A	0.984 [24.99]	1.715 [43.56]	0.134 [3.40]
7/16-14 UNC-2A	0.984 [24.99]	2.025 [51.44]	0.134 [3.40]
7/16-14 UNC-2A	1.484 [37.69]	2.215 [56.26]	0.134 [3.40]
7/16-14 UNC-2A	1.700 [43.18]	2.750 [69.85]	0.134 [3.40]
7/16-14 UNC-2A	1.174 [29.82]	1.905 [48.39]	0.134 [3.40]
1/2-13 UNC-2A	1.198 [30.43]	2.048 [52.02]	0.150 [3.81]
1/2-13 UNC-2A	1.582 [40.18]	2.362 [59.99]	0.150 [3.81]
M12 X 1.75-6g	1.000 [25.40]	1.732 [43.99]	0.150 [3.81]
M12 X 1.75-6g	1.489 [37.82]	2.205 [56.01]	0.150 [3.81]
M12 X 1.75-6g	2.209 [56.11]	3.110 [78.99]	0.150 [3.81]
M12 X 1.75-6g	2.950 [74.93]	3.820 [97.03]	0.150 [3.81]



# 070-0201 .550" (13.9mm) Diameter Striker Bolt

Designed as a companion part for use with TriMark's single rotor latches and cage nuts that requires a .550" (13.9mm) diameter striker bolt. It is available in a variety of lengths with several drive details and mounting thread choices.

**INSTALLATION:**

- Torque 7/16-14 UNC-24 to 56 ft-lbs minimum depending upon surface conditions

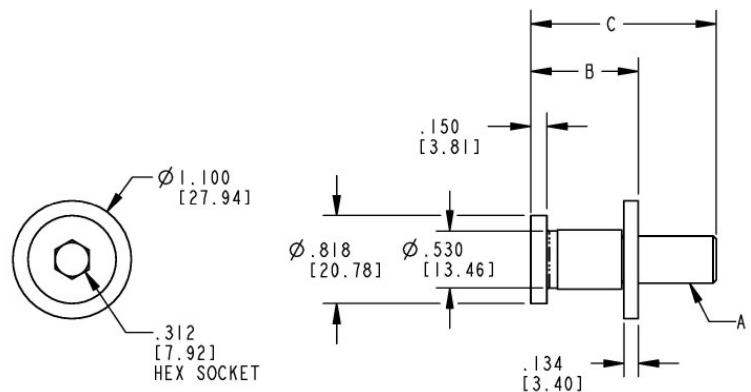
**MATERIAL:**

- Typical materials include AISI 4147 or AISI C10B21 steel (or equivalent), heat treated to TriMark ES-141

**FINISH:**

- Zinc plated with clear chromate

TriMark striker bolts are designed and tested to meet or exceed FMVSS 206 (ECE R11) safety requirements only when used with TriMark's corresponding FMVSS 206 (ECE R11) compliant latches. Note that some of the longer striker bolts have diminished load values in certain latch families. Please check with TriMark Engineering before finalizing your striker selection requiring FMVSS 206 (ECE R11) compliance.



**All dimensions are for reference only. For more information visit [www.trimarkcorp.com](http://www.trimarkcorp.com)**



# 070-0300 .375" (9.5mm) Diameter Striker Bolt

Designed as a companion part for use with TriMark's single rotor latches and cage nuts that requires a .375" (9.5mm) diameter striker bolt. It is available in a variety of lengths with several drive details and mounting thread choices.



**MATERIAL:**

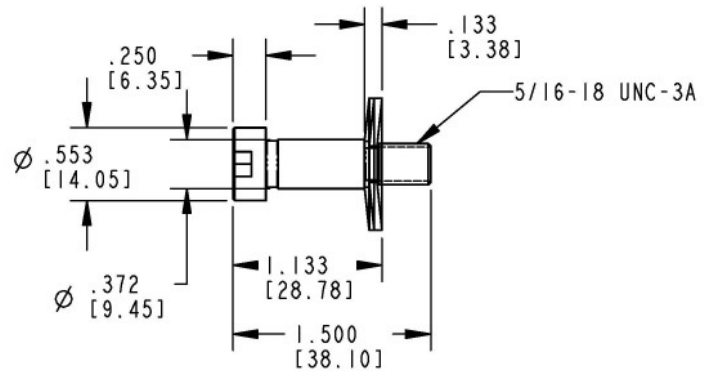
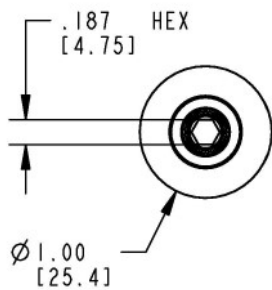
- Striker bolt: Medium carbon steel, heat treated
- Washer: Mild steel

**FINISH:**

- Striker bolt: Zinc plated with clear chromate
- Washer: Galvanized zinc

All dimensions are for reference only. For more information visit [www.trimarkcorp.com](http://www.trimarkcorp.com)

Caution: Product does not meet FMVSS 206 (ECE R11) load requirements.



# 070-0400 12mm Diameter Striker Bolt

Designed as a companion part for use with TriMark's single rotor latches and cage nuts that requires a 12mm (.472") diameter striker bolt.



