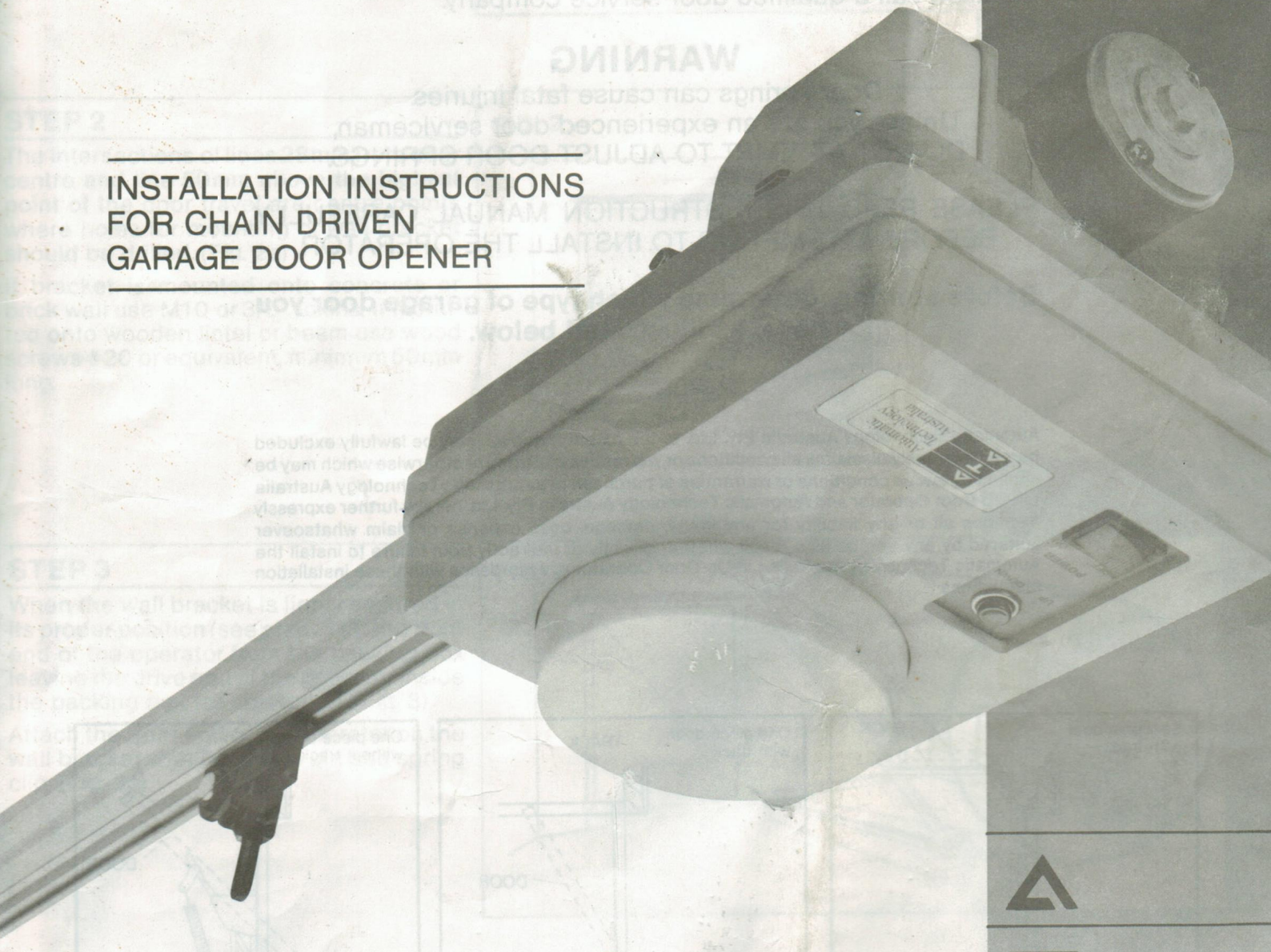
AUTOMATIC TECHNOLOGY AUSTRALIA

GARAGE DOOR OPENER SYSTEM

INSTALLATION INSTRUCTIONS FOR CHAIN DRIVEN GARAGE DOOR OPENER



Automatic
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DOOR MUST BE IN GOOD OPERATING CONDITION:

The door operator cannot move a garage door that is in poor condition. The door should operate freely with no binding or obstruction in its travel and must be well balanced. **CHECK** the spring balance of your door by bringing the door to the half open position and leaving it there. If the door stays in that position, it is balanced. If it moves more than a few centimeters, the door possibly needs further adjustment. Before an operator is installed call a qualified door service company.

WARNING

Door springs can cause fatal injuries.
Unless you are an experienced door serviceman,
DO NOT ATTEMPT TO ADJUST DOOR SPRINGS.

PLEASE READ THIS INSTRUCTION MANUAL CAREFULLY BEFORE ATTEMPTING TO INSTALL THE OPERATOR.

Before starting, determine which type of garage door you have, as illustrated below.

