



R4 Rotary Latch

Light-Duty · Concealed · Single and two stage

- Ideal for space limited applications
- Compatible with wide array of actuators
- Integrated bumper for anti-vibration feature

Material and Finish

Steel, zinc or zinc nickel plated or 304 stainless steel, passivated

Accessories

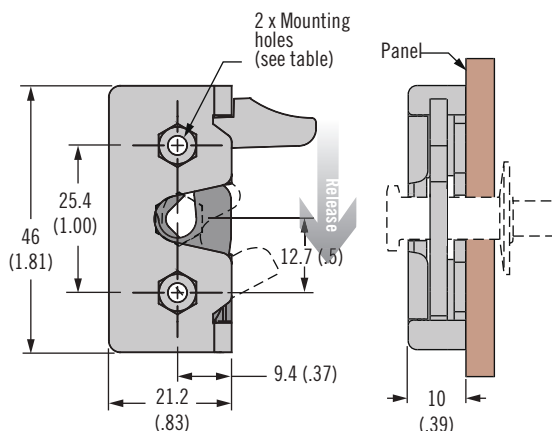
Cables and retainer clips
see pages 322-323

Notes

Electromechanical rotary latch
available see page 20

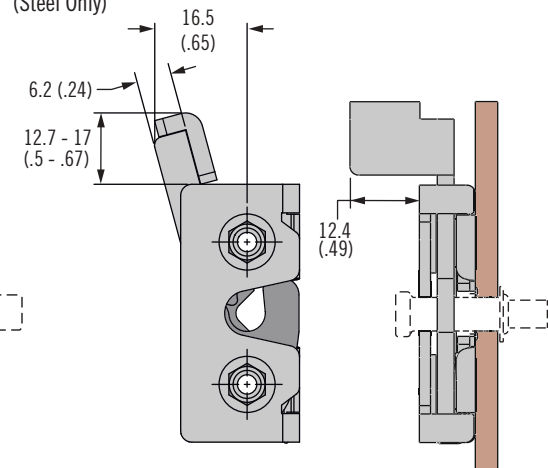
For electrical actuation option
see page 42

Hand Actuation

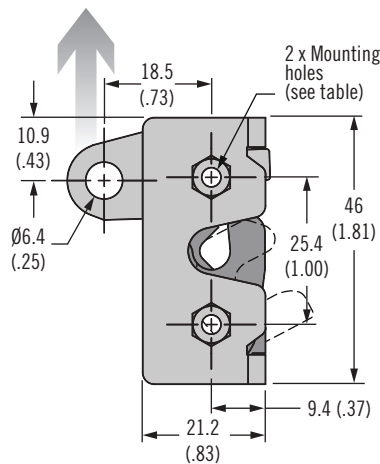


Direct Actuation

(Steel Only)

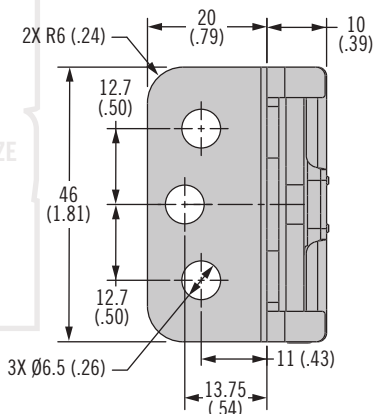


Bottom Actuation



Mounting Bracket

(Option for all Lever Types in Steel)



Part Number Selection

S Stage & Actuation

- 2 Single stage
- 4 Two stage

L Lever Type

- 4 Hand Actuation
- 5 Bottom Actuation
- 9A Direct Actuation
(M = 10, 15, and 77 material only)

I Mounting Style

- 0 4.5 (.177) thru
- 1 8-32 thread
- 2 M4 x 0.7 thread
- 3 4.5 (.177) thru with Mounting Bracket
(M = 10, 15, and 77 material only)

B Base style

- 1 Standard
- 5 Integrated bumper version

M Material

- 10 Steel, Zinc Plate
- 15 Steel, Black Zinc Nickel
- 20 Stainless Steel
- 77 Steel, Zinc Nickel

R4 - 05 - S I - L O B - M

R4 Rotary Latch

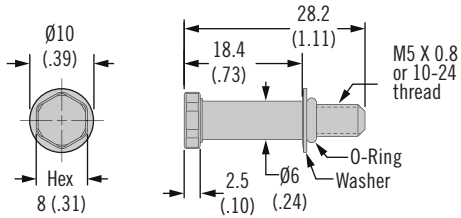
Striker bolt · Light-duty · Installation



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Striker Bolt

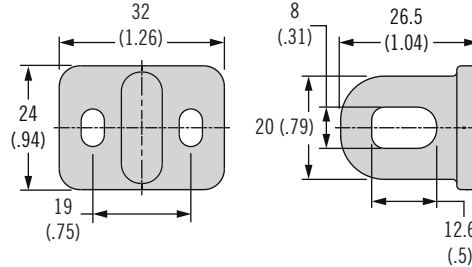
(sold separately)



Striker Bolt Part Number		
Part Number	Thread	Material
R4-90-0511-10	10-24-UNC	Steel
R4-90-0511-20	10-24-UNC	Stainless Steel
R4-90-0521-10	M5 X 0.8	Steel
R4-90-0521-20	M5 X 0.8	Stainless Steel

Molded Striker

(sold separately)



Part Number	
Molded striker	R4-0-61336

• Strikers for R4-05 series rotary latch

Material and Finish

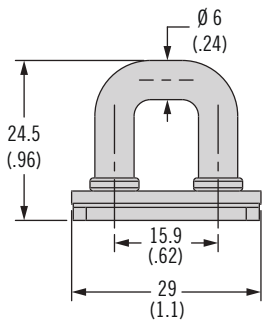
Steel, zinc nickel, zinc plated, black zinc nickel, Stainless Steel

Part Number

See tables

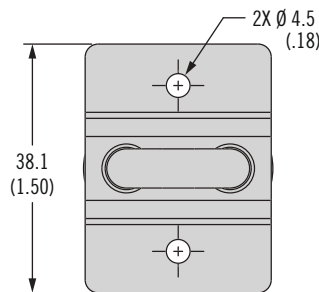
Wire Form Strikers

(sold separately)



Single Hole Mount

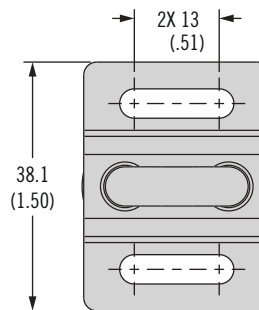
R4-90-0501-XX



Single Hole Mount

Slot Mount

R4-90-0502-XX



Slot Mount

Wire Form Strikers		
Part Number	Mount	Material
R4-90-0501-10	Single Hole	Steel, Zinc Plated
R4-90-0501-15	Single Hole	Steel, Black Zinc Nickel
R4-90-0501-77	Single Hole	Steel, Zinc Nickel
R4-90-0502-10	Slot	Steel, Zinc Plated
R4-90-0502-15	Slot	Steel, Black Zinc Nickel
R4-90-0502-77	Slot	Steel, Zinc Nickel



R4 Rotary Latch

Light-Duty · Concealed · Single and two stage

- Compatible with wide array of actuators
- EN 45545-3 E60 Compliant (Standard version only)
- Integrated bumper version for anti-vibration feature

Material and Finish

Steel, zinc plated or 304 stainless steel, passivated

Accessories

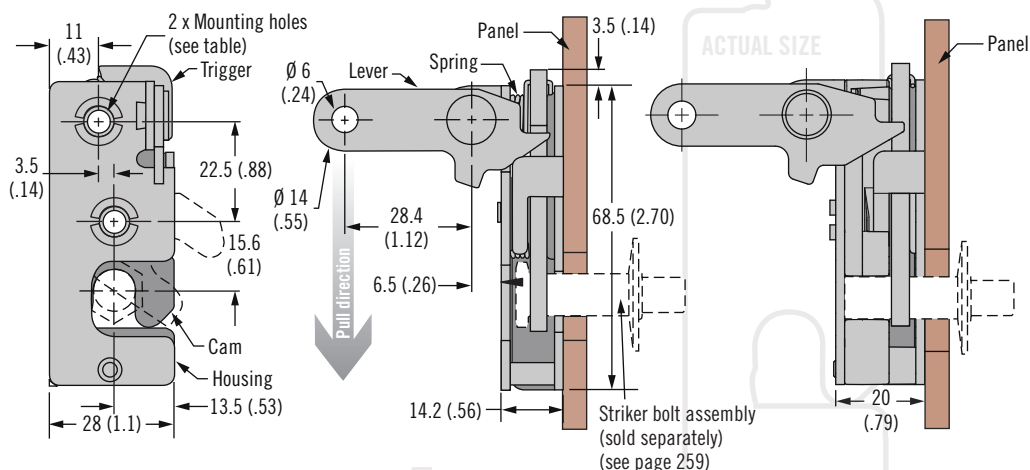
Striker bolts for standard version and integrated bumper version are different. See page 297 for both versions.

Cables and retainer clips see pages 322-323

Notes

Electromechanical rotary latch available see page 20

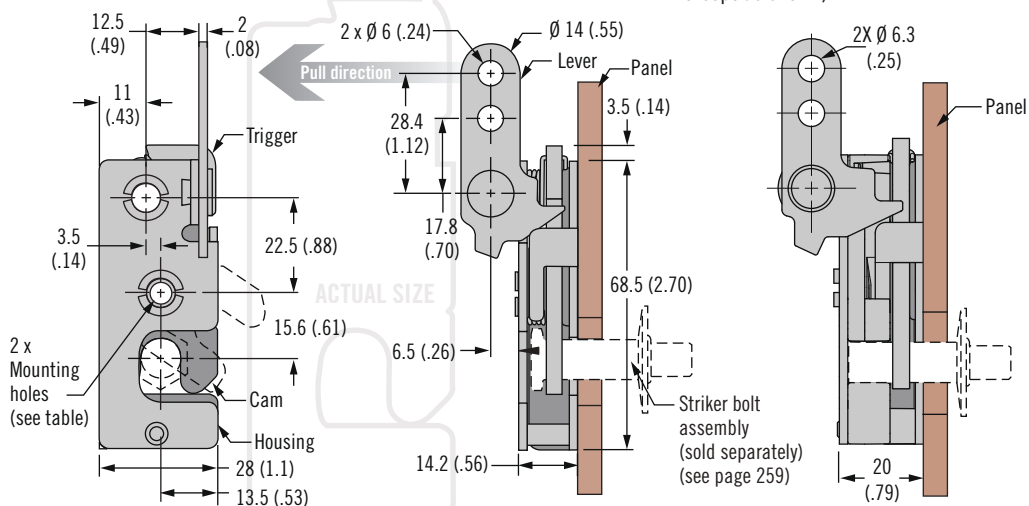
Single Stage - Perpendicular (left hand actuation shown)



Integrated Bumper Version

(dimensions same as standard version except as shown)

Single Stage - In-Line (left hand actuation shown)



Integrated Bumper Version

(dimensions same as standard version except as shown)

Part Number Selection

S Stage & Actuation

- 1 Single stage, right hand
- 2 Single stage, left hand
- 3 Two stage, right hand
- 4 Two stage, left hand

I Mounting Style

- 0 Ø7.2 (.283) thru
- 1 1/4-20 thread
- 2 M6 x 1 thread

B Base Style

- 1 Standard
- 5 Integrated bumper version

L Lever Type

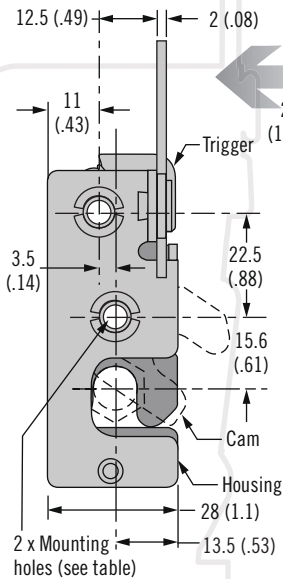
- 1 Perpendicular
- 2 In-Line

M Material

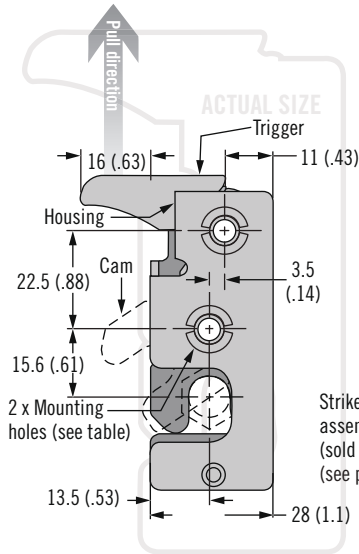
- 10 Steel
- 20 Stainless steel

R4 - 10 - S I - L 0 B - M

Single Stage - Two Point (left hand actuation shown)

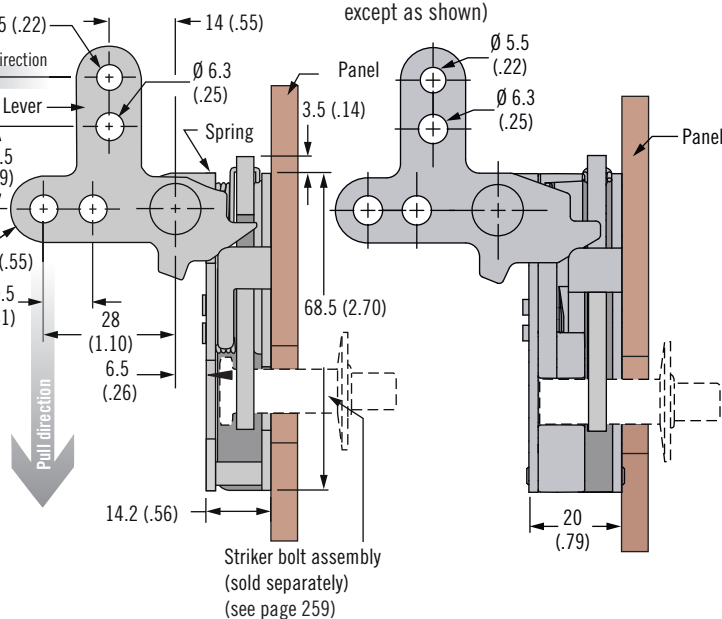


Single Stage - Hand Actuation



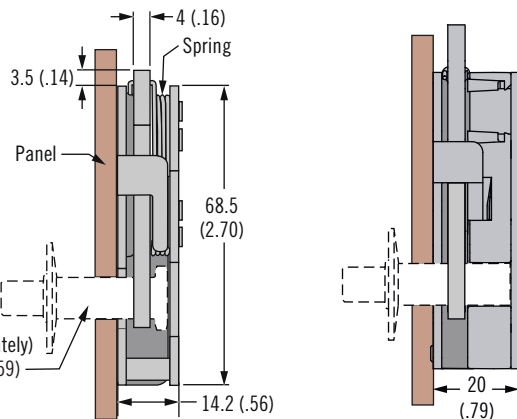
Integrated Bumper Version

(dimensions same as standard version
except as shown)



Integrated Bumper Version

(dimensions same as standard version except as shown)



- **Compatible with wide array of actuators**
- **EN 45545-3 E60 Compliant (Standard version only)**
- **Integrated bumper version for anti-vibration feature**

Material and Finish

Steel, zinc plated or
304 stainless steel, passivated

Accessories

Striker bolts for standard version and integrated bumper version are different. See page 297 for both versions.

Cables and retainer clips
see page 322-323

Notes

Electromechanical rotary latch
available see page 20

Part Number Selection

S Stage & Actuation

- 1 Single stage, right hand
- 2 Single stage, left hand
- 3 Two stage, right hand
- 4 Two stage, left hand

I Mounting Style

- 0 Ø7.2 (.283) thru
1 1/4-20 thread
2 M6 x 1 thread

➤ **L** Lever Type

- 3 Two point
- 4 Hand actuation

B Base Style

- 1 Standard
5 Integrated bumper version

► **M** Material

- | | |
|----|-----------------|
| 10 | Steel |
| 20 | Stainless steel |

R4 - 10 - S I - L O B - M



R4 Rotary Latch

Light-Duty · Concealed · Single and two stage

- Compatible with wide array of actuators
- EN 45545-3 E60 Compliant (Standard version only)
- Integrated bumper version for anti-vibration feature

Material and Finish

Steel, zinc plated or 304 stainless steel, passivated

Accessories

Striker bolts for standard version and integrated bumper version are different. See page 297 for both versions.

