



ASSA ABLOY

Experience a safer
and more open world



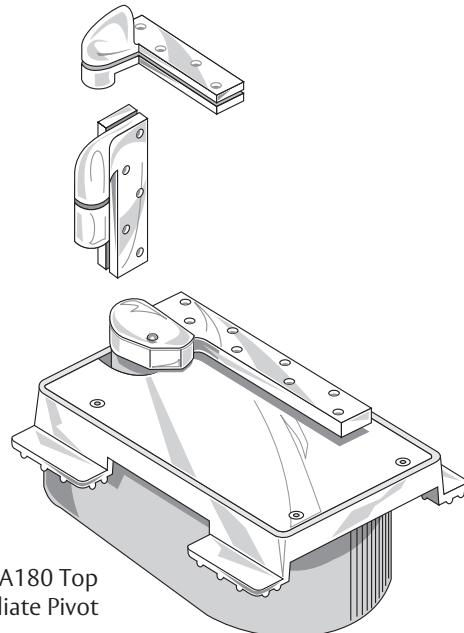
SPECIALTY CLOSERS

High-End Security
Gate Solutions

Copyright © 2001-2022, ASSA ABLOY Accessories and Door Controls Group, Inc. All rights reserved. Reproduction in whole or in part without the express written permission of ASSA ABLOY Accessories and Door Controls Group, Inc. is prohibited.

TABLE OF CONTENTS

General Information.....	3	
How to Select Product	4	
Options	5	
Certifications.....	6	
Limited Warranty.....	6	
Specifications.....	6	
 Interior Gate Closers		
354 Flange Mounting 1-3/4" Gate Only	7	
355 Flange Mounting 1-3/4" Gate Only	7	
356 Flat Arm	8	
357 Flat Arm	8	
359 Independently Hung (Hanging Means by Others)	9	
Parts	10-12	
 Exterior Gate Closers		
1351	13	
 Security Closers		
SEC27-180 Closer	14	
Parts	15	
 Quick Reference of Options		16
How to Order	16	



SEC27-180 Closer with FA180 Top
Pivot and FA19 Intermediate Pivot
(recommended)

NORTON
RIXSON

ASSA ABLOY

Experience a safer
and more open world

The closers in this section are for specific niche markets.

Gate Closers Models 354, 355, 356, 357, 359

Closers that mount to the side jamb for small gates such as teller gates, courtroom gates.

- Closer mounts off the floor approximately 6" under the door
- Double acting with a hold open option
- Single acting when used with butts

Exterior Gate Closers Model 1351

Surface closers and tracks used on high-end residential and commercial ornamental iron fencing systems that must be self-closing.

- Extremely easy to install
- Uses surface closer technology

High-Security Models SEC27-180

These closers are used on doors in detention areas in hospitals, detention centers and non-cell prison doors. The weight of the door is supported at bottom.

- Door swings with less resistance
- Heavier doors can be accommodated
- Reduced stress on frame

Fasteners are in shear, not tension

- Eliminates door sag
- Vertically adjustable

Heavy-duty hardened steel spindles

- Designed to provide positive dead stop
- Thrust bearing supports vertical load
- Needle bearings for lateral force

Bottom arm directly attached to closer spindle

- A mechanical advantage that increases efficiency
- One-to-one ratio of door swing to spindle rotation makes controls more precise

Helical torsion spring

- Operates in same direction as door movement and contributes to even higher closer efficiency
- A torsion spring has a much longer life than standard compression springs

Advantages of security concealed floor closers

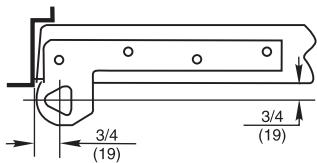
- Vandal resistant – mechanism not exposed
- Supplied with Torx® screws



Experience a safer
and more open world

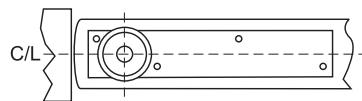
Copyright © 2001-2022, ASSA ABLOY Accessories and Door Controls Group, Inc., an ASSA ABLOY Group company. All rights reserved. Reproduction in whole or in part without the express written permission of ASSA ABLOY Accessories and Door Controls Group, Inc. is prohibited.