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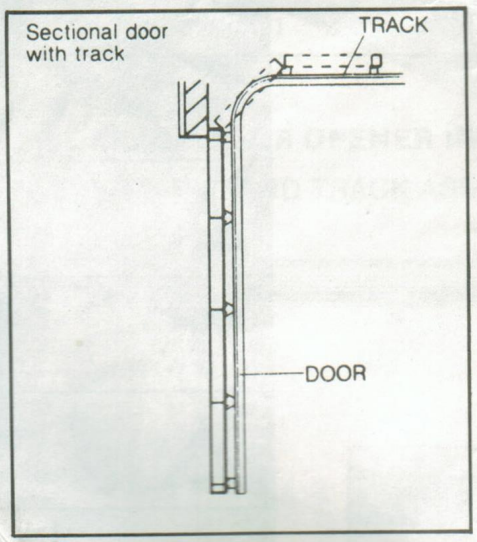
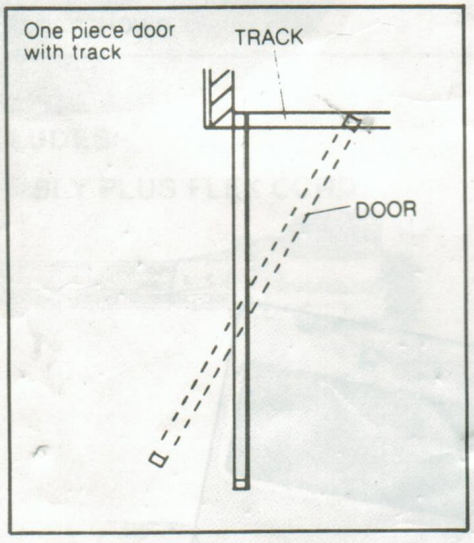
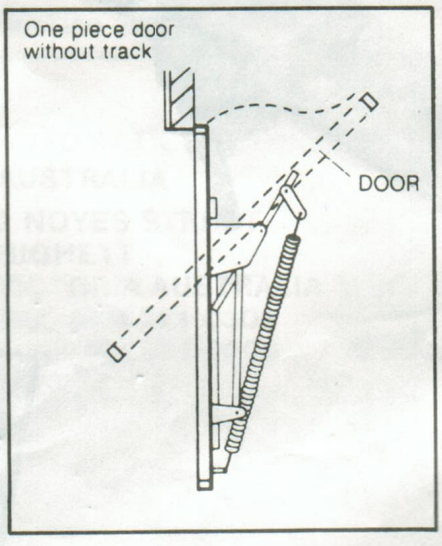


Proceed from Step 1



Proceed from Step 1



Proceed from Step 5

STEP 1

Open the door and find the highest point of travel of the top door panel. Using a level, transfer this height to the wall above the door. (Fig. 1)

Then mark a line 50mm above the transfered line of the highest point of the door. (Fig. 2)

Determine the centre of the door and mark this location on the wall above the door and on top of the door. Then draw two (2) lines 28mm on each side of door centre. (Fig. 2a)

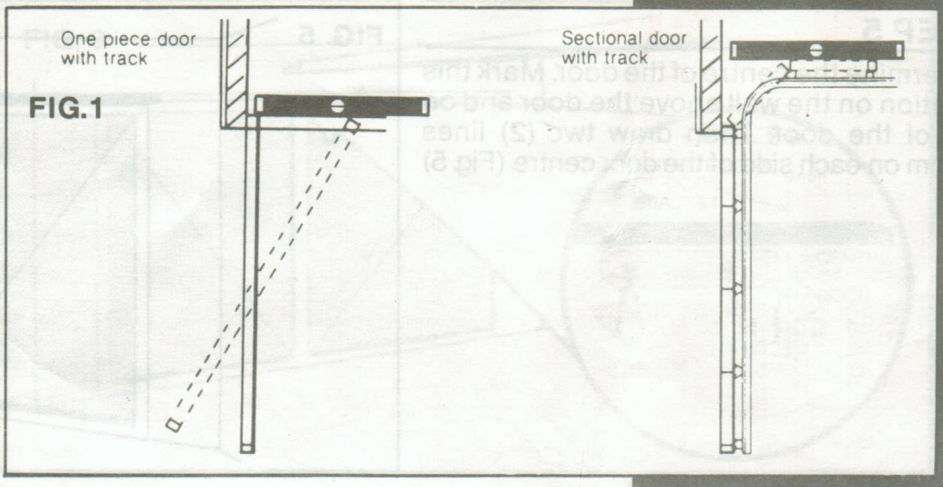


FIG.1

STEP 2

The intersections of lines 28mm from door centre and line 50mm above the highest point of the door travel are centre points where holes for mounting of wall bracket should be drilled. (Fig. 2a)

If bracket is mounted onto concrete or brick wall use M10 or 3/8" loxins. If mounted onto wooden lintel or beam use wood screws #20 or equivalent, minimum 50mm long.

FIG. 2

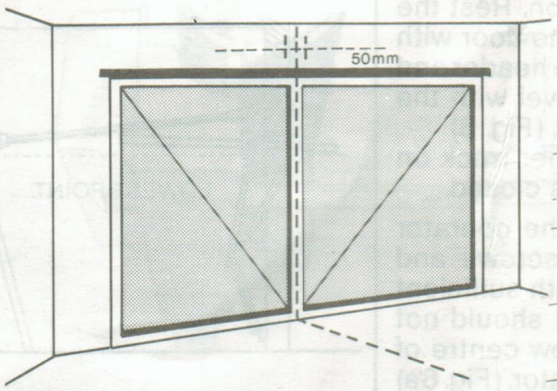
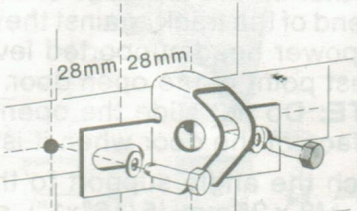


