Tilt-A-Door™
ONE PIECE OVERHEAD GARAGE DOOR

INSTALLATION INSTRUCTIONS
Heavy Duty Track Fittings

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General

Heavy Duty Track Hardware is recommended for double and triple width doors of heavy construction.
For single width doors or doors of a light construction refer to J type or 150T Track Hardware installation instructions.

Model 250T is suitable for doors up to 144kg
Model 300T is suitable for doors up to 136kg
Model 250T Commercial is suitable for doors up to 114kg
Model 300T Commercial is suitable for doors up to 136kg

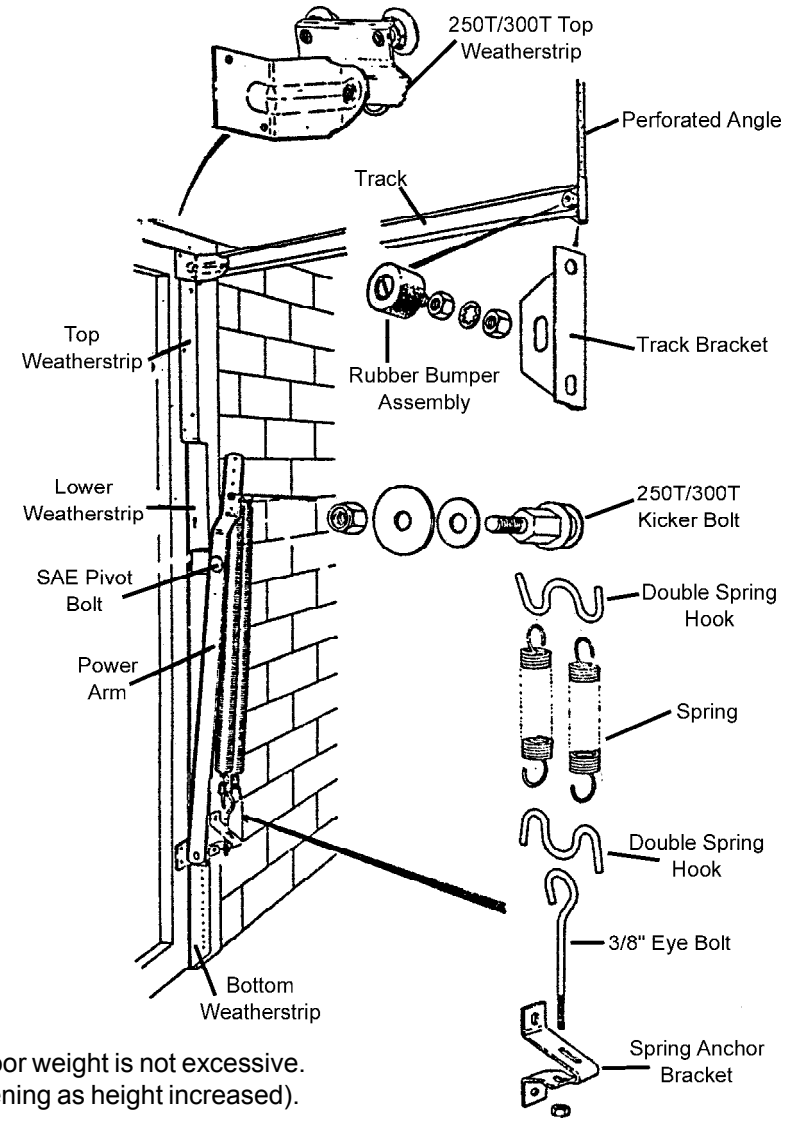
When ordering Model T equipment always specify whether the fitting is to be applied to a metal framed door or timber framed door.

Locksets will be supplied as a Separate Item and must be ordered as such if required.