Cables and retainer clips see pages 322-323

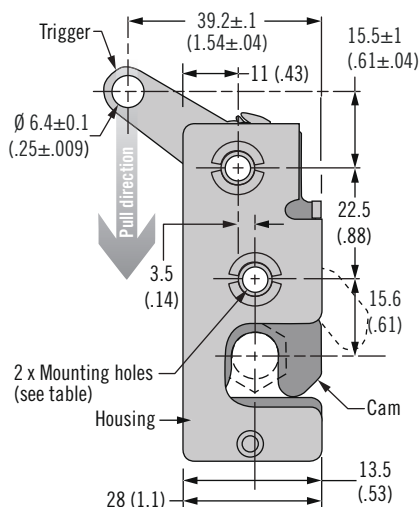
Notes

Electromechanical rotary latch available see page 20

For electrical actuation option see page 43

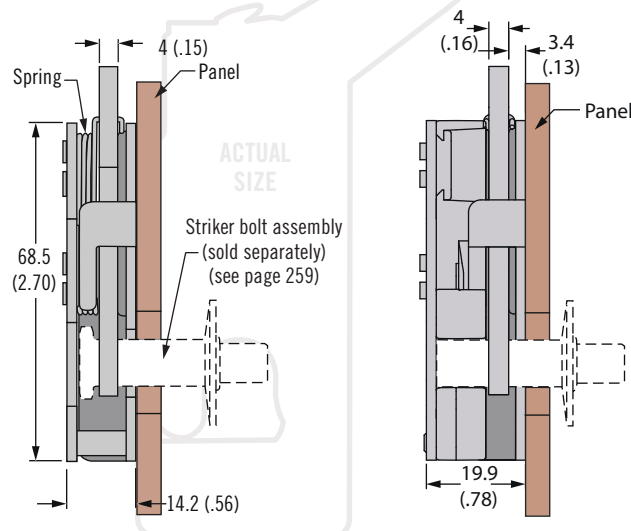
Single Stage - Bottom

(left hand actuation shown)



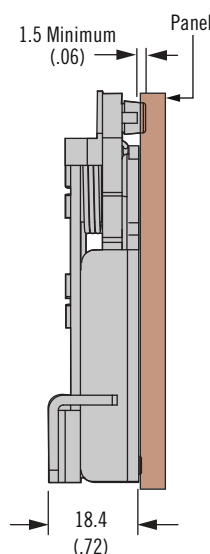
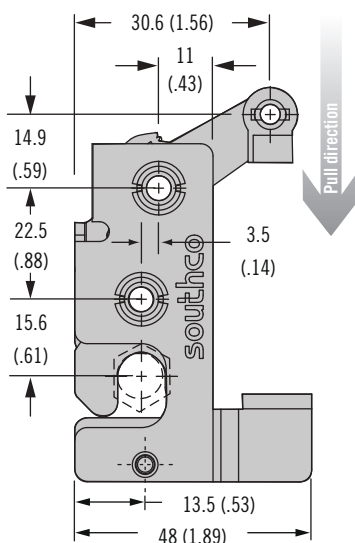
Integrated Bumper Version

(dimensions same as standard version except as shown)



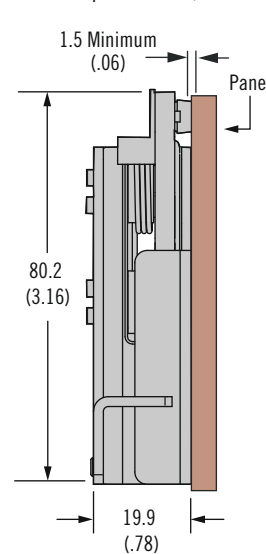
Single Stage - Bottom with Cable Bracket

(Right hand actuation shown)



Integrated Bumper Version

(dimensions same as standard version except as shown)



Part Number Selection

R4 - 10 - S I - 50 B - M			
S Stage & Actuation	I Mounting Style	B Base Style	M Material
1 Single stage, right hand	0 Ø7.2 (.283) thru	1 Standard	10 Steel
2 Single stage, left hand	1 1/4-20 thread	2 Standard with cable bracket	20 Stainless steel
3 Two stage, right hand	2 M6 x 1 thread	5 Integrated bumper	
4 Two stage, left hand		6 Integrated bumper with cable bracket	

R4 Rotary Latch

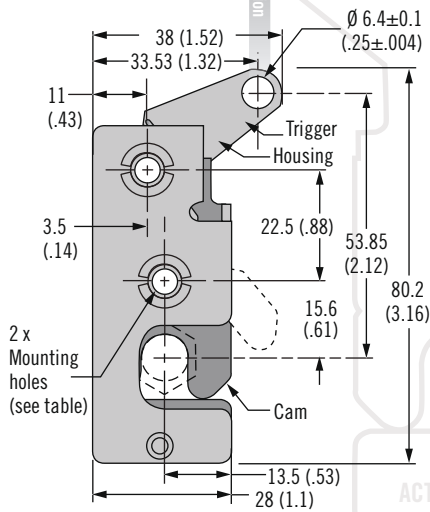
Light-Duty · Concealed · Single and two stage



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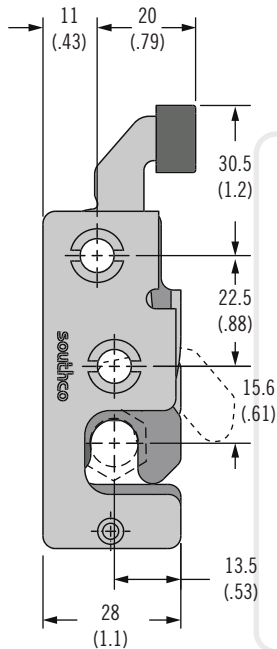
Single Stage - Top

(left hand actuation shown)



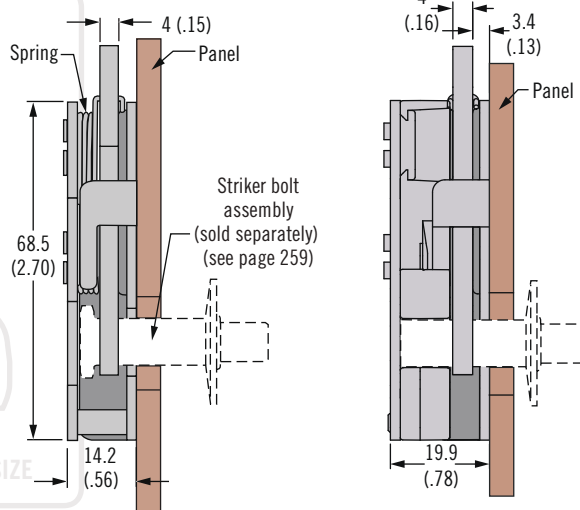
Single Stage - Direct Actuation

(left hand actuation shown)



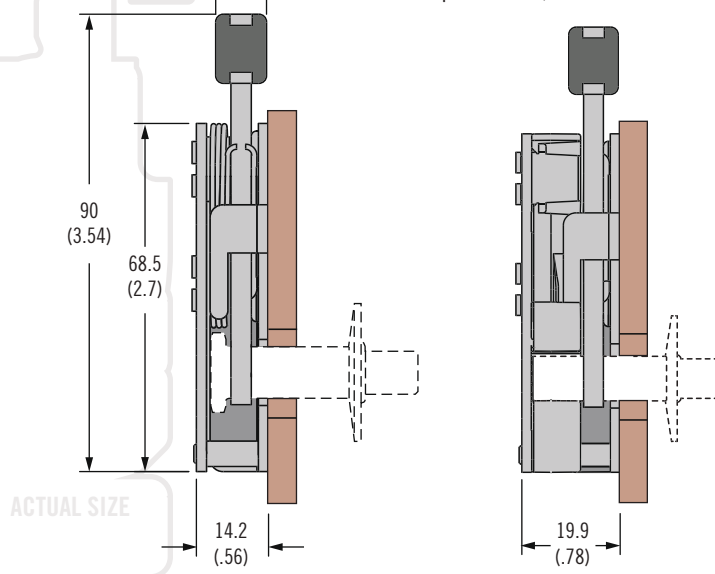
Integrated Bumper Version

(dimensions same as standard version except as shown)



Integrated Bumper Version

(dimensions same as standard version except as shown)



- Compatible with wide array of actuators
- EN 45545-3 E60 Compliant (Standard version only)
- Integrated bumper version for anti-vibration feature

Material and Finish

Steel, zinc plated

Accessories

Striker bolts for standard version and integrated bumper version are different. See page 297 for both versions.

Cables and retainer clips

see page 322-323

Trigger - use retaining clip

R4-0-43922-2

Lever - use retaining clip

R4-0-43922

Notes

Electromechanical rotary latch available see page 20

Part Number Selection

S Stage & Actuation

- 1 Single stage, right hand
- 2 Single stage, left hand
- 3 Two stage, right hand
- 4 Two stage, left hand

I Mounting Style

- 0 Ø7.2 (.283) thru
- 1 1/4-20 thread
- 2 M6 x 1 thread

B Base Style

- 1 Standard
- 5 Integrated bumper version

L Lever Type

- 6 Top
- 9 Direct Actuation

M Material

- 10 Steel
- 20 Stainless steel

R4 - 10 - S I - L 0 B - M



R4 Rotary Latch

Light-duty · Concealed · Dual Trigger · Single and two stage

- Direct actuation, no cable or rod required
- Integrated bumper version for anti-vibration feature
- EN 45545-3 E60 Compliant (Standard version only)

Material and Finish

Steel, zinc plated or
304 stainless steel, passivated

Accessories

Striker bolts for standard version and integrated bumper version are different. See page 297 for both versions.

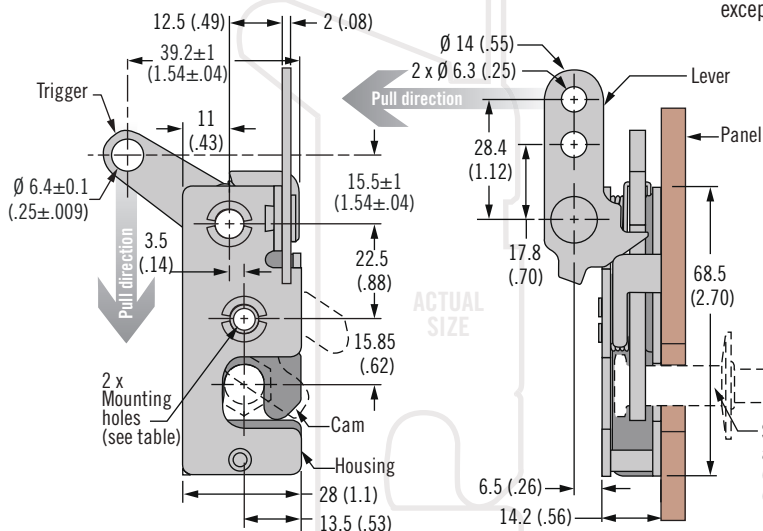
Notes

Electromechanical rotary latch available see page 20

For electrical actuation option for bottom lever designs, see page 43

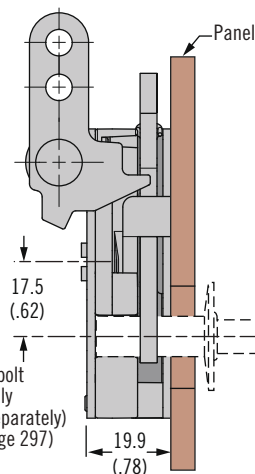
Single Stage - Dual Trigger - Bottom

(left hand actuation shown)



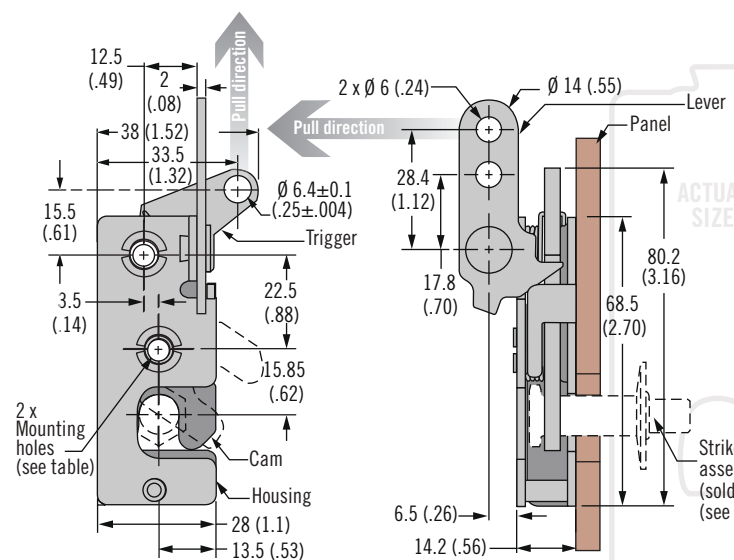
Integrated Bumper Version

(dimensions same as standard version except as shown)



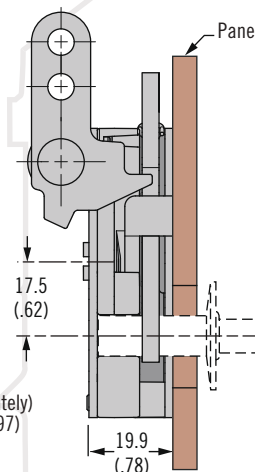
Single Stage - Dual Trigger - Top

(left hand actuation shown)



Integrated Bumper Version

(dimensions same as standard version except as shown)



Part Number Selection

S Stage & Actuation

- 1 Single stage, right hand
- 2 Single stage, left hand
- 3 Two stage, right hand
- 4 Two stage, left hand

I Mounting Style

- 0 Ø7.2 (.283) thru
- 1 1/4-20 thread
- 2 M6 x 1 thread

B Base Style

- 1 Standard
- 5 Integrated bumper version

L Lever Type

- 7 Dual trigger, bottom
- 8 Dual trigger, top

M Material

- 10 Steel

R4 - 10 - S I - L 0 B - M

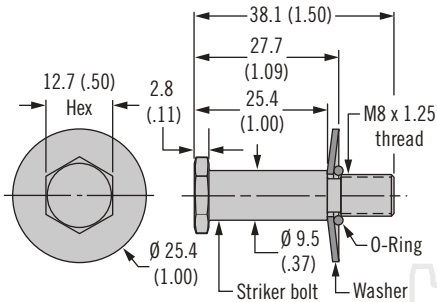
R4 Rotary Latch

Striker bolt · Light-duty · Installation

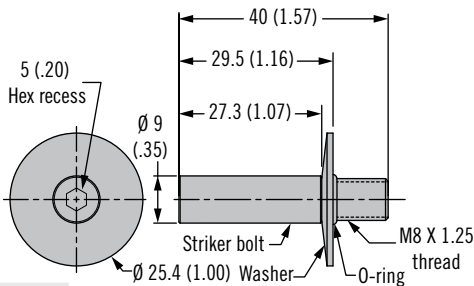


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Striker Bolt Assembly - Standard (sold separately)



Striker Bolt Assembly - Integrated Bumper (sold separately)

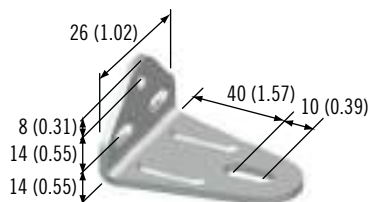


ACTUAL SIZE

Striker Bolt Standard	
Part Number	Material
R4-90-121-10	Steel, Zinc Plated
R4-90-121-20	Stainless Steel

Striker Bolt Integrated Bumper	
Part Number	Material
R4-90-124-10	Steel, Zinc Plated
R4-90-124-20	Stainless Steel

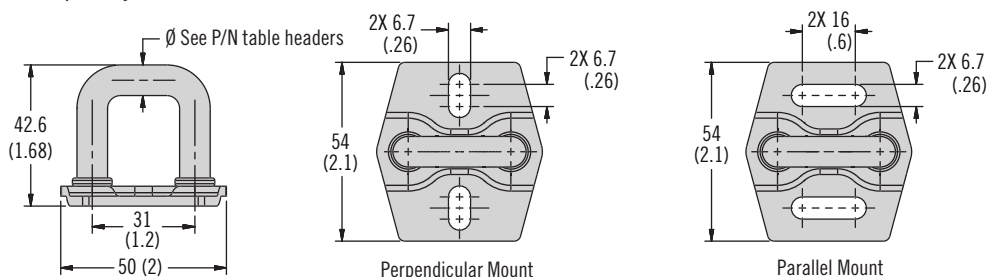
Striker 90° Mounting Bracket



Striker Mounting Bracket	
Part Number	Material
R4-0-50114	Stainless Steel

Wire Form Strikers

(sold separately)



Wire Form Strikers - Standard Ø9.2 (.36)		
Part Number	Mount	Material
R4-90-101-10	Perpendicular	Steel, Zinc Plated
R4-90-101-15	Perpendicular	Steel, Black Zinc Nickel Plated
R4-90-101-20	Perpendicular	Stainless Steel
R4-90-101-77	Perpendicular	Steel, Zinc Nickel Plated
R4-90-102-10	Parallel	Steel, Zinc Plated
R4-90-102-15	Parallel	Steel, Black Zinc Nickel Plated
R4-90-102-20	Parallel	Stainless Steel
R4-90-102-77	Parallel	Steel, Zinc Nickel Plated

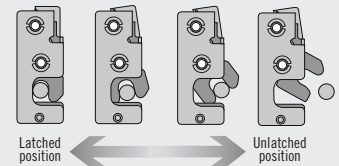
Wire Form Strikers -Integrated Bumper Ø9 (.35)		
Part Number	Mount	Material
R4-90-104-10	Perpendicular	Steel, Zinc Plated
R4-90-104-15	Perpendicular	Steel, Black Zinc Nickel Plated
R4-90-104-20	Perpendicular	Stainless Steel
R4-90-104-77	Perpendicular	Steel, Zinc Nickel Plated
R4-90-106-10	Parallel	Steel, Zinc Plated
R4-90-106-15	Parallel	Steel, Black Zinc Nickel Plated
R4-90-106-20	Parallel	Stainless Steel
R4-90-106-77	Parallel	Steel, Zinc Nickel Plated

• Strikers for R4-10 series rotary latch

Material and Finish

Steel, zinc plated Steel, zinc nickel plated, Steel, black zinc nickel plated, Stainless Steel, passivated

Operation



Part Number

See tables



R4 Rotary Latch

Medium-Duty – Concealed

- Symmetrical design with cable mount simplifies installation
- Integrated bumper reduces noise and dampens vibration
- Front or side mount

Material and Finish

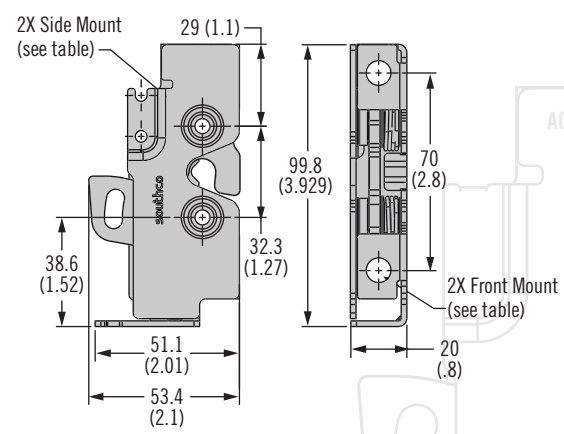
Steel, zinc plate or zinc nickel plate

Accessories

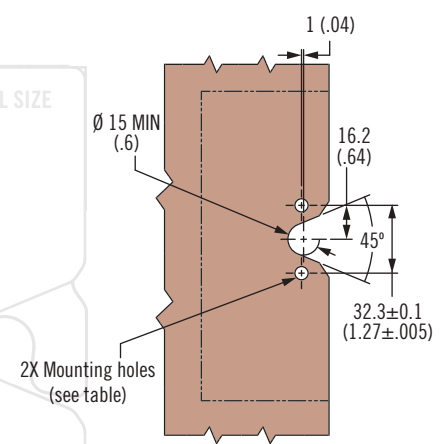
Strikers see page 297 for 9mm diameter (integrated bumper) solutions.

