## INSTALL



95

50 | 41

16 | 3 clearance

37

Minimum dimensions of trasom and door

Caution:Drill in this area may damage closer

DOOR HEADER WITH CLOSER

37.3

12.5

Recess 3 clearance

TOP DOOR RAIL

DOOR JAMB | DOOR STILE

3 DOOR clearance

66.5 ℄ of pivot

BOTTOM DOOR RAIL

39.5 Recess

Floor

34 minimum

55 maximum

6 clearance

70 ℄ of pivot

Threshold 12.5

5 DOOR clearance

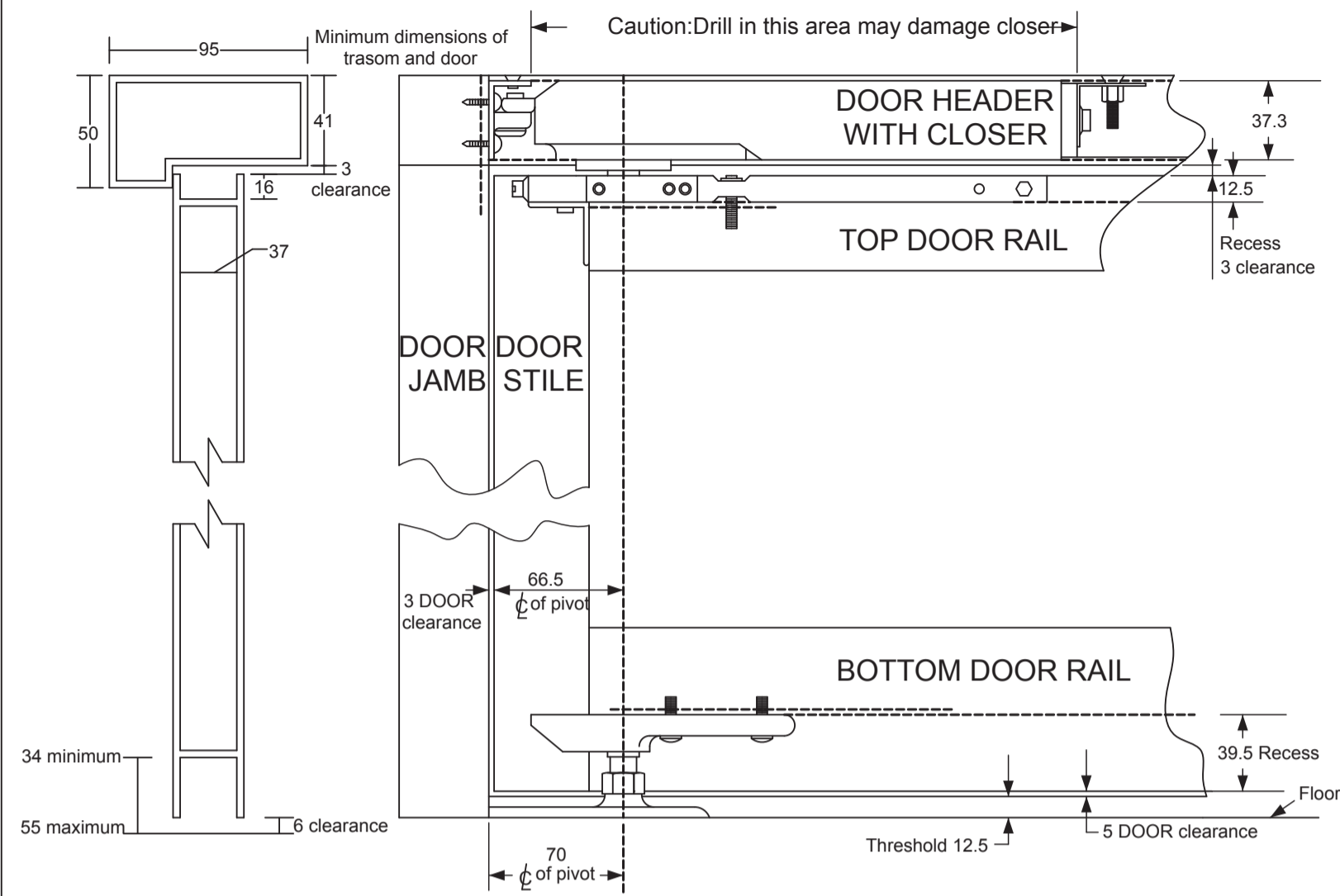## To Adjust The Door Closing Speed



HOLD OPEN OPTIONS

Adams Rite   ASSA ABLOY

1   2

90°
130°
15°
15°
130°
90°
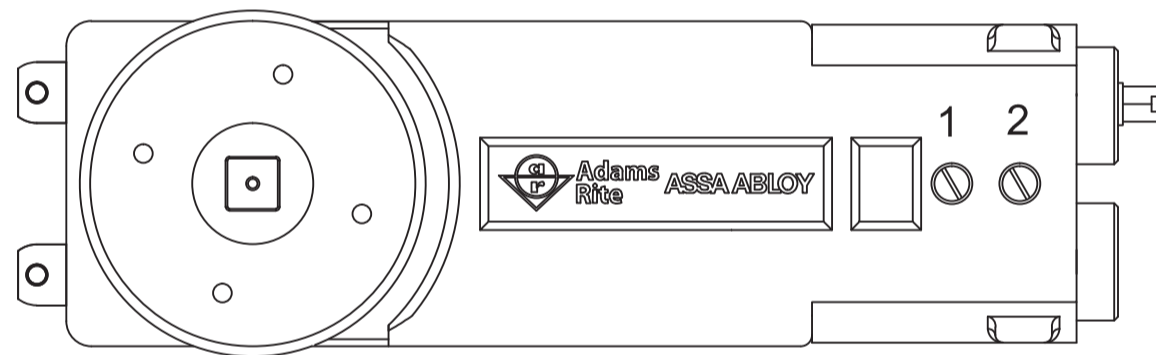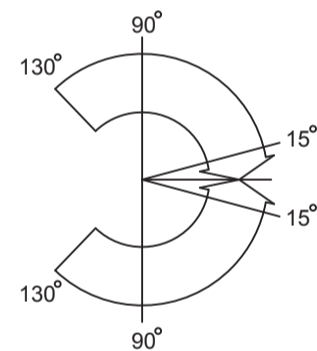
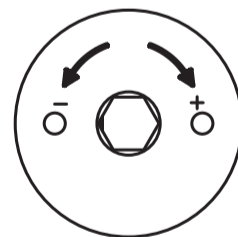### Closing Speed Adjustment



1    2
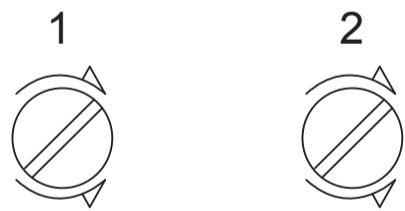
Turn Clockwise for Slower Speed
Anti-Clockwise for Faster Speed

### Power Adjustment



Use 8mm Open end wrenches

| Size 1 | Size 2 | Size 3 | Size 4 |
|--------|--------|--------|--------|
| +0 | +1 - +4 | +5 - +7 | +8 |

Factory preset to size 1(+0)

### CLOSING RANGE



130°
1
15°
2
2
15°
1
130°
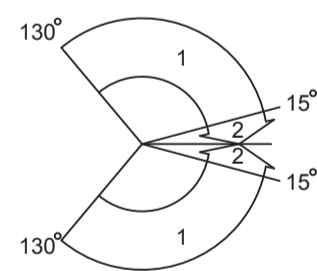
1.CLOSING RANGE
2.LATCHING RANGE

## To Erect The Door

As supplied the square pivot of the closer sits in the central (closed )position.Using grips and suitable leverage rotate the square pivot to the 90 degrees position.In the case of an NHO closer wind the closing speed adjuster in fully to give sufficient time to load the door into position.

Holding door at approximately 15 degress position ,lower onto the pivot bolt and swing the door into the vertical position locating the closer spindle into the arm recess.

Note:To ease the hanging of single action doors it may be necessary to temporarily remove the door stop if already fitted. wedge the door in position and fit the arm clamp block with the 2 No. socket head screws and conical lock washers (F ). Use allen key provided to tighten block down securely.

Fit tag plate to top rail cut-out. Align door to jamb and meeting stile by adjusting bolts(C ).

Fit final fixing screw in bottom pivot shoe and tighten all fixings securely.