**MATERIAL:**

- AISI 4140 steel heat treated

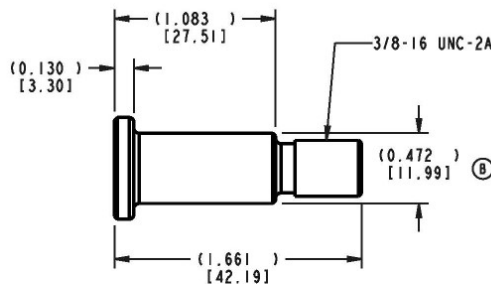
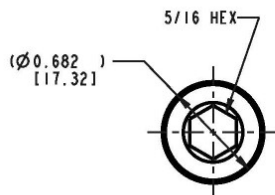
**INSTALLATION:**

- Torque to 35 ft-lbs (46.7 N-m) minimum depending upon surface conditions

**FINISH:**

- Zinc plated with clear chromate

TriMark striker bolts are designed and tested to meet or exceed FMVSS 206 (ECE R11) safety requirements only when used with TriMark's corresponding FMVSS 206 (ECE R11) compliant latches. Note that some of the longer striker bolts have diminished load values in certain latch families. Please check with TriMark Engineering before finalizing your striker selection requiring FMVSS 206 (ECE R11) compliance.



All dimensions are for reference only. For more information visit [www.trimarkcorp.com](http://www.trimarkcorp.com)

# 070-1000 8mm Hoop Strike

The 070-1000 8mm Hoop Strike is designed as a companion part for use with TriMark's single rotor latches that requires an 8mm diameter strike and compliance to FMVSS 206 (ECE R11).

## FEATURES/BENEFITS:

- Automotive style hoop-type strike features low profile and minimizes clothing snag hazard
- Base mounted style provides a rigid base for strike support
- Welded construction and heat treat exceeds FMVSS 206 loads

## AVAILABLE:

- 43mm high x 57mm long base
- Other versions available; please inquire
- Backer mount plate is available to facilitate strike mounting and adjustability (Part # 35285) (not included)

## MATERIAL:

- Hoop material is medium carbon steel, heat treated for strength and long life

## INSTALLATION:

- (2) M6 x 1 class 10.9 flat head fasteners required (not included)
- Tighten to the fastener manufacturers' recommended torque value, however, do not exceed 135 in-lbs (15.0 N-m)
- It is recommended that the hoop strike is mounted to the aperture with the TriMark Backer Mount Plate corresponding to hoop strike (Part # 35285) (not included)

**Note:** Aligning the latch and the hoop strike is KEY to proper latch function



Shown With Backer Mount Plate (not included)

## FINISH:

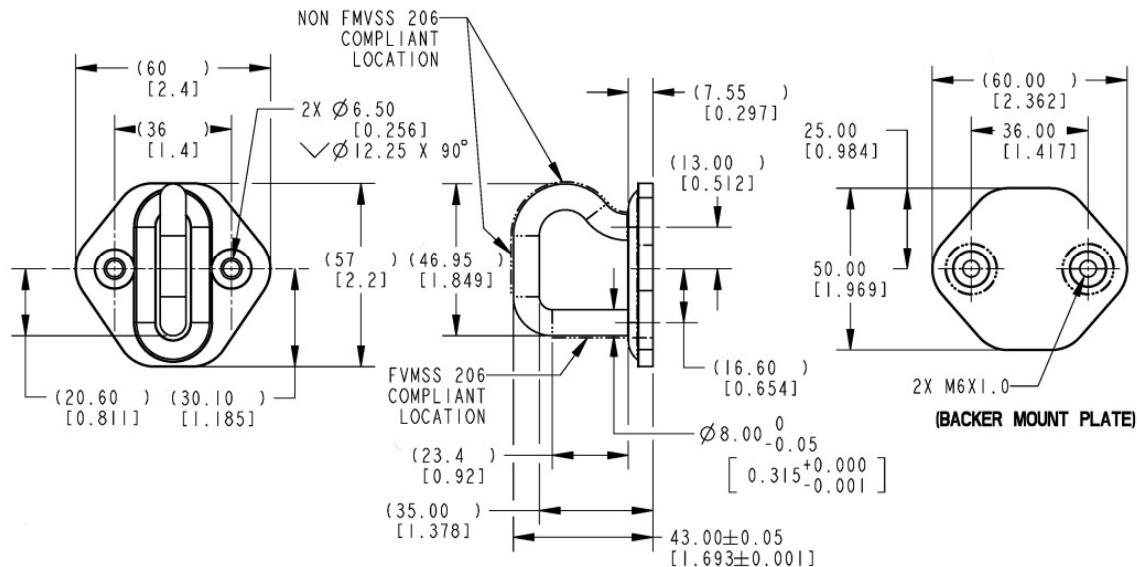
- Zinc plated with clear chromate

## LATCH & HOOP STRIKE INSTALLATION:

- Install hoop strike in door frame (It is recommended to use TriMark Backer Mount Plate on the inside of the door jamb to facilitate mounting and adjustability (Part # 35285) (not included)
- Close door carefully and check for interference between head of hoop strike and latch components
- Adjust hoop strike vertically so door is not guided upward or downward while being closed
- CHECK TO DETERMINE THAT BOTH SECONDARY AND PRIMARY LATCHING POSITIONS ARE USABLE
- Door should be latched but not "closed" in secondary position and latched to anticipated "closed" position with respect to adjacent surfaces in primary position
- If both primary and secondary positions are not evident, readjust hoop strike
- After installation, check door alignment and door seal pressures

TriMark hoop strikes are designed and tested to meet or exceed FMVSS 206 (ECE R11) safety requirements only when used with TriMark's corresponding FMVSS 206 (ECE R11) compliant latches.

