



<b>Product Comparison</b> <b>GRADE 1 - Full Feature Door Closers</b>		
<b>Stanley Door Closers - D4550 Series</b>  <b>VS</b>  <b>Norton - 7500 Series</b>		
<b>Certification &amp; Warranty</b>	<b>7500 Series (Specified)</b>	<b>D4550 Series (Proposed)</b>
BHMA 156.4 Grade 1 Certification	Yes	Yes
UL Listed & UL Listed	Yes	Yes
Warranty	10 Year	10 Year
Extended Cycle Test	Yes	Yes
<b>Size &amp; Construction</b>	<b>7500 Series (Specified)</b>	<b>D4550 Series (Proposed)</b>
Strength or Size	Adjustable 1 to 6	Adjustable 1 to 6
Case Material	Cast Aluminum	R14 High Silicon Aluminum Alloy
Case Construction	2 Piece	Single Piece
Piston/Plunger	1-1/2" Diameter	1-1/2" Diameter
Pinion Shaft & Tooth Diameter	5/8" Broached Small Teeth	5/8" Cold Forged Large Teeth
Handed Closer Body	Non Handed	Non Handed
Main Arm Material	Forged Steel	Forged Steel
Pressure Relief Valves	None	None
Back Check	Standard	Standard
Valve Material	N/A	Brass
Valve Type	Multiple Regulating/V-Slotted	Multiple Regulating/V-Slotted
Valves Staked	Yes	Yes
Valve Adjustment	Hex Key	Hex Key
PRV Valve	None	None
Cold Weather Fluid	Standard	Standard
Green Manufacturing Process	No	Yes
<b>Installation &amp; Finishes</b>	<b>7500 Series (Specified)</b>	<b>D4550 Series (Proposed)</b>
Regular Arm Application	Yes	Yes
Top Jamb Application	Yes	Yes
Parallel Arm Application	Yes	Yes
Track Application	Yes	Yes
Fasteners/Screws	Self Tapping	Self Tapping Screws
Cover High Impact Plastic	Standard	Standard
Metal Cover	Optional	Optional
Rust Inhibitor	Optional	Optional
BHMA Standard Finishes Available	Yes	Yes
<b>Options</b>	<b>7500 Series (Specified)</b>	<b>D4550 Series (Proposed)</b>
Heavy Duty Arms	Yes	Yes
Delayed Action	Yes	Yes
Thru Bolts	Yes	Yes
Security Screws	Yes	Yes
<b>N/A means either Not Available or Information has not been located</b> <b>This is a general comparison of like products.</b> <b>Consult Manufacturer Catalog for Detail and Accuracy</b>		

## WARRANTY

**What is Covered:** Stanley Security Solutions, Inc. ("Stanley") warrants that all Products manufactured by Stanley and sold under its trade name "STANLEY" are free of defects in materials and workmanship as outlined below. The sole and exclusive liability of Stanley under this warranty is limited to the repair or replacement of any Product or component part covered by the warranty at the sole discretion of Stanley.

**Who is Covered:** This warranty is extended only to Stanley's distributors of products and the end user who purchases products for purposes other than resale (collectively, "Purchaser").

**Hardware Warranty Period:**

- **Stanley Door Closer mechanical products** shall be warranted for ten (10) years from date of sale.
- **Stanley Door Closer electrical products** shall be warranted for one (1) year from date of sale.
- **Finishes** shall be warranted for three (3) years from date of sale excluding 10B/613 "Oil Rubbed Bronze" finish.

**Stanley Wi-Q™ Technology and B.A.S.I.S. Software:**

- Stanley warrants that all software shall be free from defects in materials and workmanship and will function in substantial accordance to the specifications for a period of one (1) year from the date of installation.
- Specific Limitations:
  - This warranty does not cover any post-sales technical support under the following circumstances:
    - Problems caused by misuse of software or hardware
    - Failure to provide a network connection or site phone line for a modem connection, if deemed necessary by Stanley
    - Technical support for network software products
    - Technical support for software installed on computer hardware or computer operating system that is no longer commercially available for purchase.

**Warranty Claims:** Any Products believed to be defective as covered by this warranty may not be returned without prior written Returned Materials Authorization (RMA) from Stanley Product Support (800) 392-5209 covering specific items and quantities within thirty (30) days from the discovery of the alleged defect(s). Stanley will inform the purchaser where to ship said Product(s), shipping charges prepaid by you, for examination. In the event such examination reveals a defect covered by this warranty; Stanley will, at its sole option, repair or replace the Product, and return it or its replacement to the purchaser, with charges only for shipping.

**Exclusions:** This warranty specifically excludes, and Stanley shall not be held responsible for the following:

- a) **COSTS ASSOCIATED WITH INSTALLING, REMOVING OR REINSTALLATION OF THE PRODUCT.**
- b) Damage caused by Product malfunction or failure attributable to acts of God.
- c) Improper use or installation.
- d) Poor or no maintenance.
- e) Work performed by other than an Authorized Stanley technician.
- f) Failure to follow Stanley's operating instructions or environmental specifications.
- g) Incorrect application, modification, vandalism, erosion or corrosion, shipping and/or handling, improper storage, accident, misuse, abuse or any other cause not within the control of Stanley other than ordinary wear and tear.
- h) This warranty is void if any modification is made to the warranty product, regardless of whether the modification causes or contributes to the alleged defect. All modifications are made at the risk and expense of the party making the modifications.
- i) The company shall not be liable for any repairs, replacements, or adjustments to the product or any costs of labor performed by the purchasers or others without the Company's prior written approval.
- j) Stanley provides no warranty or guarantee that its cores and/or cylinders will function properly or be mechanically compatible with products not manufactured by Stanley.
- k) The US10B/613 finish is considered to be a living finish that will change over time with use and age and is expressly excluded from this warranty. The finish changes that occur are indicative of normal wear and tear and reflect the essence of a living finish. The finish changes are not considered manufacturing defects and are not covered by this warranty.

**Third Party Warranty:** Except as otherwise provided above, Stanley makes no warranty, express or implied, with regard to third party hardware or software and expressly disclaims the implied warranties or conditions of merchantability or merchantable quality, fitness for a particular purpose, title, infringement and those arising by statute or otherwise in law. Customer's sole recourse for warranty claims is with the manufacturer of the Product. However, Stanley agrees to pass through any third party warranty that Stanley receives from the manufacturer of the Products to buyer. The extent of any third party warranty details, terms and conditions, remedies and procedures may be expressly stated on, or packaged with, or otherwise accompanying the Products.

**LIMITATION OF WARRANTIES:** THIS WARRANTY IS GIVEN EXPRESSLY AND IN PLACE OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR PARTICULAR PURPOSE. THERE ARE NO UNDERSTANDINGS, AGREEMENTS, REPRESENTATIONS, OR WARRANTIES NOT SPECIFIED HEREIN.

