HULK

Up to 500kg
TILT DOOR LIFT

These Instructions contain IMPORTANT SAFETY information.

DO NOT PROCEED WITH THE INSTALLATION BEFORE READING THOUROUGHLY

WARNING DANGER

1.0 Before you begin:

The product must be installed by a professional installer.

This hardware kit must be installed on a minimum of 100 x 100 hardwood jambs.

Must have a minimum of 1 front and 2 ceiling fixings capable of carrying 100kgs at each fixing point.

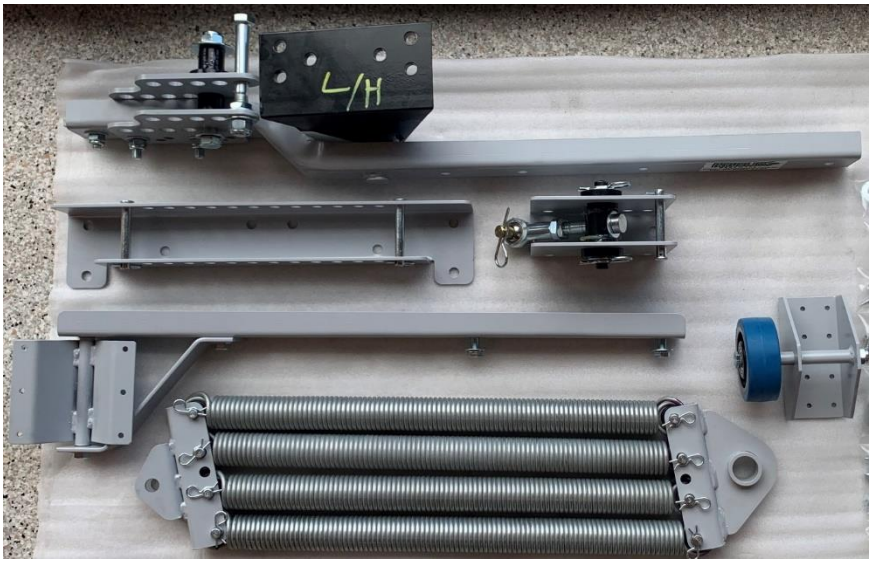
The installer must understand the following.

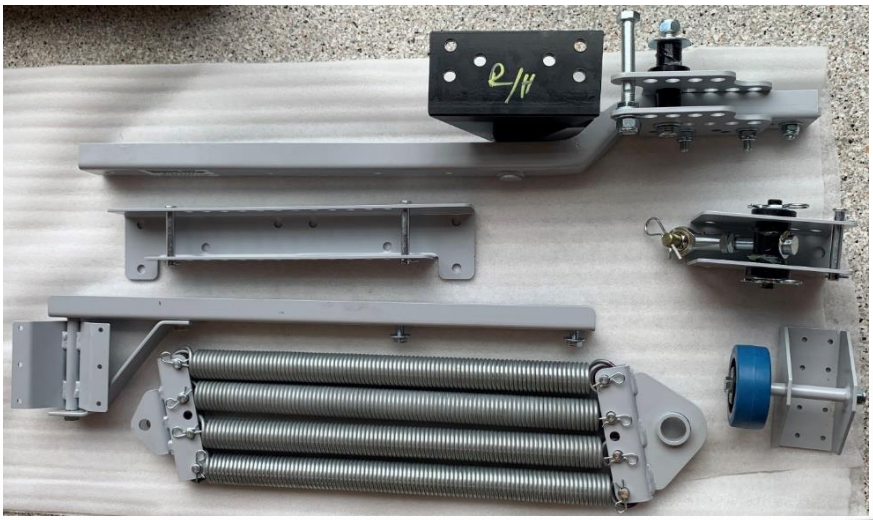
- The operation of the fittings and potential hazards.
- The regular maintenance, inspection, and care according to the Standards.
- The installer must instruct other users on the safe operation of the hardware.

Designed for Tilt Doors operating with a tracking system running into the depth of the garage ceiling retracting inside the opening to sit almost fully within the opening.