1. Offset vs. Center Hung Application



3/4" Offset

Pivot point located 3/4" from the heel edge of the door and 3/4" from face of door.



Center Hung

Pivot point centered in thickness of door. Distance from heel edge can vary 2-3/4 and up (Not for use on fire rated doors).

2. Size of Door (width, height, thickness)

Estimated door weights pounds per square foot (PSF)

		DOOR THICKNESS		
DOOR MATERIAL		1-3/4"	2-1/4"	3
Hollow Metal		6.5	7	—
Solid Core Wood		7	9	11.5
Aluminum/Glass Storefront		3.5	4	—
MDF		7	9	11.5
TEMPERED GLASS		3/8"	1/2"	3/4"
		5	7	9.75

Example: 3/0 X 7/0 X 1-3/4" WD

Door: 21sq ft x 7lb./sq ft = 147lbs

Example: 3/6 X 8/0 X 1/2" Tempered Glass Door

Door: 28sq ft x 7lb./sq ft = 196lbs

For doors of other sizes consult factory

3. Expected Frequency of Door Operation

APPLICATION	DAILY	YEARLY
Large department store entrance	5,000	1,500,000
Large office building entrance	4,000	1,200,000
Theater entrance	1,000	365,000
School entrance	1,250	225,000
School restroom door	1,250	225,000
Store or bank entrance	500	150,000
Office building restroom door	400	118,000
School corridor door	80	15,000
Office building corridor door	75	22,000
Store restroom door	60	18,000
Residential entrance door	40	15,000
Residential restroom door	25	9,000
Residential hallway door	10	3,600
Residential closet door	6	2,200



ASSA ABLOY

Experience a safer
and more open world

Models 350 Gate Closers - No Options

Degree of Swing – Suffix -180

Single acting, heavy-duty floor closers have a deadstop. This means that the door cannot go past a certain point. The SEC27-180 allows the door to swing to 180°.

Non-Hold Open – SEC closers are non-hold open

Less Cement Case – Suffix LCC

For existing installations or when cement case has been sent earlier in construction. Closer will be packaged without the cement case.

Less Top Pivot – Suffix LTP

For unusual head conditions where the top pivot cannot be used, the closer is shipped without the top pivot.

Extended Spindle – Suffix Extra Length

Any special floor covering or severe door undercuts will affect spindle height. In these applications, an extended spindle may be required. See product template to determine if an extended spindle is needed. Extended spindles available in 1/2" increments up to 2" longer than standard.



ASSA ABLOY

Experience a safer
and more open world

Copyright © 2001-2022, ASSA ABLOY Accessories and Door Controls Group, Inc., an ASSA ABLOY Group company. All rights reserved. Reproduction in whole or in part without the express written permission of ASSA ABLOY Accessories and Door Controls Group, Inc. is prohibited.

Certifications

The 350 gate closers and SEC27-180 closers are in compliance with ANSI/BHMA A156.4 standards.

See individual products for sub-section.

Limited Warranty

Gate closers are warranted for 2-years against defect; SEC27-180 specialty closers are warranted for 10-years against defect. See Price Book for specific details of the limited warranty.

Specifications**Interior Gate Closer**

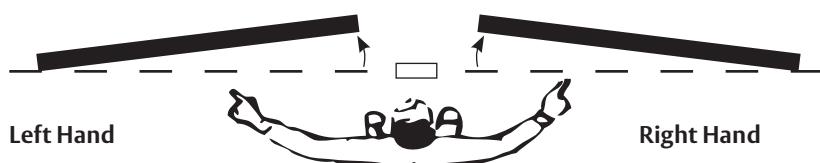
All interior gates shall use model 350 closers. Closers shall be mounted above the floor and may be single or double acting, depending on hanging means. Closers shall have hydraulic closing speed adjustment. Units shall have built-in hold open.