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# Fitting Instructions

**ARC-51N VARIABLE Overhead Door Closer for Centre Pivoted Applications**
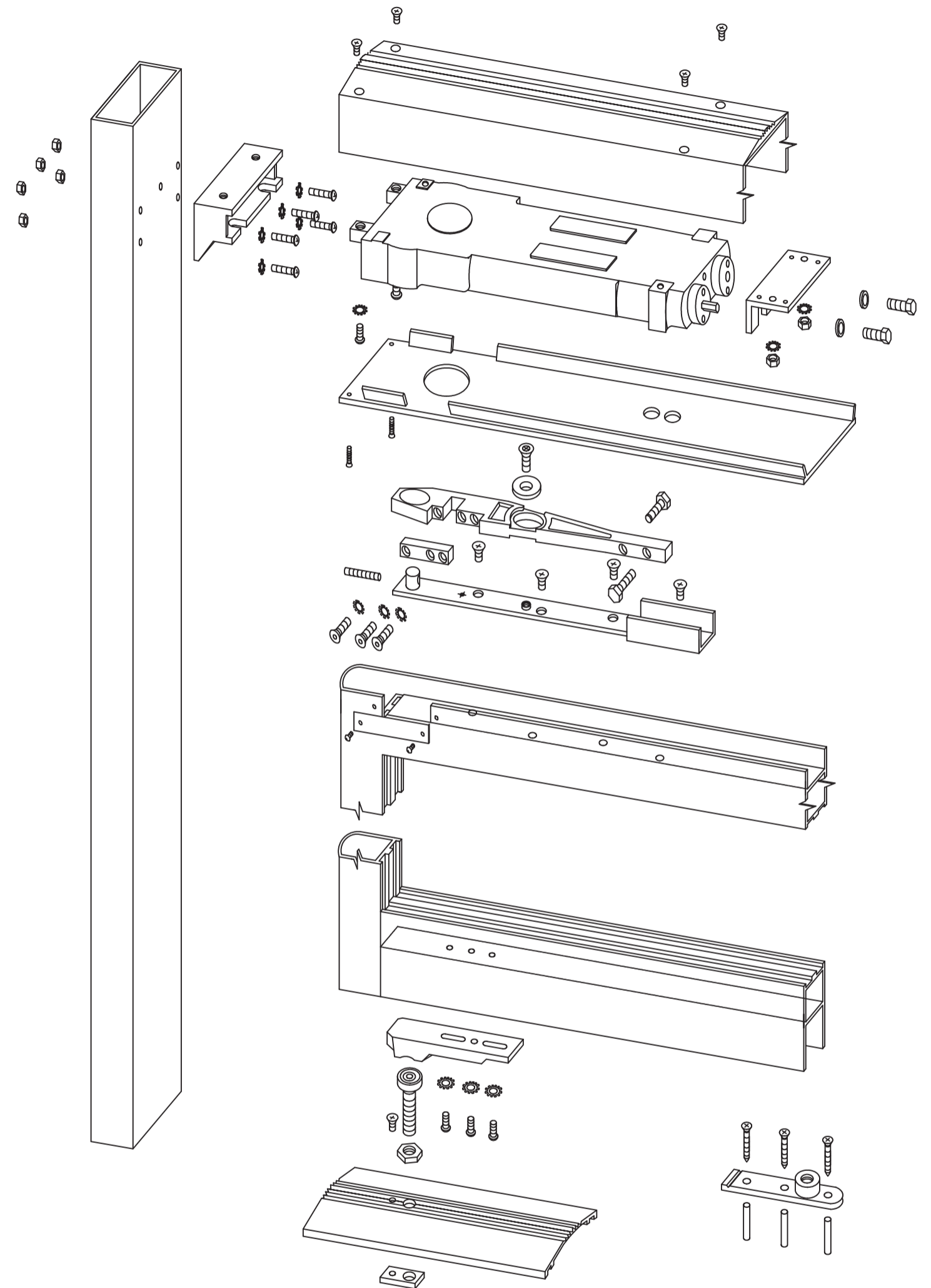


NOTE : 1.For Side-Load & End-Load(AFT )installation,please refer to Page 2.
2.The thread of all fixings should be applied with Loctite 222 or  similar and securely fastened.

### Contents

ASSA ABLOY Security Solutions
School Street,Willenhall,West Midlands WV13 3PW
Phone: +44(0)845 873 4838

## Option for Arm Installation

### ①



( B )
( D )
( C )
( A )
JAMB
82  149  215  283
11
18
39
66  7
44
57

### Side-Load Top Arm and Channel, 70mm Pivot Point

Prepare the top rail of the door as detailed, ensuring that the internal faces of the stile and top rail have been cut away to enable the closer spindle to be engaged during door hanging.

Drill 7mm hole in the heel of the door giving access to the adjustment screw ( C ) .