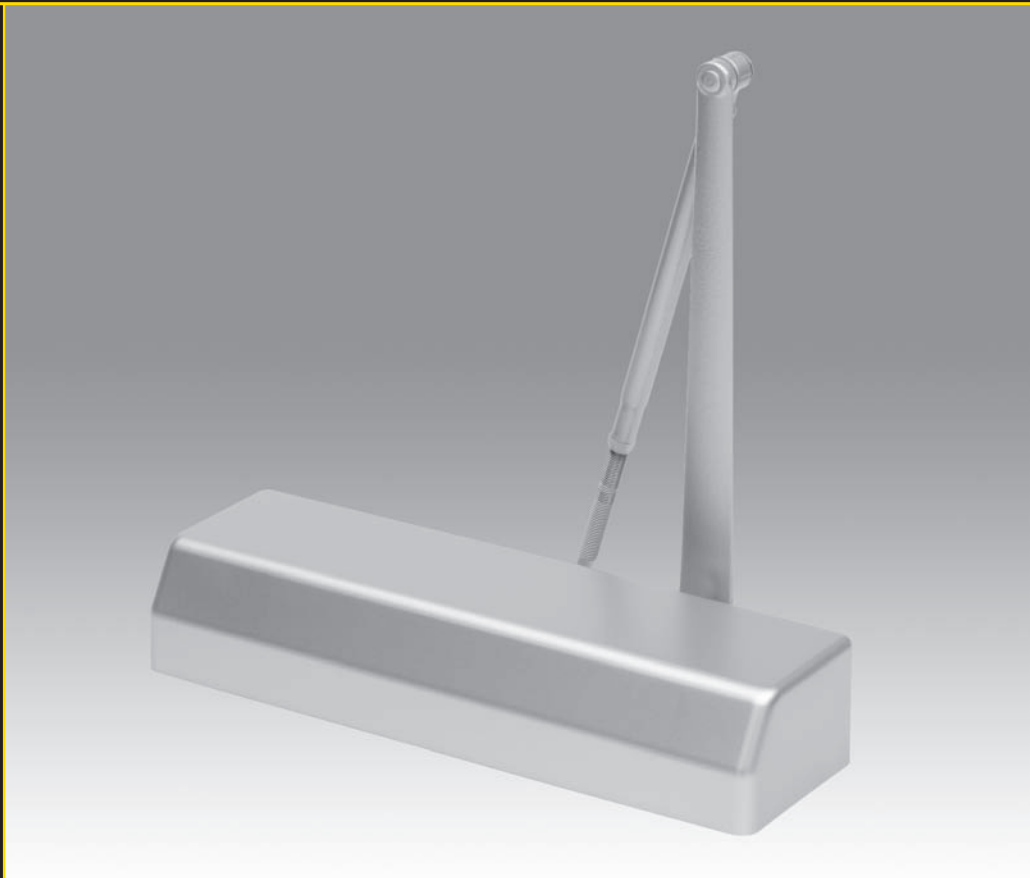
**STANLEY SHALL NOT, IN ANY EVENT, BE LIABLE FOR ANY CONSEQUENTIAL, INCIDENTAL, INDIRECT, SPECIAL OR PUNITIVE DAMAGES SUFFERED BY PURCHASER OR ANYONE CLAIMING BY, THROUGH OR UNDER PURCHASER, AS A RESULT OF THE CONDITION OF THIS PRODUCT, OR ANY PART OR PORTION THEREOF.**

**SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS OR PROHIBIT THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION AND EXCLUSIONS MAY NOT APPLY IN YOUR STATE.**

**THIS WARRANTY IS GOVERNED BY THE LAW OF THE STATE OF INDIANA WITHOUT REGARD TO ITS CONFLICTS OF LAW PRINCIPLES. STANLEY AND PURCHASER AGREE THAT THE UNITED NATIONS CONVENTION ON CONTRACTS FOR THE INTERNATIONAL SALE OF GOODS SHALL NOT APPLY TO SALE OF THE PRODUCTS COVERED BY THIS WARRANTY.**

**STANLEY**<sup>®</sup>

Security Solutions



# DOOR CLOSERS

D-4550 / D-4551 SERIES

**STANLEY**<sup>®</sup>

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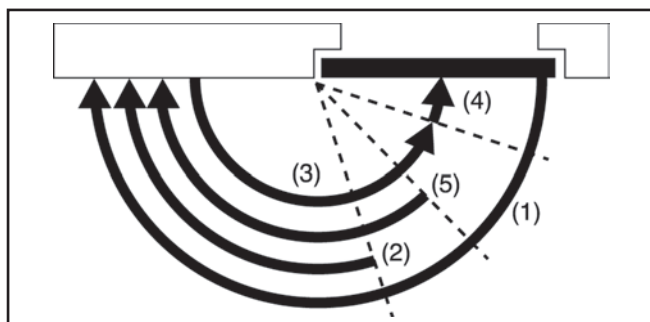
## Introduction

The model D4550 Series is Stanley's best performing Heavy Duty Closer. The cylinder body is manufactured using R-14 Silicon Aluminum Alloy providing superior strength and durability on institutional applications. Available in a variety of standard and heavy-duty arm configurations accommodating a broader range of today's growing architectural application requirements.

### Features

#### Fully Hydraulic Checking

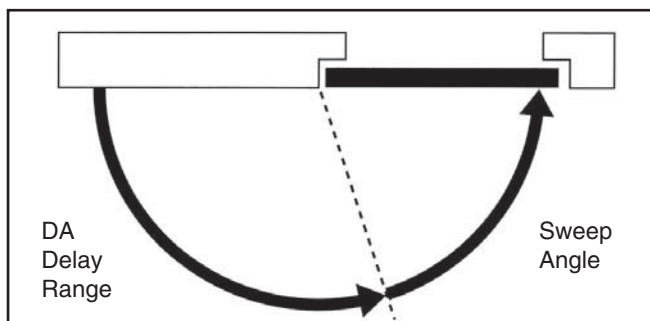
Controls the door through the entire opening and closing cycles by providing adjustable backcheck upon opening and adjusting general and latch speeds through the closing cycle.



- (1) opening swing, no checking
- (2) backcheck
- (3) general speed
- (4) latch speed
- (5) advanced variable backcheck

#### Delayed Action - Optional

The D-4550DA / D-4551DA Series Door Closers are equipped with a separate hydraulic valve adjustment to delay the closing speed from 180 to 70 degrees of door opening range.



#### Non-Handed

Can be used on both RH and LH doors for both push side and pull side mounting.

#### Advanced Variable Backcheck (AVB) optional

Cylinder starts backcheck at approximately 45° instead of the normal 75°. Add suffix "AVB" to selected cylinder. When combined with Delayed Action consult factory for special template. (Heavy Duty Arm applications).

#### Adjustable Spring Power

The D-4550/D-4551 Series Door Closers are designed to have the widest range of spring power adjustment available to meet the broadest range of application requirements.

#### Non-Critical Regulation

The separate adjustments for backcheck, general and latch speeds are equipped with non-critical "V-Slot" regulating valves which allow for fine tuning the closing and latching speeds as well as the backcheck intensity.

#### All Season Fluid

All season fluid eliminates the need for seasonal adjustment.

#### Special High Silicon Aluminum Alloy Housing

All D-4550 / D-4551 Series Door Closers are constructed of STANLEY'S R14 HIGH SILICON ALUMINUM ALLOY to exceed the ANSI/BHMA A156.4 Grade 1 requirements.

#### Forged Arms

Heavy duty forged arms are interchangeable between the D-4550 and D-3550 Series Door Closers.

#### High Impact Cover

All D-4550 / D-4551 Series Door Closers are shipped with a high impact self-extinguishing decorative cover.

#### Metal Cover - Optional

An optional stainless steel, brushed finish metal cover is available.

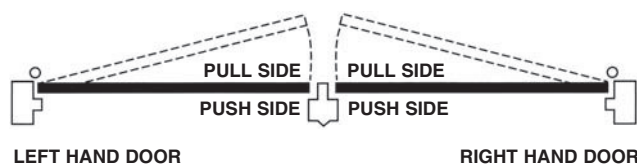
#### Special Rust Inhibitor (SRI) - Optional

For installations where a higher level of corrosive resistance is required.

#### Maintenance Free

Door Closers mounted in accordance with the provided installation instructions are maintenance free from periodic inspection and adjustment.

#### Handing



## Closing Power Adjustment

**D-4550\*** – Size 2 – 6 with 50% with spring power adjustment over size 6.

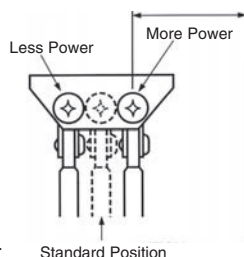
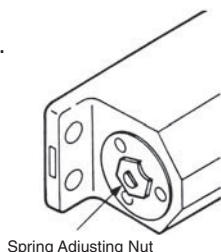
**\* Meets ADA 5lb opening force requirements on all applications except Pull-Side Regular Arm Mount.**

The D-4550 Series is adjusted to size 3 before leaving the factory.