Important: **The arms and springs are side specific & are marked LH and RH.**
Based on Inside Looking out. (ISLO)

1.1 Parts Inventory





A
B & C
D
E
F
G

ISLO (inside looking out) Left Hand Side Fitting Box

* LH Main Arm Assembly
* Lower Spring Mount
* Carrier Assembly
* Top Arm Assembly
* Spring Assembly (with 3 or 4 springs)
* Wheel Assembly

Tracks Assembly

* Two 2400 long x 5mm Extruded Aluminum Tracks with Insulated Stopper Bolt Installed.
* Two 2400 long x 3mm Aluminum Weather-strips
* Two 900 long x 3mm Aluminum Weather-strips
* Two Track Mount Angles x 200 long 76 x 55
* Two Track Back Stop Angles x 118 long 76 x 55

ISLO (inside looking out) Right Hand Side fittings box

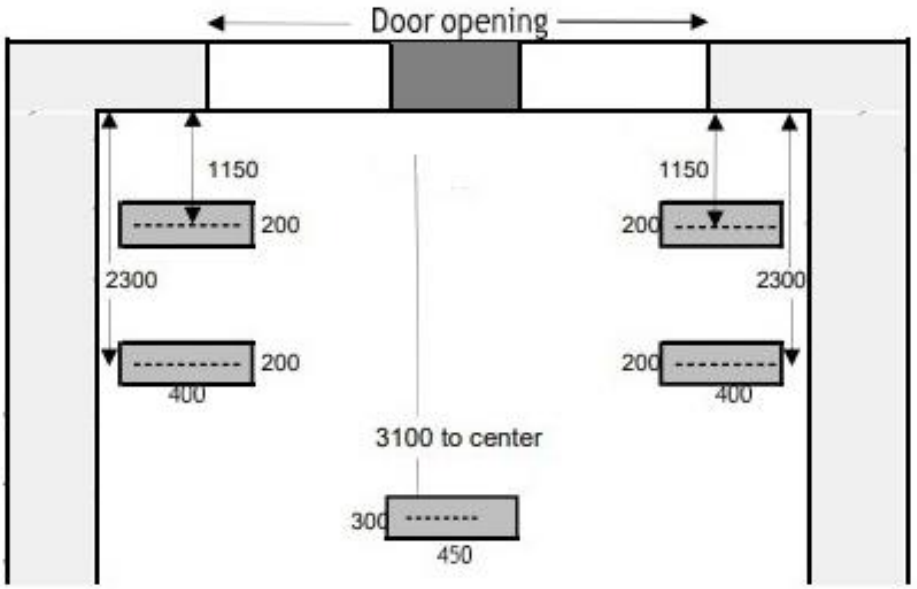
* RH Main Arm Assembly
* Lower Spring Mount
* Carrier Assembly
* Top Arm Assembly
* Spring Assembly (with 3 or 4 springs)
* Wheel Assembly
* Instruction Booklet
* Bolt Bag

A. M12 x 27 ZINC FLAT ROUND WASHER
B. M8 x 25mm CL4.6 ZINC CUP B/N
C. M8 CL8 ZINC FLANGED SERRATED HEX NUT 13mm AF(STD)
D. 14-10 X 50 T17 HEX CL4 BX
E. 14-10 X 25 TEK HEX FT CL4 BX
F. M12 X 75 HCS 4.6 COACH SCREW ZP
G. M12 X 100 HCS 4.6 COACH SCREW ZP