Cables and retainer clips see pages 322-323

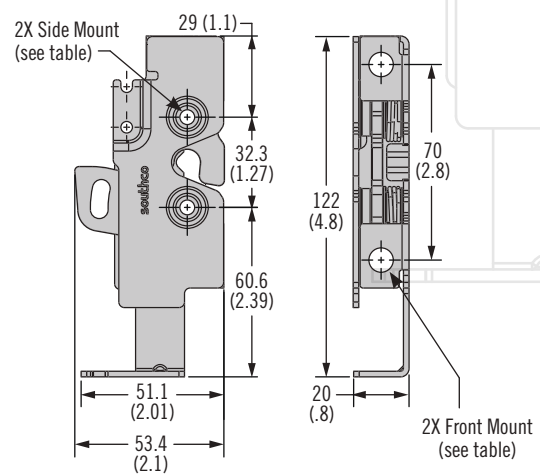
Latch with mount for cable without return assist spring



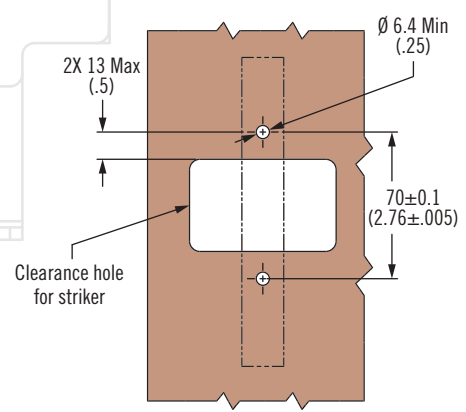
Panel preparation side mount



Latch with mount for cable with return assist spring



Panel preparation front mount



Part Number Selection

R4 - 25 - 2 I 0 - 500 B - MM

I Mounting Style

- 0 Side mount Ø6.7(.283) thru
- 1 Side mount 1/4-20 thread
- 2 Side mount M6 x 1 thread
- 3 Front mount (M6) with side mount Ø6.7(.283) thru

B Base Style

- 2 Mount for cable with return spring assist, no bumper
- 3 Mount for cable without return spring assist, no bumper
- 6 Mount for cable with return spring assist, with bumper
- 7 Mount for cable without return spring assist, with bumper

MM Material

- 10 Steel, zinc plated
- 15 Steel, black zinc nickel

R4 Rotary Latch

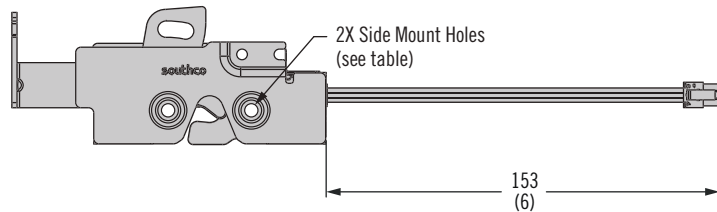
Medium-Duty – Concealed – Electronic Operation and Door Sensing



297B

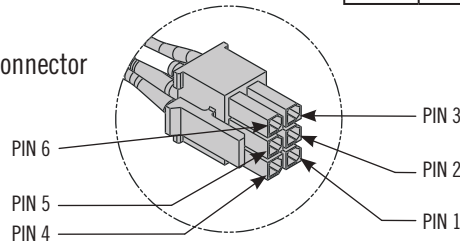
Latch with door sensor

(with mount for cable with return assist spring shown)



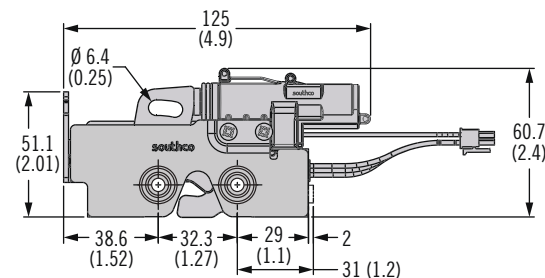
Switch Pin Out	
Pin	Function
1	No connect
2	No connect
3	No connect
4	Switch common
5	Door secure
6	Door unsecured

Molex Micro-Fit 3.0 connector



Latch with door sensor and sealed electronic actuator

(with mount for cable without return assist spring shown)



Switch with Actuator Pin Out	
Pin	Function
1	Ground
2	Power release
3	Power relock
4	Switch common
5	Door secure
6	Door unsecured

Enable wireless operation with Southco's **BLUETOOTH®** Controller



Part Number Selection

R4 - 25 - 2 I S - 5 1 E B - MM

I Mounting Style

- 0 Side mount Ø6.7(.283) thru
- 1 Side mount 1/4-20 thread
- 2 Side mount M6 x 1 thread
- 3 Front mount (M6) with side mount Ø6.7(.283) thru

S Latch Release Options

- 0 Kick-out spring
- 1 Pull-to-open

E Electronic Actuation Options

- 0 None (latch with switch only)
- B 12VDC sealed (latch with switch and electronic actuator)
- 6 5VDC sealed (latch with switch and electronic actuator)

B Base Style

- 2 Mount for cable with return spring assist, no bumper
- 3 Mount for cable without return spring assist, no bumper
- 6 Mount for cable with return spring assist, with bumper
- 7 Mount for cable without return spring assist, with bumper

MM Material

- 10 Steel, zinc plated
- 15 Steel, black zinc nickel



Dimensions in millimeters (inch) unless otherwise stated

- Symmetrical design with cable mount simplifies installation
- Integrated bumper reduces noise and dampens vibration
- Front or side mount
- Sensor verifies door closure
- Sealed (IP67) actuator enables remote electrical release
- Latch releases reliably under high load

Material and Finish

Steel, zinc plate or zinc nickel plate

Electronic specifications:

Operating voltage 5 or 12 VDC nominal

Operating current < 300mA

Temperature -40 to 80°C

Sealed (IP67 / Class 1 Division 2)

Accessories

Strikers see page 297 for 9mm diameter (integrated bumper) solutions
Cables and retainer clips see pages 322-323



R4 Rotary Latch

Medium-Duty · Concealed · Single and two stage

- Compatible with wide array of actuators
- Hand actuation option
- EN 45545-3 E60 Compliant

Material and Finish

Steel, zinc plated or 304 stainless steel, passivated

Accessories

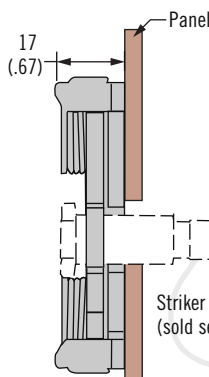
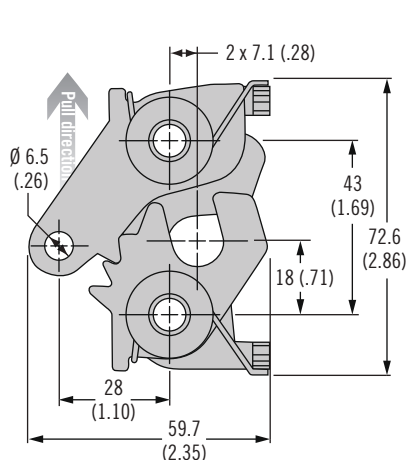
Cables and retainer clips
see pages 322-323

Notes

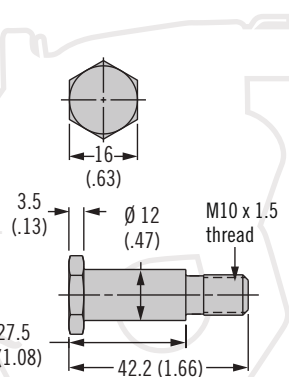
Electromechanical rotary latch
available see page 20

For panel preparation visit
www.southco.com/R4

Remote Actuation (left hand, two stage version shown)



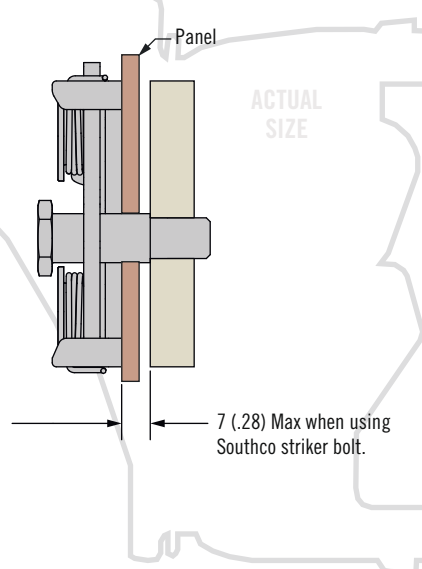
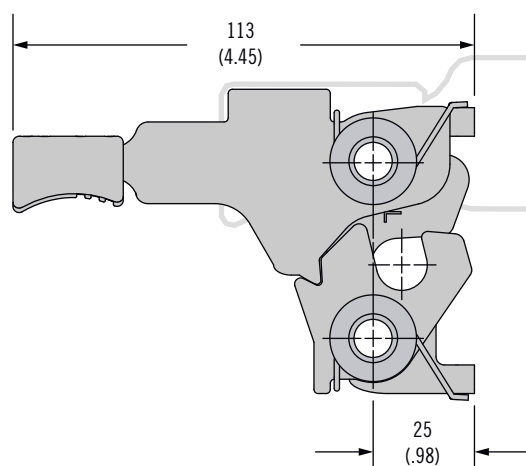
Striker Bolt (sold separately)



Striker Bolt Part Numbers

Part Number	Material
R4-91-231-10	Steel
R4-91-231-20	Stainless Steel

Hand Actuation (left hand, single stage version shown)



Part Number

See table

Order latch and striker separately

S Stage & Actuation

- 1 Single stage, right hand
- 2 Single stage, left hand
- 3 Two stage, right hand
- 4 Two stage, left hand

I Mounting Style

- 0 Ø 8.3 (.327) thru
- 1 5/16-18 thread
- 2 M8 x 1.25 thread

R4 - 20 - S I - L 01 - M

L Lever Type

- 4 Hand actuation (steel only)
- 5 Bottom

M Material

- 10 Steel
- 20 Stainless steel

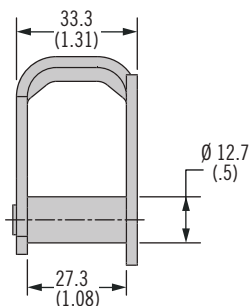
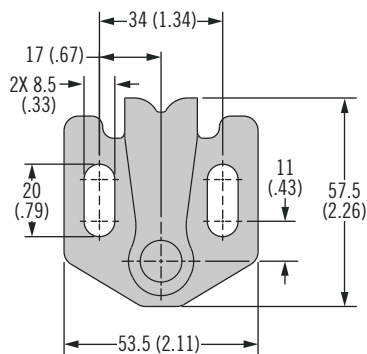
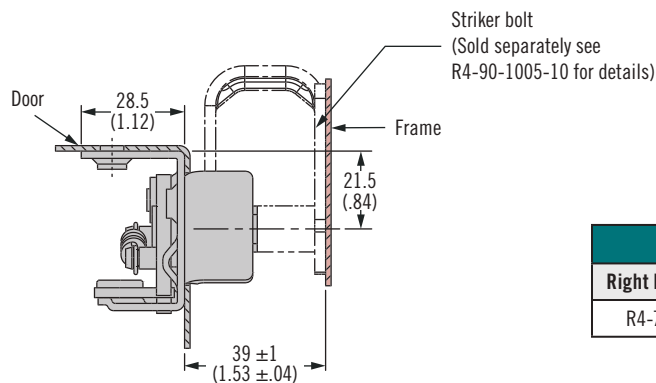
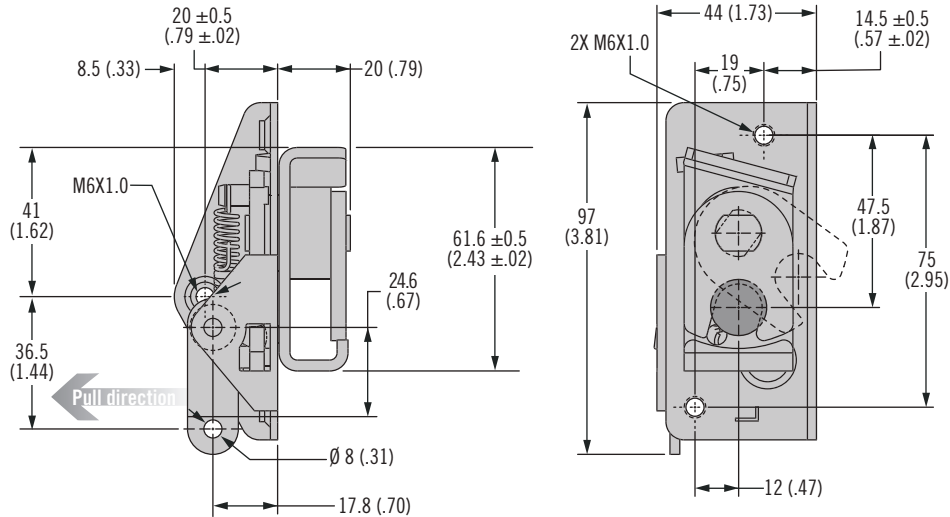
R4 Rotary Latch

Medium · Concealed · Debris Resistant · Two stage



299

Two Stage (Left hand actuation shown)



Part Number	
Right Hand Actuation	Left Hand Actuation
R4-75-32-201-10	R4-72-42-201-10

Protected Striker	
Part Number	Material
R4-90-1005-10	Steel

- Compatible with a wide array of actuators
- Debris resistant concealed mounting
- Two stage latching

Material and Finish

Steel, zinc plated

Accessories

Retainer clip AC-9BX-20-34
see page 323

Notes

Electromechanical rotary latch
available see page 20



Part Number

See table

Order latch and striker separately



R4 Rotary Latch

Heavy-Duty · Concealed · Single and two stage

- Compatible with wide array of actuators
- FMVSS 206 capable options
- EN 45545-3 E60 compliant (Standard version only)
- Integrated bumper version for anti-vibration feature

Material and Finish

Steel, zinc plated

Steel, zinc nickel plated

(black and clear)

Stainless steel, passivated

Accessories

Cables and retainer clips see pages 322-323

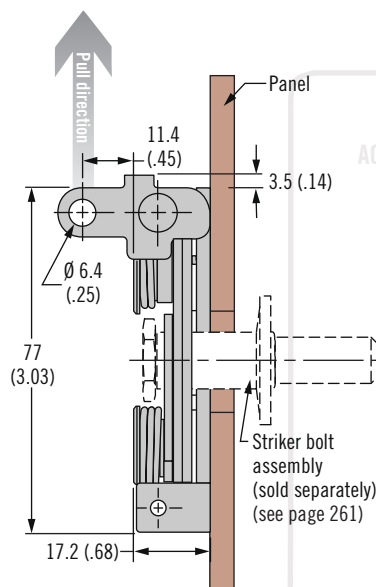
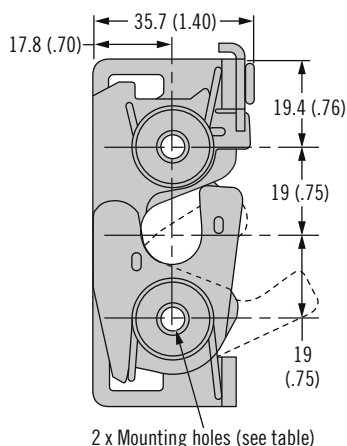
Striker options see page 301

Notes

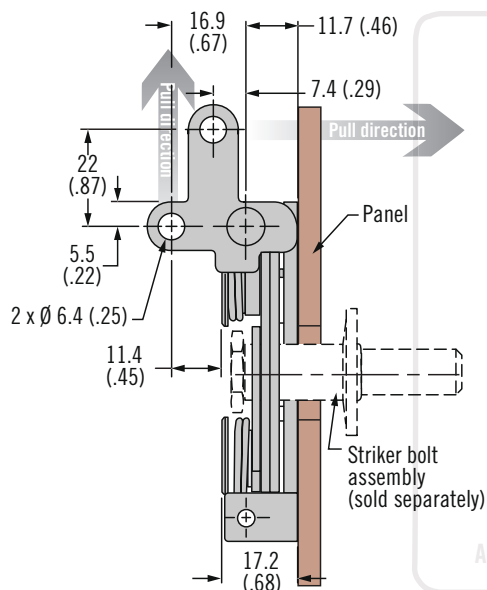
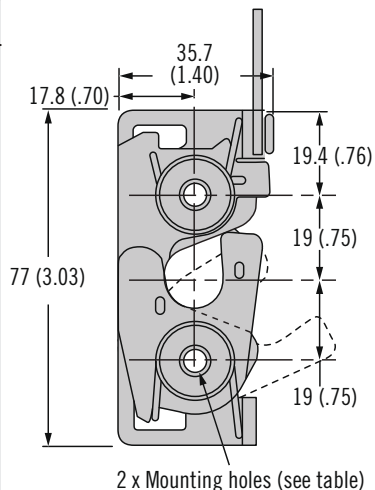
R4-38-101-10 support plate sold separately for FMVSS 206 capability

Mounts opposite of latch housing.