**All dimensions are for reference only. For more information visit [www.trimarkcorp.com](http://www.trimarkcorp.com)**



Backer Mount Plate (not included)

# 070-7100 10mm Striker Pin

Designed as a companion part for use with single rotor latches that requires a 10mm (.394") diameter striker pin and compliance to FMVSS 206 (ECE R11).

## MATERIAL/FINISH:

- Typical materials include 212M36 (En8M) steel (or equivalent)
- Zinc and clear passivate

## INSTALLATION:

- M12 x 1.0 thread—torque to 113 N-m (85 ft-lbs) minimum depending upon surface conditions

Note: 070-7100 10mm Striker Pin is designed and tested to meet or exceed FMVSS 206 (ECE R11) safety requirements only when used with TriMark's corresponding FMVSS 206 (ECE R11) compliant latches.

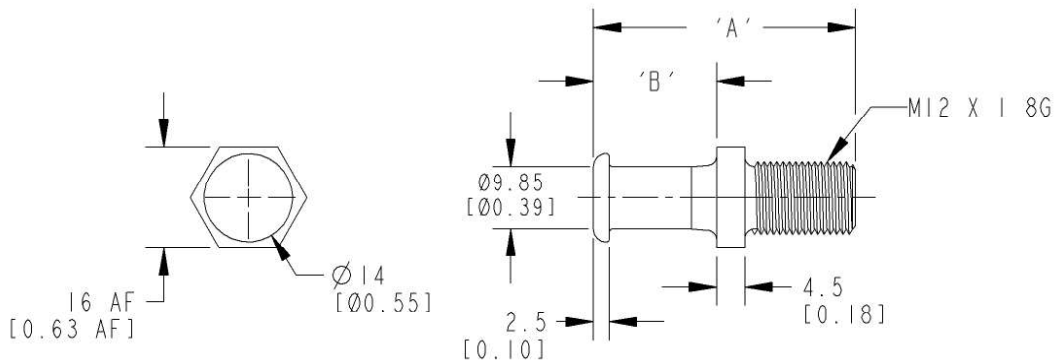
All dimensions are for reference only. For more information visit [www.trimarkcorp.com](http://www.trimarkcorp.com)



## STRIKER INSTALLATION:

- Install striker pin in door frame
- Close door carefully and check for interference between head of striker pin and latch components
- Add or remove shims under striker pin as required (outside diameter of shim should be larger than outside diameter of striker pin)
- Adjust striker pin vertically so door is not guided upward or downward while being closed
- CHECK TO DETERMINE THAT BOTH SECONDARY AND PRIMARY LATCHING POSITIONS ARE USABLE
- Door should be latched but not "closed" in secondary position with respect to adjacent surfaces in primary position
- If both primary and secondary positions are not evident, readjust striker pin
- After installation, check door alignment and door seal pressures

PART NO.	DIM 'A'	DIM 'B'
4713	41.5 [1.64]	19.5 [0.77]
4722	49.0 [1.93]	19.5 [0.77]
4747	49.5 [1.95]	27.5 [1.08]
4756	60.0 [2.36]	35.0 [1.38]



# 090-0100 Rod Clips

Designed to facilitate the connection between the latch and handles with rods for remote actuation and provides for easy assembly.

## AVAILABLE:

- In right and left hand, or non-handed design
- In a variety of diameters, materials and configurations

## MATERIAL:

- Medium carbon steel, heat treated and parkerized black for extra strength and corrosion resistance
- Color coded nylon for rattle free operation and ease of identification

## INSTALLATION:

- Provides for easy assembly of hardware



# 090-0120 Rods

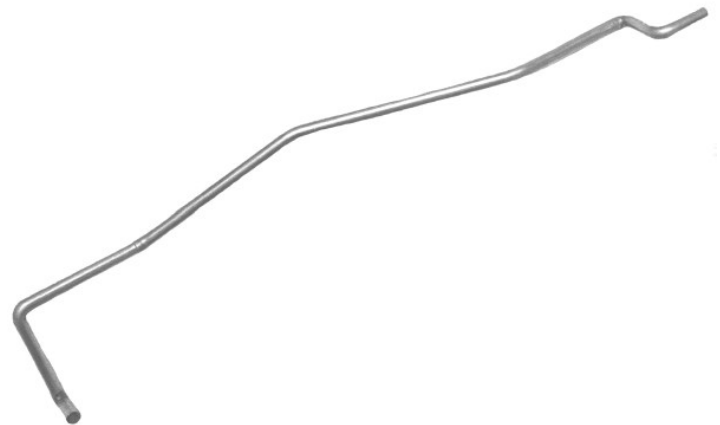
TriMark's control rods provide a connection between handles, latches, locks and linkages for remote actuation. These are available in a wide variety of options that include different lengths, diameters, offsets, retainer clips and adjustment features depending on the application requirements.