Specifications

	250T	300T
Minimum Height of Door	1980mm	2290mm
Maximum Height of Door	2290mm	2740mm
Maximum Weight of Door (Using Double Springs)	114kg	136kg
Maximum Weight of Door (Using Single Springs)	68kg	68kg
Min Headroom required above Doorway	64mm	64mm
Min. Side Clearance doorway to wall	89mm	89mm
Max. width of door dependent only on weight	.....	.....
Depth of projection tracks into garage	2006mm	2310mm
Weight of equipment when packed	43kg	47kg

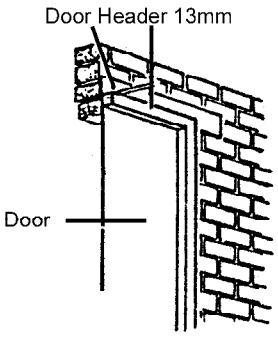
Short Arm Fitting	250T
Minimum Height/Door	1760mm



Note: Maximum height can be exceeded provided door weight is not excessive.
(Bottom of door will project proportionately out of opening as height increased).

Step 1
Frame Door Opening

Use softwood timber ($2\frac{3}{4}$" x $2\frac{3}{4}$" minimum). If securing timber jambs to brick work, leave heads of bolt flush or below face of jamb.

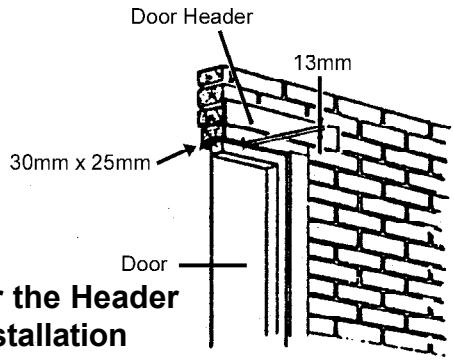


Lap Header Installation

Build door same size as door opening height
(Allow 13mm head overlap and
13mm space at bottom of door)

Under the header installation should be used in situations of absolute minimum headroom. Lap header installation provides desirable weathersealing features. Both types of installation work equally as well.

Fasten top weatherstrip with 12g x $1\frac{1}{2}$" self tap screws.



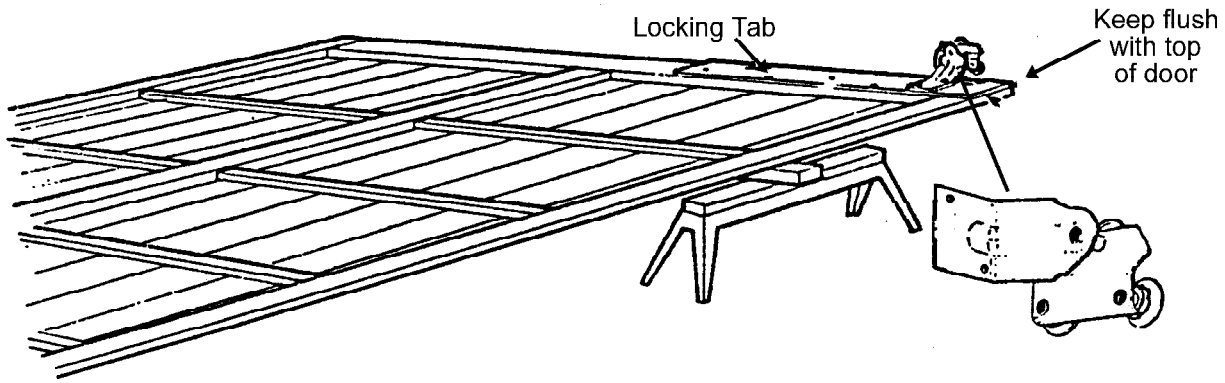
Under the Header Installation

Build door 25mm shorter than
door opening height
(Allow 13mm top and bottom of door.)

Step 2
Install Top Weatherstrips

Fix top weatherstrip to door stile with 12g x $1\frac{1}{2}$" self tap screws. Top of weatherstrip should be flush with top edge of door.

