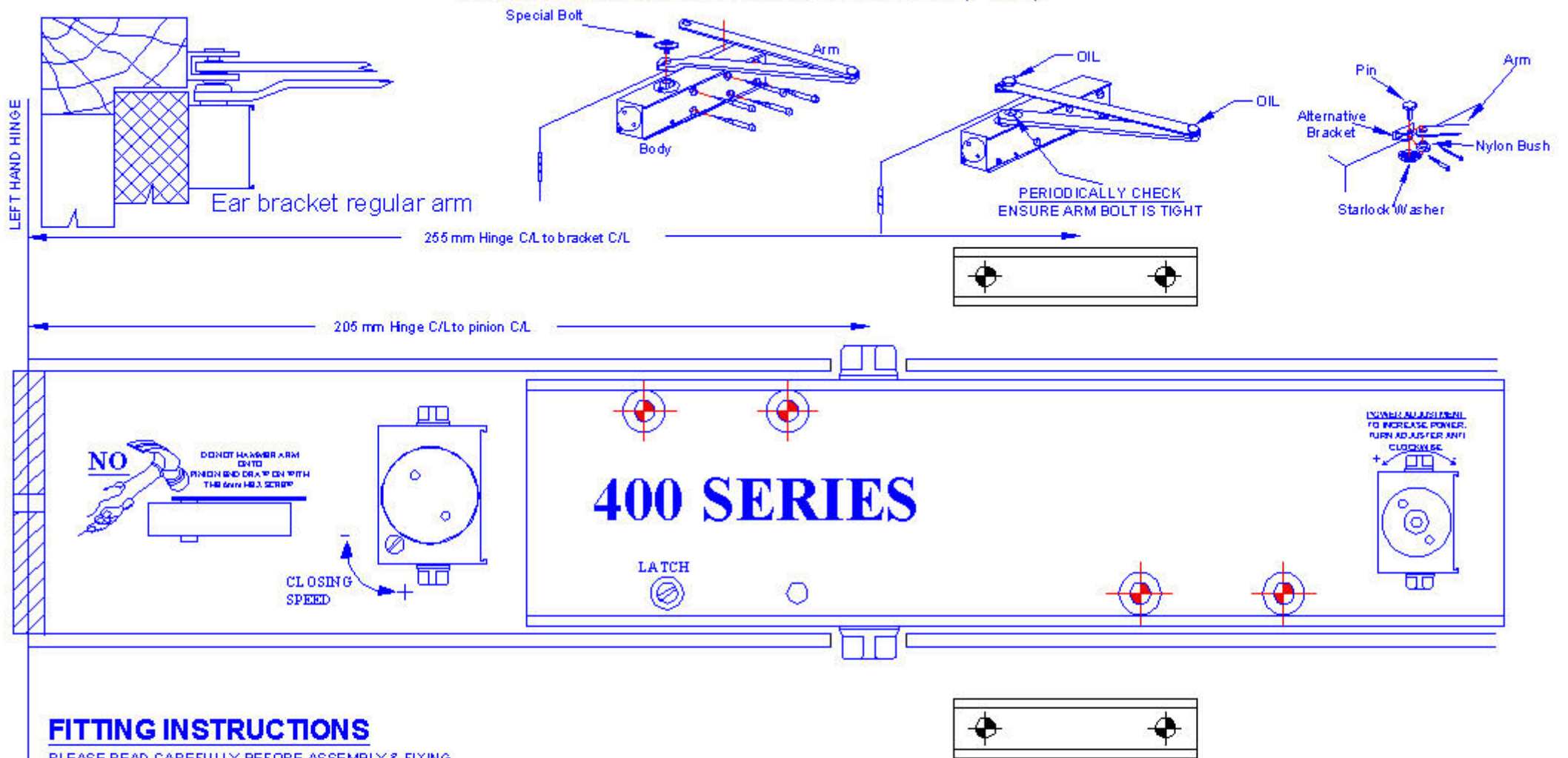


REGULAR/STANDARD ARM APPLICATION (FIG. 1)

