

ARCADIAN PRODUCTS

(2000) LTD

230 - 236 Barford Street, Highgate, Birmingham B5 7EP
 Tel: 0121 622 6332 & 0121 622 7022 Fax: 0121 622 4457
 Email: arcadianproducts@aol.com

DOOR LIFTING GEAR AP100

MULTI SPRING

Maximum Door Weight: 45kg (100lbs)

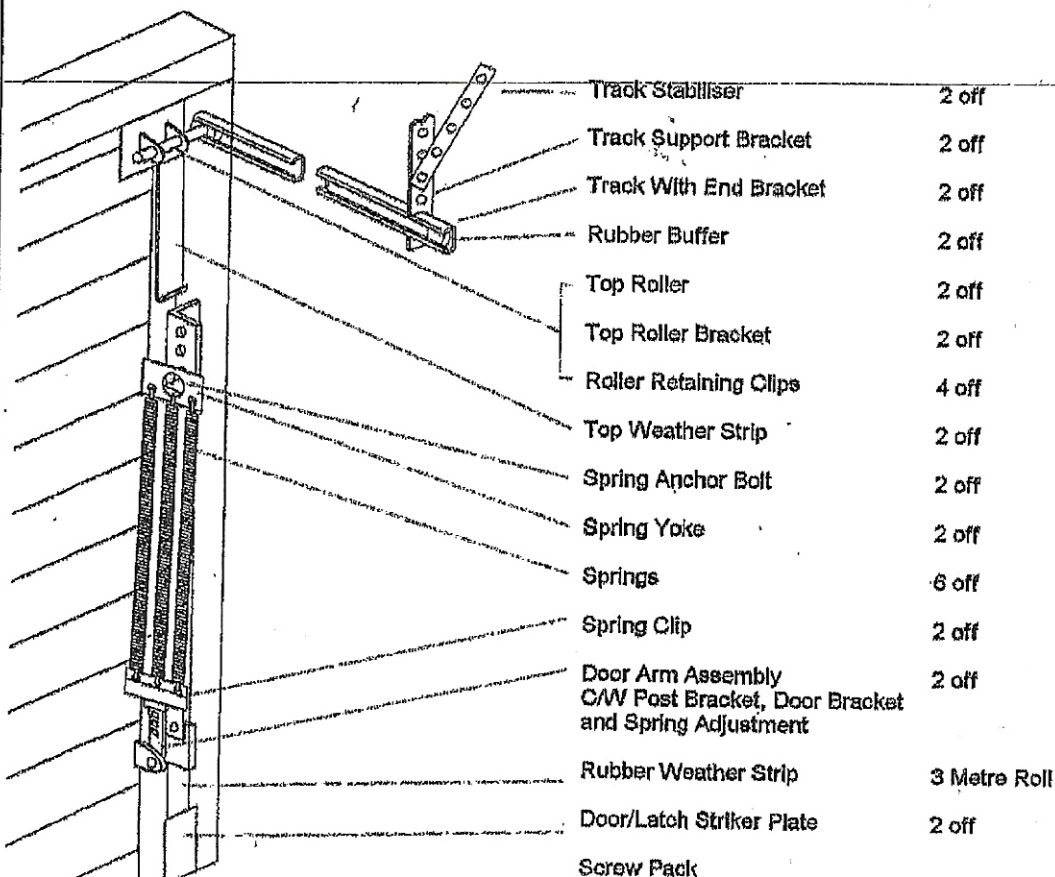
This door gear has been designed for quick and easy installation. Through careful design it is possible to adjust the door after installation for very smooth operation. To obtain these benefits read the instructions RIGHT through BEFORE installation

CAUTION

ALWAYS raise and prop the door in the open position before fitting, adjusting or removing the springs
 DONOT OPEN DOOR WITHOUT FITTING TRACK END STOPS SEE STEP 4
 All instructions are given from within the garage

NOTE. Although a confident D.I.Y person should be able to carry out this work we recommend that you engage the services of a specialist installer