**D-4551\*\*** – Size 1 – 5 with 35% spring power adjustment over size 5.

**\*\* Meets ADA 5lb opening force requirements.**

The D-4551 Series is adjusted to size 2 before leaving the factory.

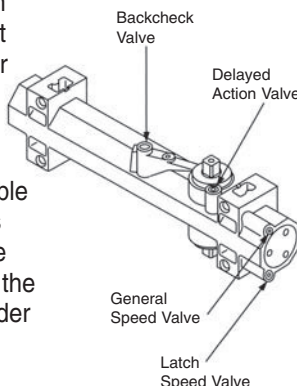


## Latching Power Adjustment

The D-4550 / D-4551 Series Door Closers have the provision to adjust the leverage of the arms by changing the pivot position of the arm in the shoe. The shoe itself does not have to be removed from the door or jamb.

## Delayed Action

A delayed action feature is available with this series for all applications and arms. The feature permits the door to close very slowly through the delayed action cycle range. To order add suffix DA to closer number.



## Arm Options

Suffix	Description	Page
L	Long Rod Forearm (TJ only)	9
H	Standard Hold Open	4
PH	Parallel Hold Open	5
EDA	Heavy Duty Arm	7
H-EDA	Heavy Duty Arm w/Hold Open	7
S	Heavy Duty Arm w/Stop	7
CS	Heavy Duty Arm w/Compression Stop	7
HS	Heavy Duty Arm w/Hold Open and Stop	7
HCS	Heavy Duty Arm w/Hold Open & Comp. Stop	7
T	Track Mount	8
HT	Track Mount w/Hold Open	8
TCS	Track Compression Stop	8

## Packing

All D-4550 / D-4551 Series Door Closers with standard arm sets are packed for mounting on standard, parallel arm or top jamb applications. All closer assemblies are packed 4 per carton. Tracks for track mounted closers are packed

## Through Bolts and Sex Nuts

When through bolting is ordered, factory will furnish sex nuts for use with the machine screws furnished with the closer. Nuts are sized to accommodate 1-3/8" or 1-3/4" thick doors.

## ANSI and U.L. Specifications

The D-4550/D-4551 Series Door Closers have been Certified to the requirements of the ANSI/BHMA Standard A156.4 - 2000 Grade 1.

UL listed with Underwriters' Laboratories, Inc. and Underwriters' Laboratories of Canada for "Self Closing Doors Without Hold-Open Feature". (File number 7525R).

## UL10C – UBC 7.2

D-4550/D-4550 closers have been tested and certified to meet the positive pressure criterion of UL10C & UBC 7.2 (1997)



## HOW TO ORDER

### CLOSERS

**Options:** add suffix

AVB - Advanced Variable Backcheck (optional)

DA - Delayed Action (optional)

MC - Metal Cover (optional)

**Size:** 0 - (For proper size see closing power adjustment above)  
1 - (For proper size see closing power adjustment above)

**Model No.**

### ARM TYPE (add suffix)

L - Long Rod Forearm (TJ only)

H - Standard Hold Open

PH - Parallel Hold Open

EDA - Heavy Duty Arm

H-EDA - Heavy Duty Arm w/ Hold Open

S - Heavy Duty Arm w/ Stop

CS - Heavy Duty Arm w/ Compression Stop

HS - Heavy Duty Arm w/ Hold Open & Stop

HCS - Heavy Duty Arm w/ Hold Open & Comp. Stop

T - Track Mount

HT - Track Mount w/ Hold Open

TCS - Track Compression Stop

**D-4550DAEDA x 689 x SN**

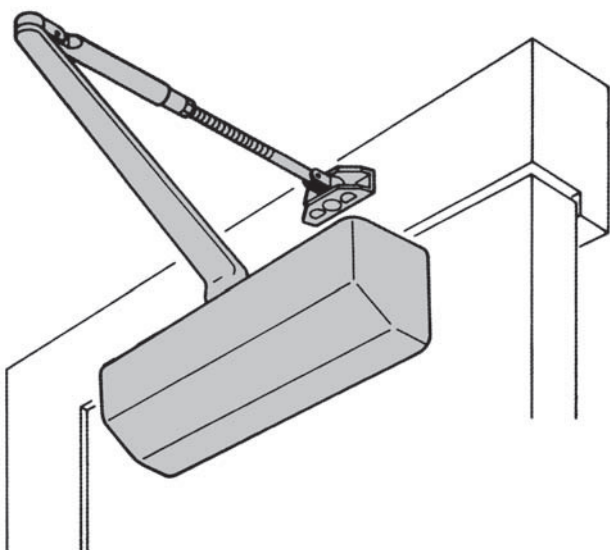
**Finish:**

- 689 - Aluminum
- 690 - Statuary Bronze
- 691 - Bronze
- 693 - Black
- 695 - Dark Bronze
- 696 - Brass

**Fasteners:**

- SN - Sex Nuts & Bolts  
Wood & Machine  
Screws furnished  
standard.
- SEC - Security Screws

## STANDARD APPLICATION



## D-4550 / D-4551 Series Door Closer

## Specifications

- Closer mounted on **PULL** side of door
- Can be templated for either 120° or 180° (when butt, frame and wall conditions permit.)
- Custom installation template may be available for unusual installation conditions. Contact Stanley for assistance.

## Maximum Door Opening

## 120° Opening

A = 11-9/32" (286 mm)

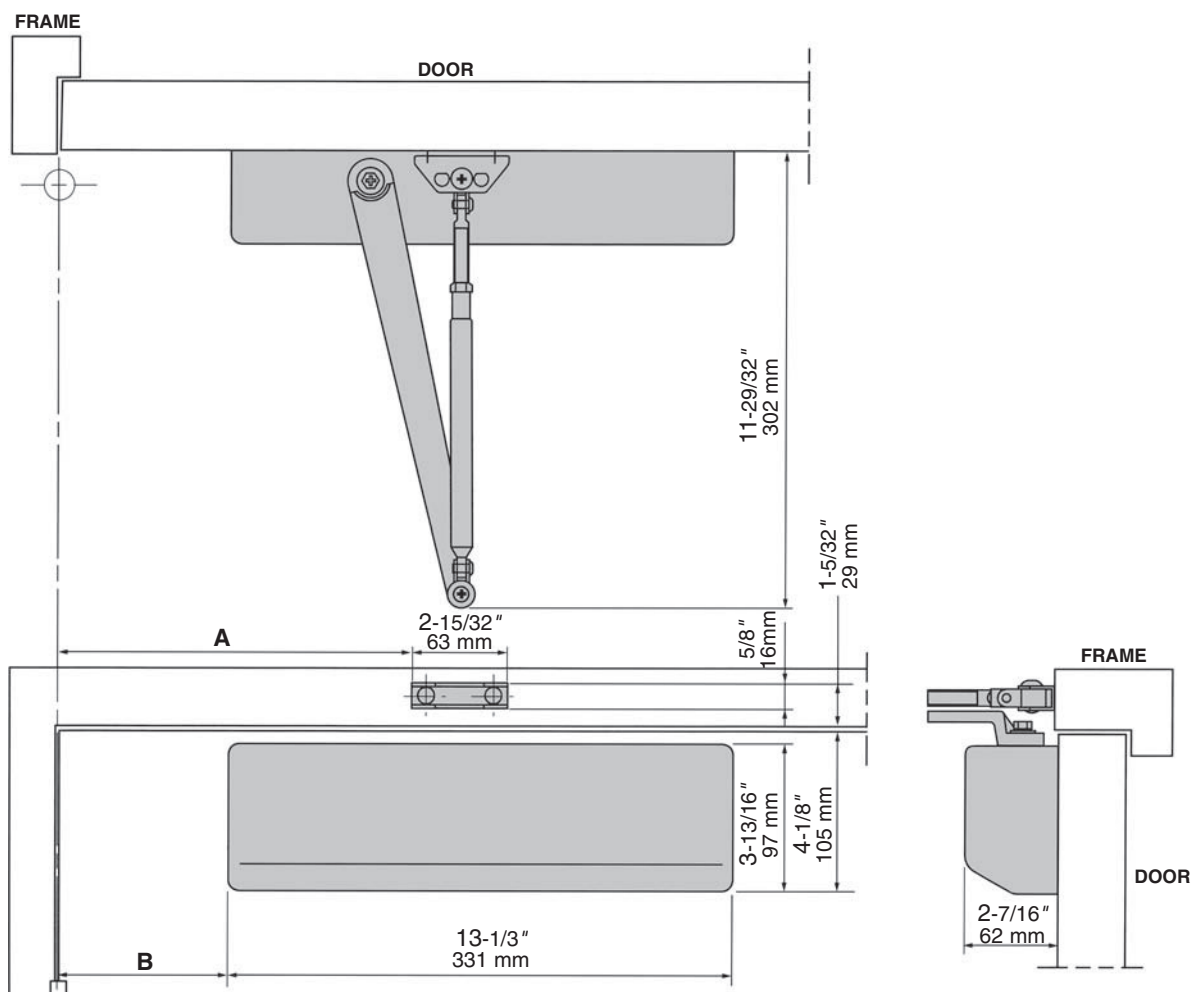
B = 6-1/2" (165 mm)