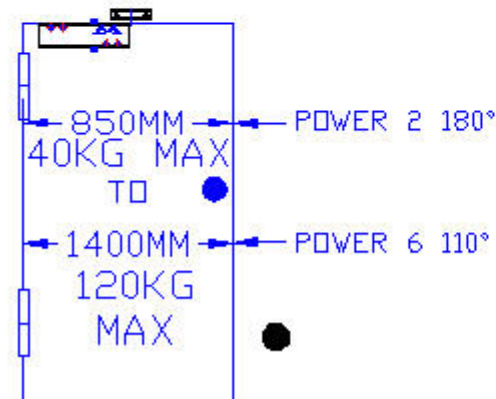


FITTING INSTRUCTIONS

PLEASE READ CAREFULLY BEFORE ASSEMBLY & FIXING

1. Using the template to position the arm bracket, drill 2 pilot holes . Using the 2 1" wood screws, secure the arm bracket. Centre line of the bracket to hinge should be 255mm.
2. Still using the template, drill pilot holes and screw on the door closer body. Centre line of pinion should be 205mm from door hinge.
3. Fit arm to closer using the Special M6 bolt, fit arm to bracket using nylon bush, arm pin and starlock washer.
4. To adjust the closing power use the hex key supplied, clockwise to decrease power, anti-clockwise to increase the power.
5. Set door and latch speed, do not overscrew door speed and latching adjuster from fully closed more than 1.1/2 turns.
6. Periodic maintenance is very important, making sure body and arm are secure, and oiling the arm joints regularly.

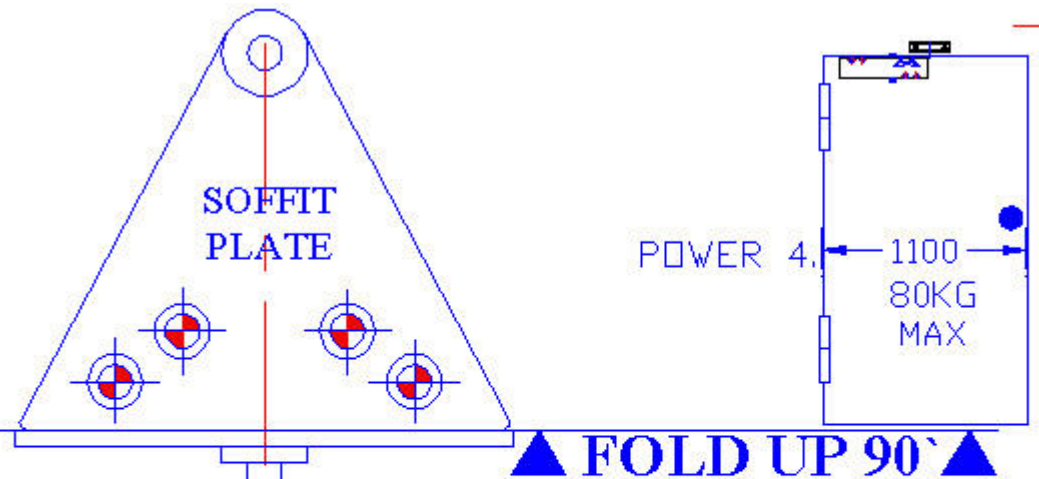
RIGHT HAND HINGE



OPEN OUT (FIG.6)

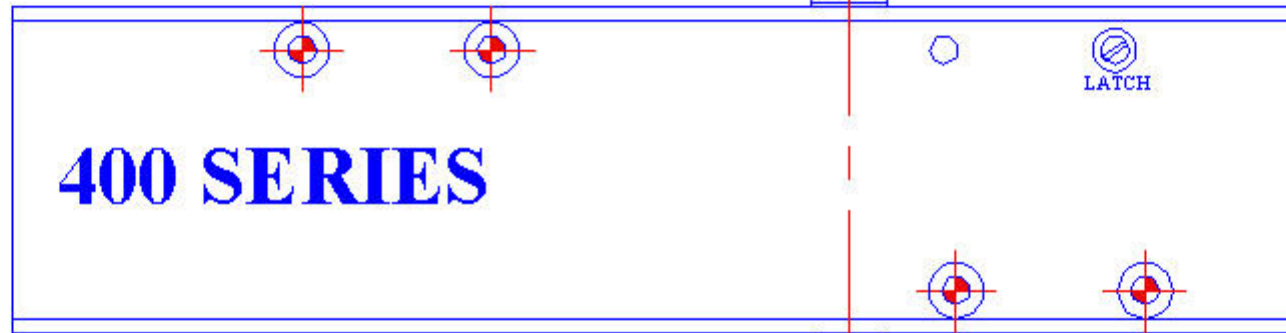
LEFT HAND HINGE

Use this side of the template for parallel arm application. The door closer pinion and the centre line of the soffit plate will be positioned 230mm from the door hinge. This position gives optimum opening/closing efficiency as well as 180° angle of door opening.
 The closer can be fitted further away from the hinge to increase the closing power, but this will also increase the effort required to open the door as well as decrease the angle of door opening.
 Door closers fitted in fig.6 parallel do not, due to arm geometry, transmit power to the door as effectively as closers fitted in fig.1 regular application.
 For parallel arm application on external doors opening out, door closers with backcheck facility should be used to protect against possible damage from high winds.