FIG. 2a



STEP 3

When the wall bracket is firmly secured in its proper position (see step 2) lift the front end of the operator from the packing box leaving the drive end of the operator inside the packing box for protection. (Fig. 3)

Attach the front end of the operator on the wall bracket with the clevis pin and spring clip. (Fig. 3a)

FIG. 3

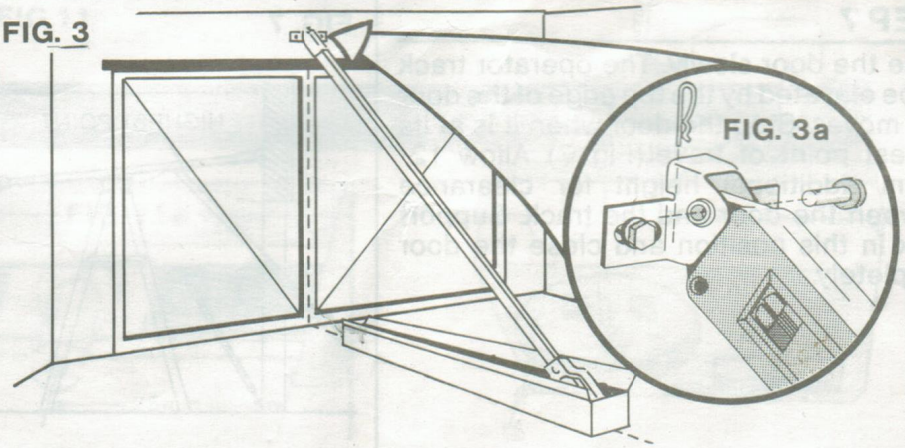


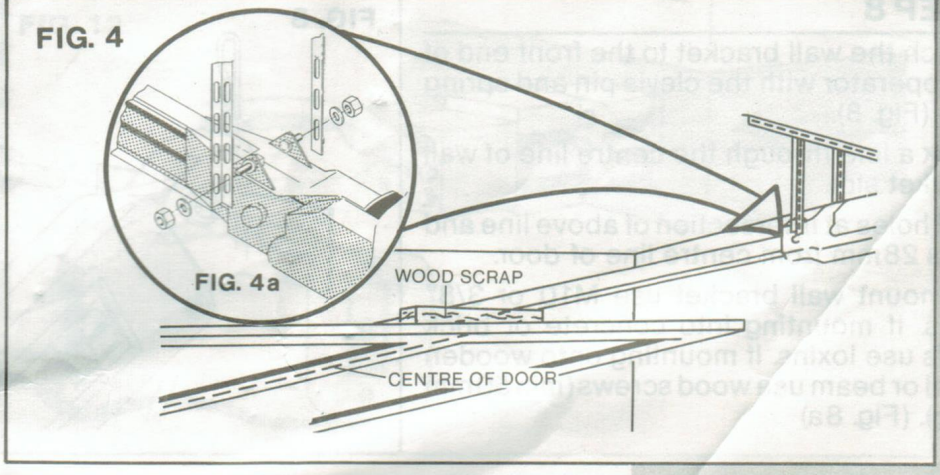
FIG. 3a

STEP 4

Raise the drive end of the operator from the packing box and support it in a horizontal position with a step ladder, then open the garage door. Rest the operator on the door and use a wood scrap to bring it to horizontal level. Line up the track with the centre line on top of the door. (Fig. 4)

Attach the angle support to the operator with M8 x 25mm (5/16"x1") screws and nuts and fix it to the ceiling with sufficient anchoring. The angle bracket should not extend more than 30mm below centre of the mounting hole on the operator. (Fig. 4a)

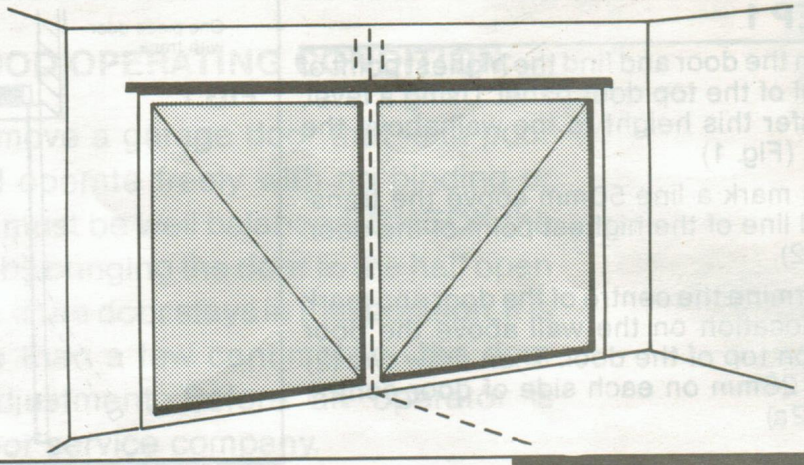
FIG. 4



STEP 5

Determine the centre of the door. Mark this location on the wall above the door and on top of the door. Then draw two (2) lines 28mm on each side of the door centre. (Fig. 5)

FIG. 5

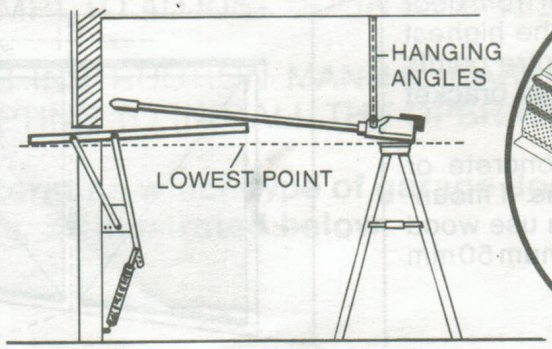


STEP 6

Raise the door to open position. Rest the operator on the top edge of the door with the end of the track against the header and the power head supported level with the lowest point of the open door. (Fig. 6)
NOTE: Do not slide the opener track on the face of the door when it is closed.