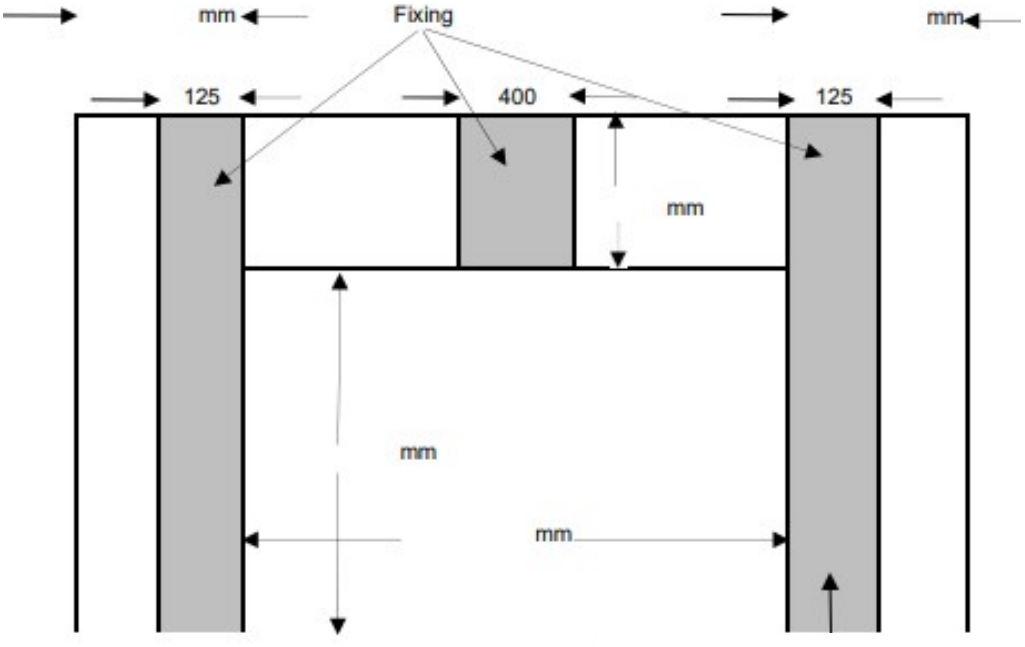
1.2 Checking Measurements

Setting	Door Height
STD	2150 - 2400
LA	2400 - 3000

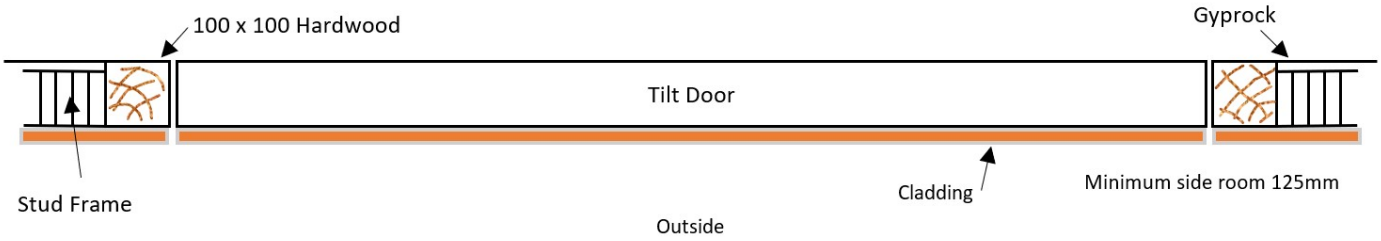
Nogg Details

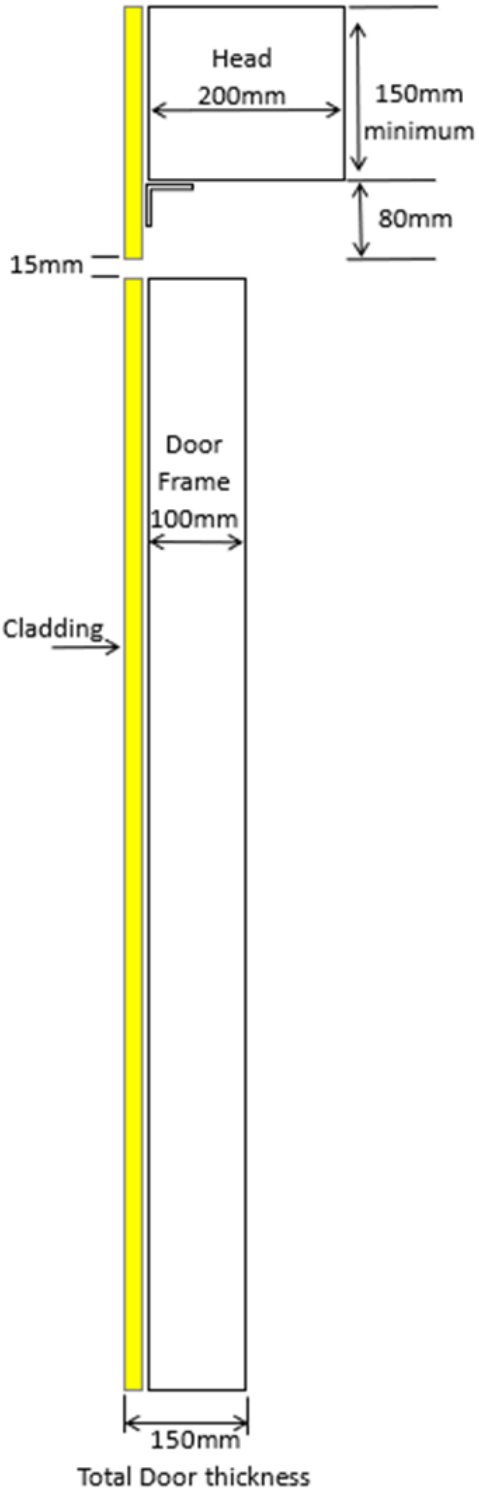


Viewed inside looking out



JAMBS MUST BE IN HARDWOOD


100 x 100 Hardwood
Gyprock
Tilt Door
Stud Frame
Cladding
Minimum side room 125mm
Outside


Head
200mm
150mm
minimum
80mm
15mm
Door
Frame
100mm
Cladding
150mm
Total Door thickness

2.0 Installation:

- Hardware must be fixed to a minimum of 100 x 100 hardwood jambs without Gyprock sheet between fittings and hardwood.
- Select door height from the table above.
- Datum Line the opening
- Check door frame to day light opening. Approx. 10mm side gap is required.
- E.g., Measure Door Frame Height. e.g. 2390 mm

  Minus Door Frame Side Width. e.g. 100 mm

  Minus Cladding Thickness. e.g. 50 mm

  Minus Top of Bottom Clearance Gaps. e.g. 30 mm

  2210 mm
- Use this measurement and mark a line from the floor up the door jamb.
- This height is of the arm when fully open and mounting foot horizontal.
- **IMPORTANT**

  The arms are side specific and are marked LH and RH based on Inside Looking out. (ISLO)
- Hold the arm up to the mark in the extended position - mounting foot horizontal and power arm flat on the wall. Mark the top of the mount on the wall. Put down the arm and measure 25mm down from this mark and draw a horizontal line.(**see e.g., Images on page 8**)
- Pick up the weather-strip and line up the middle of the top power arm holes with the line 25mm from mount.
- Draw a line across at the top of the weather-strip (yes weather-strip is too long)
- Turn the weather-strip upside down (Top onto the floor) & mark the weather-strip to the mark for top of weather-strip. This now gives you the bottom weather strip length. Cut it to Size.
- **Please Note: If the weather-strip length is marked through the lower carrier holes, the arms need to be shortened & set out on the wall will need to be restarted.**
- Attach the weather-strip to wall lining up the (cut) to the edge of the jamb. Screw the weather strip off parallel to the jamb. - Top of weather-strip to datum line is equal both sides.
- Repeat to the other side.
- Pre-drill the two middle holes in the weather-strip with a 7.5mm drill to depth. Drill the start of these holes with a 9.5mm for the bolt shank.
- Attach the power arm with these two bolts only and measure the distance from the jamb to the side of the arm when in the open position then in the closed position.

  This will allow you to have the arm rotating true and not binding or stressing.
- Drill & insert the rest of the power arm bolts.
- Repeat to the other side.