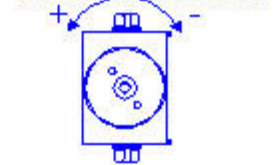
▲ FOLD UP 90° ▲

230MM

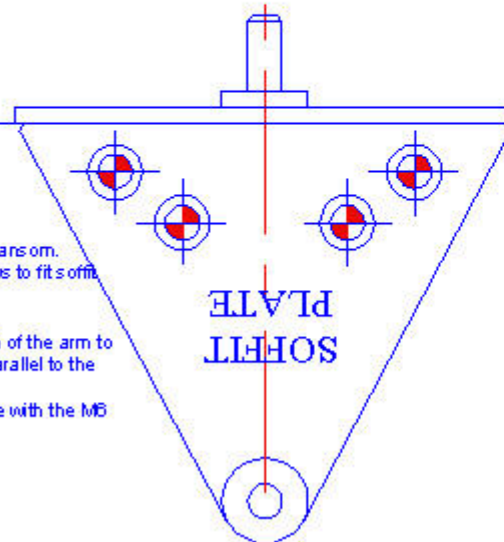


400 SERIES

LOWER ADJUSTMENT TO INCREASE POWER TORY ADJUSTER ANT CLOCK WISE



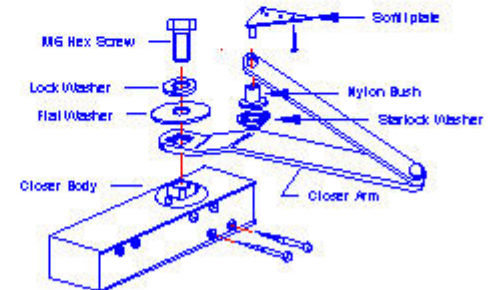
▼ FOLD UP 90° ▼

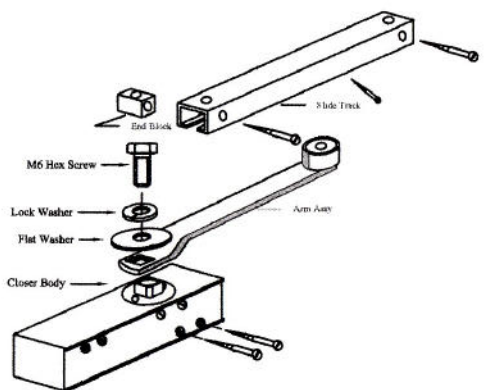


RIGHT HAND HINGE

FITTING INSTRUCTIONS- PARALLEL ARM (FIG.6)

1. First fold the template 90° up along the transom line shown and mark hole positions in the door underside of transom.
2. Drill 3mm pilot holes and screw the closer body to the door with the 2.1/2" Posidrive screws. use 1" C'sk screws to fit soffit plate to soffit.
3. Secure closer arm to the pinion with the M6 hex screw.
4. Attach arm to soffit plate and secure with the domed starlock washer. If fitting an adjustable arm, set the length of the arm to be 255mm between the centre of the elbow joint and centre of the nylon bush in order that the closer arm lies parallel to the door.
5. Adjust closing speed and latching controls before sliding on the optional facia plate. Fit pinion cover and secure with the M6 C'sk screw or fit all over cover with two M4 domed headed screws.





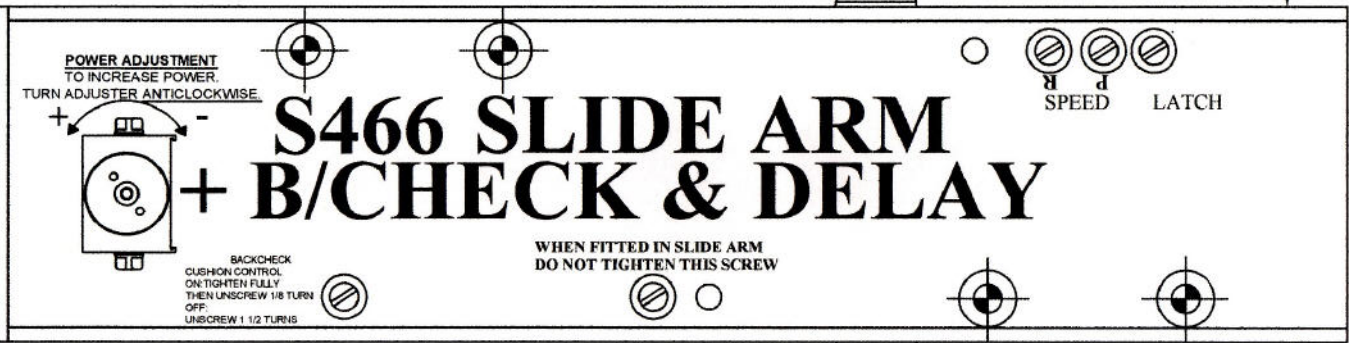
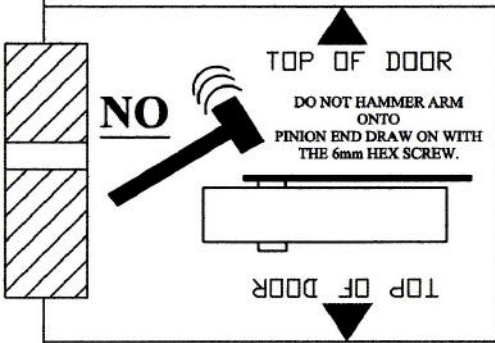
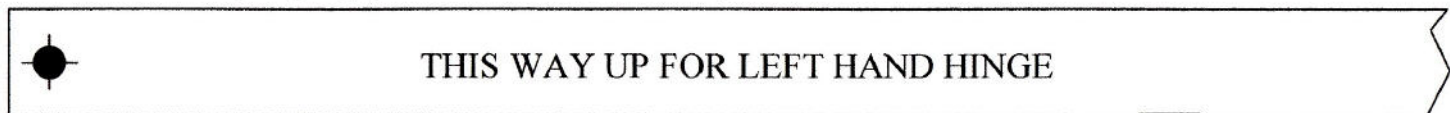
FIXING INSTRUCTIONS (FIG.1.)