Attach the angle support to the operator with M8 x 25mm (5/16"x1") screws and nuts and fix it to the ceiling with sufficient anchoring. The angle bracket should not extend more than 30mm below centre of the mounting hole of the operator. (Fig. 6a)
Do not lock screws at this stage.

FIG. 6



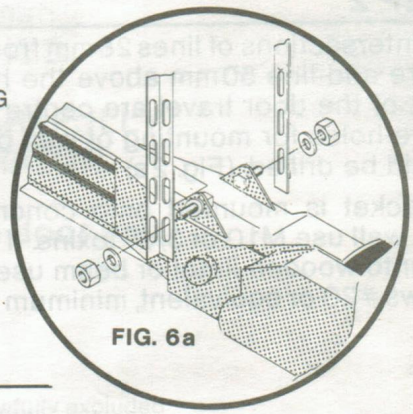
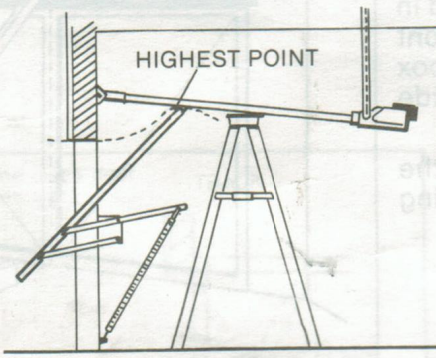


FIG. 6a

STEP 7

Close the door slowly. The operator track will be elevated by the top edge of the door as it moves. Stop the door when it is at its highest point of travel.(Fig. 7) Allow 12-25mm additional height for clearance between the door and the track. Support track in this position and close the door completely.

FIG. 7



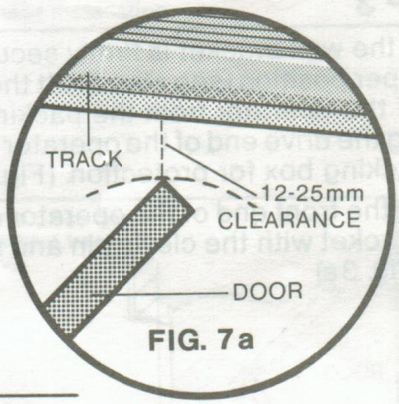


FIG. 7a

STEP 8

Attach the wall bracket to the front end of the operator with the clevis pin and spring clip. (Fig. 8).

Mark a line through the centre line of wall bracket slot.

Drill holes at intersection of above line and lines 28mm from centre line of door.

To mount wall bracket use M10 or 3/8" bolts. If mounting into concrete or brick walls use loxins. If mounting onto wooden lintel or beam use wood screws (min 50mm long). (Fig. 8a)

FIG. 8

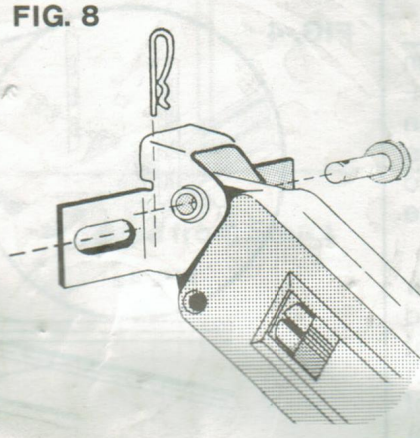
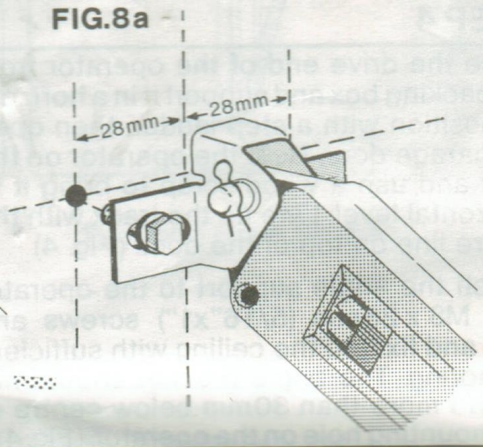


FIG.8a



STEP 9

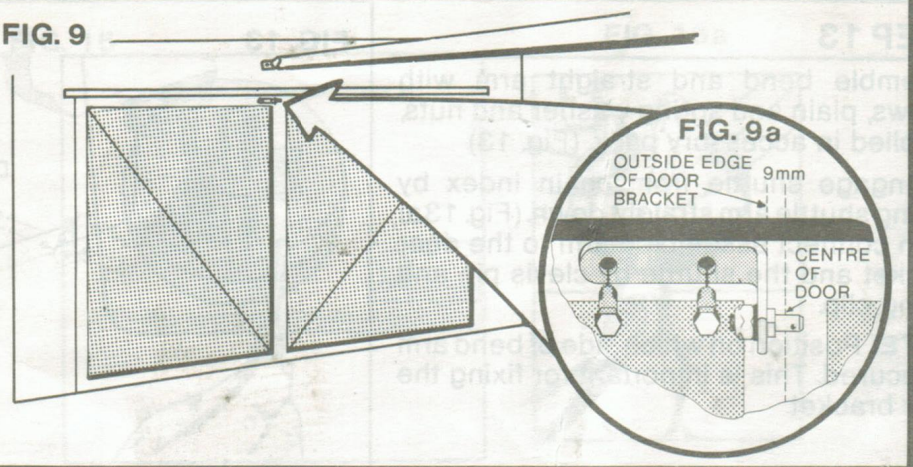
For mounting of the door bracket use bolts M8 or 5/16" (not supplied), alternatively this can be welded on steel doors.