## DESIGNED FOR:

- Remote connection between TriMark handles, latches, locks and linkages
- Light to heavy duty applications for on or off-highway entrance and compartment doors
- Applications that require the transmission of forces in tension or compression

## AVAILABLE:

- In custom configurations and specific lengths to suit the application
  - ◊ Multiple bend capability including compound bend angles
- Available in the following rod diameters:
  - .125" (3.2mm)
  - .142" (3.6mm)
  - .156" (4.0mm)
  - .168" (4.3mm)
  - .188" (4.8mm)
  - .214" (5.4mm)
  - .250" (6.4mm)
  - .390" (9.9mm)
- Secondary operations including threading and swaging are available



- TriMark has experienced engineering and technical staff available to review your product requirements and suggest the best solution for your application

## MATERIAL/FINISH:

- Low carbon steel rod material
- Zinc plated, clear chromate finish

## INSTALLATION:

- Provides for easy assembly of door hardware/system

Applications of this product may fall within the requirements of FMVSS 206 (ECE R11) and SAE J839 safety standards. These safety related requirements are dependent on door application, e.g. front and rear hinged doors, sliding doors, or hinged upward swinging doors. The entire door hardware system must be included in the design/analysis process: latch, handle, lock mechanism, cables/rods/linkages, fasteners, hinges, etc. This ensures compatibility of all components within the hardware system. If FMVSS 206 (ECE R11) is a requirement, then all of the components within the door system must comply with strength, inertia and locking requirements as specified with the Standard. Note that this product complies with FMVSS 206 (ECE R11) locking requirements and may be used in FMVSS 206 (ECE R11) applications pending TriMark application approval.

# 090-0105 Control Cables

TriMark's proven control cables provide a flexible connection between our handles, latches, locks and linkages for remote actuation. These are available in a wide variety of options that include different lengths, mounting, terminations, fittings, retainer clips and adjustment features depending on the application requirements.

## DESIGNED FOR:

- Remote connection between TriMark handles, latches, locks and linkages
- Light to medium duty applications for on or off-highway entrance and compartment doors
- Applications that require the transmission of forces in pull or tension

## FEATURES/BENEFITS:

- Flexibility - easier to route cables in crowded/complicated doors than rigid rods (X, Y, Z directions)
- Cables are less prone to emit noise from vibration and door slamming than rods
- All assembled cables are pre-lubricated with a low-temperature grease for smooth operation and long life
- Cables allow for common use in different door widths and heights reducing SKUs compared to rigid rods (note that tight bends should be avoided in cable routing and that operating efforts can be impacted)
- Cables can be purchased pre-installed on the latch or handle and provided as a modular system or kit

## AVAILABLE:

- In custom configurations and specific lengths to suit the application
- TriMark has multiple methods of mounting, terminations, fittings, retainer clips and adjustment features depending on your application needs
- Optional spring return can provide additional assistance for linkage return
- Cables can be supplied pre-assembled and pre-adjusted for ease of assembly
- Standard and custom cable mounting brackets can provide for ease of installation into TriMark latches, handles, locks and linkages
- TriMark has experienced engineering and technical staff available to review your product requirements and suggest the best solution for your application.

## MATERIAL/FINISH:

- High strength stainless steel or galvanized steel braided cable
- Sheathing – braided reinforced polypropylene/nylon (black in color) with acetal lining
- All steel components are zinc plated, clear



## INSTALLATION:

- Provides for easy assembly of door hardware/system
- The correct mounting of the cable is critical to assure that long life and efficiency is maximized. Every control cable should be securely mounted to ensure the inner cable continues to travel in a straight line to the point of actuation.

Applications of this product may fall within the requirements of FMVSS 206 (ECE R11) and SAE J839 safety standards. These safety related requirements are dependent on door application, e.g. front and rear hinged doors, sliding doors, or hinged upward swinging doors. The entire door hardware system must be included in the design/analysis process: latch, handle, lock mechanism, cables/rods/linkages, fasteners, hinges, etc. This ensures compatibility of all components within the hardware system. If FMVSS 206 (ECE R11) is a requirement, then all of the components within the door system must comply with strength, inertia and locking requirements as specified with the Standard. Note that this product complies with FMVSS 206 (ECE R11) locking requirements and may be used in FMVSS 206 (ECE R11) applications pending TriMark application approval.



# 100-0200 Mounting Fasteners

Available as a companion part for use with TriMark's handles and latches to provide mounting and ease of installation. Versions are available for most TriMark products in a variety of types, sizes and lengths.



**DESIGNED FOR:**

- Mounting of TriMark latches, handles and linkages

**AVAILABLE:**

- In a variety of types, sizes and lengths

**INSTALLATION:**

- Provides for easy assembly of hardware

# 100-0400 Brackets, Spacers, Mounting Plates

Designed as a companion part for use with TriMark's handles and latches to provide mounting and ease of installation. Versions are available for most TriMark products in a variety of configurations.

**DESIGNED FOR:**

- Mounting the latches, handles and linkages

**MATERIAL:**

- Steel

**FINISH:**

- Zinc plate, clear chromate

**AVAILABLE:**

- In a variety of configurations

**INSTALLATION:**

- Provides for easy assembly of hardware



# 100-0410 Cage Nut

Designed as a companion part for use with TriMark's striker bolts, this product allows for vertical and horizontal adjustment for most striker bolts with 3/8-16 or 7/16-14 threads. It is available as a one-piece assembly or as separate parts for lowest cost and is FMVSS 206 (ECE R11) compliant.