Exterior Gate Closer

All exterior gates shall be model 1351. They shall be surface type with non-corrosive tracks. Track shall be two sided to keep debris from collecting. Must accommodate gates with top cross member or open spokes.

Security Closer

Closer shall be model SEC27-180 concealed floor closer package. Cement case to be cast iron with cast-in integral anchor extensions. 1/4" thick steel cover plate to be recessed into lip on cement case. Closer mechanism to have individual hydraulic cylinders for closing functions and adjustable hydraulic backcheck and be operated by a torsion spring. Closing and latch speed to be controlled by two independent valves. Closer to have built-in dead stop. Bottom arm shall be 1/2" thick steel. Top pivot shall be asylum type with Torx® security fasteners.

How to Determine Hand of Door

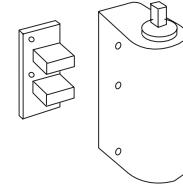
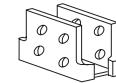
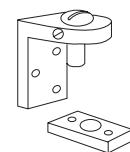
Face a door swinging open away from you. If it opens to the right, it is right handed. If it opens to the left, it is left handed.

Application

- Double Acting, Non-handed
- Maximum weight: 75 lbs.
- Dwarf doors from 2'2" to 3'0" wide (660 x 914mm)

**Product Description & Features**

- Recommended for office rail gates, partitions, and lavatory stall doors
- Body mounts under gate
- Surface mounted top pivot: 3541020
- 1-3/4" door thickness
- Maximum opening 90°
- Arm adjustment door normally comes to rest at closed position. If door is to remain open, arm is set on spindle so door comes to rest at 90°
- Package also includes closer bracket and flange style arm
- Frame carries full weight of door
- Quiet control; no slamming or flapping
- All moving parts enclosed and fully immersed in lubricating checking fluid
- Painted finishes only
- Not compliant with ICC/ANSI A117.1 low opening force requirements

Technical Information**Compliance**

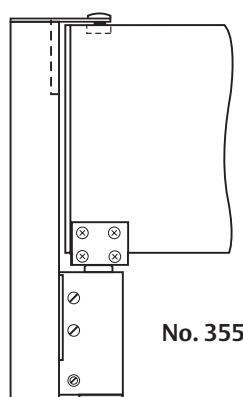
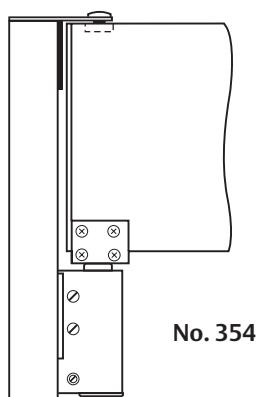
- ANSI C09053

Model 355**Application**

- Double Acting, Non-handed

Product Description & Features

- Identical to 354 except:
- Mortise top pivot: 3551020



Experience a safer
and more open world

Application

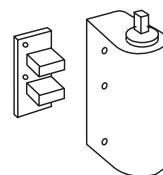
- Double Acting, Non-handed
- Maximum weight: 75 lbs.
- Dwarf doors from 2'2" to 3'0" wide (660 x 914mm)

**Product Description & Features**

- Recommended for office rail gates, partitions, and lavatory stall doors
- Body mounts under the gate
- Surface mounted top pivot: 3541020
- 1-3/4" door thickness
- Maximum opening 90°
- Arm adjustment door normally comes to rest at closed position. If door is to remain open, arm is set on spindle so door comes to rest at 90°
- Package also includes closer bracket and arm that may be surface mounted or mortised
- Frame carries full weight of door
- Quiet control; no slamming or flapping
- All moving parts enclosed and fully immersed in lubricating checking fluid
- Painted finishes only
- Not compliant with ICC/ANSI A117.1 low opening force requirements