Perpendicular (left hand actuation shown)



2-Point Actuator (left hand actuation shown)



Part Number Selection

S Stage & Actuation

- 1 Single stage, right hand
- 2 Single stage, left hand
- 3 Two stage, right hand
- 4 Two stage, left hand

I Mounting Style

- 0 Ø6.7 (.283) thru
- 1 1/4-20 thread
- 2 M6 x 1 thread

1 Base Style

- 1 Standard
- 5 Integrated bumper

L Lever Type

- 1 Perpendicular
- 3 Two point
- 7 Dual Lever, Bottom & Perpendicular

M Material

- 10 Steel, zinc plated
- 15 Steel, black zinc nickel
- 77 Steel, clear zinc nickel
- 20 Stainless steel

R4 - 30 - S I - L O B - M

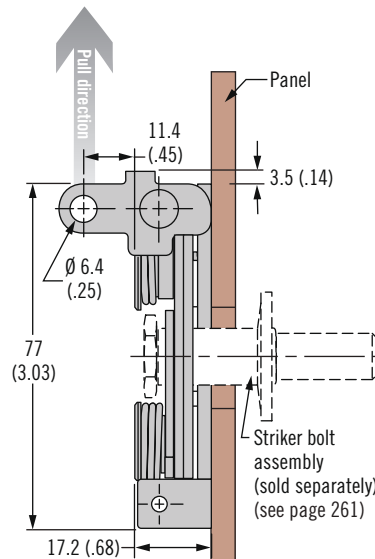
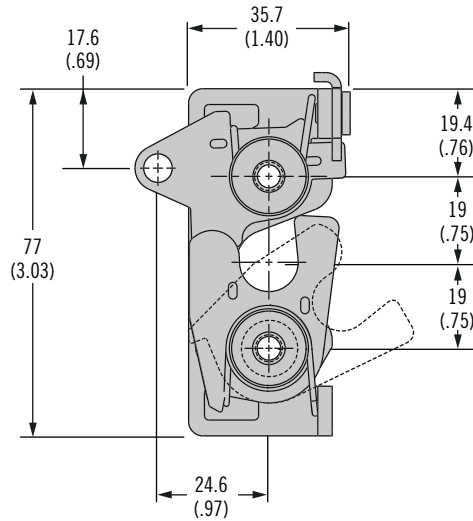
R4 Rotary Latch

Heavy-Duty · Concealed · Single and Two stage

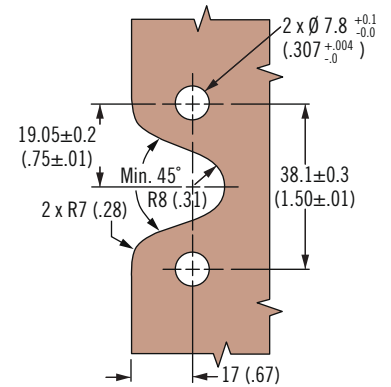


301

Dual Trigger (left hand actuation shown)



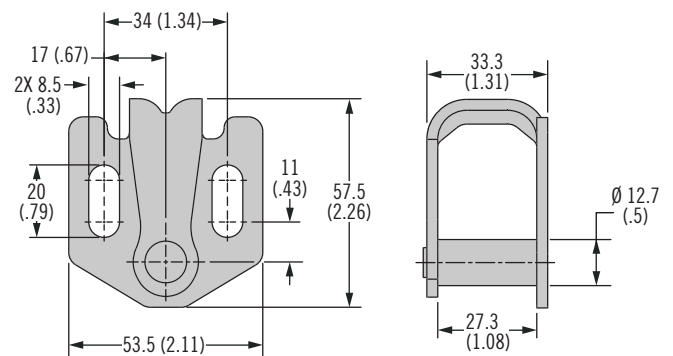
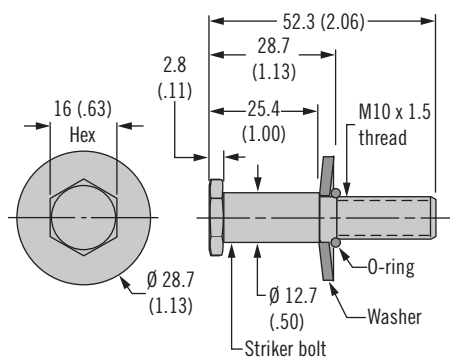
Panel Preparation



Strikers (sold separately)

Striker Bolt Part Number	
Part Number	Material
R4-90-321-10	Steel
R4-90-321-20	Stainless Steel

Protected Striker	
Part Number	Material
R4-90-1005-10	Steel
*Not FMVSS 206 Capable	



ACTUAL SIZE



R4 Rotary Latch

Heavy-Duty · Concealed · Single and two stage

- Compatible with wide array of actuators
- FMVSS 206 capable options
- EN 45545-3 E60 compliant (Standard version only)
- Integrated bumper version for anti-vibration feature

Material and Finish

Steel, zinc plated

Steel, zinc nickel plated
(black and clear)

Stainless steel, passivated

Accessories

Cables and retainer clips see pages 322-323

Striker options see page 301

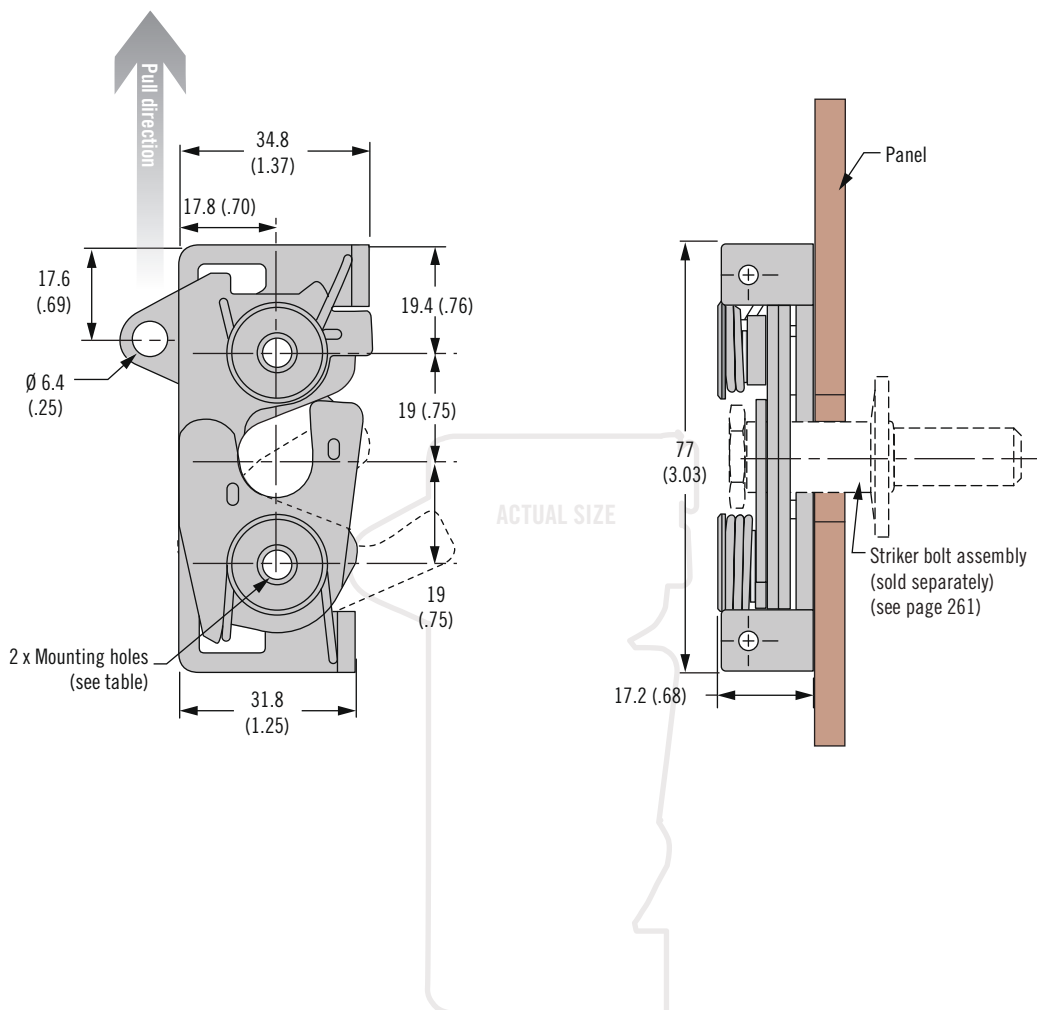
Notes

R4-38-101-10 support plate sold separately for FMVSS 206 capability

Mounts opposite of latch housing.

Bottom

(left hand actuation shown)



Part Number Selection

S Stage & Actuation

- 1 Single stage, right hand
- 2 Single stage, left hand
- 3 Two stage, right hand
- 4 Two stage, left hand

I Mounting Style

- 0 Ø6.7 (.283) thru
- 1 1/4-20 thread
- 2 M6 x 1 thread

R4 - 30 - S I - 50 B - M

1 Base Style

- 1 Standard
- 2 Standard with cable bracket for spring
- 3 Standard with cable bracket no spring
- 5 Integrated bumper
- 6 Integrated bumper with cable bracket for spring
- 7 Integrated bumper with cable bracket no spring

M Material

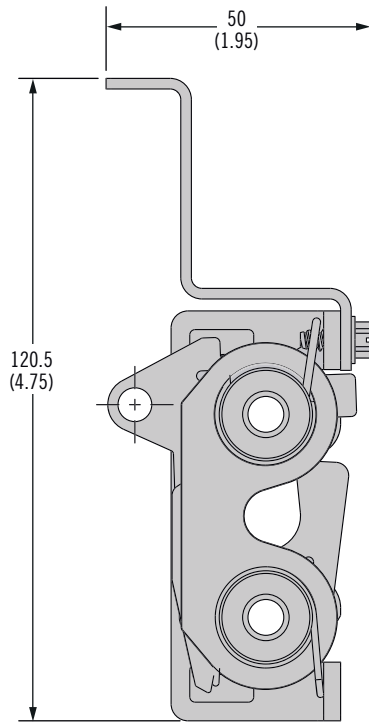
- 10 Steel, zinc plated
- 15 Steel, black zinc nickel plated
- 77 Steel, clear zinc nickel
- 20 Stainless steel

R4 Rotary Latch

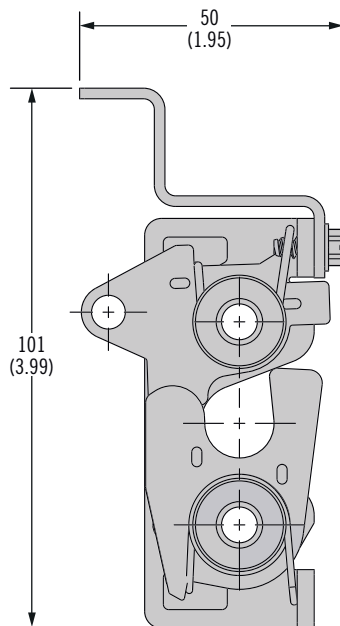
Heavy-Duty · Concealed · Single and two stage

Bottom with cable bracket

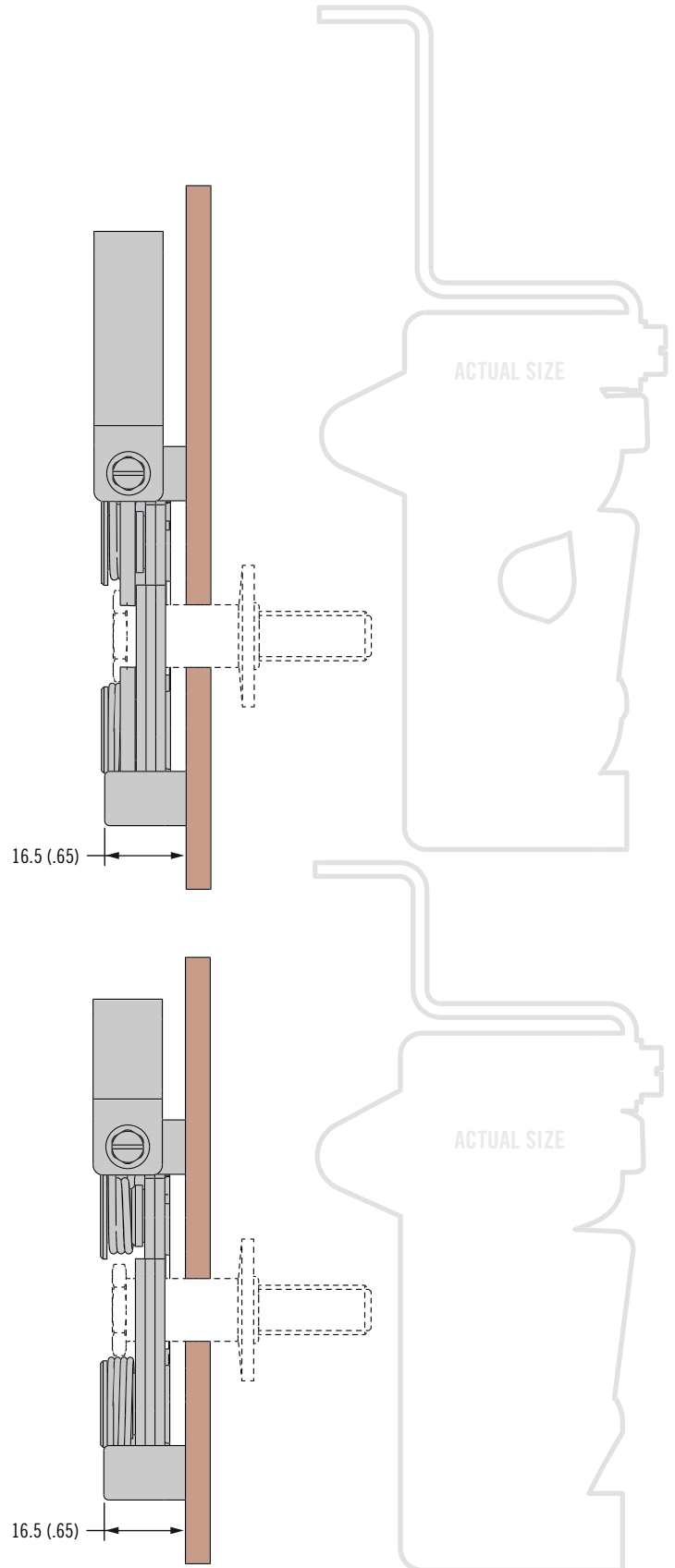
(left hand actuation shown)



(with bumper shown)



(without bumper shown)



Dimensions in millimeters (inch) unless otherwise stated



R4 Rotary Latch

Heavy-duty · Two stage

- Single or multi-point latch capability
- Compatible with a wide array of actuators
- FMVSS 206 capable
- EN 45545-3 E60 compliant