PLEASE READ CAREFULLY BEFORE ASSEMBLY & FIXING

1. Using the template, drill holes and screw on the door closer body. Centre line of pinion should be 235mm from the door hinge.
2. At this point slide the black roller on arm into the slide track channel.
3. Using the template, drill holes and screw on the slide track. Remember to fit end blocks and centre fixing screws. End of track should be level with the end of the body and 22mm from the top of the closer body to the bottom of the track.
4. Using a 12mm open ended spanner on the bottom end of the pinion turn it slightly to match the square on the pinion to the square on the arm, press arm on to the pinion.
5. Open the door a small amount to enable the arm to be bolted on to the closer using the 6mm bolt, spring washer and plain washer.
6. This closer is fitted with delay action, follow these instructions [A] fully screw in the delay, speed and latching screws. [B] open the door. [C] slightly unscrew the delay to enable the door to move. [D] adjust speed, followed by latching. [E] return to the delay and adjust to suit. When adjusting delay, speed and latch do not unscrew from fully closed more than 1.1/2 turns.

BACKCHECK

Backcheck is a device built into the door closer which applies a hydraulic brake during the opening cycle to check the movement of the door beyond 90°. Tightening the cushion control will strengthen the bracking effect. Unscrewing the cushion control will weaken the braking effect, if unscrewed by 1.1/2 turns from closed it will turn the backcheck facility off.



INSTALLATION NOTES
 THIS TEMPLATE IS DESIGNED TO POSITION THE CLOSER AND SLIDE SUCH THAT 110° MAX OPENING IS ACHIEVED.
 NOTE 1/ WHEN FITTED IN FIG 6. MAX DOOR OPENING IS 100°. NOTE 2/ IT IS IMPORTANT TO FIT A DOOR STOP.

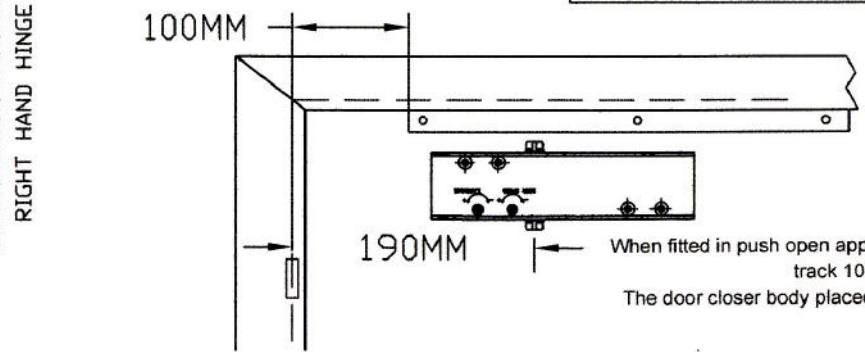
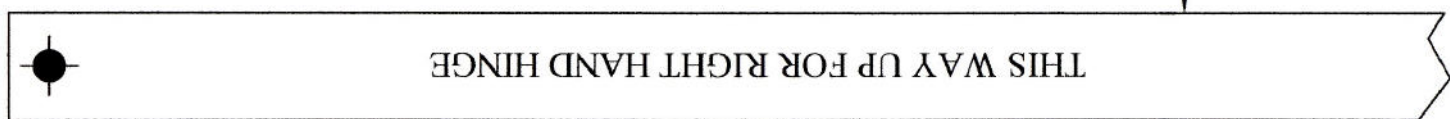


FIG 6.APPLICATION

When fitted in push open application (FIG.6) Place the slide track on the under side of the transom, the end of the track 100mm away from the door hinge c/line and against the door face. The door closer body placed on the door with the adjuster screws nearest the hinge and the c/line of the pinion 190mm from the hinge. (see diagram)