## 180° Opening

A = 9-1/4" (235 mm)

B = 4-1/2" (114 mm)

Hold-open points up to maximum door opening with hold open arm.





## PARALLEL ARM APPLICATION

### D-4550 / D-4551 Series Door Closer

#### Specifications

- Closer mounted on **PUSH** side of door
- Can be templated for either 120° or 180° (when butt, frame and wall conditions permit.)
- Custom installation template may be available for unusual installation conditions. Contact Stanley for assistance.

#### Maximum Door Opening

##### 120° Opening

A = 8-23/32" (222 mm)

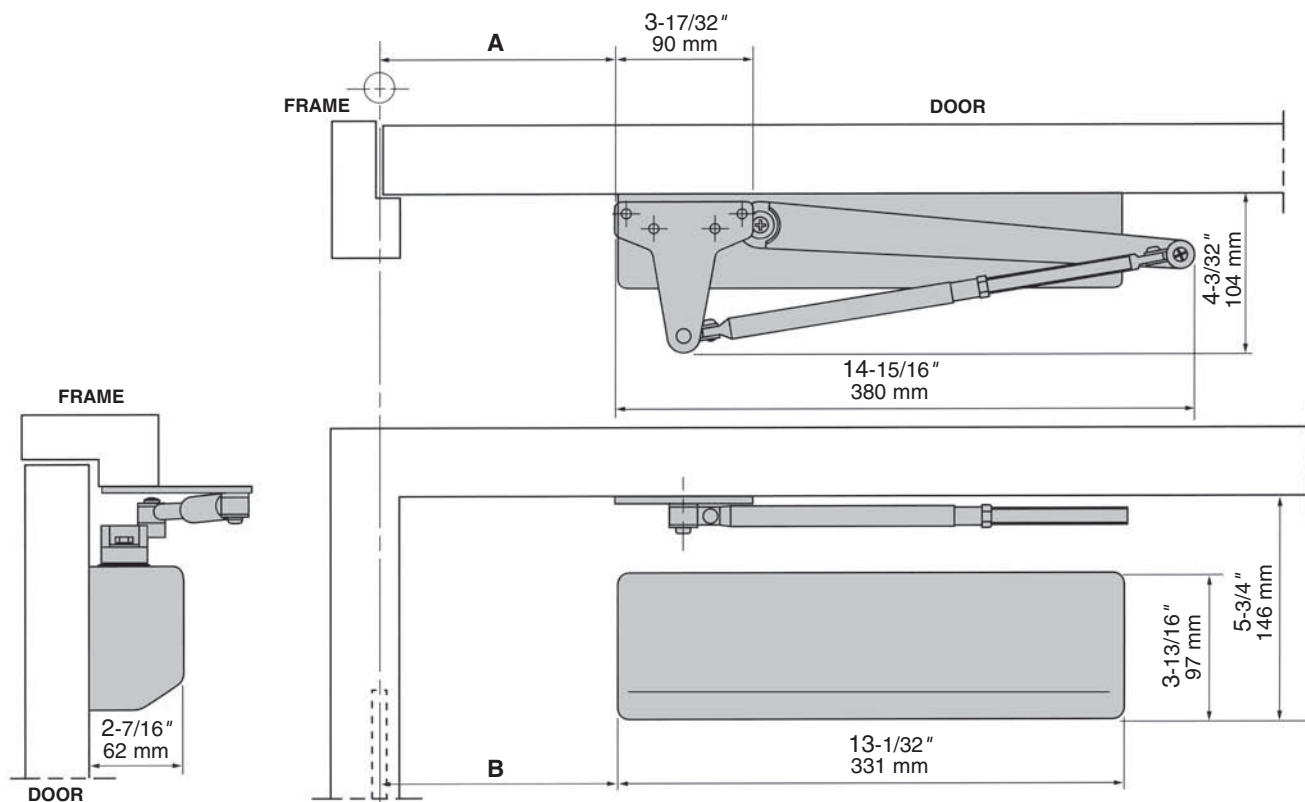
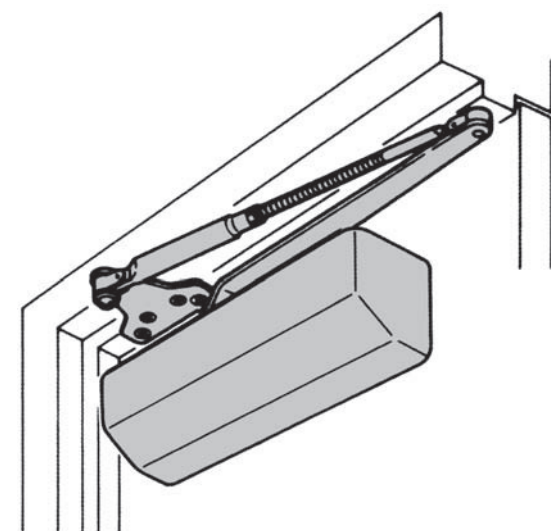
B = 8-27/32" (224 mm)

##### 180° Opening

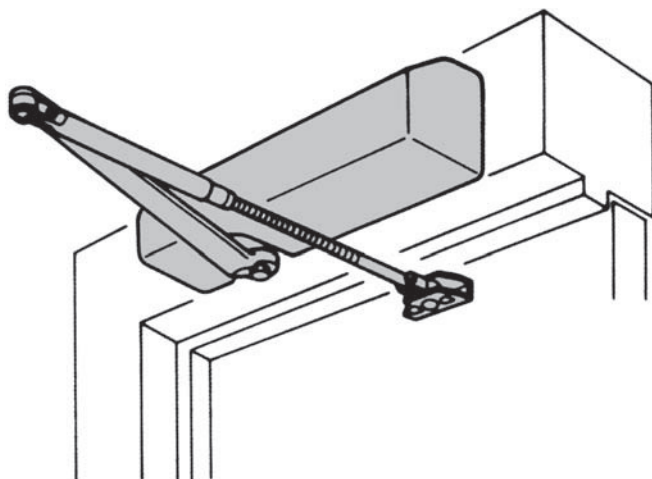
A = 6-3/32" (155 mm)

B = 6-7/32" (158 mm)

Hold-open points up to maximum door opening with hold open arm.



## TOP JAMB APPLICATION


**D-4550 / D-4551 Series Door Closer**  
**Specifications**

- Closer mounted on **PUSH** side of door
- Can be templated for either 120° or 180° (when butt, frame and wall conditions permit.)
- Standard reveals up to 6-1/2" (165 mm)
- For deeper reveals use long rod and shoe A45-501L (See page 9)
- Custom installation template may be available for unusual installation conditions. Contact Stanley for assistance.