Material and Finish

Steel, zinc plated

Accessories

Cables and retainer clips see pages 322-323

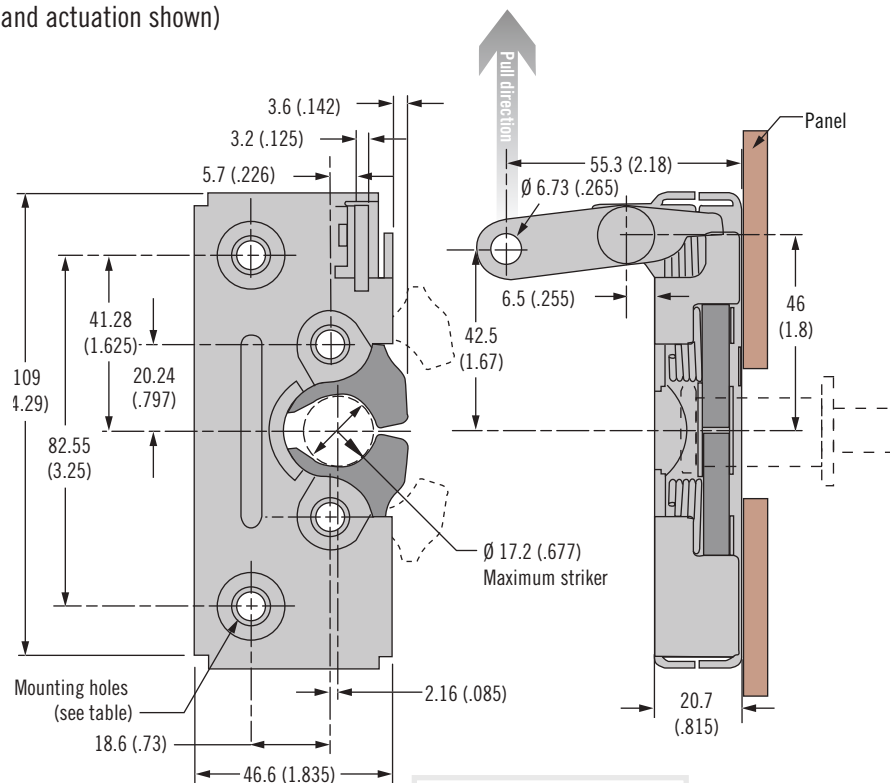
Notes

Electromechanical rotary latches available see page 20

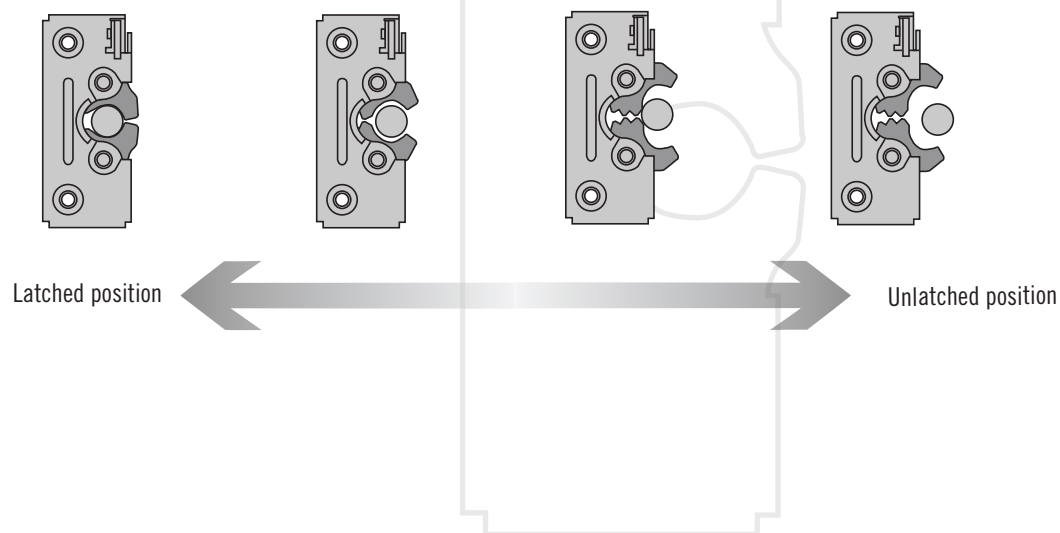
For panel preparation visit www.southco.com/R4

Striker Bolt Assembly (sold separately): R4-90-441-10

Single Trigger, Perpendicular Actuation (left hand actuation shown)



Operation





E60

Part Number Selection

R4 - 50 - **S** **I** - 101 - 10

S Stage & Actuation

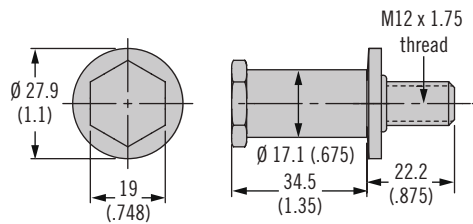
- 1 Single stage, right hand
- 2 Single stage, left hand
- 3 Two stage, right hand
- 4 Two stage, left hand

I Mounting Style

- 0 7.2mm thru hole
- 1 1/4-20 thread
- 2 M6 thread

Striker Bolt Assembly (sold separately)

R4-90-441-10 Steel, Zinc Plated



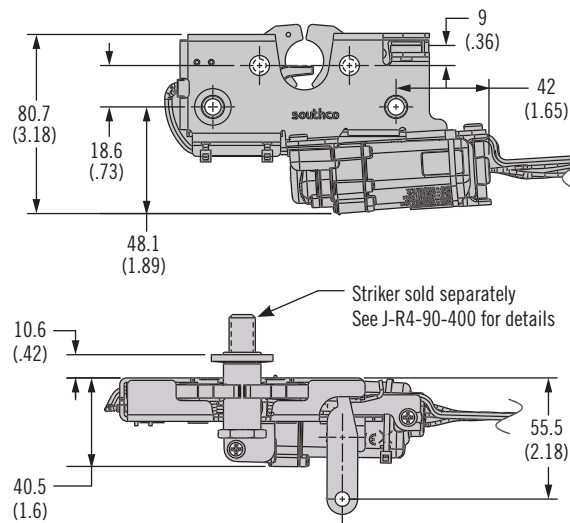
R4 Rotary Latch

Heavy-Duty – Concealed – Electronic Operation and Door Sensing

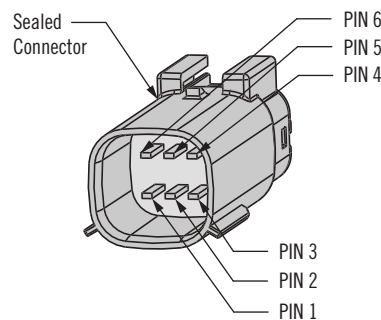


305A

Latch with door sensor, 12V sealed electronic actuator (right hand actuation shown)

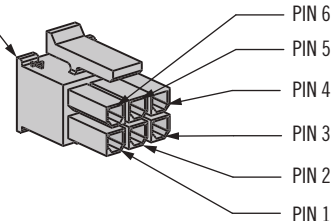


Connector options
(See below)



Connector Pinout		
Pin	Wire Color	Function
1	Brown	Ground
2	Red	Power release
3	Orange	Power relock
4	Black	Switch common
5	Blue	Door secure
6	Grey	Door open

Non-Sealed
Connector



Enable wireless operation with
Southco's **BLUETOOTH®** Controller

Part Number Selection

R4 - 50 - S I - 1 E 1 - 10

- I Stage & Actuation**
- 3 Two stage right hand
 - 4 Two stage left hand

- I Mounting Style**
- 0 7.2 mm thru hole
 - 1 1/4-20 threaded
 - 2 M6 threaded

- E Electronics**
- EA With switch and actuator, non-sealed connector
 - EB With switch and actuator, stripped & tinned wires
 - EC With switch and actuator, sealed connector

- High strength door retention (FMVSS 206)
- Sensor verifies door closure
- Exceptional cycle life
- Quick release
- Sealed actuator
- Releases reliably under high load

Material and Finish

Latch: steel, zinc plate or zinc nickel plate
Actuator: PC/ABS, acetal, silicone, buna seals

Electronic specifications:

Operating voltage 12 VDC nominal
Operating current < 600mA
Temperature -40 to 80°C
Sealed (IP65)

Accessories

Striker Bolt Assembly
(sold separately) R4-90-441-10
Cables and retainer clips
see pages 322-323



Dimensions in millimeters (inch) unless otherwise stated



R4-81 Rotary Paddle Latch

Pull-to-open

- Rear mount installation
- Direct actuation, no cable or rod required
- Single or two stage latching
- Integrated bumper option
- Environmentally sealed

Material and Finish

Housing: Glass-filled nylon, black

Paddle: Zinc alloy, black powder coated or chrome plated

Installation Notes

Maximum tightening torque on supplied mounting nuts 3 N·m (27 in·lbf)

Accessories

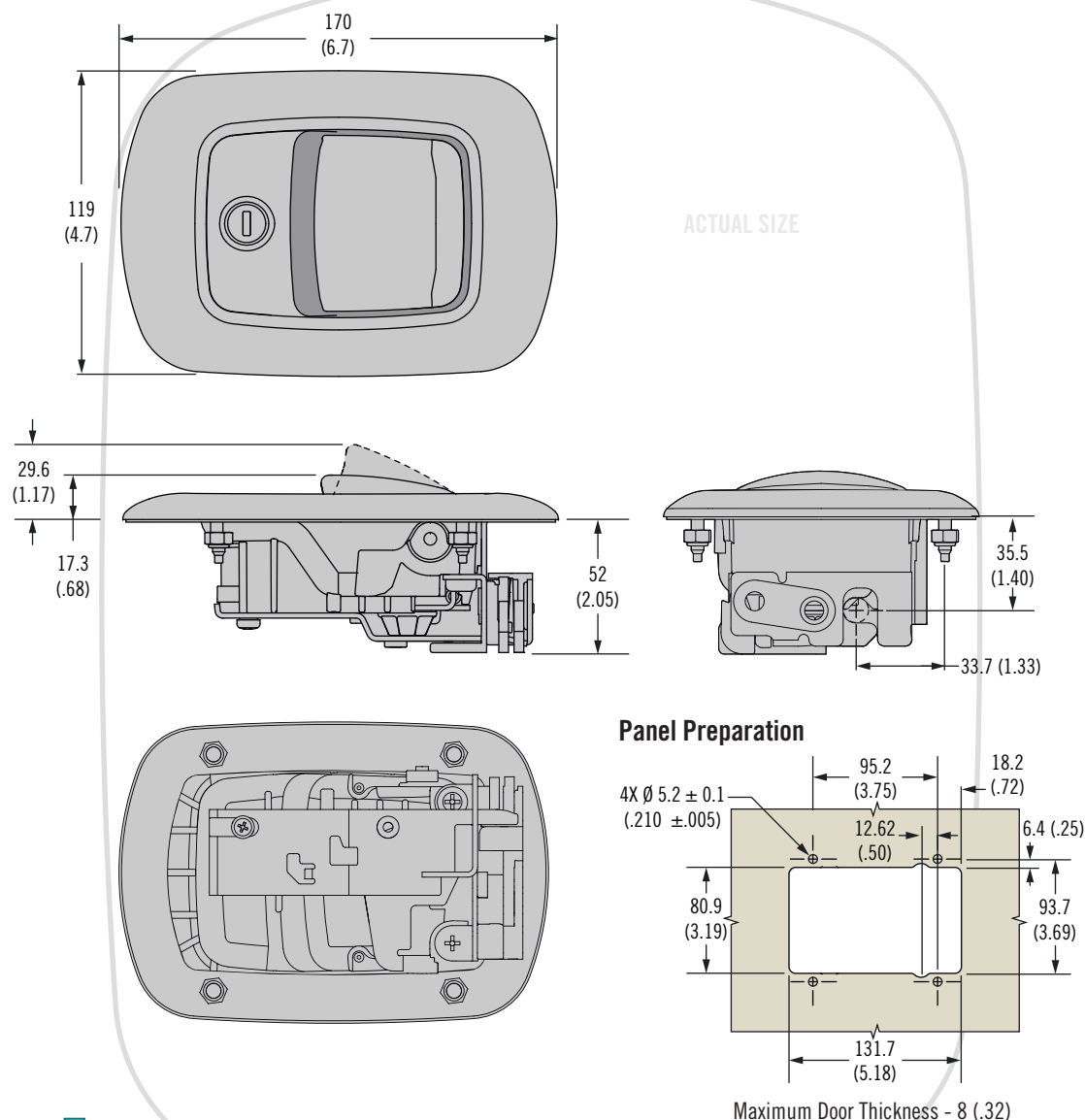
Striker bolt see page 297

Notes

For lock core selection and a complete overview of the *SOUTHCO*® Key-Choice System see page 190

Part Number

See table



S Stage & Bumper

- 2 Single Stage
- 4 Two Stage
- 6 Single Stage with Integrated Bumper
- 8 Two Stage with Integrated Bumper

PP Paddle Finish

- 30 Chrome, polished
- 50 Black powder coated

R4 - 81 - S L 1 - PP - KC

L Locking Options

- 1 Reversible Key (No Keys - R001)
- 2 Reversible Key (2 Keys included - R001)
- 3 Reversible Key (2 keys included - Keyed differently)
- 4 Standard Key (No keys - CH751)
- 5 Standard Key (2 Keys included - CH751)
- 6 Standard Key (2 keys included - Keyed differently)
- 9 No Lock Plug installed (See notes for more information)

KC Key Codes

(Omit for Locking Options 1, 2, 4, 5 and 9)

***KD10** Keyed Differently (Only used if **L** = 3 or 6)

***MK10** Master Keyed Differently (Only used if **L** = 6)

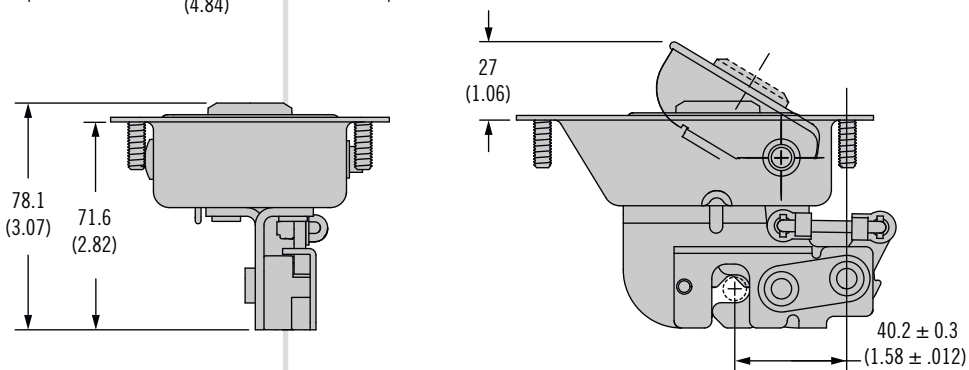
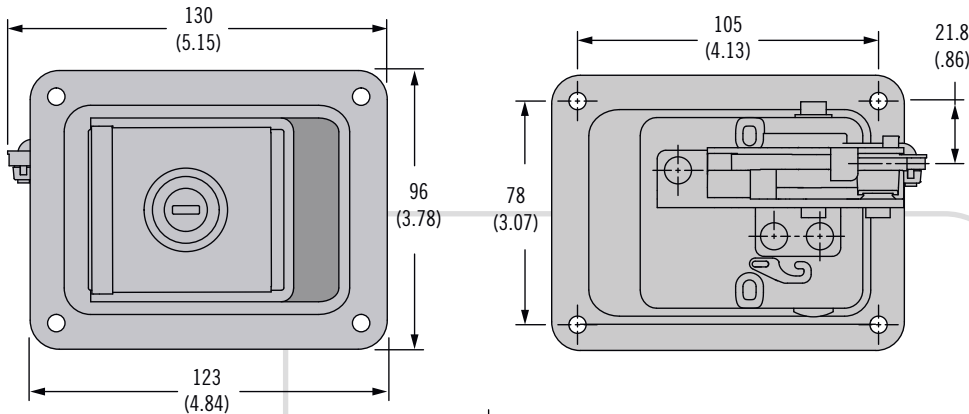
*Supplied in multiples of 10 with 10 different key codes.