## AVAILABLE:

- 3/8-16 or 7/16-14 threads
- Up to .250" (6.4mm) total vertical and .125" (3.2mm) total door seal adjustment
- One piece assembly for simplified installation
- Nut and retainer available separately for lowest cost

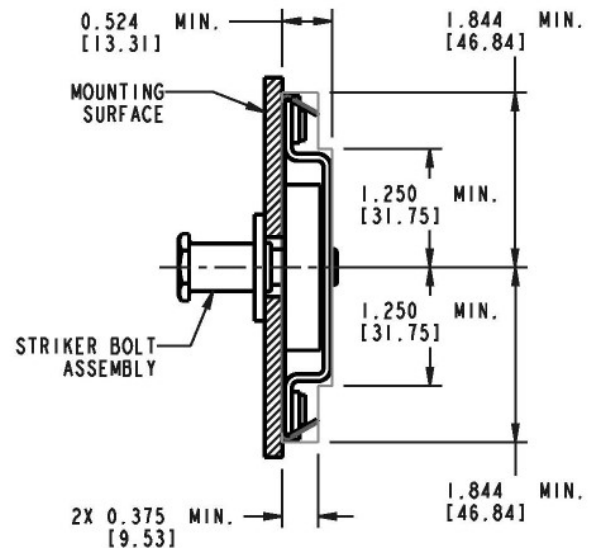
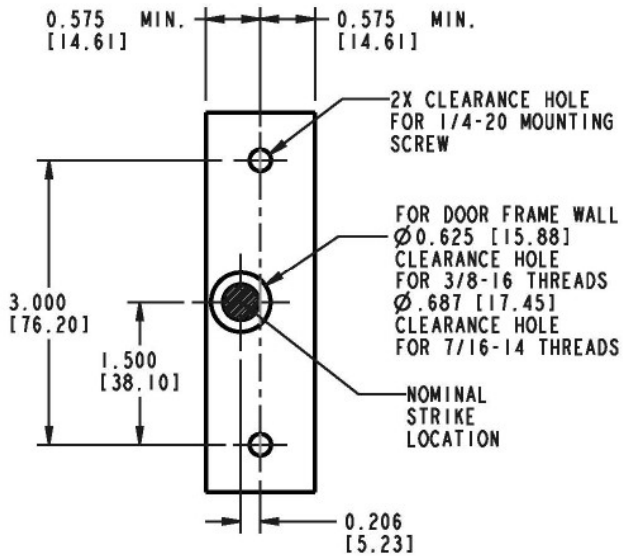
## INSTALLATION:

- Mounts with standard 1/4-20 screws (not included)
- Striker bolt mounting close to edge to allow use in applications where striker bolt is close to the frame edge



Steel nut withstands tensile loads applied to striker bolt in excess of 2500 lbs. (1134 kg) as required by FMVSS 206 (ECE R11).

**Note:** Together the cage nut and compliant striker bolt meets or exceeds FMVSS206 (ECE R11) load requirements.



All dimensions are for reference only. For more information visit [www.trimarkcorp.com](http://www.trimarkcorp.com)

# 100-0500 Strike Plate

Designed as a companion part for use with TriMark's sliding bolt latches.

**AVAILABLE:**

- In a variety of configurations

**FINISH:**

- Die cast zinc - no finish, black powder coated paint
- Steel - zinc plate, clear chromate

**MATERIAL:**

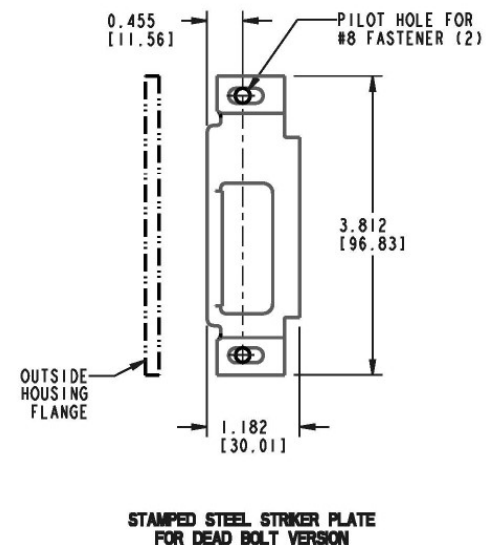
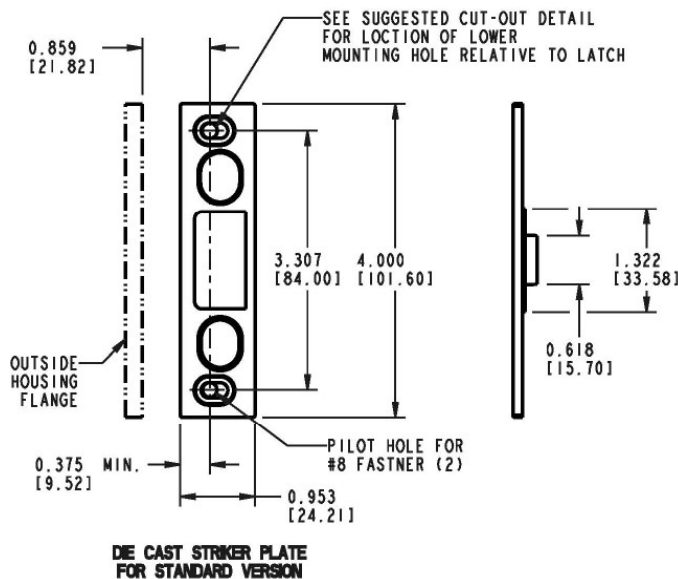
- Typical materials include die cast zinc and steel

**INSTALLATION:**

- Provides for easy adjustability of door



All dimensions are for reference only. For more information visit [www.trimarkcorp.com](http://www.trimarkcorp.com)



# 100-0800 Rod Collars

Designed to facilitate the connection between the latch and handles for remote actuation. This product provides for easy assembly and adjustability of hardware.