**Maximum Door Opening**
**120° Opening**

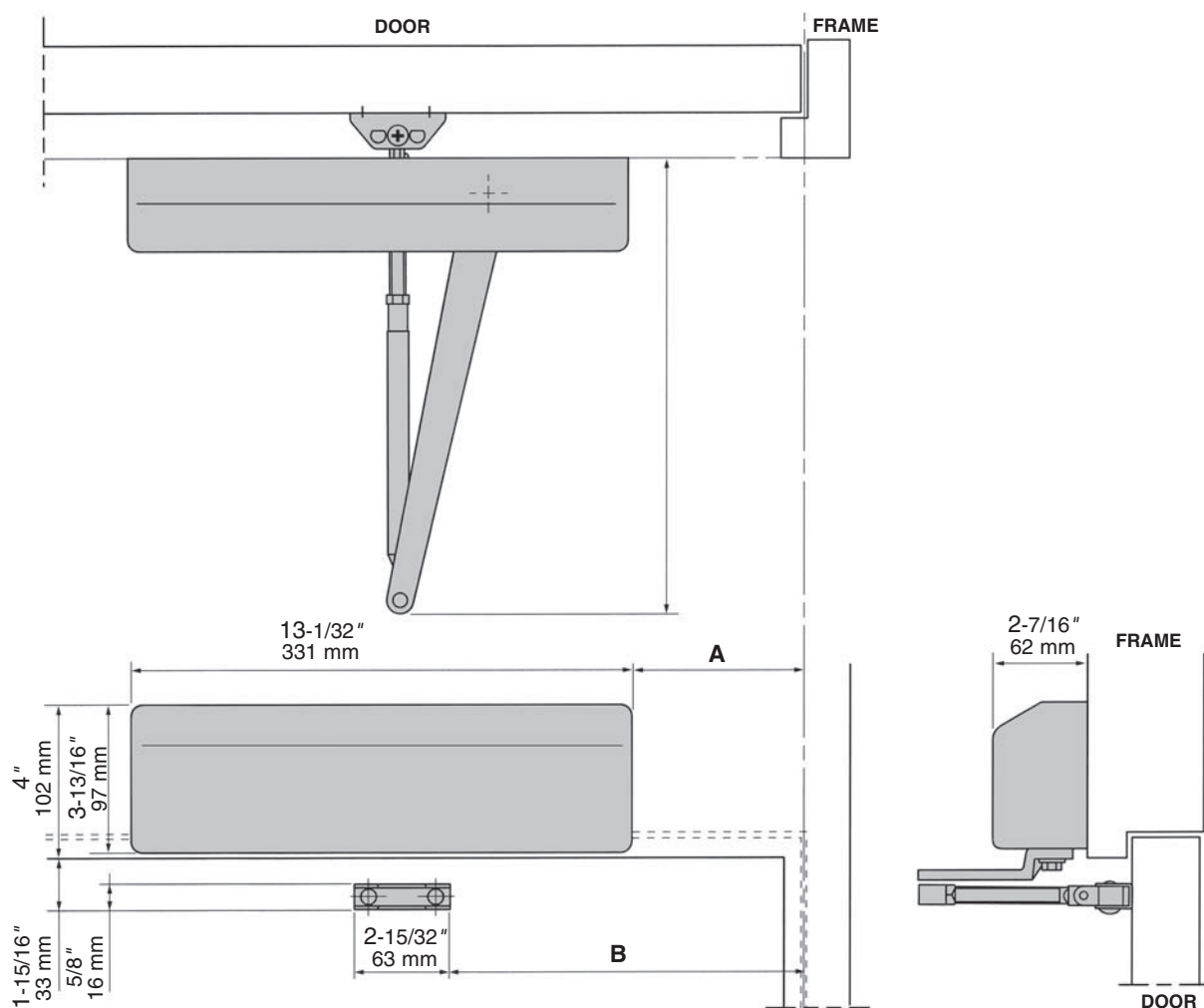
A = 6-3/32" (155 mm)

B = 11-9/32" (286 mm)

**180° Opening**

A = 4-3/32" (104 mm)

B = 9-9/32" (236 mm)





## HEAVY DUTY ARM APPLICATION

## D-4550 / D-4551 Series Door Closer

## Specifications

- EDA, H-EDA, S, CS, HS and HCS
- Closer mounted on **PUSH** side of door
- Can be templated for either 120° or 180° (when butt, frame and wall conditions permit.)
- Custom installation template may be available for unusual installation conditions. Contact Stanley for assistance.

## Maximum Door Opening

## 120° Opening

A = 7-3/8" (187 mm)

B = 6-1/2" (165 mm)

## 160° Opening

A = 6-1/4" (159 mm)

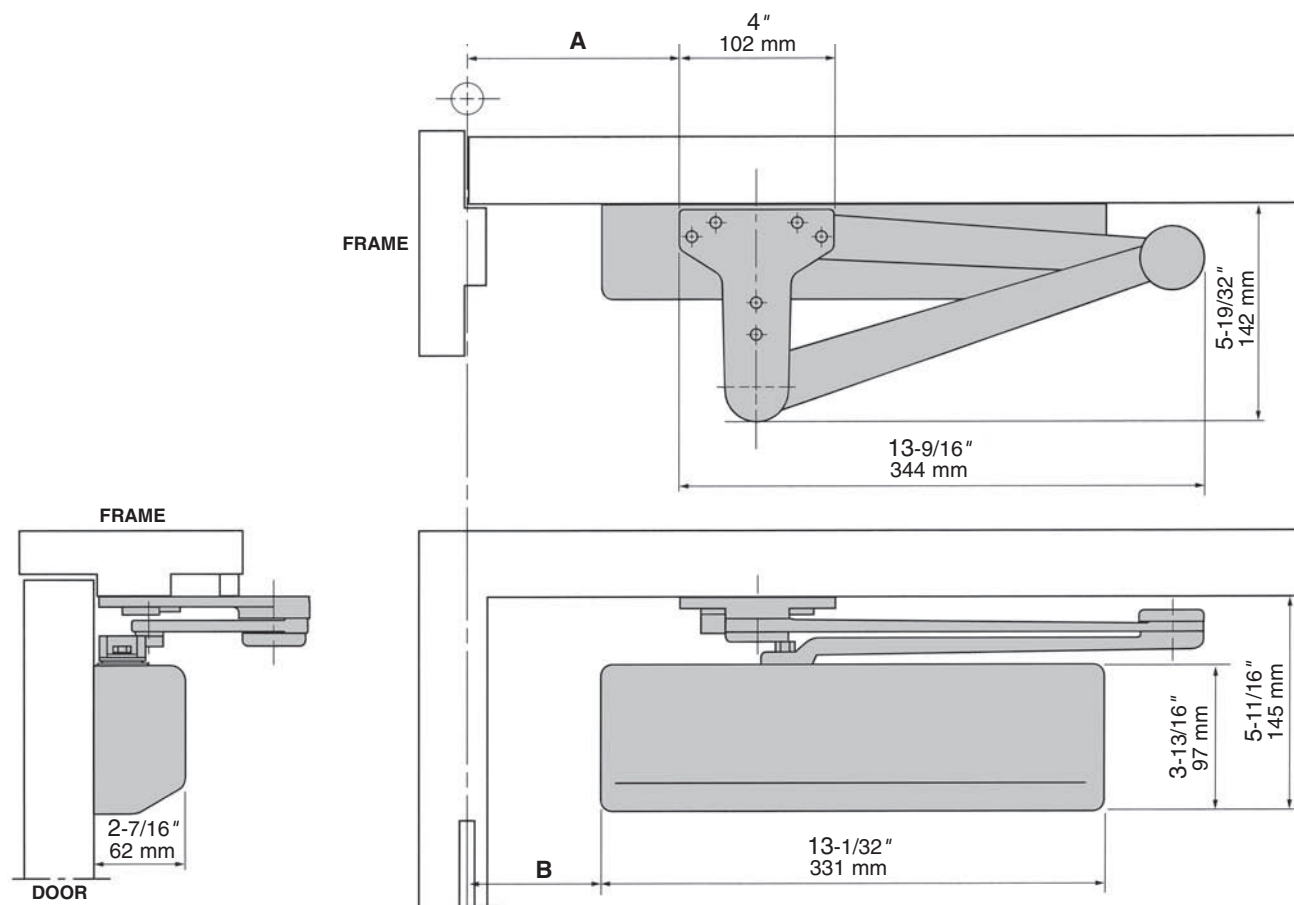
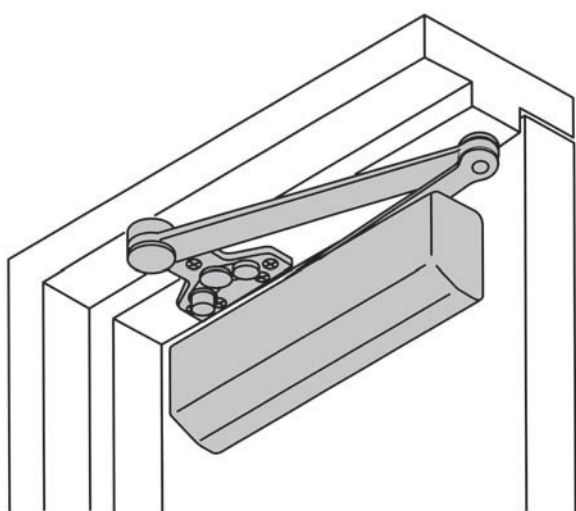
B = 5-11/32" (136 mm)