The door bracket should be mounted so that the outside edge of the door bracket is approximately 9mm from the centre line of the door. (Fig. 9a)

Now secure the door bracket by one of the methods above.

NOTE: As various types of doors and installations exist, reinforcement has to be added where necessary or if in doubt about the strength of the door.

FIG. 9



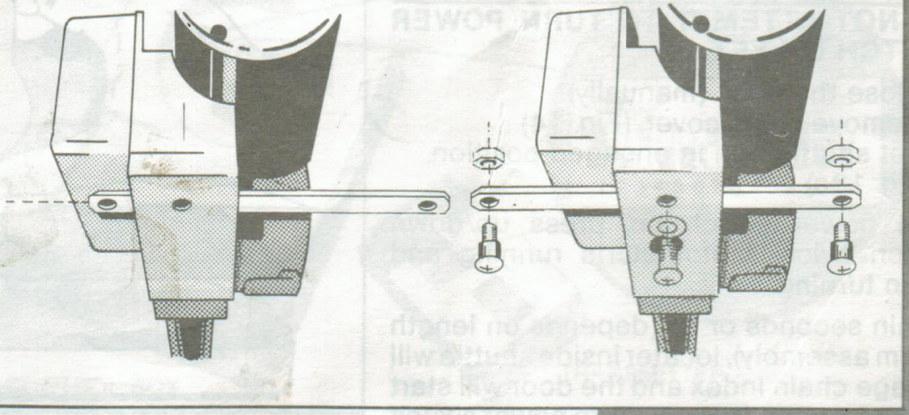
STEP 10

ASSEMBLING CONTROL BOX TO MECHANICAL DRIVE ASSEMBLY.

Insert flat bar 5x20x190 through rectangular slot in drive casing. Secure flat bar by one shoulder screw with spring and plain washer through provided hole in the centre of the casing. Lock tightly. (Fig. 10)

Then screw in the other two shoulder screws at each end of the flat bar so the head of the screw is facing the floor. Secure by enclosed nuts. (Fig. 10)

FIG. 10



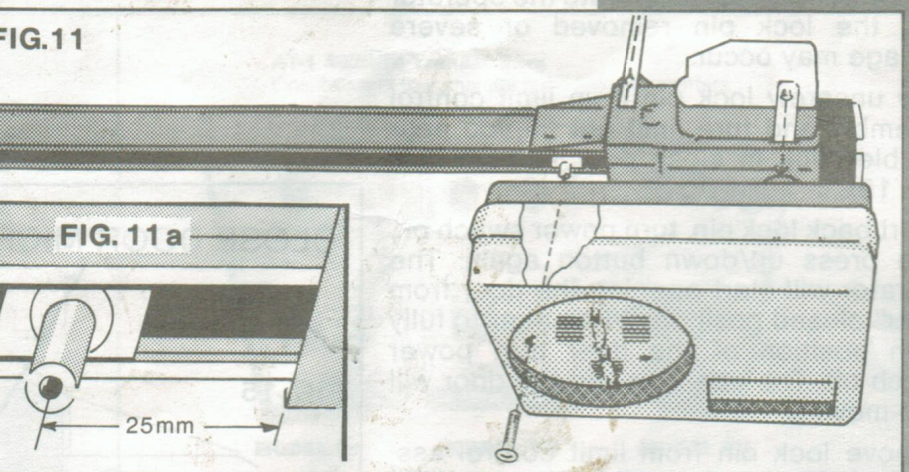
STEP 11

Position the sliding clamp located in the track about 25mm from the end of the drive head. (Fig. 11a)

Take control box and remove the light diffuser. Locate control box on the two shoulder screws on the flat bar and sliding clamp in the track and then slide it in the direction away from the door.

Once the head of shoulder screws are engaged in the base part of the control box, engage sliding clamp into control box and secure it by inserting the M5 x 45mm screw through the hole under the light diffuser where the sliding clamp was located. Then tighten the screw.

FIG.11



STEP 12

To fit the bell switch, locate it in desired position in garage and affix to wall.