Fit steel arm channel to the door top rail Using the 4No. M6 csk screw ( A ) .

Fit the adjustment screw ( C ) into the channel post and the 2No. alignment bolts into the arm.

Place the arm into the channel and fit the large countersunk washer and socket head screw ( B ) .

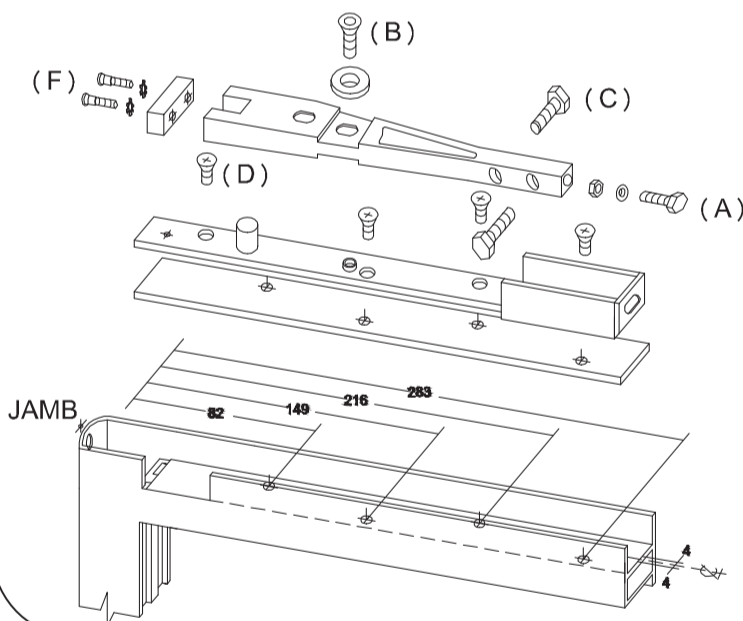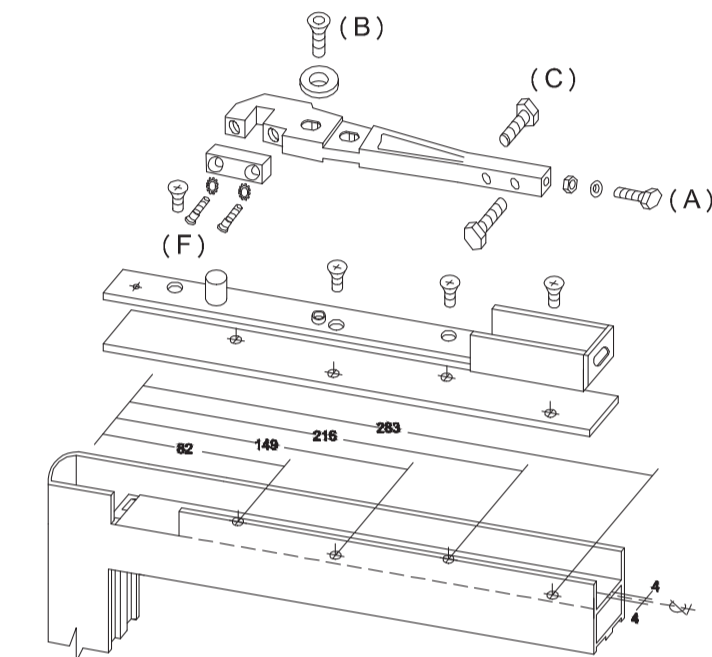Slide the arm centrally over the pre-punched pivot mark in the channel and adjust position with screw ( C ) .

Unwide alignment bolts ( D ) equally on the stell channel Upstands. Tighten all fixings.

### Side-Load AFT Top Arm and Channel, 70mm Pivot Point



( B )
( C )
( A )
( F )
82  149  216  283

Prepare the top rail of the door as detailed, ensuring that the internal faces of the stile and top rail have been cut away to enable the closer spindle to be engaged during door hanging.

Drill 7mm hole in the heel of the door giving access to the adjustment screw ( C ) .

Fit steel arm channel to the door top rail Using the 4No. M6 csk screw ( A ) .

Fit the adjustment screw ( C ) into the channel post and the 2No. alignment bolts into the arm.

Place the arm into the channel and fit the large countersunk washer and socket head screw ( B ) .

Slide the arm centrally over the pre-punched pivot mark in the channel and adjust position with screw ( C ) .

Fit the 2No. Allen screws and the conical washers ( F ) affter the door has been hung. Tighten all fixings.