R4-82 Rotary Paddle Latch

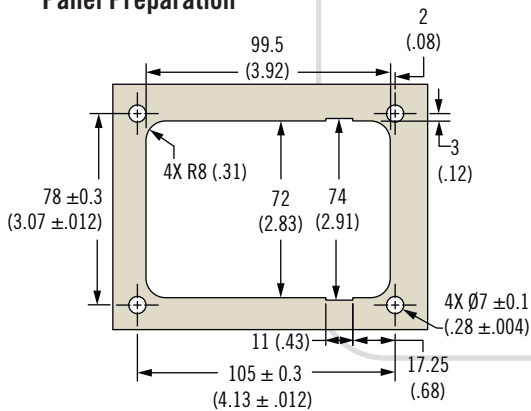
Pull-to-open



307



Panel Preparation



- Direct actuation, no cable or rod required
- Single or two stage latching
- Integrated bumper
- Thru hole or stud mounting options

Material and Finish

Cup and handle: Steel, zinc plated or black powder coat

Lock slide, latch frame, pawl, trigger: Steel, zinc plated

Installation Notes

Thru hole: M5 or #8 screws recommended

Studs: Use M6 mounting nuts (max tightening torque 7 N·m (62 in·lbf))

Studs: Max panel thickness 10 (.39)

Accessories

Striker bolt see page 297

Notes

For lock core selection and a complete overview of the *SOUTHCO*® Key-Choice System see page 190

Part Number Selection

See table

S Stage

6 Single Stage with Integrated Bumper

8 Two Stage with Integrated Bumper

L Locking Options

1 Reversible Key (No Keys - R001)

2 Reversible Key (2 Keys included - R001)

3 Reversible Key (Keyed differently - 2 keys included)

4 Standard Key (No keys - CH751)

5 Standard Key (2 Keys included - CH751)

6 Standard Key (Keyed differently - 2 keys included)

7 Reversible Key (2 keys included - 14603)

9 No Lock Plug installed (See notes for more information)

H Housing

2 Rivet Thru Hole 5.2 (.20)

4 Press-in Studs

PP Finish

10 Zinc plated

50 Black powder coated

R4 - 82 - S L H - PP - KC

KC Key Codes

(Omit for Locking Options 1, 2, 4, 5 and 9)

***KD10** Keyed Differently (Only used if **L** = 3 or 6)

***MK10** Master Keyed Differently (Only used if **L** = 6)

*Supplied in multiples of 10 with 10 different key codes.

R4-0-43922	R4-05-21-405-77	R4-05-23-505-77	R4-05-41-501-77	R4-05-43-9A05-10
R4-0-43922-1	R4-05-21-501-10	R4-05-23-9A01-10	R4-05-41-505-10	R4-05-43-9A05-15
R4-0-43922-2	R4-05-21-501-15	R4-05-23-9A01-15	R4-05-41-505-15	R4-05-43-9A05-77
R4-0-43922-3	R4-05-21-501-20	R4-05-23-9A01-77	R4-05-41-505-20	R4-05-50-501-10
R4-0-44713	R4-05-21-501-77	R4-05-23-9A05-10	R4-05-41-505-77	R4-05-50-501-15
R4-0-50114	R4-05-21-505-10	R4-05-23-9A05-15	R4-05-41-9A01-10	R4-05-50-501-20
R4-0-50253-1	R4-05-21-505-15	R4-05-23-9A05-77	R4-05-41-9A01-15	R4-05-50-505-10
R4-0-50253-2	R4-05-21-505-20	R4-05-25-4EB1-20	R4-05-41-9A01-77	R4-05-50-505-15
R4-0-50253-3	R4-05-21-505-77	R4-05-25-4EF1-20	R4-05-41-9A05-10	R4-05-50-505-20
R4-0-50452	R4-05-21-9A01-10	R4-05-25-4EK1-20	R4-05-41-9A05-15	R4-05-50-9EB1-20
R4-0-51292	R4-05-21-9A01-15	R4-05-25-4EP1-20	R4-05-41-9A05-77	R4-05-50-9EF1-20
R4-05-20-401-10	R4-05-21-9A01-77	R4-05-25-9EA1-20	R4-05-42-401-10	R4-05-50-9EK1-20
R4-05-20-401-15	R4-05-21-9A05-10	R4-05-25-9EE1-20	R4-05-42-401-15	R4-05-50-9EP1-20
R4-05-20-401-20	R4-05-21-9A05-15	R4-05-25-9EJ1-20	R4-05-42-401-20	R4-05-51-501-10
R4-05-20-401-77	R4-05-21-9A05-77	R4-05-25-9EN1-20	R4-05-42-401-77	R4-05-51-501-15
R4-05-20-405-10	R4-05-22-401-10	R4-05-40-401-10	R4-05-42-405-10	R4-05-51-501-20
R4-05-20-405-15	R4-05-22-401-15	R4-05-40-401-15	R4-05-42-405-15	R4-05-51-505-10
R4-05-20-405-20	R4-05-22-401-20	R4-05-40-401-20	R4-05-42-405-20	R4-05-51-505-15
R4-05-20-405-77	R4-05-22-401-77	R4-05-40-401-77	R4-05-42-405-77	R4-05-51-505-20
R4-05-20-4EB1-20	R4-05-22-405-10	R4-05-40-405-10	R4-05-42-501-10	R4-05-52-501-10
R4-05-20-4EF1-20	R4-05-22-405-15	R4-05-40-405-15	R4-05-42-501-15	R4-05-52-501-15
R4-05-20-4EK1-20	R4-05-22-405-20	R4-05-40-405-20	R4-05-42-501-20	R4-05-52-501-20
R4-05-20-4EP1-20	R4-05-22-405-77	R4-05-40-405-77	R4-05-42-501-77	R4-05-52-505-10
R4-05-20-501-10	R4-05-22-501-10	R4-05-40-501-10	R4-05-42-505-10	R4-05-52-505-15
R4-05-20-501-15	R4-05-22-501-15	R4-05-40-501-15	R4-05-42-505-15	R4-05-52-505-20
R4-05-20-501-20	R4-05-22-501-20	R4-05-40-501-20	R4-05-42-505-20	R4-05-53-501-10
R4-05-20-501-77	R4-05-22-501-77	R4-05-40-501-77	R4-05-42-505-77	R4-05-53-501-15
R4-05-20-505-10	R4-05-22-505-10	R4-05-40-505-10	R4-05-42-9A01-10	R4-05-53-505-10
R4-05-20-505-15	R4-05-22-505-15	R4-05-40-505-15	R4-05-42-9A01-15	R4-05-53-505-15
R4-05-20-505-20	R4-05-22-505-20	R4-05-40-505-20	R4-05-42-9A01-77	R4-05-55-9EB1-20
R4-05-20-505-77	R4-05-22-505-77	R4-05-40-505-77	R4-05-42-9A05-10	R4-05-55-9EF1-20
R4-05-20-9A01-10	R4-05-22-9A01-10	R4-05-40-9A01-10	R4-05-42-9A05-15	R4-05-55-9EK1-20
R4-05-20-9A01-15	R4-05-22-9A01-15	R4-05-40-9A01-15	R4-05-42-9A05-77	R4-05-55-9EP1-20
R4-05-20-9A01-77	R4-05-22-9A01-77	R4-05-40-9A01-77	R4-05-43-401-10	R4-0-60784
R4-05-20-9A05-10	R4-05-22-9A05-10	R4-05-40-9A05-10	R4-05-43-401-15	R4-0-61336
R4-05-20-9A05-15	R4-05-22-9A05-15	R4-05-40-9A05-15	R4-05-43-401-77	R4-0-61352
R4-05-20-9A05-77	R4-05-22-9A05-77	R4-05-40-9A05-77	R4-05-43-405-10	R4-0-71060
R4-05-20-9EA1-20	R4-05-23-401-10	R4-05-41-401-10	R4-05-43-405-15	R4-0-72894-2
R4-05-20-9EE1-20	R4-05-23-401-15	R4-05-41-401-15	R4-05-43-405-77	R4-0-72894-3
R4-05-20-9EJ1-20	R4-05-23-401-77	R4-05-41-401-20	R4-05-43-501-10	R4-0-72894-4
R4-05-20-9EN1-20	R4-05-23-405-10	R4-05-41-401-77	R4-05-43-501-15	R4-10-10-101-10
R4-05-21-401-10	R4-05-23-405-15	R4-05-41-405-10	R4-05-43-501-77	R4-10-10-101-15
R4-05-21-401-15	R4-05-23-405-77	R4-05-41-405-15	R4-05-43-505-10	R4-10-10-101-20
R4-05-21-401-20	R4-05-23-501-10	R4-05-41-405-20	R4-05-43-505-15	R4-10-10-101-77
R4-05-21-401-77	R4-05-23-501-15	R4-05-41-405-77	R4-05-43-505-77	R4-10-10-105-10
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R4-30-41-505-77	R4-30-42-505-77	R4-50-31-4B81-10	R4-50-42-4B81-10	R4-81-631-50-KD10
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R4-30-41-705-77	R4-30-42-705-77	R4-50-40-1EC1-10	R4-81-231-50-KD10	R4-81-831-50-KD10
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R4-82-634-10-KD10	R4-82-854-50	R4-90-106-77		
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R4-82-644-50	R4-82-864-10-KD10			
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R4-82-652-50	R4-82-864-50-KD10			
R4-82-654-10	R4-82-864-50-MK10			
R4-82-654-50	R4-82-872-10			
R4-82-662-10-KD10	R4-82-872-50			
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R4-82-662-50-MK10	R4-82-892-10			
R4-82-664-10-KD10	R4-82-892-50			
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R4-82-664-50-MK10	R4-90-0501-10			
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R4-82-844-10	R4-90-104-20			
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R4-90-124-20	R4-EM-05D00-100	R4-EM-13-151	R4-EM-23-161	R4-EM-51-161-B
R4-90-124-77	R4-EM-05D00-100-1	R4-EM-13-151-1	R4-EM-23-162	R4-EM-51-162
R4-90-321-10	R4-EM-05D00-110	R4-EM-13-152	R4-EM-232-131	R4-EM-51-162-1
R4-90-321-20	R4-EM-05D00-150	R4-EM-13-161	R4-EM-232-132	R4-EM-51-162-1B
R4-90-321-xx	R4-EM-05D00-150-1	R4-EM-13-161-1	R4-EM-232-161	R4-EM-51-162-B
R4-90-4101-10	R4-EM-05D00-160	R4-EM-13-162	R4-EM-232-162	R4-EM-51-163
R4-90-441-10	R4-EM-05D10-100	R4-EM-13-162-1	R4-EM-233-131	R4-EM-51-163-1
R4-90-491-10	R4-EM-05D10-100-1	R4-EM-133-131	R4-EM-233-132	R4-EM-51-163-1B
R4-90-511-20	R4-EM-05D10-110	R4-EM-133-132	R4-EM-233-161	R4-EM-51-163-B
R4-90-709-20	R4-EM-05D10-150	R4-EM-133-161	R4-EM-233-162	R4-EM-51-171
R4-90-800-10	R4-EM-05D10-150-1	R4-EM-133-162	R4-EM-234-131	R4-EM-51-171-1
R4-90-804-10	R4-EM-05D10-160	R4-EM-21-131	R4-EM-234-132	R4-EM-51-171-1B
R4-91-121-10	R4-EM-05D20-100	R4-EM-21-132	R4-EM-234-161	R4-EM-51-171-B
R4-91-231-10	R4-EM-05D20-100-1	R4-EM-21-161	R4-EM-234-162	R4-EM-51-172
R4-91-231-20	R4-EM-05D20-110	R4-EM-21-162	R4-EM-321-30	R4-EM-51-172-1
R4-91-281-10	R4-EM-05D20-150	R4-EM-21-21	R4-EM-321-31	R4-EM-51-172-1B
R4-91-281-20	R4-EM-05D20-150-1	R4-EM-212-131	R4-EM-321-32	R4-EM-51-172-B
R4-91-441-10	R4-EM-05D20-160	R4-EM-212-132	R4-EM-321-33	R4-EM-51-173
R4-91-700-20	R4-EM-11-0	R4-EM-212-161	R4-EM-321-34	R4-EM-51-173-1
R4-99-224	R4-EM-11-121	R4-EM-212-162	R4-EM-321-35	R4-EM-51-173-1B
R4-99-224-1	R4-EM-11-131	R4-EM-21-22	R4-EM-43-131	R4-EM-51-173-B
R4-99-308-30	R4-EM-11-131-1	R4-EM-21-31	R4-EM-43-131-1	R4-EM-513-131
R4-99-308-50	R4-EM-11-132	R4-EM-213-131	R4-EM-43-132	R4-EM-513-131-1
R4-99-739-11	R4-EM-11-132-1	R4-EM-213-132	R4-EM-43-151	R4-EM-513-132
R4-99-739-12	R4-EM-11-151	R4-EM-213-161	R4-EM-43-151-1	R4-EM-513-132-1
R4-99-739-21	R4-EM-11-151-1	R4-EM-213-162	R4-EM-43-161	R4-EM-513-133
R4-99-739-22	R4-EM-11-161	R4-EM-21-32	R4-EM-43-161-1	R4-EM-513-133-1
R4-99-739-31	R4-EM-11-161-1	R4-EM-21-33	R4-EM-43-162	R4-EM-513-161
R4-99-739-32	R4-EM-11-162	R4-EM-21-34	R4-EM-44-131	R4-EM-513-161-1
R4-99-849-12	R4-EM-11-162-1	R4-EM-214-131	R4-EM-44-131-1	R4-EM-513-162
R4-99-849-22	R4-EM-113-131	R4-EM-214-132	R4-EM-44-132	R4-EM-513-162-1
R4-99-849-32	R4-EM-113-132	R4-EM-214-161	R4-EM-44-161	R4-EM-513-163
R4-99-966	R4-EM-113-161	R4-EM-214-162	R4-EM-44-161-1	R4-EM-513-163-1
R4-99-966-1	R4-EM-113-162	R4-EM-22-131	R4-EM-44-162	R4-EM-513-171
R4-EM-0-55526	R4-EM-12-0	R4-EM-22-132	R4-EM-45-131	R4-EM-513-171-1
R4-EM-05A00-100	R4-EM-12-131	R4-EM-22-161	R4-EM-45-132	R4-EM-513-172
R4-EM-05A00-100-1	R4-EM-12-131-1	R4-EM-22-161-1	R4-EM-45-161	R4-EM-513-172-1
R4-EM-05A00-110	R4-EM-12-132	R4-EM-22-162	R4-EM-45-162	R4-EM-513-173
R4-EM-05A00-150	R4-EM-12-132-1	R4-EM-222-131	R4-EM-51-131	R4-EM-513-173-1
R4-EM-05A00-150-1	R4-EM-12-151	R4-EM-222-132	R4-EM-51-131-1	R4-EM-52
R4-EM-05A00-160	R4-EM-12-161	R4-EM-222-161	R4-EM-51-131-1B	R4-EM-521-31
R4-EM-05A10-100	R4-EM-12-161-1	R4-EM-222-162	R4-EM-51-131-B	R4-EM-52-131
R4-EM-05A10-100-1	R4-EM-12-162	R4-EM-222-162-1	R4-EM-51-132	R4-EM-521-31-1
R4-EM-05A10-110	R4-EM-12-162-1	R4-EM-223-131	R4-EM-51-132-1	R4-EM-52-131-1
R4-EM-05A10-150	R4-EM-123-131	R4-EM-223-132	R4-EM-51-132-1B	R4-EM-52-131-1B
R4-EM-05A10-150-1	R4-EM-123-132	R4-EM-223-161	R4-EM-51-132-B	R4-EM-52-131-B
R4-EM-05A10-160	R4-EM-123-161	R4-EM-223-162	R4-EM-51-133	R4-EM-521-32
R4-EM-05A20-100	R4-EM-123-162	R4-EM-224-131	R4-EM-51-133-1	R4-EM-52-132
R4-EM-05A20-100-1	R4-EM-13-0	R4-EM-224-132	R4-EM-51-133-1B	R4-EM-521-32-1
R4-EM-05A20-110	R4-EM-13-131	R4-EM-224-161	R4-EM-51-133-B	R4-EM-52-132-1
R4-EM-05A20-150	R4-EM-13-131-1	R4-EM-224-162	R4-EM-51-161	R4-EM-52-132-1B
R4-EM-05A20-150-1	R4-EM-13-132	R4-EM-23-131	R4-EM-51-161-1	R4-EM-52-132-B
R4-EM-05A20-160	R4-EM-13-132-1	R4-EM-23-132	R4-EM-51-161-1B	R4-EM-521-33

