

DOR-O-MATIC®

Door Hardware Made Easy!



IR Security & Safety



TABLE OF CONTENTS

1690 Touchbar Exit Device	3
1790 Touchbar Exit Device	4
1990/2090 Crossbar Rod Devices	5
1490 Concealed Vertical Rod Touchbar Devices	6
1590 Concealed Rim Touchbar Devices	6
2390 Recessed Vertical Rod Touchbar Devices	7
Mullions	7

Dor-O-Matic's reputation for consistent performance has made it the top selling exit device for aluminum doors. Dor-O-Matic continues its tradition in the new millennium, introducing many innovations with the 1690, 1790 and 2390 devices. All Dor-O-Matic devices are compatible with stiles as narrow as 1³/₄".

Finishes

U.S. Standard	BHMA	Description
US28	628	Anodized Aluminum – Clear
DC13	710	Anodized Aluminum – Dark Bronze
DC35	711	Anodized Aluminum – Black
P28	689	Painted Aluminum – Silver
P13	695	Painted Aluminum – Dark Bronze
P35	622	Painted Aluminum – Black
US3	666	Bright Brass
US4	667	Satin Brass
US9	705	Bright Bronze
US10	668	Satin Bronze
US10B	703	Oxidized Satin Bronze
US14	669	Bright Nickel
US15	670	Satin Nickel
US26	672	Bright Chrome
US26D	702	Satin Chrome

1690 Series Touchbar Exit Device



1690 Series

The New #1 Exit Device for Aluminum Doors.

The Dor-O-Matic 1990 and 2090 have been the best-selling exit devices for aluminum doors for years. Now, Dor-O-Matic is pleased to announce the new standard for aluminum door exit devices, the 1690 and 1790. These new exit devices continue Dor-O-Matic's commitment to quality and long-lasting performance, with the sleek, modern touchbar design. The 1690 comes in seven popular finishes, four lengths (30", 36", 42" and 48") and features a full compliment of electrical options. Rod extension kits are also available.

Security & Safety.

The 1690 panic device carries the Underwriters Laboratory (UL) label and are approved for life safety. In addition, these exit devices meet the requirements of ANSI Grade 1, 2001 revisions.

Each feature an upgraded design that offers increased building security, eliminating the possibility of tampering and forced entry through the use of coat hangers or other tools. And the new streamlined design has no openings for chains — reducing the risk of code infringements.

Model	Trim Package	Type	A.N.S.I.	Function
1690	No Outside trim	6		01
1691	Pull Only (9970)	6		02
1692	Cylinder Only	6		03/04
1694	Pull and Cylinder	6		02/03/04

To Change Outside Key Functions

First remove latch housing.

1. Remove exit device from door, leaving rods and latches.
2. Then set pinion for desired key function.
3. Reinstall device.

1690 Series.

The design of the 1690 is ideally suited for demanding, high-traffic applications. The vertical rods and latch mechanisms are concealed in the vertical door stile, ensuring trouble-free operation. The cover plates and end caps are constructed of cast metal to hold up to rigorous use.

A quick, single-point dogging feature in the housing deactivates the device and permits unrestricted traffic flow. This locking mechanism is designed to offer more versatility than crossbars, which require two-point dogging.

The Convenience of 1990 Rods/Latches.

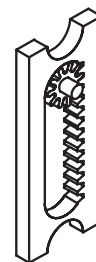
Since 1690 utilizes the same rods and latches as the 1990 crossbar device, existing 1990s can be replaced directly with the 1690 device - without removing the door!

Other Features Include:

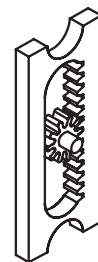
- Centercase provides a clear indication of direction of egress and completely covers the existing 1990 prep.
- Metal end caps protect the device from damage caused by passing carts and equipment.
- Available in US28 Clear, DC13 Dark Bronze, DC35 Black, US3, US10, US26 and US26D (centercase and endcap are powder coated black only).
- Vertical rods and latches are identical to the 1990 device and can work with existing panic frames.
- Electric latch retraction and request to exit/touchbar monitor switch options available.
- Electric dogging

Positioning Retractor as Shown for NL or HB Functions.

Install retractor with teeth to right as shown for both RHR and LHR doors; this makes all keys function in the same direction.



Hold back (HB)



Night latch (NL)

1790 Series Touchbar Exit Device



1790 Series

The New #1 Exit Device for Aluminum Doors.