## 180° Opening

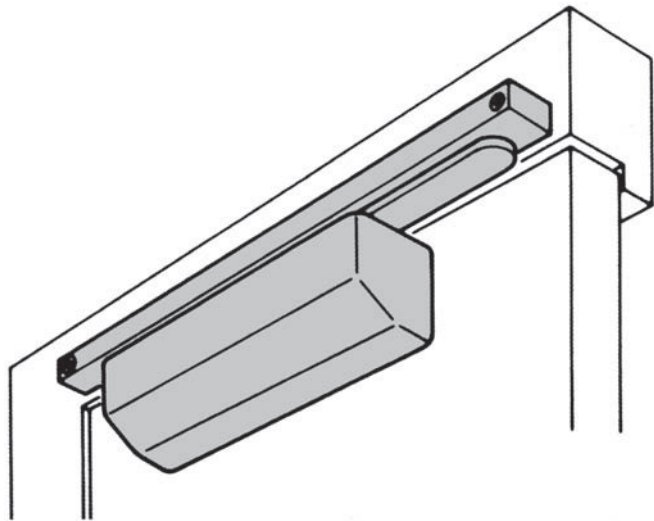
A = 4-5/8" (117 mm)

B = 3-3/4" (95 mm)

Hold-open is approximately 3° less than maximum door opening.



# TRACK RAIL ARM APPLICATION

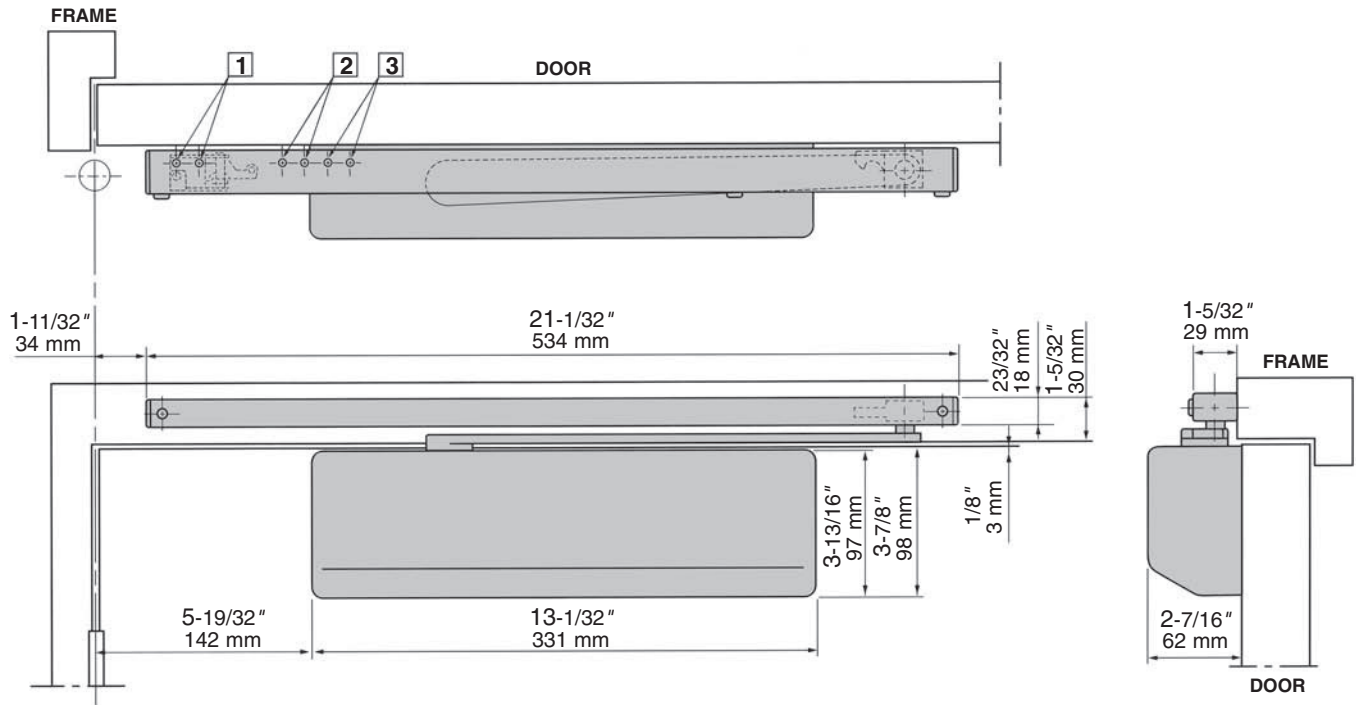


## D-4550 / D-4551 Series Door Closer Specifications

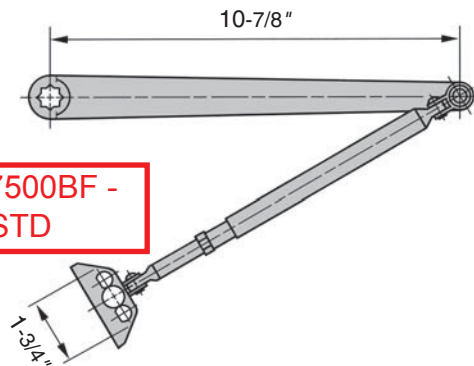
- T, HT, TCS Application
- Closer mounted on **PULL** side of door
- Custom installation template may be available for unusual installation conditions. Contact Stanley for assistance.

**Maximum Door Opening**  
120° Opening

Hold Open Device	1	2	3
Hold Open Angle	106°	86°	80°

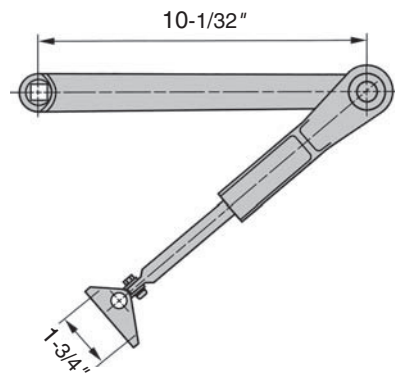


**Standard Arm Set  
A45-501**



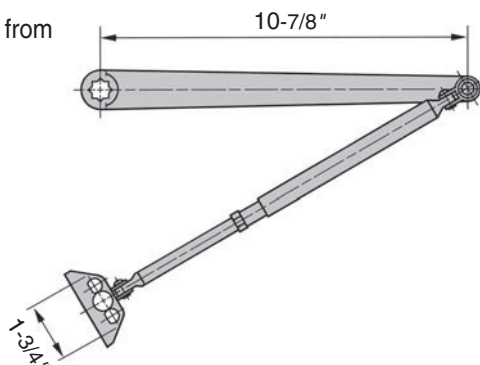
Arm for 7500BF -  
D-4550-STD

**Standard Hold-Open Arm Set  
A45-501H**



**Standard Arm Set with Long Rod and Shoe Set  
A45-501L**

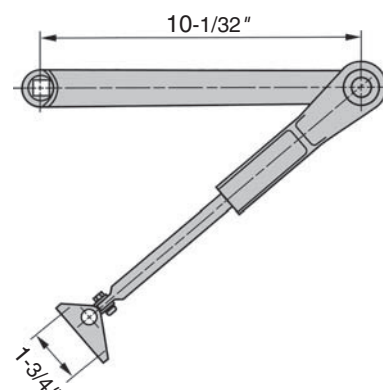
- For reveals from 6-1/2" to 8"