R4-EM-52-133	R4-EM-53-132	R4-EM-63-132-1	R4-EM-71-163-1	R4-EM-713-131-1
R4-EM-521-33-1	R4-EM-53-132-1	R4-EM-63-161	R4-EM-71-163-1B	R4-EM-713-132
R4-EM-52-133-1	R4-EM-53-132-1B	R4-EM-63-161-1	R4-EM-71-163-B	R4-EM-713-132-1
R4-EM-52-133-1B	R4-EM-53-132-B	R4-EM-63-162	R4-EM-71-171	R4-EM-713-133
R4-EM-52-133-B	R4-EM-53-133	R4-EM-63-162-1	R4-EM-71-171-1	R4-EM-713-133-1
R4-EM-521-34	R4-EM-53-133-1	R4-EM-632-131	R4-EM-71-171-1B	R4-EM-713-161
R4-EM-521-34-1	R4-EM-53-133-1B	R4-EM-632-131-1	R4-EM-71-171-B	R4-EM-713-161-1
R4-EM-52-161	R4-EM-53-133-B	R4-EM-632-132	R4-EM-71-172	R4-EM-713-162
R4-EM-52-161-1	R4-EM-53-161	R4-EM-632-132-1	R4-EM-71-172-1	R4-EM-713-162-1
R4-EM-52-161-1B	R4-EM-53-161-1	R4-EM-632-161	R4-EM-71-172-1B	R4-EM-713-163
R4-EM-52-161-B	R4-EM-53-161-1B	R4-EM-632-161-1	R4-EM-71-172-B	R4-EM-713-163-1
R4-EM-52-162	R4-EM-53-161-B	R4-EM-632-162	R4-EM-71-173	R4-EM-713-171
R4-EM-52-162-1	R4-EM-53-162	R4-EM-632-162-1	R4-EM-71-173-1	R4-EM-713-171-1
R4-EM-52-162-1B	R4-EM-53-162-1	R4-EM-64-131	R4-EM-71-173-1B	R4-EM-713-172
R4-EM-52-162-B	R4-EM-53-162-1B	R4-EM-64-131-1	R4-EM-71-173-B	R4-EM-713-172-1
R4-EM-52-163	R4-EM-53-162-B	R4-EM-64-132	R4-EM-712-131	R4-EM-713-173
R4-EM-52-163-1	R4-EM-53-163	R4-EM-64-161	R4-EM-712-131-1	R4-EM-713-173-1
R4-EM-52-163-1B	R4-EM-53-163-1	R4-EM-64-161-1	R4-EM-712-131-1B	R4-EM-714-131
R4-EM-52-163-B	R4-EM-53-163-1B	R4-EM-64-162	R4-EM-712-131-B	R4-EM-714-131-1
R4-EM-52-171	R4-EM-53-163-B	R4-EM-642-131	R4-EM-712-132	R4-EM-714-132
R4-EM-52-171-1	R4-EM-53-171	R4-EM-642-132	R4-EM-712-132-1	R4-EM-714-132-1
R4-EM-52-171-1B	R4-EM-53-171-1	R4-EM-642-161	R4-EM-712-132-1B	R4-EM-714-133
R4-EM-52-171-B	R4-EM-53-171-1B	R4-EM-642-161-1	R4-EM-712-132-B	R4-EM-714-133-1
R4-EM-52-172	R4-EM-53-171-B	R4-EM-642-162	R4-EM-712-133	R4-EM-714-161
R4-EM-52-172-1	R4-EM-53-172	R4-EM-65-131	R4-EM-712-133-1	R4-EM-714-161-1
R4-EM-52-172-1B	R4-EM-53-172-1	R4-EM-65-132	R4-EM-712-133-1B	R4-EM-714-162
R4-EM-52-172-B	R4-EM-53-172-1B	R4-EM-65-161	R4-EM-712-133-B	R4-EM-714-162-1
R4-EM-52-173	R4-EM-53-172-B	R4-EM-65-162	R4-EM-712-161	R4-EM-714-163
R4-EM-52-173-1	R4-EM-53-173	R4-EM-652-131	R4-EM-712-161-1	R4-EM-714-163-1
R4-EM-52-173-1B	R4-EM-53-173-1	R4-EM-652-132	R4-EM-712-161-1B	R4-EM-714-171
R4-EM-52-173-B	R4-EM-53-173-1B	R4-EM-652-161	R4-EM-712-161-B	R4-EM-714-171-1
R4-EM-523-131	R4-EM-53-173-B	R4-EM-652-162	R4-EM-712-162	R4-EM-714-172
R4-EM-523-131-1	R4-EM-533-131	R4-EM-71-131	R4-EM-712-162-1	R4-EM-714-172-1
R4-EM-523-132	R4-EM-533-131-1	R4-EM-71-131-1	R4-EM-712-162-1B	R4-EM-714-173
R4-EM-523-132-1	R4-EM-533-132	R4-EM-71-131-1B	R4-EM-712-162-B	R4-EM-714-173-1
R4-EM-523-133	R4-EM-533-132-1	R4-EM-71-131-B	R4-EM-712-163	R4-EM-72
R4-EM-523-133-1	R4-EM-533-133	R4-EM-71-132	R4-EM-712-163-1	R4-EM-72-131
R4-EM-523-161	R4-EM-533-133-1	R4-EM-71-132-1	R4-EM-712-163-1B	R4-EM-72-131-1
R4-EM-523-161-1	R4-EM-533-161	R4-EM-71-132-1B	R4-EM-712-163-B	R4-EM-72-131-1B
R4-EM-523-162	R4-EM-533-161-1	R4-EM-71-132-B	R4-EM-712-171	R4-EM-72-131-B
R4-EM-523-162-1	R4-EM-533-162	R4-EM-71-133	R4-EM-712-171-1	R4-EM-72-132
R4-EM-523-163	R4-EM-533-162-1	R4-EM-71-133-1	R4-EM-712-171-1B	R4-EM-72-132-1
R4-EM-523-163-1	R4-EM-533-163	R4-EM-71-133-1B	R4-EM-712-171-B	R4-EM-72-132-1B
R4-EM-523-171	R4-EM-533-163-1	R4-EM-71-133-B	R4-EM-712-172	R4-EM-72-132-B
R4-EM-523-171-1	R4-EM-533-171	R4-EM-71-161	R4-EM-712-172-1	R4-EM-72-133
R4-EM-523-172	R4-EM-533-171-1	R4-EM-71-161-1	R4-EM-712-172-1B	R4-EM-72-133-1
R4-EM-523-172-1	R4-EM-533-172	R4-EM-71-161-1B	R4-EM-712-172-B	R4-EM-72-133-1B
R4-EM-523-173	R4-EM-533-172-1	R4-EM-71-161-B	R4-EM-712-173	R4-EM-72-133-B
R4-EM-523-173-1	R4-EM-533-173	R4-EM-71-162	R4-EM-712-173-1	R4-EM-72-161
R4-EM-53-131	R4-EM-533-173-1	R4-EM-71-162-1	R4-EM-712-173-1B	R4-EM-72-161-1
R4-EM-53-131-1	R4-EM-63-131	R4-EM-71-162-1B	R4-EM-712-173-B	R4-EM-72-161-1B
R4-EM-53-131-1B	R4-EM-63-131-1	R4-EM-71-162-B	R4-EM-712-173-D	R4-EM-72-161-B
R4-EM-53-131-B	R4-EM-63-132	R4-EM-71-163	R4-EM-713-131	R4-EM-72-162

R4-EM-72-162-1	R4-EM-722-173-1B	R4-EM-73-161-1	R4-EM-732-172	R4-EM-816-230-1
R4-EM-72-162-1B	R4-EM-722-173-B	R4-EM-73-161-1B	R4-EM-732-172-1	R4-EM-816-240
R4-EM-72-162-B	R4-EM-723-131	R4-EM-73-161-B	R4-EM-732-172-1B	R4-EM-816-240-1
R4-EM-72-163	R4-EM-723-131-1	R4-EM-73-162	R4-EM-732-172-B	R4-EM-816-330
R4-EM-72-163-1	R4-EM-723-132	R4-EM-73-162-1	R4-EM-732-173	R4-EM-816-330-1
R4-EM-72-163-1B	R4-EM-723-132-1	R4-EM-73-162-1B	R4-EM-732-173-1	R4-EM-816-340
R4-EM-72-163-B	R4-EM-723-133	R4-EM-73-162-B	R4-EM-732-173-1B	R4-EM-816-340-1
R4-EM-72-171	R4-EM-723-133-1	R4-EM-73-163	R4-EM-732-173-B	R4-EM-821-230
R4-EM-72-171-1	R4-EM-723-161	R4-EM-73-163-1	R4-EM-733-131	R4-EM-821-330
R4-EM-72-171-1B	R4-EM-723-161-1	R4-EM-73-163-1B	R4-EM-733-131-1	R4-EM-822-230
R4-EM-72-171-B	R4-EM-723-162	R4-EM-73-163-B	R4-EM-733-132	R4-EM-82-230
R4-EM-72-172	R4-EM-723-162-1	R4-EM-73-171	R4-EM-733-132-1	R4-EM-82-230-1
R4-EM-72-172-1	R4-EM-723-163	R4-EM-73-171-1	R4-EM-733-133	R4-EM-822-330
R4-EM-72-172-1B	R4-EM-723-163-1	R4-EM-73-171-1B	R4-EM-733-133-1	R4-EM-82-330
R4-EM-72-172-B	R4-EM-723-163-1B	R4-EM-73-171-B	R4-EM-733-161	R4-EM-82-330-1
R4-EM-72-173	R4-EM-723-163-B	R4-EM-73-172	R4-EM-733-161-1	R4-EM-826-230
R4-EM-72-173-1	R4-EM-723-171	R4-EM-73-172-1	R4-EM-733-162	R4-EM-826-230-1
R4-EM-72-173-1B	R4-EM-723-171-1	R4-EM-73-172-1B	R4-EM-733-162-1	R4-EM-826-240
R4-EM-72-173-B	R4-EM-723-172	R4-EM-73-172-B	R4-EM-733-163	R4-EM-826-240-1
R4-EM-722-131	R4-EM-723-172-1	R4-EM-73-173	R4-EM-733-163-1	R4-EM-826-330
R4-EM-722-131-1	R4-EM-723-173	R4-EM-73-173-1	R4-EM-733-171	R4-EM-826-330-1
R4-EM-722-131-1B	R4-EM-723-173-1	R4-EM-73-173-1B	R4-EM-733-171-1	R4-EM-826-340
R4-EM-722-131-B	R4-EM-724-131	R4-EM-73-173-B	R4-EM-733-172	R4-EM-826-340-1
R4-EM-722-132	R4-EM-724-131-1	R4-EM-732-131	R4-EM-733-172-1	R4-EM-831-230
R4-EM-722-132-1	R4-EM-724-132	R4-EM-732-131-1	R4-EM-733-173	R4-EM-831-330
R4-EM-722-132-1B	R4-EM-724-132-1	R4-EM-732-131-1B	R4-EM-733-173-1	R4-EM-832-230
R4-EM-722-132-B	R4-EM-724-133	R4-EM-732-131-B	R4-EM-734-131	R4-EM-83-230
R4-EM-722-133	R4-EM-724-133-1	R4-EM-732-132	R4-EM-734-131-1	R4-EM-83-230-1
R4-EM-722-133-1	R4-EM-724-161	R4-EM-732-132-1	R4-EM-734-132	R4-EM-832-330
R4-EM-722-133-1B	R4-EM-724-161-1	R4-EM-732-132-1B	R4-EM-734-132-1	R4-EM-83-330
R4-EM-722-133-B	R4-EM-724-162	R4-EM-732-132-B	R4-EM-734-133	R4-EM-83-330-1
R4-EM-722-161	R4-EM-724-162-1	R4-EM-732-133	R4-EM-734-133-1	R4-EM-83-340
R4-EM-722-161-1	R4-EM-724-163	R4-EM-732-133-1	R4-EM-734-161	R4-EM-836-230
R4-EM-722-161-1B	R4-EM-724-163-1	R4-EM-732-133-1B	R4-EM-734-161-1	R4-EM-836-230-1
R4-EM-722-161-B	R4-EM-724-171	R4-EM-732-133-B	R4-EM-734-162	R4-EM-836-240
R4-EM-722-162	R4-EM-724-171-1	R4-EM-732-161	R4-EM-734-162-1	R4-EM-836-240-1
R4-EM-722-162-1	R4-EM-724-172	R4-EM-732-161-1	R4-EM-734-163	R4-EM-836-330
R4-EM-722-162-1B	R4-EM-724-172-1	R4-EM-732-161-1B	R4-EM-734-163-1	R4-EM-836-330-1
R4-EM-722-162-B	R4-EM-724-173	R4-EM-732-161-B	R4-EM-734-171	R4-EM-836-340
R4-EM-722-163	R4-EM-724-173-1	R4-EM-732-162	R4-EM-734-171-1	R4-EM-836-340-1
R4-EM-722-163-1	R4-EM-73-131	R4-EM-732-162-1	R4-EM-734-172	R4-EM-861-231
R4-EM-722-163-1B	R4-EM-73-131-1	R4-EM-732-162-1B	R4-EM-734-172-1	R4-EM-861-231-1
R4-EM-722-163-B	R4-EM-73-131-1B	R4-EM-732-162-1C	R4-EM-734-173	R4-EM-861-232
R4-EM-722-171	R4-EM-73-131-B	R4-EM-732-162-B	R4-EM-734-173-1	R4-EM-861-331
R4-EM-722-171-1	R4-EM-73-132	R4-EM-732-162-C	R4-EM-811-230	R4-EM-861-331-1
R4-EM-722-171-1B	R4-EM-73-132-1	R4-EM-732-163	R4-EM-811-330	R4-EM-861-332
R4-EM-722-171-B	R4-EM-73-132-1B	R4-EM-732-163-1	R4-EM-812-230	R4-EM-862-231
R4-EM-722-172	R4-EM-73-132-B	R4-EM-732-163-1B	R4-EM-81-230	R4-EM-862-232
R4-EM-722-172-1	R4-EM-73-133	R4-EM-732-163-B	R4-EM-81-230-1	R4-EM-862-331
R4-EM-722-172-1B	R4-EM-73-133-1	R4-EM-732-171	R4-EM-812-330	R4-EM-862-332
R4-EM-722-172-B	R4-EM-73-133-1B	R4-EM-732-171-1	R4-EM-81-330	R4-EM-87
R4-EM-722-173	R4-EM-73-133-B	R4-EM-732-171-1B	R4-EM-81-330-1	R4-EM-90-709-20
R4-EM-722-173-1	R4-EM-73-161	R4-EM-732-171-B	R4-EM-816-230	R4-EM-952