Technical Information**Compliance**

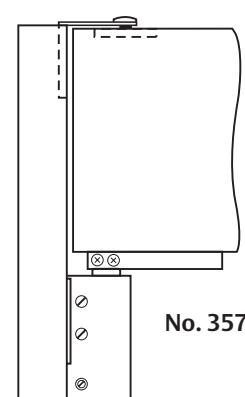
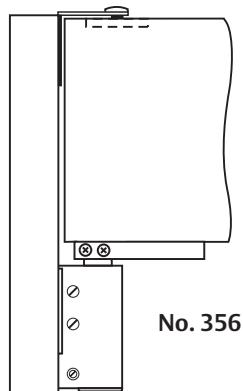
- ANSI C09503

**Application**

- Double Acting, Non-handed

Product Description & Features

- Identical to 356 except:
 - Mortise top pivot: 3551020



NORTON
RIXSON

ASSA ABLOY

Experience a safer
and more open world

Application

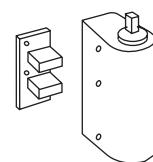
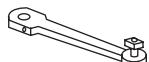
- Single Acting, Non-handed
- Maximum weight: 75 lbs.
- Dwarf doors from 2'2" to 3'0" wide (660 x 914mm)



Product Description & Features

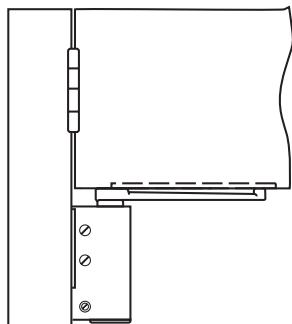
- Recommended for office rail gates, partitions, and lavatory stall doors
- Closer mounts under the door
- 1-3/4" door thickness
- Maximum opening 140°
- Surface mounted to edge of partition with edge wide enough for 1-1/2" bracket
- Butt hinges by others
- Frame carries full weight of door
- Track style arm
- Package includes closer, bracket, and slide track arm
- Painted finishes only
- Not compliant with ICC/ANSI A117.1 low opening force requirements

Technical Information



Compliance

- ANSI C09503

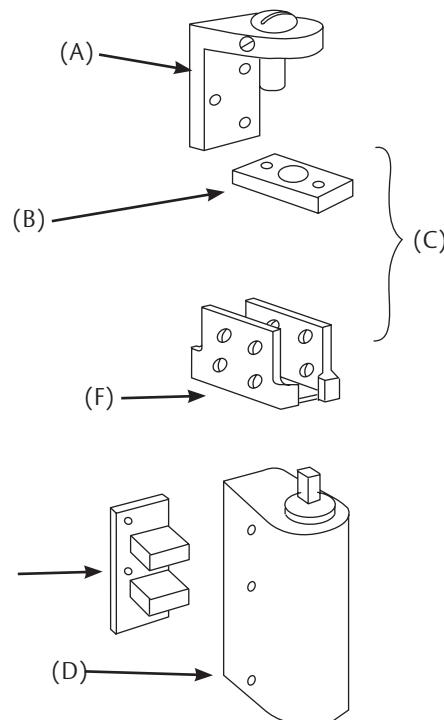


ASSA ABLOY

Experience a safer
and more open world

Copyright © 2001-2022, ASSA ABLOY Accessories and Door Controls Group, Inc., an ASSA ABLOY Group company. All rights reserved. Reproduction in whole or in part without the express written permission of ASSA ABLOY Accessories and Door Controls Group, Inc. is prohibited.