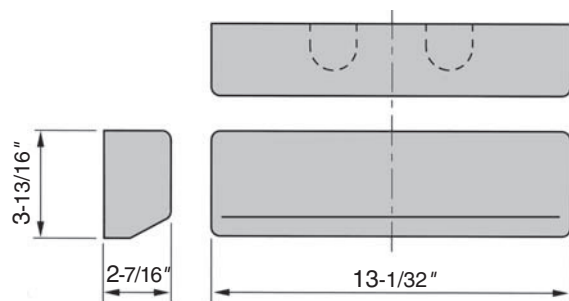
**Standard Hold-Open Arm with Long Rod  
and Shoe Set**

- A45-501HL**
- For reveals from 3-3/16" to 4-13/16"

- A45-501HXL**
- For reveals from 4-7/8" to 8"

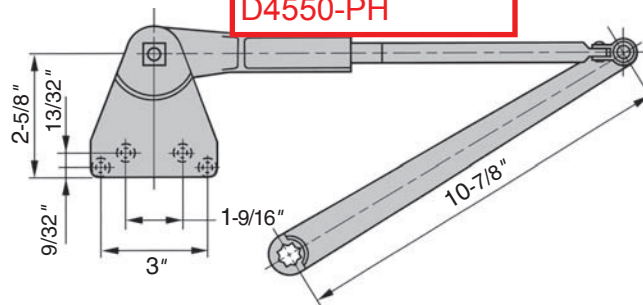


**Full Cover (Optional)  
C-455 Plastic**

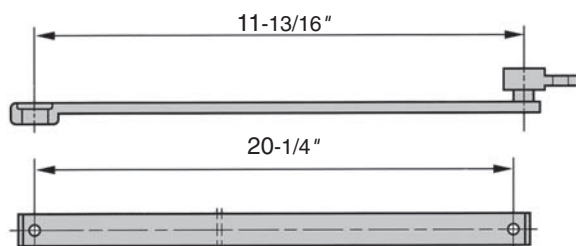


**Parallel Hold-Open Arm Set  
A45-503H**

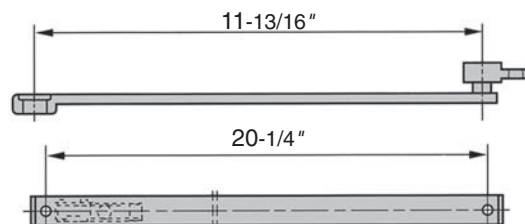
Arm for PR7500 =  
D4550-PH



**Track Rail Arm Set  
A45-507T**

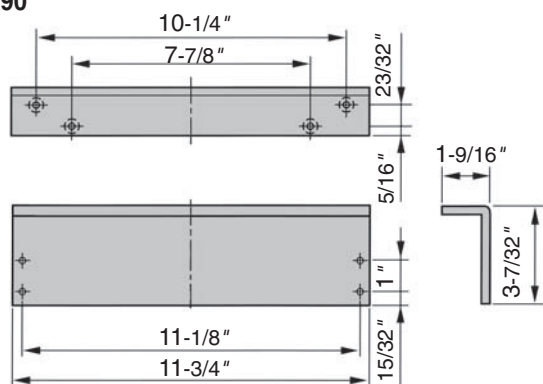


**Track Rail Hold-Open Arm Set  
A45-507HT**

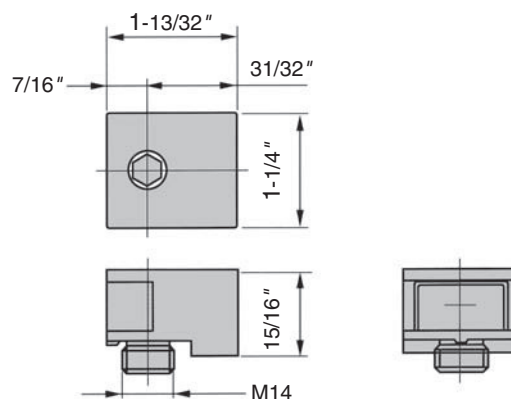


## ACCESSORIES

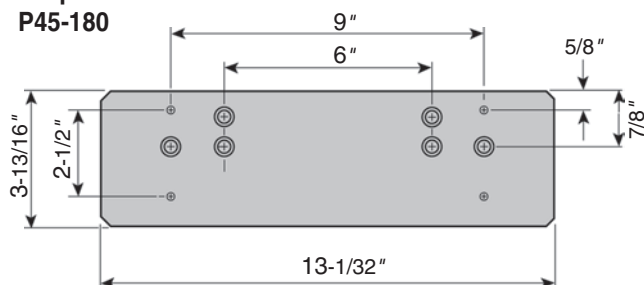
**Angle Bracket  
P45-190**



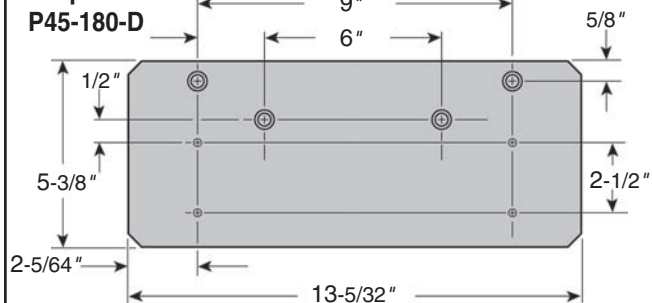
**Compression Stop**



**Drop Plate  
P45-180**



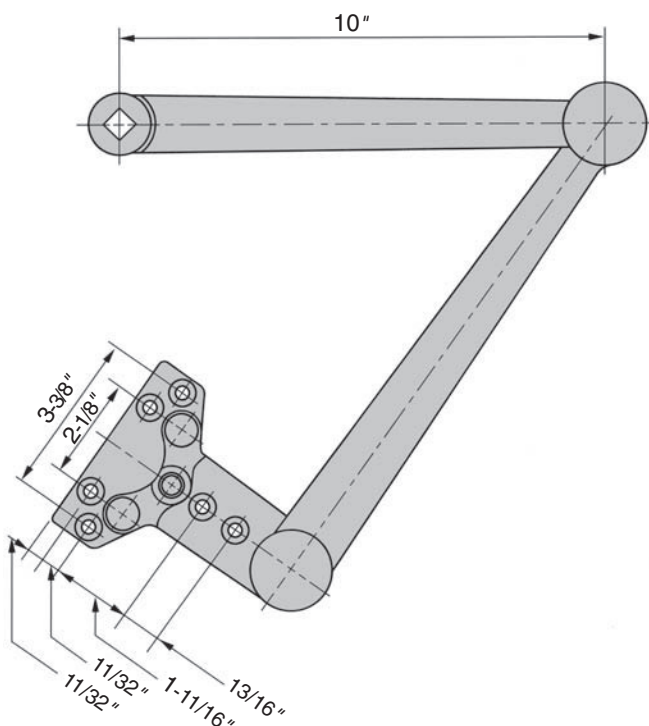
**Drop Plate  
P45-180-D**



**Heavy Duty Parallel Arm Set  
A45-505**

**Heavy Duty Parallel Arm Set with Stop  
A45-505S**

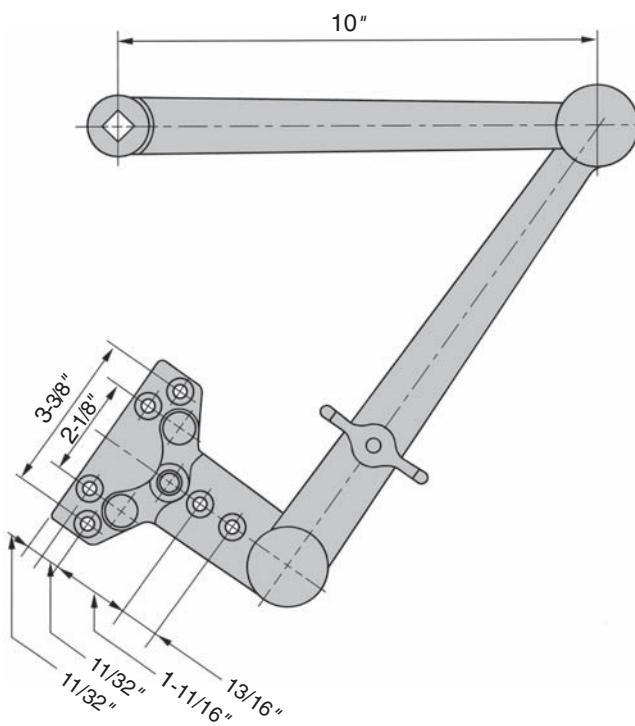
**Heavy Duty Parallel Arm Set with Compression Stop  
A45-505CS**



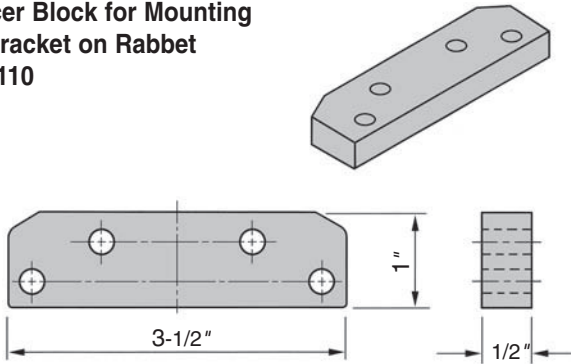