**AVAILABLE:**

- In two styles; staked-on retention and an easy clip-on retainer

**MATERIAL:**

- Die cast zinc, machined steel, aluminum or stainless steel

**FINISH:**

- Die cast zinc collars - clear chromate steel collars - zinc plate/clear chromate



**INSTALLATION:**

- Rod collars can be pre-installed by TriMark or attached at the point of door assembly

**NOTE:** Rod collars are not intended or recommended for use in applications that require FMVSS 206 (ECE R11) compliance or applications that have heavy or extreme striker bolt loads (> 25 lbs. / 11 kg) and/or high to extreme usage (> 100,000 door cycles/life).

# 110-0403 Cam Lock

Designed as a simple companion for TriMark's locking solutions, these 1/4 turn cam locks feature KeyOne™ Plus keying, multiple body lengths and a variety of cam options to provide application flexibility.

## DESIGNED FOR:

- Storage, baggage, compartment and access doors for on and off-highway vehicle applications

## AVAILABLE:

- In two body lengths for door thicknesses up to .400" (10.2mm) for the .83" (21mm) escutcheon depth and up to .600" (15.2mm) for the .98" (24.9mm) escutcheon depth
- With a variety of cam options including straight as well as offset versions (please inquire)
- Lock can be keyed to match other TriMark door products with KeyOne™ Plus for a single-key system
- Optional steel finger pull provides additional functionality
- Standard cam rotation is 90 degrees and can be configured clockwise and counterclockwise rotation with cam alignment at 90 degree increments (180 degree rotation is also available)
- Non-locking thumb turn and 7mm square tool operated drives are available in sturdy die cast zinc alloy with either low gloss black and chrome finish. Operation is smooth with detent rotation in latched and unlatched position. Other tool drives are available upon request.



With Finger Pull

## MATERIAL:

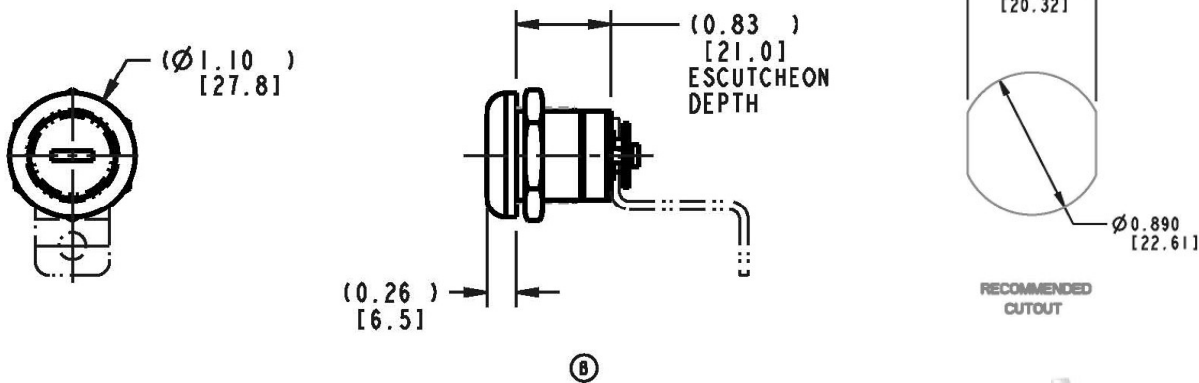
- Escutcheon: Die cast zinc alloy
- Mounting nut, lock stop and cams: Mild steel

## FINISH:

- Zinc plate, clear chromate conversion coat on all steel and zinc components

## INSTALLATION:

- Cam lock assembly comes with mounting nut and cam mount screw
- 1.00" (25.4mm) panel nut to secure cam lock to the door



All dimensions are for reference only. For more information visit [www.trimarkcorp.com](http://www.trimarkcorp.com)



Non-locking Thumb Turn and 7mm Square Tool Operated Drives

# 010-7200 Turnbuckle Catch

These very useful, easy to operate and low cost turnbuckles can be used in a multitude of ways for closing and hold back panels and doors.