- (A) Jamb Portion
01960-*AS
- (B) Gate Portion
35064-*AS
- (E) Bracket
3549000-*
(Includes Closer Mtg.
Screw Kit)



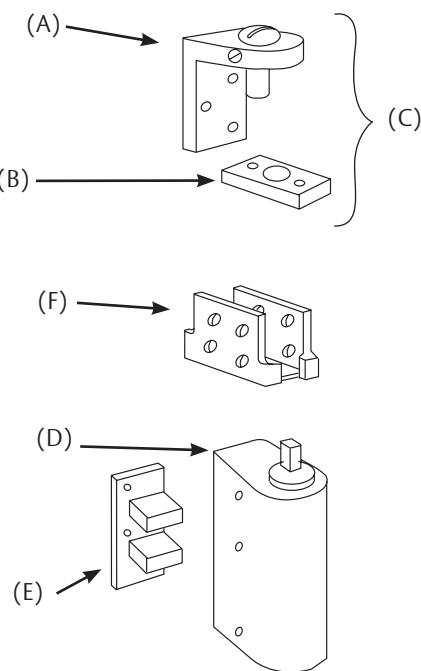
- (C) Top Pivot Package
3541020-*
(Includes A, B and
attaching screws)
- (F) Arm with Screws
3542026-*
- (D) Closer Body
X03540370-*
(Includes E)

SCREW KITS

Top Pivot Screw Kit
107017-*

Closer Mtg. Screw Kit
107350

- (A) Jamb Portion
0490-*AS
- (B) Gate Portion
35064-*AS
- (E) Bracket
3549000-*
(Includes Closer Mtg.
Screw Kit)



- (C) Top Pivot Package
3551020-*
(Includes A,B and
attaching screws)
- (F) Arm with Screws
3542026-*
- (D) Closer Body
X03540370-*
(Includes E)

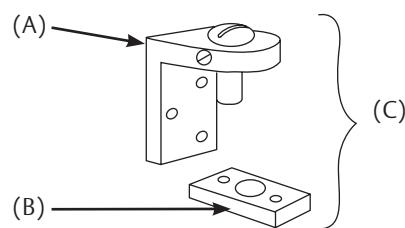
SCREW KITS

Top Pivot Screw Kit
107017

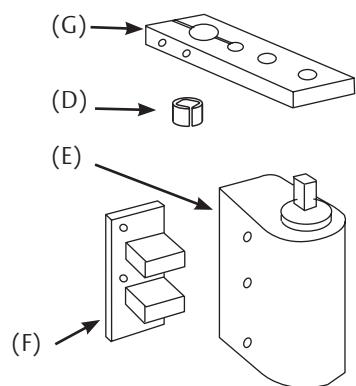
Closer Mtg. Screw Kit
107350

*specify finish

- (A) Jamb Portion 01960-*AS
- (B) Gate Portion 35064-*AS
- (D) Bushing Only 35051
(Included in arm package)
- (F) Bracket 3549000-*
(Includes Closer Mtg. Screw Kit)



- (C) Top Pivot Package 3541020-*
(Includes A, B and attaching screws)
- (G) Arm with Screws 3562020-*
(Includes D and attaching screws)
- (E) Closer Body X03540370-*
(Includes F)



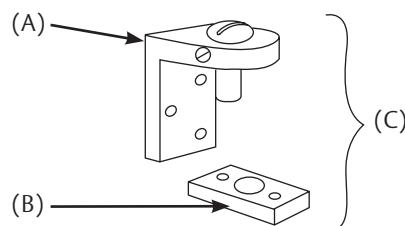
SCREW KITS

Top Pivot Screw Kit
107017 -*

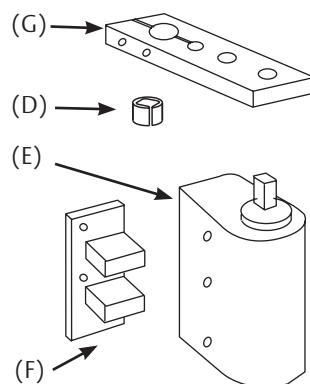
Arm Screw Kit
107359

Closer Mtg. Screw Kit
107350

- (A) Jamb Portion 0490-*AS
- (B) Gate Portion 35064-*AS
- (D) Bushing Only 35051
(Included in arm package)
- (F) Bracket 3549000-*
(Includes Closer Mtg. Screw Kit)