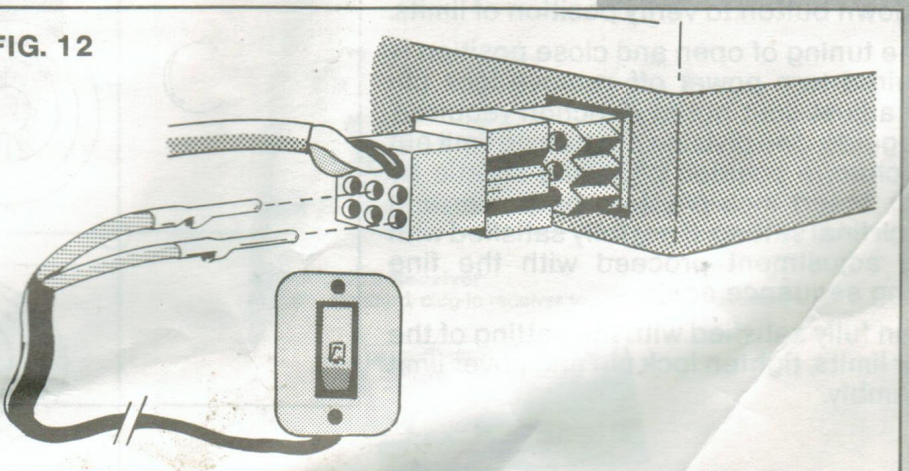
Insert the two (2) wires supplied with the bell switch into the plastic fitting as shown. (Fig. 12)

WARNING: Failure to install bell lead wire as shown could lead to damage to the control box.

Fit the black wire lead to control box taking care when plugging into plastic fitting. It will only go together in one position.

Plug power lead to power point.

FIG. 12



STEP 13

Assemble bend and straight arm with screws, plain and spring washer and nuts, supplied in accessory pack. (Fig. 13)

Disengage shuttle from chain index by pulling shuttle arm straight down. (Fig. 13a) Then connect assembled arm to the door bracket and the shuttle by clevis pin and spring clip.

NOTE: Position on which side of bend arm is secured. This is important for fixing the door bracket.

FIG. 13

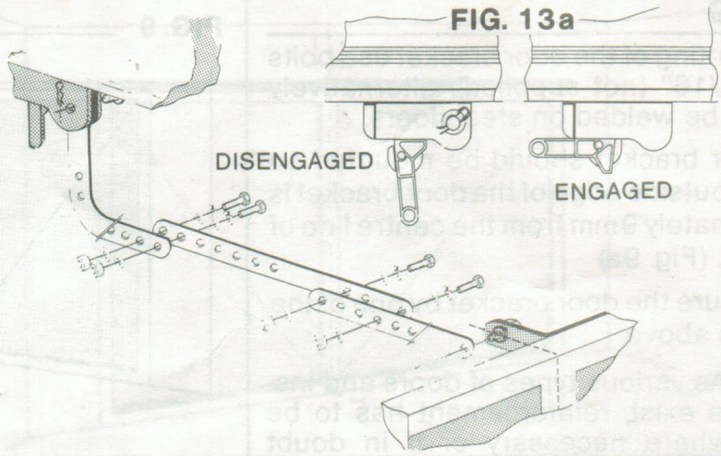


FIG. 13a

STEP 14

DO NOT ATTEMPT TO TURN POWER SWITCH ON YET.

a) Close the door. (manually)
b) Remove limits cover. (Fig. 14)
c) Set shuttle arm in engaged position. (Fig. 13a)

Turn power switch on, press up/down button twice. Motor starts running and chain turning.

Within seconds or so (depends on length of arm assembly), locater inside shuttle will engage chain index and the door will start to open. In that instance turn power switch off.

IMPORTANT: Never operate the operator with the lock pin removed or severe damage may occur.

Now unscrew lock pin from limit control assembly and turn limit nut till you hear audible click in close door microswitch. (Fig. 15)

Insert back lock pin, turn power switch on, then press up/down button again. The operator will start opening the door from "near" closed position. When near to fully open position of the door turn power switch off. The operator and the door will stop moving.

Remove lock pin from limit control assembly and turn limit nut til you hear audible click in open door microswitch. Insert back lock pin and turn power switch on. Press up/down button to verify position of limits.

If fine tuning of open and close position is required turn power off, remove lock pin and adjust limit nut in direction required. As a guide, one division of a turn on limit nut will change position of sliding shuttle by 8mm. Insert lock pin, turn on power and check final setting. If not fully satisfied with limit adjustment proceed with the fine tuning sequence again.

When fully satisfied with the setting of the door limits, tighten lock pin and cover limit assembly.