R4-EM-99-148	R4-EM-9M7-0	R4-EM-R12-161-1	R4-EM-R224-131	R4-EM-R51-173
R4-EM-99-148-20	R4-EM-9N1-0	R4-EM-R12-162	R4-EM-R224-132	R4-EM-R51-173-1
R4-EM-99-148-30	R4-EM-9N2-0	R4-EM-R12-162-1	R4-EM-R224-161	R4-EM-R51-173-1B
R4-EM-99-161	R4-EM-9N3-0	R4-EM-R123-131	R4-EM-R224-161-1	R4-EM-R51-173-B
R4-EM-99-161-20	R4-EM-9N4-0	R4-EM-R123-131-1	R4-EM-R224-162	R4-EM-R513-131
R4-EM-99-161-30	R4-EM-9N5-0	R4-EM-R123-132	R4-EM-R23-131	R4-EM-R513-131-1
R4-EM-99-270	R4-EM-9N7-0	R4-EM-R123-132-1	R4-EM-R23-132	R4-EM-R513-132
R4-EM-9A1-150	R4-EM-9P1-150	R4-EM-R123-161	R4-EM-R23-161	R4-EM-R513-132-1
R4-EM-9A1-150-1	R4-EM-9P1-150-1	R4-EM-R123-162	R4-EM-R23-162	R4-EM-R513-133
R4-EM-9A15-150	R4-EM-9P15-150	R4-EM-R13-0	R4-EM-R232-131	R4-EM-R513-133-1
R4-EM-9A15-150-1	R4-EM-9P15-150-1	R4-EM-R13-131	R4-EM-R232-132	R4-EM-R513-161
R4-EM-9A2-150	R4-EM-9P2-150	R4-EM-R13-131-1	R4-EM-R232-161	R4-EM-R513-161-1
R4-EM-9A2-150-1	R4-EM-9P2-150-1	R4-EM-R13-132	R4-EM-R232-162	R4-EM-R513-162
R4-EM-9A25-150	R4-EM-9P2-15A0	R4-EM-R13-132-1	R4-EM-R233-131	R4-EM-R513-162-1
R4-EM-9A25-150-1	R4-EM-9P25-150	R4-EM-R13-151	R4-EM-R233-132	R4-EM-R513-163
R4-EM-9A3-150	R4-EM-9P25-150-1	R4-EM-R13-151-1	R4-EM-R233-161	R4-EM-R513-163-1
R4-EM-9A3-150-1	R4-EM-9P25-15A0	R4-EM-R13-161	R4-EM-R233-162	R4-EM-R513-171
R4-EM-9A3-15A0	R4-EM-9P3-150	R4-EM-R13-161-1	R4-EM-R234-131	R4-EM-R513-171-1
R4-EM-9A35-150	R4-EM-9P3-150-1	R4-EM-R13-162	R4-EM-R234-132	R4-EM-R513-172
R4-EM-9A35-150-1	R4-EM-9P3-15A0	R4-EM-R13-162-1	R4-EM-R234-161	R4-EM-R513-172-1
R4-EM-9A7-150	R4-EM-9P35-150	R4-EM-R133-131	R4-EM-R234-162	R4-EM-R513-173
R4-EM-9A7-150-1	R4-EM-9P35-150-1	R4-EM-R133-132	R4-EM-R51-131	R4-EM-R513-173-1
R4-EM-9A7-15A0	R4-EM-9P35-15A0	R4-EM-R133-161	R4-EM-R51-131-1	R4-EM-R52-131
R4-EM-9A75-150	R4-EM-9P5-150	R4-EM-R133-162	R4-EM-R51-131-1B	R4-EM-R52-131-1
R4-EM-9A75-150-1	R4-EM-9P55-150	R4-EM-R21-131	R4-EM-R51-131-B	R4-EM-R52-131-1B
R4-EM-9D1-150	R4-EM-9P7-150	R4-EM-R21-132	R4-EM-R51-132	R4-EM-R52-131-B
R4-EM-9D1-150-1	R4-EM-9P7-150-1	R4-EM-R21-161	R4-EM-R51-132-1	R4-EM-R52-132
R4-EM-9D15-150	R4-EM-9P75-150	R4-EM-R21-162	R4-EM-R51-132-1B	R4-EM-R52-132-1
R4-EM-9D15-150-1	R4-EM-9P75-150-1	R4-EM-R212-131	R4-EM-R51-132-B	R4-EM-R52-132-1B
R4-EM-9D2-150	R4-EM-R11-0	R4-EM-R212-132	R4-EM-R51-133	R4-EM-R52-132-B
R4-EM-9D2-150-1	R4-EM-R11-121	R4-EM-R212-161	R4-EM-R51-133-1	R4-EM-R52-133
R4-EM-9D2-15A0	R4-EM-R11-131	R4-EM-R212-162	R4-EM-R51-133-1B	R4-EM-R52-133-1
R4-EM-9D25-150	R4-EM-R11-131-1	R4-EM-R213-131	R4-EM-R51-133-B	R4-EM-R52-133-1B
R4-EM-9D25-150-1	R4-EM-R11-132	R4-EM-R213-132	R4-EM-R51-161	R4-EM-R52-133-B
R4-EM-9D3-150	R4-EM-R11-132-1	R4-EM-R213-161	R4-EM-R51-161-1	R4-EM-R52-161
R4-EM-9D3-150-1	R4-EM-R11-161	R4-EM-R213-162	R4-EM-R51-161-1B	R4-EM-R52-161-1
R4-EM-9D3-15A0	R4-EM-R11-161-1	R4-EM-R214-131	R4-EM-R51-161-B	R4-EM-R52-161-1B
R4-EM-9D3-15A0-1	R4-EM-R11-162	R4-EM-R214-132	R4-EM-R51-162	R4-EM-R52-161-B
R4-EM-9D35-150	R4-EM-R11-162-1	R4-EM-R214-161	R4-EM-R51-162-1	R4-EM-R52-162
R4-EM-9D35-150-1	R4-EM-R113-131	R4-EM-R214-162	R4-EM-R51-162-1B	R4-EM-R52-162-1
R4-EM-9D35-15A0	R4-EM-R113-132	R4-EM-R22-131	R4-EM-R51-162-B	R4-EM-R52-162-1B
R4-EM-9D35-15A0-1	R4-EM-R113-161	R4-EM-R22-132	R4-EM-R51-163	R4-EM-R52-162-B
R4-EM-9D7-150	R4-EM-R113-161-1	R4-EM-R22-161	R4-EM-R51-163-1	R4-EM-R52-163
R4-EM-9D7-150-1	R4-EM-R113-162	R4-EM-R22-162	R4-EM-R51-163-1B	R4-EM-R52-163-1
R4-EM-9D7-150A0	R4-EM-R12-0	R4-EM-R222-131	R4-EM-R51-163-B	R4-EM-R52-163-1B
R4-EM-9D75-150	R4-EM-R12-121	R4-EM-R222-132	R4-EM-R51-171	R4-EM-R52-163-B
R4-EM-9D75-150-1	R4-EM-R12-122	R4-EM-R222-161	R4-EM-R51-171-1	R4-EM-R52-171
R4-EM-9D75-150A0	R4-EM-R12-131	R4-EM-R222-161-1	R4-EM-R51-171-1B	R4-EM-R52-171-1
R4-EM-9M1-0	R4-EM-R12-131-1	R4-EM-R222-162	R4-EM-R51-171-B	R4-EM-R52-171-1B
R4-EM-9M2-0	R4-EM-R12-132	R4-EM-R223-131	R4-EM-R51-172	R4-EM-R52-171-B
R4-EM-9M3-0	R4-EM-R12-132-1	R4-EM-R223-132	R4-EM-R51-172-1	R4-EM-R52-172
R4-EM-9M4-0	R4-EM-R12-151	R4-EM-R223-161	R4-EM-R51-172-1B	R4-EM-R52-172-1
R4-EM-9M5-0	R4-EM-R12-161	R4-EM-R223-162	R4-EM-R51-172-B	R4-EM-R52-172-1B

R4-EM-R52-172-B	R4-EM-R53-172-1B	R4-EM-R71-172	R4-EM-R713-161-1	R4-EM-R72-163-1B
R4-EM-R52-173	R4-EM-R53-172-B	R4-EM-R71-172-1	R4-EM-R713-162	R4-EM-R72-163-B
R4-EM-R52-173-1	R4-EM-R53-173	R4-EM-R71-172-1B	R4-EM-R713-162-1	R4-EM-R72-163-D
R4-EM-R52-173-1B	R4-EM-R53-173-1	R4-EM-R71-172-B	R4-EM-R713-163	R4-EM-R72-171
R4-EM-R52-173-B	R4-EM-R53-173-1B	R4-EM-R71-173	R4-EM-R713-163-1	R4-EM-R72-171-1
R4-EM-R523-131	R4-EM-R53-173-B	R4-EM-R71-173-1	R4-EM-R713-171	R4-EM-R72-171-1B
R4-EM-R523-131-1	R4-EM-R533-131	R4-EM-R71-173-1B	R4-EM-R713-171-1	R4-EM-R72-171-B
R4-EM-R523-132	R4-EM-R533-131-1	R4-EM-R71-173-B	R4-EM-R713-172	R4-EM-R72-171-C
R4-EM-R523-132-1	R4-EM-R533-132	R4-EM-R71-173-D	R4-EM-R713-172-1	R4-EM-R72-172
R4-EM-R523-133	R4-EM-R533-132-1	R4-EM-R712-131	R4-EM-R713-173	R4-EM-R72-172-1
R4-EM-R523-133-1	R4-EM-R533-133	R4-EM-R712-131-1	R4-EM-R713-173-1	R4-EM-R72-172-1B
R4-EM-R523-161	R4-EM-R533-133-1	R4-EM-R712-131-1B	R4-EM-R714-131	R4-EM-R72-172-B
R4-EM-R523-161-1	R4-EM-R533-161	R4-EM-R712-131-B	R4-EM-R714-131-1	R4-EM-R72-173
R4-EM-R523-162	R4-EM-R533-161-1	R4-EM-R712-132	R4-EM-R714-132	R4-EM-R72-173-1
R4-EM-R523-162-1	R4-EM-R533-162	R4-EM-R712-132-1	R4-EM-R714-132-1	R4-EM-R72-173-1B
R4-EM-R523-163	R4-EM-R533-162-1	R4-EM-R712-132-1B	R4-EM-R714-133	R4-EM-R72-173-B
R4-EM-R523-163-1	R4-EM-R533-163	R4-EM-R712-132-B	R4-EM-R714-133-1	R4-EM-R722-131
R4-EM-R523-171	R4-EM-R533-163-1	R4-EM-R712-133	R4-EM-R714-161	R4-EM-R722-131-1
R4-EM-R523-171-1	R4-EM-R533-171	R4-EM-R712-133-1	R4-EM-R714-161-1	R4-EM-R722-131-1B
R4-EM-R523-172	R4-EM-R533-171-1	R4-EM-R712-133-1B	R4-EM-R714-162	R4-EM-R722-131-B
R4-EM-R523-172-1	R4-EM-R533-172	R4-EM-R712-133-B	R4-EM-R714-162-1	R4-EM-R722-132
R4-EM-R523-173	R4-EM-R533-172-1	R4-EM-R712-161	R4-EM-R714-163	R4-EM-R722-132-1
R4-EM-R523-173-1	R4-EM-R533-173	R4-EM-R712-161-1	R4-EM-R714-163-1	R4-EM-R722-132-1B
R4-EM-R53-131	R4-EM-R533-173-1	R4-EM-R712-161-1B	R4-EM-R714-171	R4-EM-R722-132-B
R4-EM-R53-131-1	R4-EM-R71-131	R4-EM-R712-161-B	R4-EM-R714-171-1	R4-EM-R722-133
R4-EM-R53-131-1B	R4-EM-R71-131-1	R4-EM-R712-162	R4-EM-R714-172	R4-EM-R722-133-1
R4-EM-R53-131-B	R4-EM-R71-131-1B	R4-EM-R712-162-1	R4-EM-R714-172-1	R4-EM-R722-133-1B
R4-EM-R53-132	R4-EM-R71-131-B	R4-EM-R712-162-1B	R4-EM-R714-173	R4-EM-R722-133-B
R4-EM-R53-132-1	R4-EM-R71-132	R4-EM-R712-162-B	R4-EM-R714-173-1	R4-EM-R722-161
R4-EM-R53-132-1B	R4-EM-R71-132-1	R4-EM-R712-163	R4-EM-R72-131	R4-EM-R722-161-1
R4-EM-R53-132-B	R4-EM-R71-132-1B	R4-EM-R712-163-1	R4-EM-R72-131-1	R4-EM-R722-161-1B
R4-EM-R53-133	R4-EM-R71-132-B	R4-EM-R712-163-1B	R4-EM-R72-131-1B	R4-EM-R722-161-B
R4-EM-R53-133-1	R4-EM-R71-133	R4-EM-R712-163-B	R4-EM-R72-131-B	R4-EM-R722-162
R4-EM-R53-133-1B	R4-EM-R71-133-1	R4-EM-R712-171	R4-EM-R72-131-C	R4-EM-R722-162-1
R4-EM-R53-133-B	R4-EM-R71-133-1B	R4-EM-R712-171-1	R4-EM-R72-132	R4-EM-R722-162-1B
R4-EM-R53-161	R4-EM-R71-133-B	R4-EM-R712-171-1B	R4-EM-R72-132-1	R4-EM-R722-162-B
R4-EM-R53-161-1	R4-EM-R71-161	R4-EM-R712-171-B	R4-EM-R72-132-1B	R4-EM-R722-163
R4-EM-R53-161-1B	R4-EM-R71-161-1	R4-EM-R712-172	R4-EM-R72-132-B	R4-EM-R722-163-1
R4-EM-R53-161-B	R4-EM-R71-161-1B	R4-EM-R712-172-1	R4-EM-R72-133	R4-EM-R722-163-1B
R4-EM-R53-162	R4-EM-R71-161-B	R4-EM-R712-172-1B	R4-EM-R72-133-1	R4-EM-R722-163-B
R4-EM-R53-162-1	R4-EM-R71-162	R4-EM-R712-172-B	R4-EM-R72-133-1B	R4-EM-R722-171
R4-EM-R53-162-1B	R4-EM-R71-162-1	R4-EM-R712-173	R4-EM-R72-133-B	R4-EM-R722-171-1
R4-EM-R53-162-B	R4-EM-R71-162-1B	R4-EM-R712-173-1	R4-EM-R72-161	R4-EM-R722-171-1B
R4-EM-R53-163	R4-EM-R71-162-B	R4-EM-R712-173-1B	R4-EM-R72-161-1	R4-EM-R722-171-B
R4-EM-R53-163-1	R4-EM-R71-163	R4-EM-R712-173-B	R4-EM-R72-161-1B	R4-EM-R722-171-C
R4-EM-R53-163-1B	R4-EM-R71-163-1	R4-EM-R712-173-D	R4-EM-R72-161-B	R4-EM-R722-172
R4-EM-R53-163-B	R4-EM-R71-163-1B	R4-EM-R713-131	R4-EM-R72-162	R4-EM-R722-172-1
R4-EM-R53-171	R4-EM-R71-163-B	R4-EM-R713-131-1	R4-EM-R72-162-1	R4-EM-R722-172-1B
R4-EM-R53-171-1	R4-EM-R71-163-D	R4-EM-R713-132	R4-EM-R72-162-1B	R4-EM-R722-172-B
R4-EM-R53-171-1B	R4-EM-R71-171	R4-EM-R713-132-1	R4-EM-R72-162-B	R4-EM-R722-173
R4-EM-R53-171-B	R4-EM-R71-171-1	R4-EM-R713-133	R4-EM-R72-162-D	R4-EM-R722-173-1
R4-EM-R53-172	R4-EM-R71-171-1B	R4-EM-R713-133-1	R4-EM-R72-163	R4-EM-R722-173-1B
R4-EM-R53-172-1	R4-EM-R71-171-B	R4-EM-R713-161	R4-EM-R72-163-1	R4-EM-R722-173-B

R4-EM-R723-131	R4-EM-R73-162-1	R4-EM-R732-172	R4-EM-R862-331
R4-EM-R723-131-1	R4-EM-R73-162-1B	R4-EM-R732-172-1	R4-EM-R862-332
R4-EM-R723-132	R4-EM-R73-162-B	R4-EM-R732-172-1B	
R4-EM-R723-132-1	R4-EM-R73-163	R4-EM-R732-172-B	
R4-EM-R723-133	R4-EM-R73-163-1	R4-EM-R732-172-C	
R4-EM-R723-133-1	R4-EM-R73-163-1B	R4-EM-R732-173	
R4-EM-R723-161	R4-EM-R73-163-1D	R4-EM-R732-173-1	
R4-EM-R723-161-1	R4-EM-R73-163-B	R4-EM-R732-173-1B	
R4-EM-R723-162	R4-EM-R73-163-D	R4-EM-R732-173-1D	
R4-EM-R723-162-1	R4-EM-R73-171	R4-EM-R732-173-B	
R4-EM-R723-163	R4-EM-R73-171-1	R4-EM-R732-173-D	
R4-EM-R723-163-1	R4-EM-R73-171-1B	R4-EM-R733-131	
R4-EM-R723-171	R4-EM-R73-171-B	R4-EM-R733-131-1	
R4-EM-R723-171-1	R4-EM-R73-172	R4-EM-R733-132	
R4-EM-R723-172	R4-EM-R73-172-1	R4-EM-R733-132-1	
R4-EM-R723-172-1	R4-EM-R73-172-1B	R4-EM-R733-133	
R4-EM-R723-173	R4-EM-R73-172-B	R4-EM-R733-133-1	
R4-EM-R723-173-1	R4-EM-R73-173	R4-EM-R733-161	
R4-EM-R724-131	R4-EM-R73-173-1	R4-EM-R733-161-1	
R4-EM-R724-131-1	R4-EM-R73-173-1B	R4-EM-R733-162	
R4-EM-R724-132	R4-EM-R73-173-B	R4-EM-R733-162-1	
R4-EM-R724-132-1	R4-EM-R732-131	R4-EM-R733-163	
R4-EM-R724-133	R4-EM-R732-131-1	R4-EM-R733-163-1	
R4-EM-R724-133-1	R4-EM-R732-131-1B	R4-EM-R733-171	
R4-EM-R724-161	R4-EM-R732-131-B	R4-EM-R733-171-1	
R4-EM-R724-161-1	R4-EM-R732-132	R4-EM-R733-172	
R4-EM-R724-162	R4-EM-R732-132-1	R4-EM-R733-172-1	
R4-EM-R724-162-1	R4-EM-R732-132-1B	R4-EM-R733-173	
R4-EM-R724-163	R4-EM-R732-132-B	R4-EM-R733-173-1	
R4-EM-R724-163-1	R4-EM-R732-133	R4-EM-R734-131	
R4-EM-R724-171	R4-EM-R732-133-1	R4-EM-R734-131-1	
R4-EM-R724-171-1	R4-EM-R732-133-1B	R4-EM-R734-132	
R4-EM-R724-172	R4-EM-R732-133-B	R4-EM-R734-132-1	
R4-EM-R724-172-1	R4-EM-R732-161	R4-EM-R734-133	
R4-EM-R724-173	R4-EM-R732-161-1	R4-EM-R734-133-1	
R4-EM-R724-173-1	R4-EM-R732-161-1B	R4-EM-R734-161	
R4-EM-R73-131	R4-EM-R732-161-B	R4-EM-R734-161-1	
R4-EM-R73-131-1	R4-EM-R732-162	R4-EM-R734-162	
R4-EM-R73-131-1B	R4-EM-R732-162-1	R4-EM-R734-162-1	
R4-EM-R73-131-B	R4-EM-R732-162-1B	R4-EM-R734-163	
R4-EM-R73-132	R4-EM-R732-162-1C	R4-EM-R734-163-1	
R4-EM-R73-132-1	R4-EM-R732-162-B	R4-EM-R734-171	
R4-EM-R73-132-1B	R4-EM-R732-162-C	R4-EM-R734-171-1	
R4-EM-R73-132-B	R4-EM-R732-163	R4-EM-R734-172	
R4-EM-R73-133	R4-EM-R732-163-1	R4-EM-R734-172-1	
R4-EM-R73-133-1	R4-EM-R732-163-1B	R4-EM-R734-173	
R4-EM-R73-133-1B	R4-EM-R732-163-B	R4-EM-R734-173-1	
R4-EM-R73-133-B	R4-EM-R732-163-C	R4-EM-R861-231	
R4-EM-R73-161	R4-EM-R732-163-D	R4-EM-R861-231-1	
R4-EM-R73-161-1	R4-EM-R732-171	R4-EM-R861-331	
R4-EM-R73-161-1B	R4-EM-R732-171-1	R4-EM-R861-331-1	
R4-EM-R73-161-B	R4-EM-R732-171-1B	R4-EM-R862-231	
R4-EM-R73-162	R4-EM-R732-171-B	R4-EM-R862-232	