## FEATURES/BENEFITS:

- L-shape style handle

## AVAILABLE

- Several styling, material, and finish options (please inquire)

## MATERIAL:

- Glass filled nylon (shown)
- Zinc casting

## FINISH:

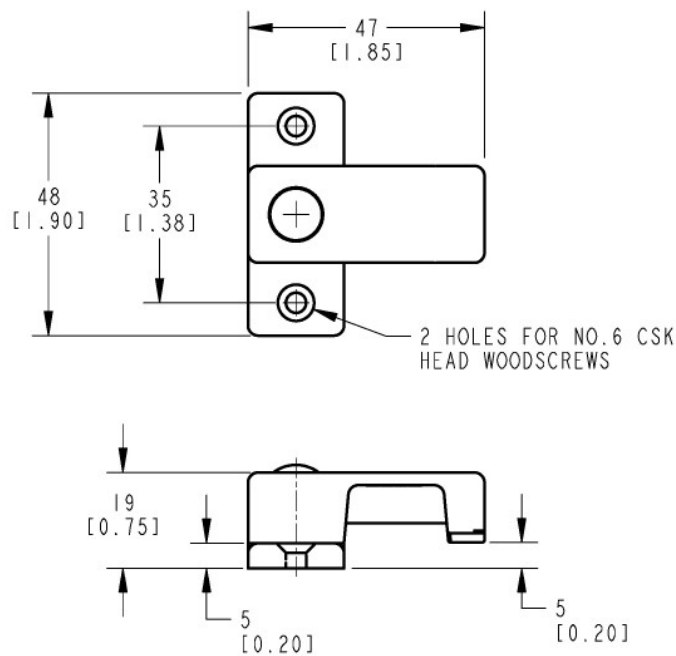
- Standard black (shown)
- Chrome plated
- Silver painted

## INSTALLATION:

- Easy to install, (2) 4.5mm diameter CSK through holes



All dimensions are for reference only. For more information visit [www.trimarkcorp.com](http://www.trimarkcorp.com)





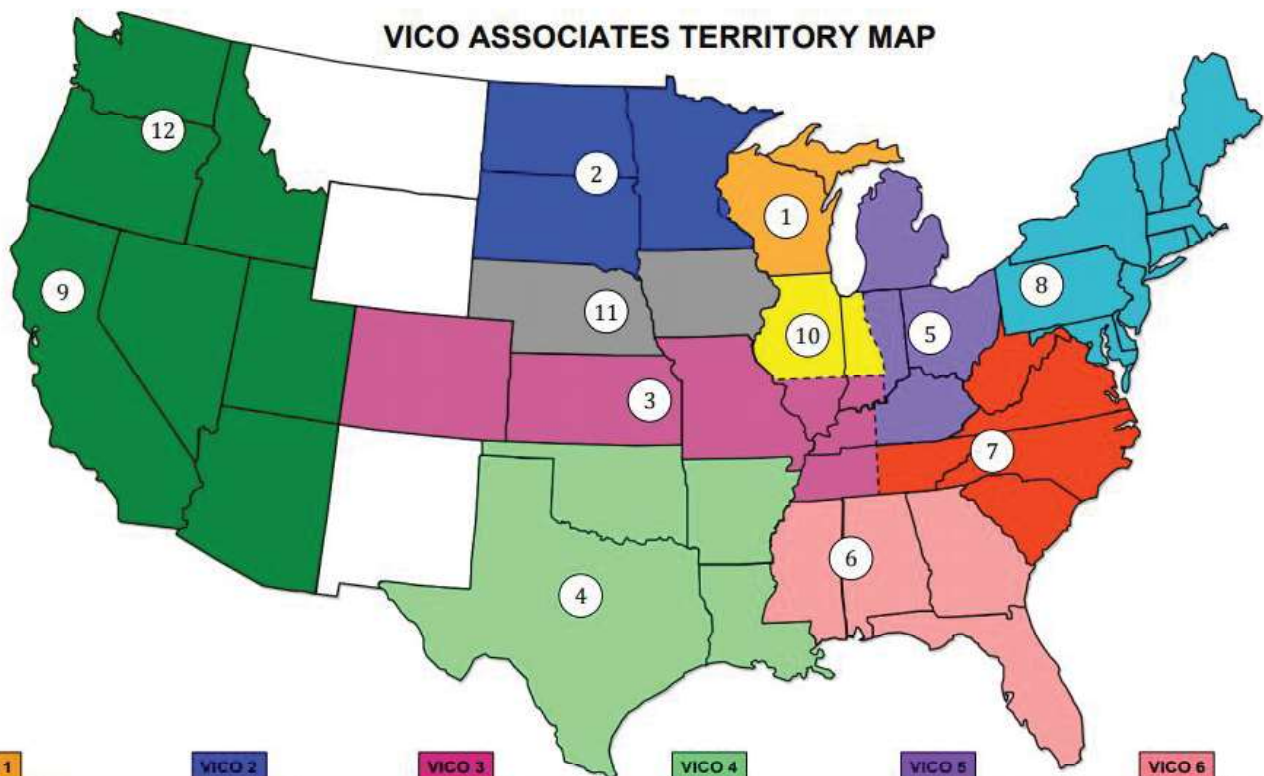
# Service & Replacement Parts

TriMark Service and Replacement Parts, a Division of TriMark Corporation, provides standard vehicle hardware products and keys to OEMs in the construction, agriculture, truck (on- and off-road), recreational vehicle and enclosure markets. They also serve RV dealers, locksmiths, specialty vehicle users and other end users. S & R products include a variety of latches and handles, striker bolts and locks, keypads and FOBs, hinges and window hold-opens. For many of our customers we support "just-in-time", repair part packaging and stocking programs. We sell and cut most of the keys sold by TriMark. Our technical staff can assist in the proper selection and application of our products and help with the identification of repair or service parts.