**Heavy Duty Parallel Arm Set with Hold Open  
A45-505H**

**Heavy Duty Parallel Arm Set with Stop and Hold Open  
A45-505HS**

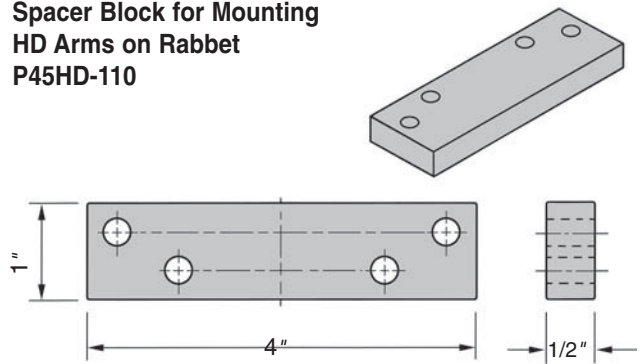
**Heavy Duty Parallel Arm Set with Compression Stop and Hold Open  
A45-505HCS**



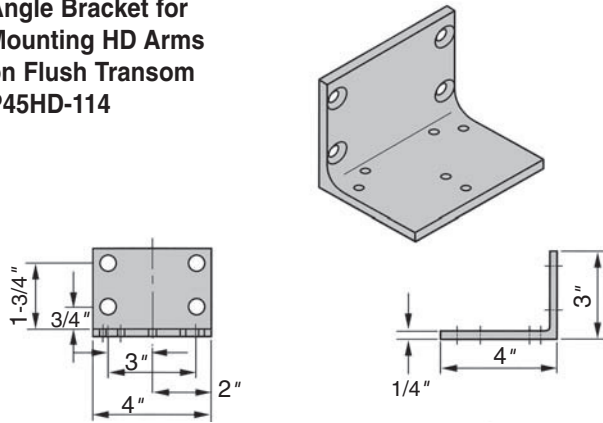
**Spacer Block for Mounting  
PA Bracket on Rabbet  
P45-110**



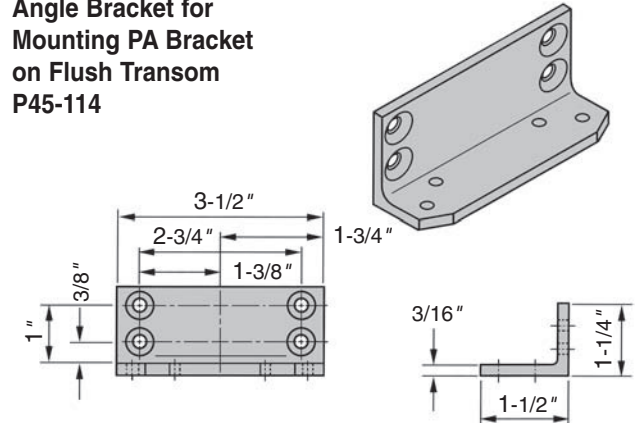
**Spacer Block for Mounting  
HD Arms on Rabbet  
P45HD-110**



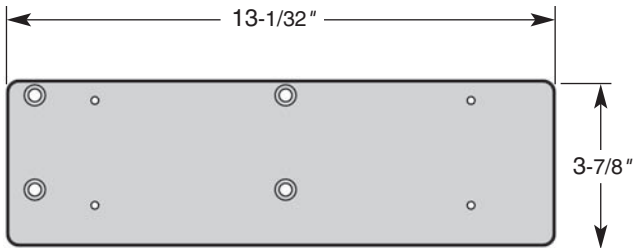
**Angle Bracket for  
Mounting HD Arms  
on Flush Transom  
P45HD-114**



**Angle Bracket for  
Mounting PA Bracket  
on Flush Transom  
P45-114**

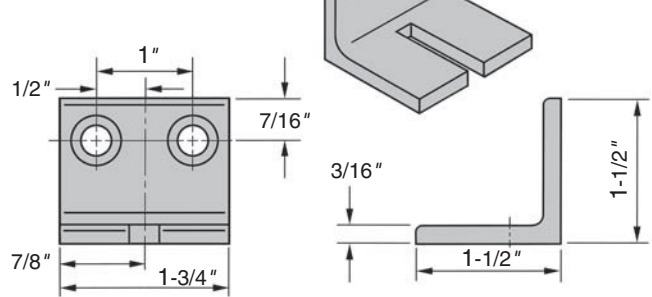


**Retrofit Plate to mount to  
LCN 4111 Hole Pattern  
P45-4110**

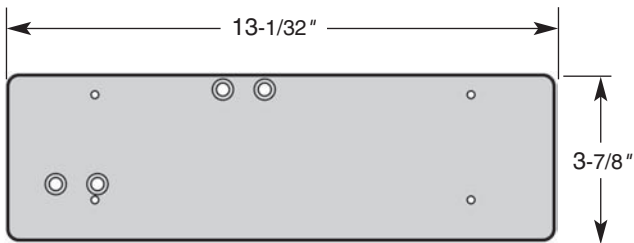


Material Thickness: 3/16"

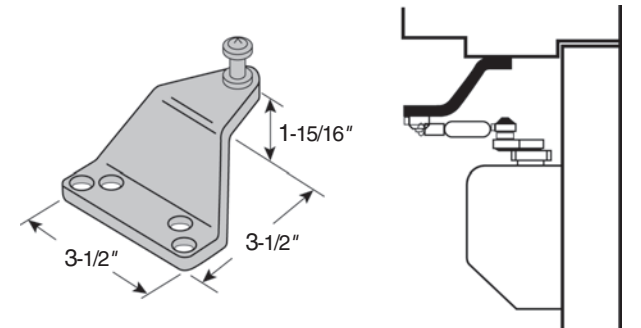
**Angle Bracket for Shoe  
Support on HD Arms  
P45HD-112**



**Retrofit Plate to mount to  
LCN 4040 Hole Pattern  
P45-4040**



**Extra-Clearance  
Offset Soffit Plate  
P45-113**



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