- Drill the holes for the “carrier” in the bottom of the weather-strip & attach the carrier outers to the jamb.
- Add a 10mm packer to each side of the opening where the door will sit. Check off to the datum line to ensure parallel. - Concrete is **NOT** always level.
- With the arms in the lowered position insert the door into the opening on top of the packers, then centralize the door with packers on the side.
- Hold the door tight against the lower weather-strip, place the mounting foot against the door and screw it off through the six holes provided.
- Place the upper weather-strip on the top of the door frame and cut to size. Screw the weather-strip with one screw through one of the eight holes provided, ensuring that the strip is parallel with the top of the door and the eight holes are central to the frame for the Tek screws.
- Add a Tek screw towards the bottom and one approx. halfway up. Remove the top Tek screw.
- Assemble wheel into track and attach end plates.
- Lift tracks up and screw wheel onto door, lining up holes provided.
- Push tracks up onto bottom of wheel and screw track off onto top of door jamb.
- Tracks run approx. 40mm down at the rear from front. Attach Dropper.
- Attach spring mount to the power arm.
- Attach inner carrier to bottom of spring mount.
- Open the door to the fully upright position and clamp off. Move stopper bolt to back of wheel.
- Slide inner carrier onto outer carrier via top pin.
- Use appropriate leaver to push lower part of carrier into position & insert pin.
  WARNING do not attempt to undo 16mm bolt from Bottom Spring Carrier
- Test run door.
  Add or subtract spring for more or less power. (See 2.1 Spring assembly & Adjustments)

Image 1

Image 2

Image 3

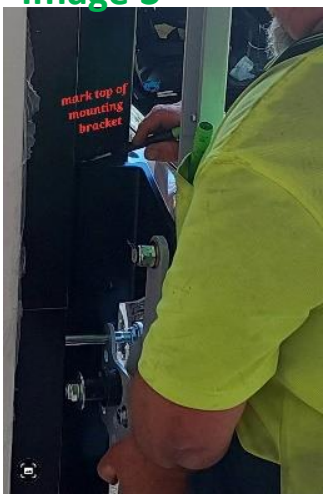


Image 4

Image 5

Image 6

Image 7

Image 8

Image 9

Image 10

Image 11

Images 12 & 13

Pivot Point

Kicker Bolt

Top Spring Anchor Bolt
M16 x 24mm Bolt
THIS MUST BE TIGHT

Clips must be facing out.

Springs are side specific L/H & R/H

Stainless Steel Spring Retainer must be installed as shown.

2.1 Spring Assembly & Adjustments

3-Spring Kit… approx. Examples Only, Based on 2600 high door.

The Top Spring Anchor Bolt and Kicker Bolt should both be in the same setting.

WARNING: Any adjustments must be made with the door in the open position.

Door weight Approx. 200-220 kg

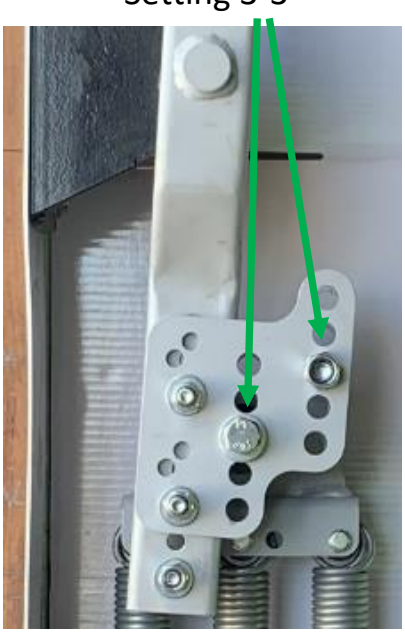
Setting 1-1

Door weight Approx. 220-240 kg

Setting 2-2

Door weight Approx. 240-260 kg

Setting 3-3



Door weight Approx. 260-280 kg

Setting 4-4

Door weight Approx. 280-290 kg

Setting 5-5

Once tested If you find that your door is too heavy in the bottom position,

meaning it shuts quickly or bangs at the bottom or is heavy or hard to open,

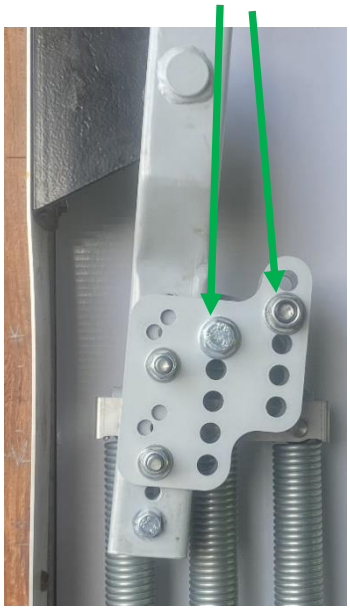
you will need to adjust your kicker down to the harder position.