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**Information:**  
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# FMVSS 206 (ECE R11)

TriMark designs and manufactures a variety of safety related components and door systems for a multitude of applications that are used for on and off-road applications. The National Highway Traffic Safety Administration (NHTSA) has a legislative mandate under Title 49 of the United States Code, Chapter 301, Motor Vehicle Safety, to issue Federal Motor Vehicle Safety Standards (FMVSS) and Regulations (as well as ECE R11 of the Economic Commission for Europe of the United Nations (UN/ECE R11) to which manufacturers of motor vehicles and items of motor vehicle equipment must conform and certify compliance. Specifically, FMVSS 206 (ECE R11) is a safety standard for Door Locks and Door Retention Components and is dependent on door application, e.g. front and rear hinged doors, sliding doors, or hinged upward swinging rear doors. The entire door hardware system must be included in the design/analysis process: latches, strikers, handles, lock mechanisms, cables/rods/linkages, fasteners, hinges, etc. This ensures compatibility of all components within the hardware system. If FMVSS 206 (ECE R11) is a requirement, then all of the components within the door system must comply with strength, inertia and locking requirements (if applicable) as specified within the Standard.

Applications of Products within this catalog may fall within the requirements of FMVSS 206 (ECE R11) and SAE J839 safety standards for on-road and off-road operator entrance doors. TriMark offers FMVSS 206 (ECE R11) compliant door systems, but the final requirements and compliance lies with the end vehicle manufacturer.

## FMVSS 302

**National Highway Traffic Safety Administration FMVSS 302** — Flammability of Interior Materials — Passenger Cars, Multipurpose Passenger Vehicles, Trucks and Buses.

This standard specifies burn resistance requirements for materials used in the occupant compartment of motor vehicles in order to reduce deaths and injuries caused by vehicle fires.

Certain TriMark products comply with FMVSS 302 and are identified in TriMark's catalog and technical publications. These products have been either tested or certified as complying with the standard.

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# Warranty

TriMark warrants that the products manufactured and sold shall be in accordance with specifications and free from defects in materials and workmanship for a period up to 18 (eighteen) months following the date of delivery to TriMark's customer or 12 (twelve) months from the original O.E.M. sale (in-service) date. Where TriMark does not have design control with regard to customer supplied products, materials or specifications, the warranty is limited to non-conforming product.

This warranty is expressly limited to persons who purchase TriMark's products for the purpose of resale or use in the ordinary course of the buyer's business. This warranty does not cover any product that if TriMark Corporation determines (in its sole discretion) that a product's failure or malfunction is due to one or more of the following conditions, such failure or malfunction is EXCLUDED from the warranty provided hereunder: (1) used in a manner that exceeds published engineering specifications; (2) has been abused, misused, disassembled/opened, altered/modified, or improperly installed; (3) is used in an application not previously approved by TriMark; (4) is used in a manner inconsistent with any instructions and good industry practices regarding its use; (5) wear or deterioration due to environmental conditions; (6) unusual mechanical, physical or electrical stress or (7) is destroyed/damaged by fire, lightning or an act of God. In addition to the above, TriMark will not warrant any electrical/electronic products with (8) burned or broken traces on the printed circuit board; (9) burned or damaged components; (10) dirt or water residue on the printed circuit board or inside the case; (11) motor failure due to thermal failure; (12) or dead batteries.

This warranty is exclusive, and TriMark makes no other warranty of any kind whatsoever, expressed or implied, with respect to the products manufactured and sold by it, whether as to merchantability, fitness for a particular purpose or any other matter. Without prior written authorization from the Board of Directors, no agent, employee or representative of TriMark has any authority to bind TriMark to any affirmation, representation or warranty concerning TriMark products or parts, except as stated herein.

If any product supplied by TriMark is found to be defective by TriMark in its sole discretion, TriMark reserves the right to replace, rework, repair, or give credit for defective product. Upon confirmation of the defective condition of the subject part either with return of subject part and/or proper documentation, TriMark will replace such defective product exclusive of any labor, shipping, transportation or delivery cost associated with the replacement. TriMark will not be responsible for the cost of removal of a defective product. This remedy shall be the exclusive remedy available for any defects in the products manufactured and sold by TriMark or for damages resulting from any other cause whatsoever, including without limitation, TriMark's negligence. The purpose of this exclusive remedy shall be to provide the buyer with replacement of products or parts sold by TriMark found to be defective in materials or workmanship or negligently manufactured. This exclusive remedy shall not be deemed to have failed of its essential purpose so long as TriMark is willing and able to replace said defective products or parts in the prescribed manner.

WITHOUT LIMITING THE FOREGOING, TRIMARK SHALL NOT BE LIABLE FOR CONSEQUENTIAL OR INDIRECT DAMAGES, ECONOMIC LOSSES, LOSS OF USE, LOST PROFITS, DOWN TIME OR DAMAGES DUE TO DELAY, WHETHER BY REASON OF BREACH OF WARRANTY, BREACH OF CONTRACT, NEGLIGENCE, STRICT LIABILITY OR OTHERWISE.





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- System Validation
- Quick Turn Manufacturing
- Metal Fabrication
- Line Sequencing
- Zinc Die Casting
- Assembly
- Plating



### Products



Latches



Handles



Linkages



Electronics



Hinges

### Industries



Off-Highway



Recreational Vehicle



Specialty Vehicle



On-Highway Truck



Armored Vehicle



Power Sport



Industrial Enclosure



Mass Transit

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