Firstly unpack and identify the parts (right hand assembly shown)



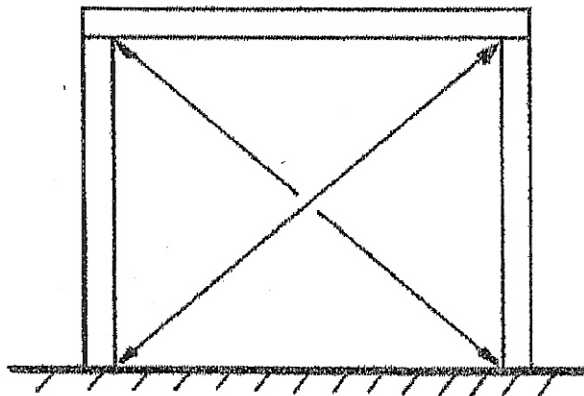
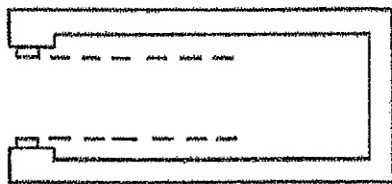
STEP 1 FRAME DETAILS

Recommended timber frame size 70mm x 70mm

Minimum frame size 50mm x 70mm

Frame must be square, check diagonals

Frame must also be square with opening

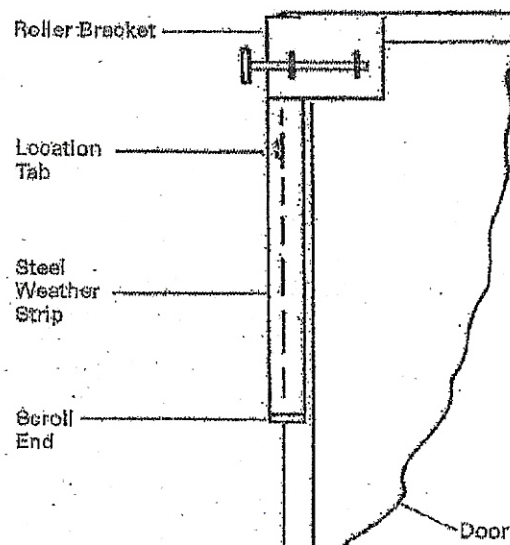
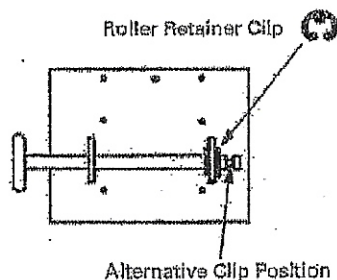


STEP 2 FIT TOP ROLLERS AND WEATHER STRIPES

GO STRAIGHT TO STEP THREE IF TOP ROLLER BRACKETS AND WEATHER STRIPS ARE PREFITTED

Locate the top roller bracket flush with the top of the door matching the same overhang as the top weather strip. On doors OVER 50mm (2") thick, lower the top roller bracket by the same amount. I.e. door thickness 62.5mm (2 1/2") lower the bracket by 12.5mm (1/2"). Fix the roller bracket and weather strip using No. 12 x 3/4" self tapping screws.

TAKE GREAT CARE NOT TO DRILL RIGHT THROUGH THE DOOR FACE



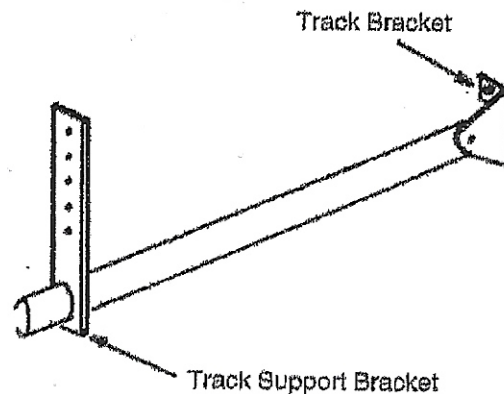
STEP 3 POSITION DOOR IN OPENING

Wedge the door in the opening and allow 10mm side clearance, 10mm clearance between the top of the door and the header and allow at least 10mm ground clearance.