FIG. 14

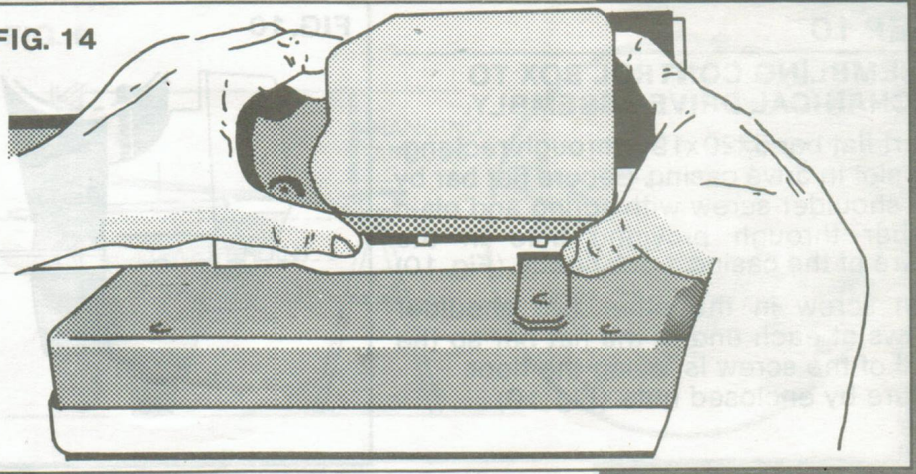
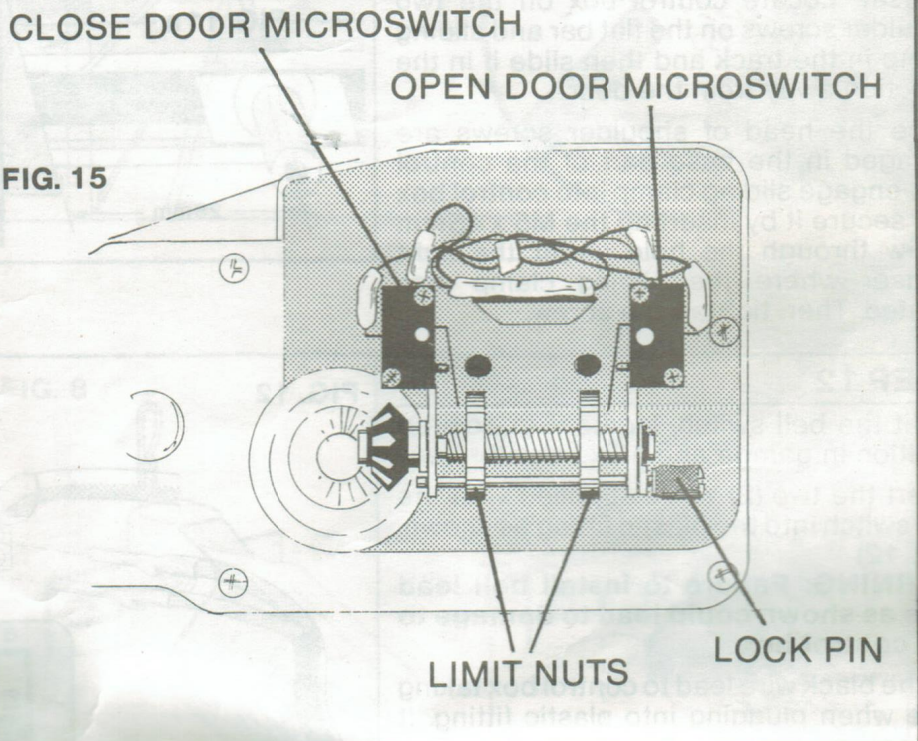


FIG. 15



STEP 15

The reversing sensitivity has to be adjusted with a small screwdriver. (Fig. 16)

A clockwise turn of the dial reduces the required pressure to make the door reverse. (Fig. 16a)

An anticlockwise turn of the dial increases the required pressure to make the door reverse.

Check the numerical code on the receiver is identical with the code inside the hand transmitter. Numbers may be correspondingly changed at will by moving small switches up or down with a pen or similar instrument. (Fig. 17)

Test operation of remote control with handset. Fit light diffuser on control box with light pressure and turning motion.

Your operator has now been installed. Do a final inspection to check that all screws and bolts are secured and that all welds are complete.

FIG. 16

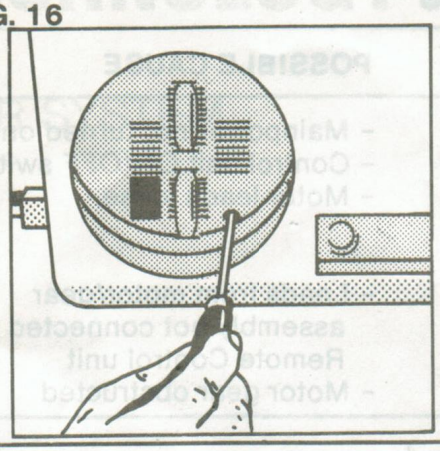


FIG. 16a

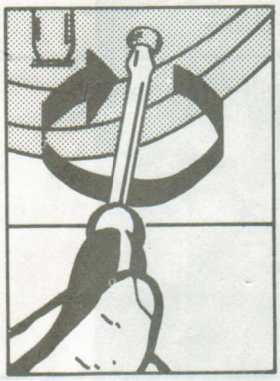
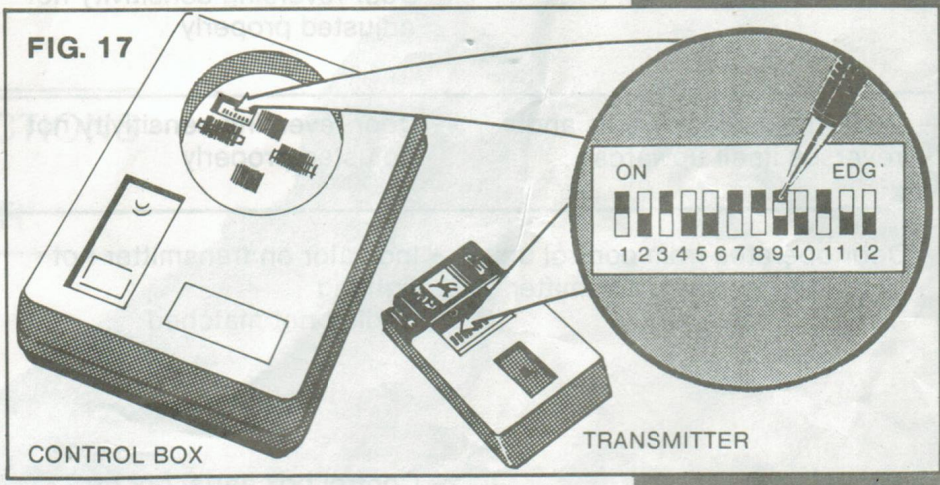
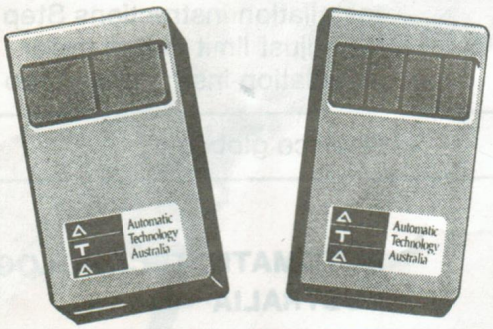