The Dor-O-Matic 1990 and 2090 have been the best-selling exit devices for aluminum doors for years. Now, Dor-O-Matic is pleased to announce the new standard for aluminum door exit devices, the 1690 and 1790. These new exit devices continue Dor-O-Matic's commitment to quality and long-lasting performance, with the sleek, modern touchbar design. The 1690 and 1790 come in seven popular finishes, four lengths (30", 36", 42" and 48") and features a full compliment of electrical options.

Security & Safety.

The 1790 panic device carries the Underwriters Laboratory (UL) label and are approved for life safety. In addition, these exit devices meet the requirements of ANSI Grade I, 2001 revisions. Each feature an upgraded design that offers increased building security, eliminating the possibility of tampering and forced entry through the use of coat hangers or other tools. And the new streamlined design has no openings for chains — reducing the risk of code infringements.

Model	Trim Package	A.N.S.I.	
		Type	Function
1790	No Outside trim	4	01
1791	Pull Only	4	02
1792	Cylinder Only	4	03/04 or 08*/09*
1794	Pull and Cylinder	4	02/03/04
179L	Control Trim	4	08/09/23

*Requires use of 179L Control Trim.

To Change Outside Key Functions

First remove latch housing.

1. Remove exit device from door.
2. Then set pinion for desired key function.
3. Reinstall device.

1790 Series.

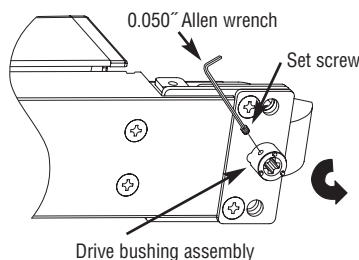
The 1790 rim device is typically used in applications where maintenance is a concern. The rim device has fewer parts and pieces than current exit devices which requires less maintenance and adjustment. The 1690/1790 pushbar width is 2 1/2". The devices project 3" in the neutral position, and 2 1/4" in the depressed/dogged position.

Other Features Include:

- Centercase provides a clear indication of direction of egress and completely covers the existing 1990 or 2090 prep.
- Metal end caps protect the device from damage caused by passing carts and equipment.
- Available in US28 Clear, DC13 Dark Bronze, DC35 Black, US3, US10, US26 and US26D (centercase and endcap are powder coated black only).
- Electric latch retraction and request to exit/touchbar monitor switch options available.
- Electric dogging

Change Key Function to Hold Back (HB), If Necessary.

Note: Device is set at factory for night latch (NL) function. To convert to HB, perform Steps 1 - 3.



1. Remove the set screw from the drive bushing assembly using 0.050".
2. Rotate internal drive bushing counterclockwise until it stops against the internal stop.
3. Maintain position of drive bushing and continue.



179L Trim

1990 Series Concealed Vertical Rod Device



For Key Entry Only

To set pinion for key entry only.

1. Install retractor with pinion 1/2 way down gear slot. (See Pg. 3)
2. Replace latch housing to mounting studs and attach cross bar.

For Key Entry With Hold Back

To set pinion for key entry with dogging option (as factory installed).

1. Install retractor at extreme top end of gear slot. (See Pg. 3)
2. Replace latch housing to mounting studs and attach cross bar.

To Change Outside Key Functions

First remove latch housing.

1. Remove exit device from door, leaving rods and latches.
2. Then set pinion for desired key function. (See Pg. 3)
3. Reinstall device.

The Industry Standard For Aluminum Door Exit Devices.

The 1990's classic look and a long history of reliable performance has made the 1990 the #1 selling exit device for aluminum doors. This ANSI Grade 1 device features hardened steel latches and is compatible with stiles as narrow as 1³/₄".

The 1990 device is equipped with hardened steel latches and an adjustable strike to ensure safety, security and quiet operation.

Other Features Include:

- Concealed mounting screws
- Hex dogging
- Field adjustable width
- U.L. Listed 305
- Available in a full range of painted and architectural finishes
- Field reversible (non-handed)

Model	Trim Package	Type	A.N.S.I.	
				Function
1990	No Outside trim	6		01
1991	Pull Only (9970)	6		02
1992	Cylinder Only	6		03/04
1993	Pull and Cylinder	6		02/03/04

2090 Series Rim Crossbar Device



To Change Outside Key Functions

First remove latch housing.

1. Remove exit device from door.
2. Then set pinion for desired key function.
3. Reinstall device.

Classic Looks In A Rim Exit Device.

The 2090's balanced appearance, dependable performance, and economical pricing has made it a popular choice where rim exit devices are required. Equipped with a 1/2" throw steel latchbolt, the 2090 can be mounted on stiles as narrow as 1³/₄". Removable mullions are available for pairs of doors applications. The 2090 is an ANSI Grade 1 device.