- (C) Top Pivot Package 3551020-*
(Includes A, B and attaching screws)
- (G) Arm with Screws 3562020-*
(Includes D and attaching screws)
- (E) Closer Body X03540370-*
(Includes F)



SCREW KITS

Top Pivot Screw Kit
107017-*

Arm Screw Kit
107359

Closer Mtg. Screw Kit
107350

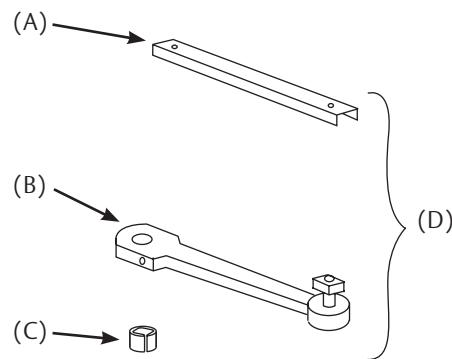
*specify finish



ASSA ABLOY

Experience a safer
and more open world

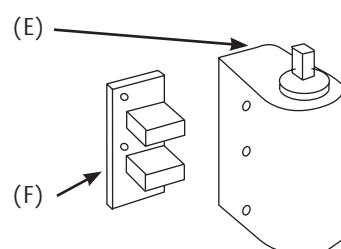
- (A) Rail
35510-*
- (B) Arm with Screw & Bushing
35535-*
- (C) Bushing Only
35051
(Included in arm package)
- (F) Bracket
3549000-
(Includes Closer Mtg.
Screw Kit)



- (D) Arm & Rail Package
3592010-
(Includes A, B, C and
attaching screws)
- (E) Closer Body
X03540370-
(Includes F)

SCREW KITS

- Arm Screw Kit
107003
- Closer Mtg. Screw Kit
107350



*specify finish

Application

- Single Acting
- Exterior Ornamental Iron Gates
- Weight to 250 lbs.
- Gate Maximum 4'6" x 10'0"
(1372 x 3048mm)

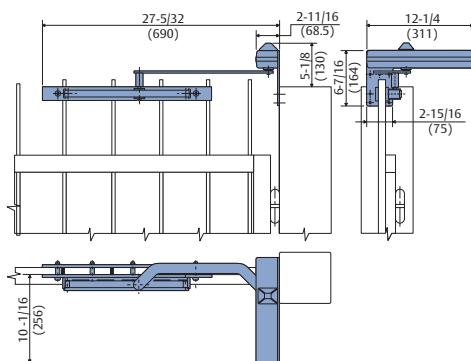


Product Description & Features

Recommended for exterior gates on high-end residences and commercial building campuses.

- Includes closer body, mounting bracket, arm and slide track
- Track has pass thru hole to avoid debris build-up
- Components are rust-resistant
- Surface closer has adjustable latch speed, closing speed and backcheck
- May be mounted on cross-member or spokes
- Hanging means by others
- All weather fluid
- All machine screws
- Black finish only

Technical Information



Application

- Single Acting, Handed
- Interior Security Doors
- Weight to 650 lbs.
- Door Width up to 4'0" (1219mm)



Product Description & Features

Recommended for non cell doors in detention facilities or psychiatric centers

- Non-hold open only
- FA180 top pivot included
- FA19 intermediate pivot recommended; order separately
- Door will swing to 180°, trim permitting
- Built-in hydraulic backcheck at 160°
- Cast iron cement case with cast in extensions for positive anchorage in floor
- Solid 1/4" (6mm) thick steel floor plate
- Cast-in lip to provide positive containment of cement case in floor
- Sealed closer standard
- Heavy-duty forged bottom arm
- Adjustable closing speed
- Doors 60" (1524mm) to 90" (2286mm) in height should use one intermediate pivot. Every additional 30" (762mm) of door height warrants another intermediate pivot
- Delayed action not available
- Furnished with Torx® screws
- PH option not available