Harder is down **one** position from the pivot.

So, if your Top Spring Anchor Bolt is in position 1 then you would put the kicker down one position into setting 2, or if it is in position 2 then down into setting 3 etc.

This will give you a softer close at the bottom.

Setting 1-2



Setting 1-0

Alternatively, if you find that the door is holding off the jam and not closing fully,

you can remove the Kicker Bolt either from one side or from both.

4-Spring Kit approx. **Example Only, Based on 2600 high door.**

As per 3-Spring Kit, The Top Spring Anchor Bolt and Kicker Bolt should both be in the same setting.

Door weight Approx. 290-320 kg

Setting 1-1

Door weight Approx. 320-340 kg

Setting 2-2

Door weight Approx. 340-360 kg

Setting 3-3

Door weight Approx. 360-380 kg

Setting 4-4

Door Weight Approx. 380+

Setting 5-5

Setting 1-2

3.0 After installation Care.

When your door is first installed your springs will settle in and adjustments may need to be made, we recommend this is done approx. 6 weeks after installation.

Servicing

To keep your door running well, it is recommended that your door be serviced by an experienced technician every 12 months or earlier if required.
Contact Hulk Hardware or your local Hulk Hardware dealer for more advice on servicing.

Maintenance and your Warranty / Service & Repair

Please note, your warranty is only valid if you maintain your garage door and opener by following the instructions given.

Maintenance and adjustment performed by Hulk Hardware service representative/technicians will ensure safety and proper operations of the Tilt Fittings

For general enquiries and information visit www.hulkhardware.com.au or call 07 5491 1122

FOR SERVICE

Hulk Hardware
ABN 68 606 843 172
Shed B, 51 Caloundra Road,
Caloundra West, Queensland 4551
Phone 07 5491 1122
Email: roger@hulkhardware.com.au

WARNING: IT IS VITAL FOR THE SAFETY OF ALL PERSONS INSTALLING AND USING THIS HARDWARE TO FOLLOW THE INSTRUCTIONS AND SAFETY WARNINGS. FAILURE TO COMPLY MAY RESULT IN SERIOUS PERSONAL INJURY AND/OR PROPERTY DAMAGE AND FAILURE OF THE HARDWARE SYSTEM

Hulk Hardware Pty Ltd
ABN: 68 608 843 172
Shed B, 51 Caloundra Rd, Caloundra Qld 4551
Ph: 07 5491 1122
Email: roger@hulkhardware.com.au
www.hulkhardware.com.au

Up to 500kg Tilt Door

MANUFACTURER'S WARRANTY

CONDITONS OF WARRANTY

1. Subject to the conditions of this warranty Hulk Hardware will perform necessary repairs of the product without charge for faulty workmanship or parts, if in the opinion of Hulk Hardware, the product is found to be faulty within the warranty period of 12 months from date of supply.

2. This warranty only applies if the product has been installed and used in accordance with the manufacturer's recommendations under normal use and reasonable care.

3. The warranty does not cover damage due to incorrect installation, modification of the product and/or misuse.

4. Hulk Hardware certifies that the hardware supplied has been manufactured in accordance with our manufacturing procedures.

5. Hulk Hardware tilt fittings are not to exceed Manufacturers Max weight limit which includes the frame, cladding and fixings. If the weight exceeds this limit the warranty will be void.

6. Needs to be serviced at minimum every six months by a professional Garage Door Installation Company/Installer who has prior experience with the Installation of Tilt Doors.

Hulk Hardware will repair or replace, free of charge, any parts which were originally faulty in workmanship or material. Any service other than for the work as above specified will be charged at current rates. Where repairs have been made or attempted by others, the manufacturer may decline responsibility.

* The manufacturer's warranty excludes misuse or general wear and tear.

* When failed to follow the frequency of service maintenance stipulated in the Maintenance manual.