FIG. 17



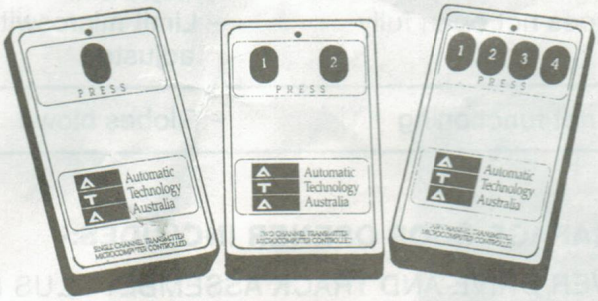
ACCESSORIES

TX SERIES
Two and four channel standard transmitters



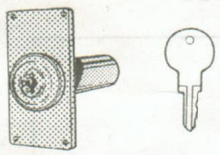
MODEL TXA-2 MODEL TXA-4

AT-1 SERIES Transmitters
One, two and four channel hand-held transmitters.

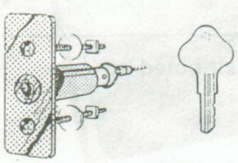


MODEL T-1 MODEL T-2 MODEL T-4

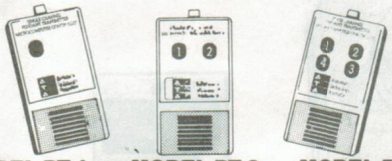
Electronic Keyswitch
For manual control.



Mechanical Keyswitch
For use in case of power failure.

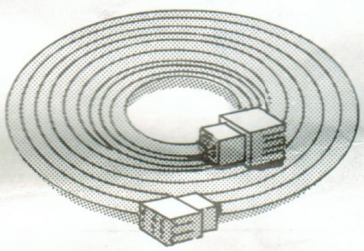


AT-1 SERIES Transmitters
One, two and four channel pendant transmitters.

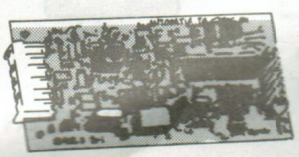


MODEL PT-1 MODEL PT-2 MODEL PT-4

Extension Cable
For wall mounting of control box.



AT-1 SERIES Receiver
Industry standard, plug-in receiver to suit AT-1 transmitters.



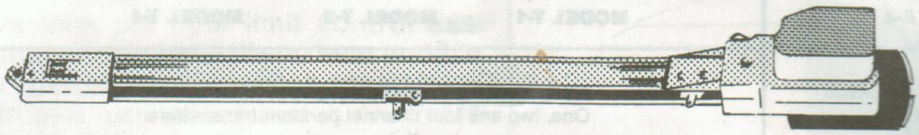
MODEL R-1

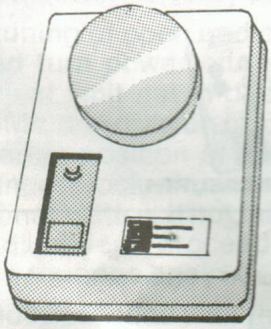
FAULTS AND REMEDIES

SYMPTOMS	POSSIBLE CAUSE	REMEDY
- Door will not operate	- Mainpower not turned on	- Turn on
	- Control unit ON/OFF switch off	- Turn on (red light appears)
	- Motor leads loose	- Check motor leads and micro switch leads. Reconnect if required
	- Leads from motor/gear assembly not connected to Remote Control unit	- Re-connect leads
	- Motor gear obstructed	- Remove obstruction
- Door is locked or motor jammed		- Unlock door
- Door will not reverse	- Door reversing sensitivity not adjusted properly	- Re-adjust reversing sensitivity (read installation instructions Step 15)
- Door moves downwards and reverses itself upwards	- Door reversing sensitivity not adjusted properly	- Re-adjust door reversing sensitivity in control unit (refer installation instructions Step 15)
- Door operates from control unit but not from hand transmitter	- Indicator on transmitter not lighting	- Battery faulty or battery leads broken
	- Coding not matched	- Check if numerical coding at receiver is identical with transmitter coding and make sure that the coding switches are fully engaged
	- Control box aerial not up	- Put aerial up
	- Control box surrounded by metal objects	- Re-position control box or remove metal objects
	- Battery flat	- Replace battery
- Door does not close fully	- Limit microswitch incorrectly adjusted	- Re-adjust limit switch (refer installation instructions Step 14)
- Door does not open fully	- Limit microswitch incorrectly adjusted	- Re-adjust limit switch (refer installation instructions Step 14)
- Lights not functioning	- Globes blown	- Replace globes

YOUR GARAGE DOOR OPENER INCLUDES:-

POWER DRIVE AND TRACK ASSEMBLY PLUS FLEX CORD





RECEIVER AND CONTROL UNIT

SINGLE CHANNEL TRANSMITTER

WALL SWITCH AND CORD

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