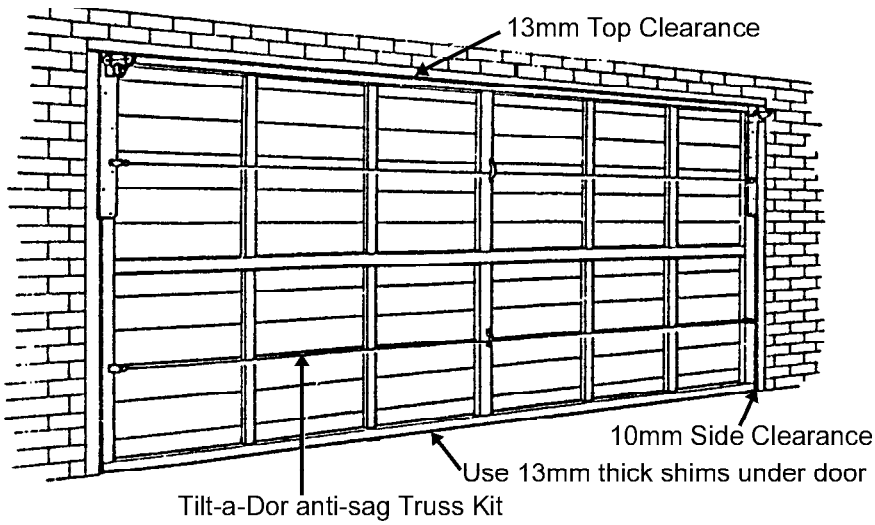
Locating tabs on the rear of the top weatherstrip determine the position of weatherstrip along stile of door.



Step 3
Position Door in Opening

13mm clearance top and bottom of door, and 10mm clearance either side between door and door jambs.

Place door in opening and elevate with 13mm shims



Step 4
Installation of Tracks

Install tracks at right angles to door but with slight fall to back. The rear end of the tracks should be 50mm lower that where the back is attached to the door jamb. Be sure to hold track tightly up against wheels when attaching track to door jamb.
Wheels must ride in V-section of track. Install vertical track straps only.
Install rubber bumper to rear and inside of tracks.

NB Fixing track sets with limited sideroom (Down to 2 3/4" jamb.)
(i) Loosely bolt track bracket which will allow track/bracket to be fitted or slid over the trolley wheel.
(ii) Fix track bracket in top hole only.
(iii) Open door.
(iv) Fully fix bracket to jamb and tighten track to bracket usintg 5/16" x 2 1/2" coach screws.

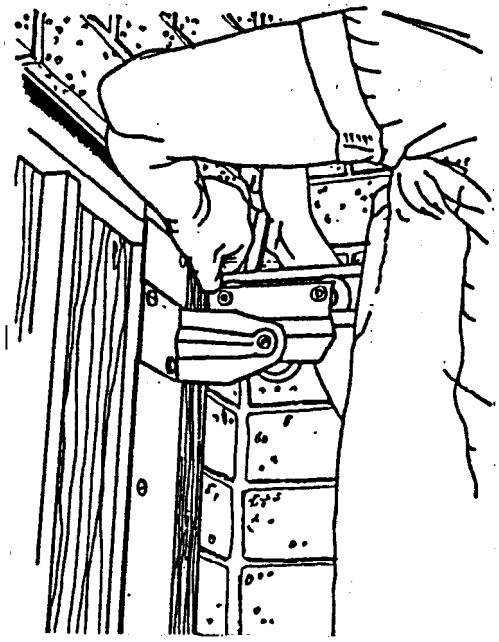
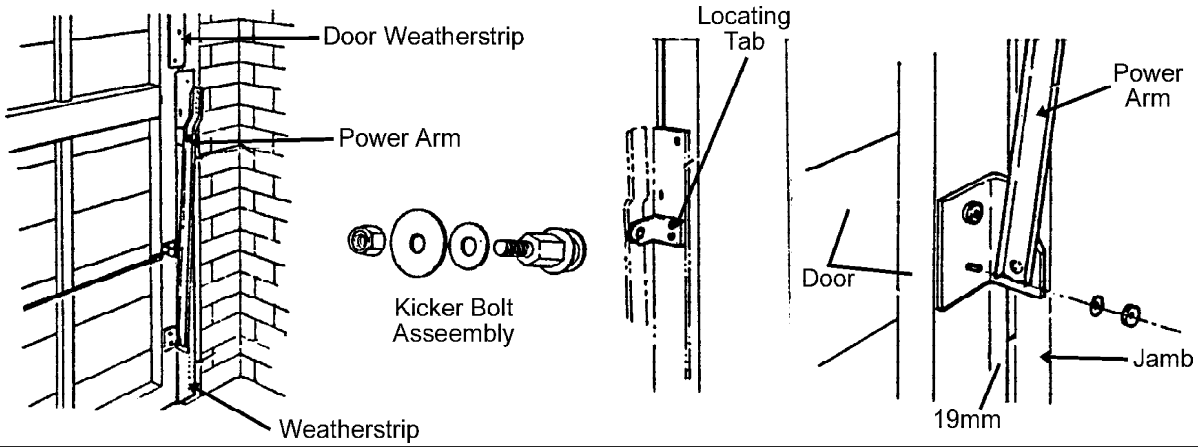