STEP 4 INSTALL THE TRACKS

Locate the track over roller, support rear of the track allowing between 25mm and 40mm fall to the rear.

With the track JUST TOUCHING the bottom of the roller drill 2 x 6mm pilot holes in the middle of the slots in the track brackets. Fix using 2 x M8 x 60 coachscrews.



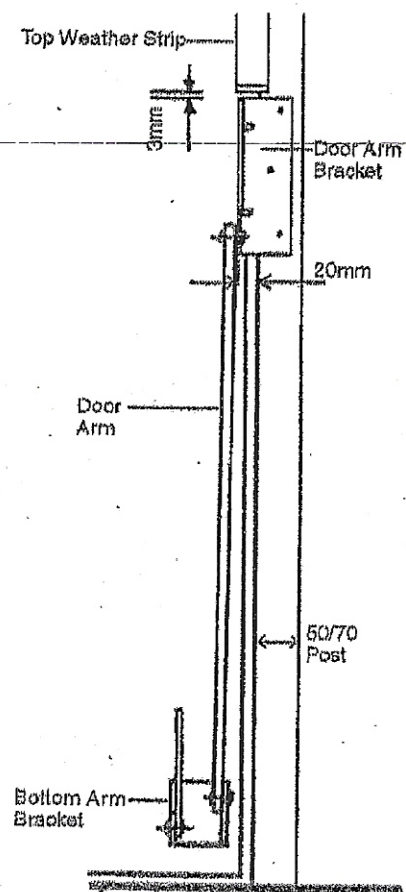
Slide on track support bracket and fasten to a suitable support using 1 x M8 x 40mm coachscrew and washer ensuring track is square to door and allowing fall as above. Fit plastic Track Stop in pre drilled hole using M8 bolt and nut supplied.

IMPORTANT DONOT ATTEMPT TO OPEN THE DOOR WITHOUT THESE BEING FITTED FIRST.

STEP 5 INSTALLATION OF ACTIVATING ARMS

Fit door arm onto the 50mm or 70mm wide post allowing 3mm gap between the top weather strip and the door arm bracket, with the door arm bracket protruding past the post into the opening by 20mm. Drill 3 x 6mm pilot holes as indicated and secure with 3 x M8 x 60mm coachscrews and M8 washers, ensuring arm is vertical and parallel to door edge

Fit bottom arm bracket to door with M8 x 20 Hex bolts



TAKE CARE NOT TO DRILL RIGHT THROUGH THE DOOR

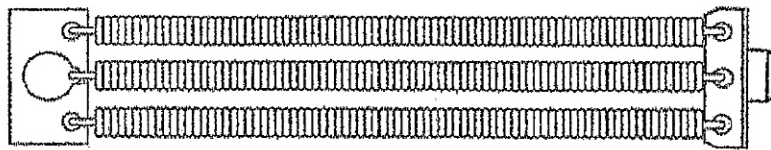
STEP 6 INSTALLATION OF DOOR/LATCH STRIKER PLATE

Position bottom of striker plate on floor with vertical edge projecting past post into opening by 20mm. Mark holes with bradawl and secure plate to post using 4 x No. 12 x 19mm self tapping screws

STEP 7 INSTALLATION OF SPRINGS

Open the door and prop it firmly in the fully open position

Assemble spring onto retaining plates as shown ensuring that slots at each end are in line
It is important that the springs are balanced on the spring retaining plates



Attach spring clip to spring bar
pull the springs down and locate over
the spring anchor bolt

The door should glide up and down
with the minimum of effort. If the door
is HEAVY on the LOWER half of its
travel, RAISE the spring anchor bolt
until the bottom half of its travel is satisfactory