Optional Features

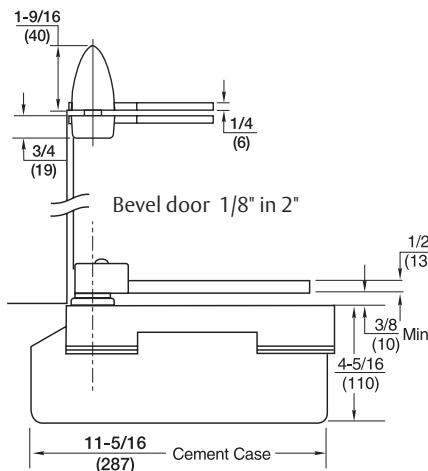
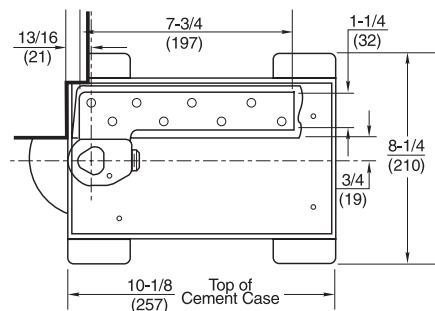
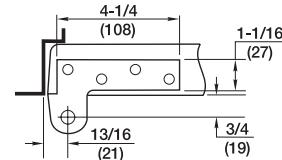
- Extended spindles available in 1/2" increments up to 2" longer than standard

Compliance

- This closer is for fire-rated openings (up to 3 hour assemblies). Only non-hold open closers are used. FA19 intermediate pivot required: order separately.