Illustration showing fixing of track bracket using 5/16" x 5/8" counter sunk screw. P/N 2671

Step 5
Installing Power Arms

Attach power arm and weatherstrip assembly to door jamb and to door, using 12g x 1 $^{1}/_{2}$" self tap screws, $^{3}/_{8}$" x 2 $^{1}/_{2}$" coach screws and $^{5}/_{16}$" x $^{3}/_{4}$" set screws.
Position bottom weatherstrip 3mm from top weatherstrip.

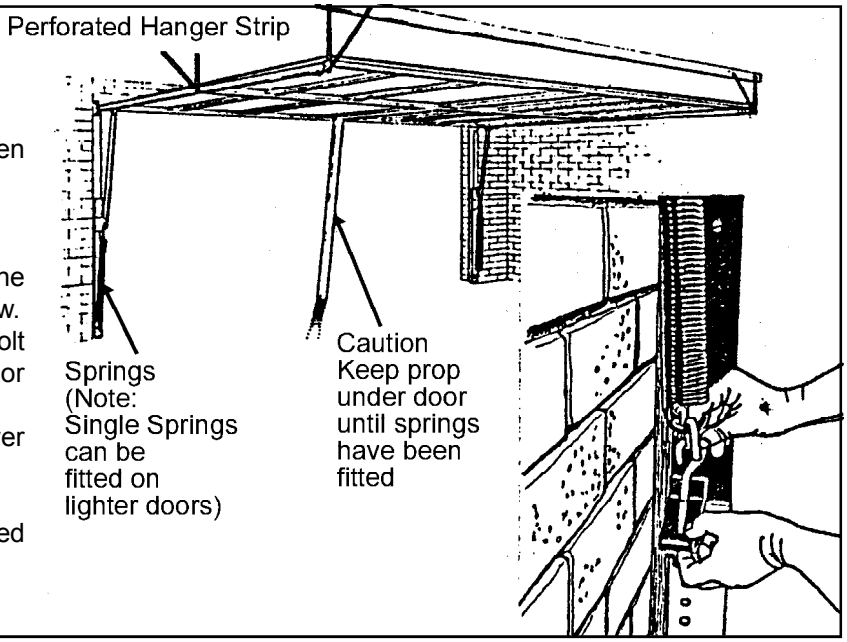
If door is under 2130mm high cut bottom weatherstrip from floor to required length.
Locating tabs on rear of bottom weatherstrip determines position of weatherstrip along stile.
Power arm foot should be installed 19mm in from edge of door.
Attach and fasten kicker bolt to power arm.



Step 6
Installing Springs

• Swing door overhead and firmly prop in the open position
• Attach spring to kicker bolt
• Attach eye bolt to spring bottom
• Fasten spring anchor bracket 12mm beyond the end of the eye bolt with 5/16" x 2 1/2" coach screw.
• Remove spring from kicker bolt and fasten eye bolt to anchor bracket (extending 12mm through anchor bracket)
• Attach spring (stretching) to kicker bolt on power arm.

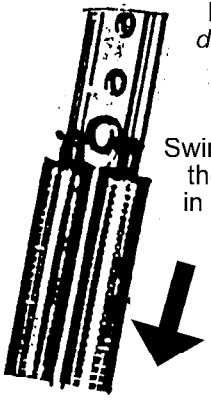
Attach Braces
Install diagonal track braces ensuring tracks are fixed art right angles to door and parallel to each other.