### End-Load Top Arm and Channel, 70mm Pivot Point



( F )
( B )
( C )
( D )
( A )
JAMB
82  149  216  283

Prepare the top rail of the door as detailed, ensuring that the internal faces of the stile and top rail have been cut away to enable the closer spindle to be engaged during door hanging.

Fit steel arm channel to the door top rail Using the 4No. M6 csk screw ( D ) . Fit the 2No. alignment bolts ( C ) into the arm.

Place the arm into the channel and fit the large countersunk washer and socket head screw ( B ) .

Slide the arm centrally over the small pivot point hole in the rear of the channel and adjust position with screw ( A ) .

Fit the 2No. Allen screws and the conical washers ( F ) affter the door has been hung.

( see the section entitled To Erect The Door for details)

Tighten all fixings.

### Bottom Pivot Assembly, 70mm Pivot Point



JAMB
98.5
121
143
( E )
Alternative method of fixing to metal thresholds
Jamb
Note:1 full turn equals 2mm adjustment
Jamb
15
45
93
52
70

Prepare the bottom rail of the door to accommodate the pivot shoe with 2No. drilled and tapped M6 holes at 98.5mm and 143mm centres.

Fit pivot shoe to underside of door, through the slotted holes with 2No. M6x10mm round head screws and lock-washers.

The centre hole should be drilled and tapped on site when correct alignment of the door has been achieved.

THIS FINAL FIXING MUST BE USED.

If an aluminium threshold is being used prepare as shown below.

The 5mm thick plate is held in position by the M5 countersunk screw and the pivot bolt can be installed. Determine the correct height of the pivot and tighten the locknut.

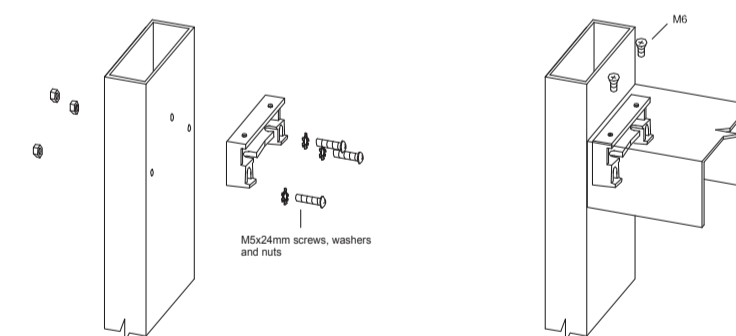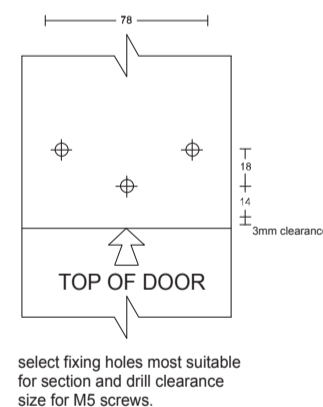If the bolt protrudes below the base of the threshold excess must be removed or the floor level drilled accordingly.

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## Transom/Header Bar, 70mm Pivot Point



318
70
c / s for M6
c / s for M6
M6
M6
84
c / s for M4
45
10
70
55
18
M4
Bracket.
Grub screws to be securely fastened once closer is in position

### Hinge Jamb



① 
62
78
18
14
3mm clearance
TOP OF DOOR
select fixing holes most suitable for section and drill clearance size for M5 screws.
M5x24mm screws, washers and nuts
M6

② 
For 65mm bracket
78
18
18
14
3mm clearance
TOP OF DOOR
select fixing holes most suitable for section and drill clearance size for M5 screws.
M5x24mm screws, washers and nuts
M6

### For the front bracket, there are two options ① or ② as shown above depending on the bracket type required.

Prepare transon/header bar and cover plate to accept closer as detailed below. Fit jamb bracket to jamb with the 5 No. M5x24mm screws, washers and nuts.

Drill clearance holes and countersink header bar for 2No. M6x10mm screws and 2No. M6x15mm CSK bolts.

Fit steel angle bracket to header bar using the 2No. M6x15mm bolts, locking washers and nuts.

Locate the 2 fixing lugs into jamb bracket and raise the rear end of the closer into position.

Fit the 2 No. M6x15mm Hexagon head bolts and flat washers through the angle bracket and the 2No. M6x15mm round head screws and lock washers into the closer lugs.

Once the 70mm pivot centre has been achieved fasten the M6 bolts securely. Centralise the closer.