Other Features Include:

- Surface mounted strikes for full frame or blade type stops
- Field adjustable width
- U.L. Listed 305
- Available in a full range of painted and architectural finishes

Model	Trim Package	Type	A.N.S.I.	
				Function
2090	No Outside trim	4		01
2091	Pull Only (9970)	4		02
2092	Cylinder Only	4		03/04
2093	Pull and Cylinder	4		02/03/04

1490 Series Concealed Vertical Rod Touchbar Device



The 1490 device is built with rugged steel operating mechanisms and durable aluminum push bars and end caps.

The electrified version includes a monitor switch.

NOTE: The EL1490 and ED1490 Series is a handed device.

Cylinder Adapter Assembly



Hold Back



Night Latch

Dor-O-Matic Original Pushpad Device.

The 1490, Dor-O-Matic's heaviest device, offers a clean appearance in a pushpad style device, with only 3" in height and 2 3/4" of projection.

Other Features Include:

- Quarter-turn dogging
- Simplified cartridge mounting for most standard rim cylinders
- Available in a full range of architectural finishes
- Durable metal end caps
- Rod extension kits for doors 7' - 10' available

Model	Trim Package	Type	A.N.S.I.	Function
1490	No Outside trim	6		01
1491	Pull Only (9970)	6		02
1492	N.L. Cylinder	6		03
1493	H.B. Cylinder	6		04
1494	Pull w/N.L. Cylinder	6		02/03
1495	Pull w/H.B. Cylinder	6		02/04

1590 Series Touchbar Devices



The model EL1590 electrified exit device provides convenience and security in a surface applied exit device suitable for any type of door. The device includes a monitor switch.

NOTE: The EL1590 and ED1590 Series is a handed device.

Cylinder Adapter Assembly



Hold Back



Night Latch

Clean Looks In A Rim Pushpad Device.

The 1590 offers the aesthetic benefit of the 1490 with the installation and maintenance ease of a rim exit device.

Other Features Include:

- Quarter-turn dogging
- Simplified cartridge mounting for most standard rim cylinders
- Available in a full range of architectural finishes
- Durable metal end caps

Model	Trim Package	Type	A.N.S.I.	Function
1590	No Outside trim	4		01
1591	Pull Only	4		02
1592	N.L. Cylinder	4		03
1593	H.B. Cylinder	4		04
1594	Pull w/N.L. Cylinder	4		02/03
1595	Pull w/H.B. Cylinder	4		02/04

2390 Series Recessed Concealed Vertical Rod Device



The Best Available Recessed Concealed Device For Stile and Rail Doors.

The 2390 offers several features which represent significant improvements over the previous 1390 device, including sloped metal end caps, and sound dampening for both the in-stroke and out-stroke. The 2390 also offers several popular options that were not available with the 1390, including the hold back feature, electric latch retraction, request to exit switch (touchbar monitor), and field-reversible handing. The 2390 also offers improvements from an installation standpoint, as well as significantly easier rod adjustment. The 2390 carries a Grade 1 exit device listing, fulfilling the more demanding requirements of the 2001 revisions A.N.S.I. 156.3. The 2390 is available in US28, DC13 and DC35 finishes.

Other features include:

- Electric latch retraction and request to exit options available
- Night Latch/ Hold Back Kits available

Mullions






RM 70/170 Removable Mullion

RM 70 for use with 2090 Series and RM170 for use with 1790 Series. Each come complete with adjustable mortised strikes and security clips. Compatible with doors 7' to 10' and for use on doors with stiles as narrow as 1³/₄". Made of aluminum, they are available in anodized aluminum or bronze finishes.

RM 150 Removable Mullion

For use with 1590 Series only. Comes complete with adjustable mortised strikes and security clips. Compatible with doors 7' to 10' and for use on doors with stiles as narrow as 1³/₄". Made of aluminum, they are available in anodized aluminum or bronze finishes.

Strikes

SD 35	Standard strike for 2090 device, (1/8" x 1/2" blade stop)	
SD 36	Strike for 2090 device, (for all stops)	
PB 48	Standard top strike for 1490/1690/1990/2390	
STK 45	Stainless steel strike for inactive leaf, pair of doors for 1590/1790/2090	
TD 35	Strike for 1590/1790 rim device	

Pulls

9970 Pull Standard pull for **1490/1590/1990/2090**



DOR-O-MATIC®

Door Hardware Made Easy!



Be sure to visit:
www.doromatic.com



Dor-O-Matic Hardware Products

2720 Tobey Drive,
Indianapolis, IN 46219
1-877-243-4830
1-877-793-6177 Fax

An **IR** Ingersoll-Rand business