Step 7
Adjustment

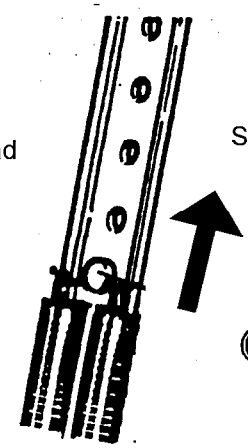
Connect hole in power arm securing kicker bolt to power are can only be determined by experiment. If the door is hard to pull down move the kicker bolt up the power arm.

If the door comes down too easily, move the kicker bolt down the power arm (door in open position).
Further adjustment can be made by loosening or tightening the hook bolt secured to the door jamb.



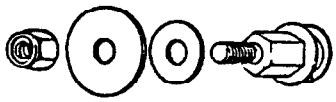
If door comes *down* too easily

Swing door overhead then move spring in direction shown



If Door is *Hard* to pull down ...

Swing door overhead then move spring in direction shown



Kicker bolt assembly

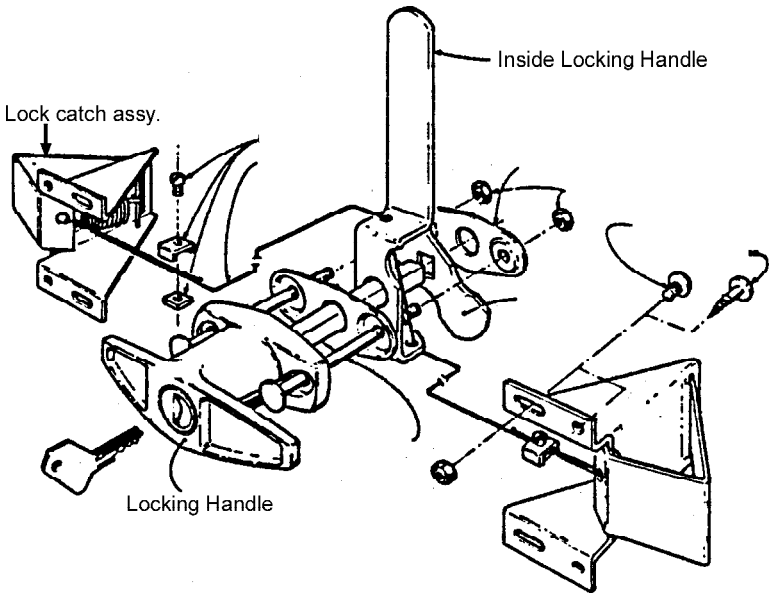
Step 8
Install Lockset

Do not install lockset if automatic operator is to be applied to door.

No.1 Lockset si supplied for doors up to 3000mm wide. No.2 Lockset is supplied for doors up to 5800mm wide.

Longer lock cable can be supplied as required. Unlike J hardware, striker plate is provided bottom weatherstrip and separate door stop is not applied. Lock catches lock behind bottom weatherstrips.

For details on lockset installation refer to the sheet provided.



Small Parts 250T (Wood)

Part	Quantity	Part	Quantity	Part	Quantity
Rubber Bumper "T"	2	Washer 3/8" ID x 100 x 16g	38	Coach Screw 5/16" x 1 1/2"	8
Starlock Washer 3/8"	2	Nut 3/8" BSW Hex	2	Self Tap Screw 12g x 1 1/2"	20
Nut 3/8" BSW Hex	4	Spring Anchor Bracket	2	Eye Screw B6	1
Screw 3/8" BSW x 1 1/2CSK	2	Eye Bolt 3/8"	2	Spring Coupling	4
Track Bracket Hanger	4	Screw 5/16" BSW x 5/8" CSK	4	Set Screw 5/16"BSW x 3/4" Hex ID	4
Starlock Washer 5/16"	4	Coach Screw 5/16" x 2 1/2"	6	Nut 5/16" BSW Hex	16
		Coach Screw 5/16" x 2 1/2"	8		