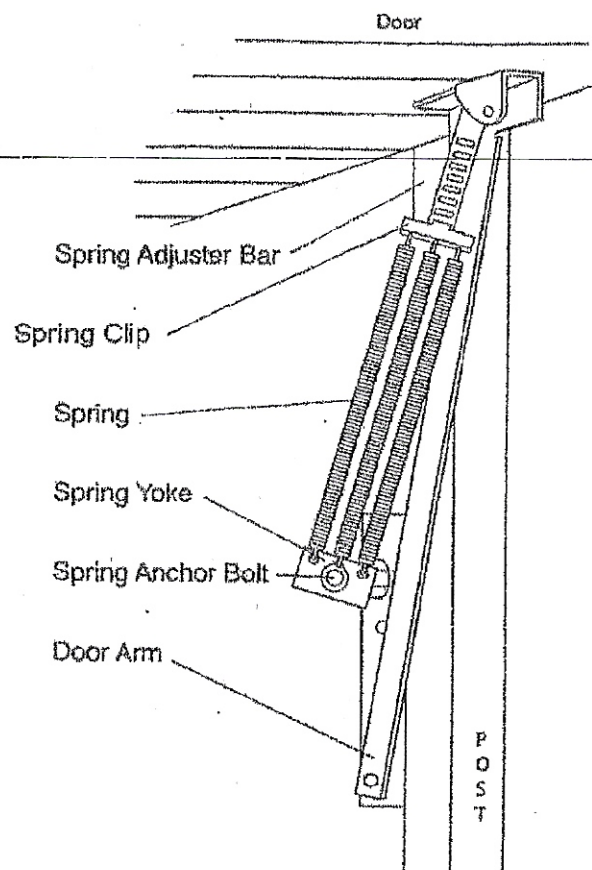
To complete the balance of the door in the
TOP half of its opening operation, adjust
the spring on the adjusting bar.

It may be necessary to squeeze the tab on the
back of the spring clip with pliers to ensure
the clip does not come away from the spring bar.

When complete ensure the spring anchor
bolt is fully tightened

IMPORTANT

- ** Springs must be under tension at all **
- ** times when door is in the open position **
- ** Failure to do so could result in injury **
- ** and or damage to the door/door gear **



NOTE: ALL ADJUSTMENTS MUST BE ONLY CARRIED OUT WITH THE DOOR FIRMLY PROPPED IN THE FULLY OPEN POSITION

STEP 8 INSTALLATION OF BLACK WEATHER STRIP

Unroll weather strip, position top end immediately beneath door arm allowing 10mm to overlap the door and nail onto post using 6 x 25mm clout nails. Cut off excess at bottom and repeat for other side

STEP 9 (optional) FITTING LOCK

Drill out for lock from external face of door so that hole 'break-out' is inside garage. Fit in accordance with lock instructions

STEP 10 (optional) FITTING LOCK LATCHES

Close door from inside. Fit latches to door by drilling 4 x 4mm pilot holes and secure with 4 x 6mm x 25mm self tapping screws.

Ensure body of catches clear the door latch striker plate but not enough for the catches not too register behind the striker plates. Attach cables onto catches and secure with cable clips.

Open and close the door to check latch operation

TAKE CARE NOT TO DRILL THROUGH THE DOOR FACE

STEP 11 OILING THE DOOR

For smooth running of the door it is important to oil the moving parts.