Technical Information

Frame stop required



NORTON
RIXSON

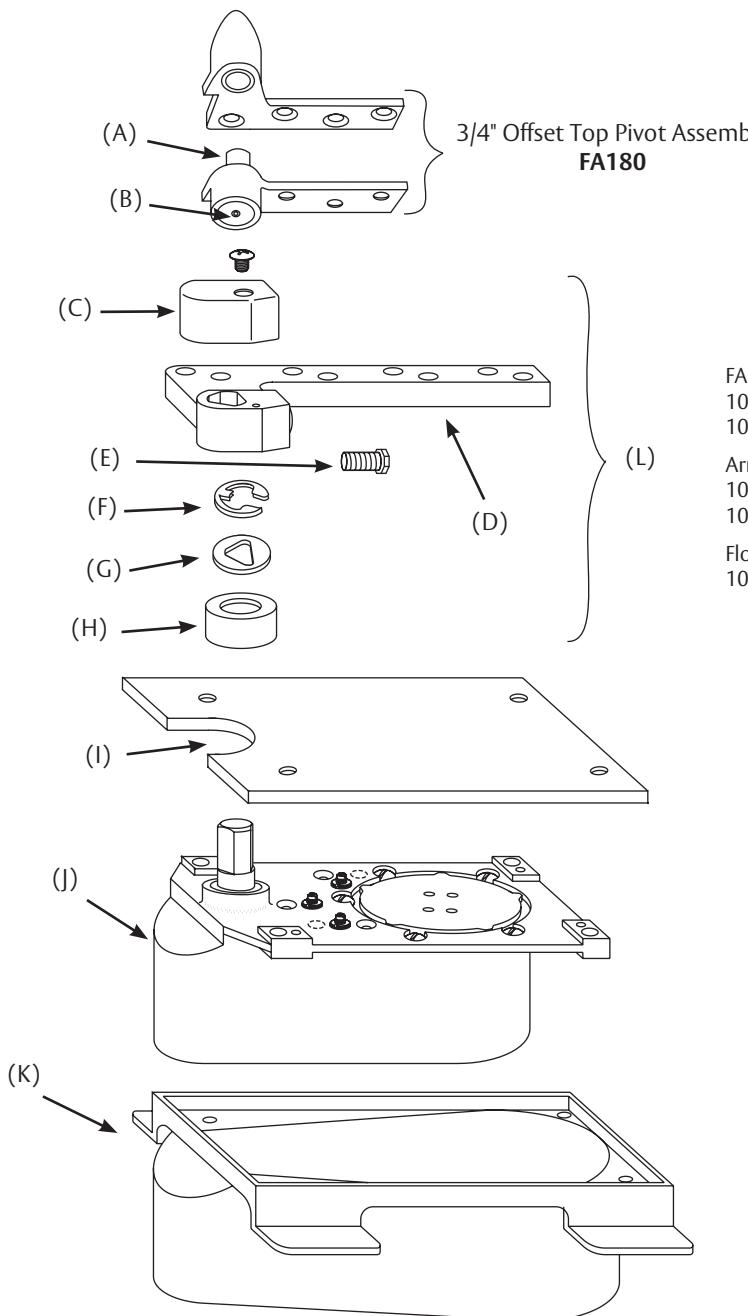
ASSA ABLOY

Experience a safer
and more open world

Right hand shown
3/4" offset only

- (A) Pivot Stud
181770-Asy
- (B) Finish Cap
181778 -*
- (C) Arm Cap & Screw
012142R*T (RH, BRS)
012142L*T (LH, BRS)
012144R*T (RH, SS)
012144L*T (LH, SS)
- (D) Arm x Locking Screw
18550-Asy (RH)
18650-Asy (LH)
- (E) Arm Locking Screw Only
88905-PKG (5)
- (F) Arm Shims
275065-PKG (5)
- (G) Arm Bearing Washer
275062-PKG (5)
- (H) Spindle Shoulder Collar
259000 -*
- (I) Floor Plate with Screws
274056 -*
- (J) Closer Body
(Specify Complete
Model No. x LAP)
- (K) Cement Case with Screws
253001SEC

(L) Bottom Arm Package
252056R* (RH)
252056L* (LH)
(Includes C, D, H and
attaching screws)



*specify finish



ASSA ABLOY

Experience a safer
and more open world

Quick Reference of Options

Prefix	Model	Degree of Hold Open	Holding Options	General Options	Fire Rated	Handed	Maximum Door Weight
350	354	90	A		No	No	75
	355	90	A		No	No	75
	356	90	A		No	No	75
	357	90	A		No	No	75
	359		N		No	No	75
	1351		N				250
	SEC27-180		N	Extended Spindle	Yes	Yes	650

How To Order

*specify finish



ASSA ABLOY

Experience a safer
and more open world



ASSA ABLOY

Experience a safer
and more open world

Copyright © 2001-2022, ASSA ABLOY Accessories and Door Controls Group, Inc., an ASSA ABLOY Group company. All rights reserved. Reproduction in whole or in part without the express written permission of ASSA ABLOY Accessories and Door Controls Group, Inc. is prohibited.

The ASSA ABLOY Group is the global leader in access solutions. Every day, we help billions of people experience a more open world.

ASSA ABLOY Opening Solutions leads the development within door openings and products for access solutions in homes, businesses and institutions. Our offering includes doors, frames, door and window hardware, mechanical and smart locks, access control and service.



CONTACT US AT:

Norton Rixson
3000 Highway 74 East
Monroe, NC 28112
Tel: 877-974-2255
Fax: 800-338-0965

ASSA ABLOY Door Security Solutions Canada
160 Four Valley Drive
Vaughan, Ontario, L4K 4T9 Canada
Tel: 800-461-3007
Fax: 800-461-8989

For a complete listing of products and applications please visit our web site.

www.nortonrixson.com
www.assaabloydss.ca