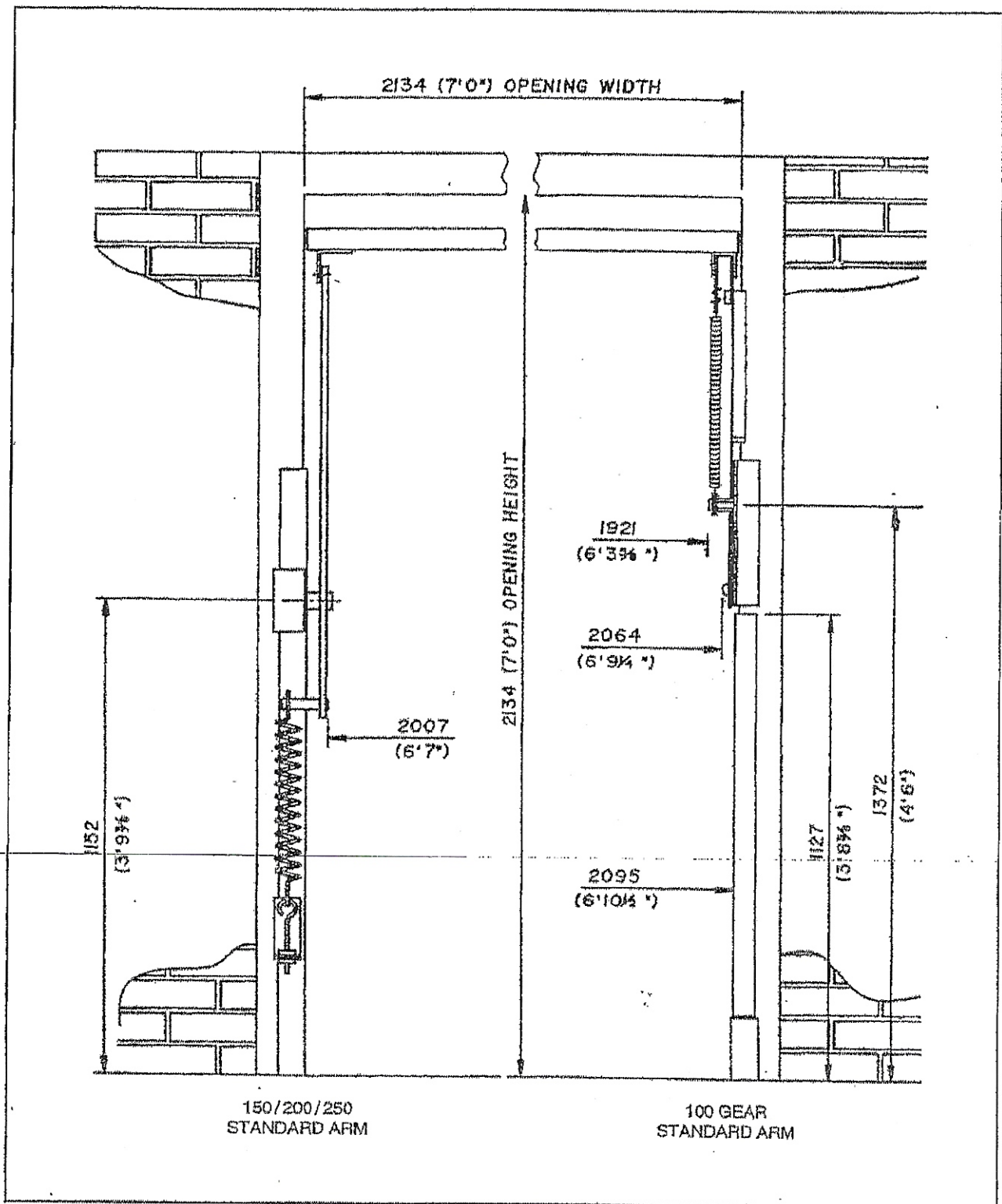
1. The six pivots on the activating arm assemblies
2. The roller wheels
3. The top spring attachments

IMPORTANT SAFETY PRECAUTIONS

Adjust springs only when the door is in the open position. Before removing springs or spring anchor bolts use a prop to securely keep the door in the open position

NEVER ADJUST OR REMOVE THE SPRINGS WITH THE DOOR IN THE CLOSED POSITION.

In the light of progress we reserve the right to alter the specification of materials and the method of assembly of these door gears, without notification



The above diagram illustrates the side room advantages of 100 over the standard gear

PACKED BY:

DATED: