



DROP SLIDE & SIDE DROP SLIDE INSTALLATION INSTRUCTIONS



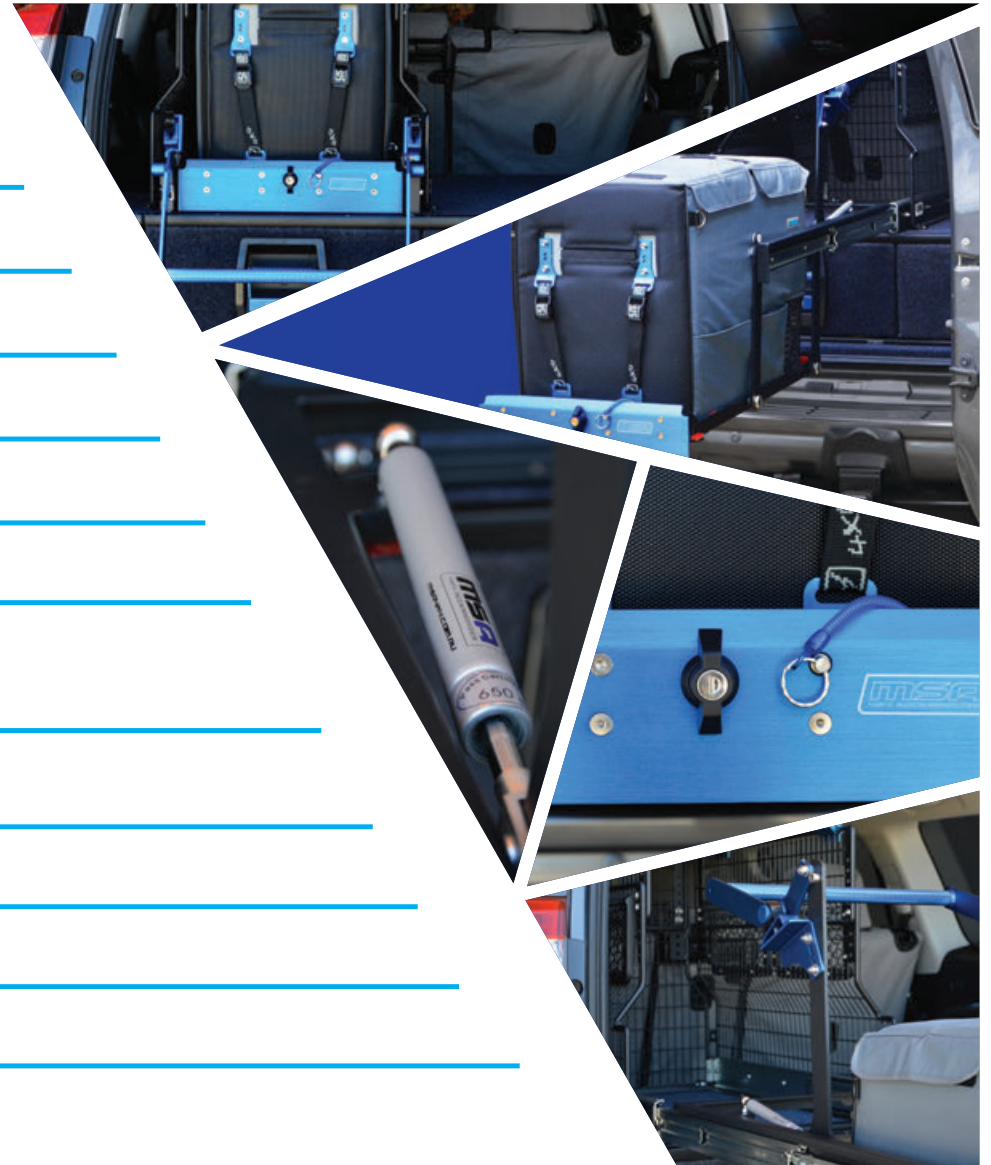
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CONGRATULATIONS ON YOUR PURCHASE OF A QUALITY MSA 4X4 DROP SLIDE!

**Years of design, development and manufacturing knowledge goes into every
MSA 4X4 product to ensure that our products are the very best they can be!**

Established in 2000, MSA 4X4 Accessories are the 4WD market leaders in quality Canvas products which include Certified ADR Compliant Canvas Seat Covers, Rear Wheel Bags, Rear Wheel Rubbish Bins, Vehicle Organisers and more.

We pride ourselves on our innovative products which include the world first, revolutionary Fridge Dropslide, the new patent pending Explorer Aluminium Storage Drawer System which delivers a whole new level of access to the drawer contents, the original Water Bra, fully adjustable air lumbar support systems, and an extensive range of 4x4 accessories that have stood the test of time.

As testament to our innovative culture, we have been awarded 19 patents in Australia & Internationally across our range of products including innovations currently within the patent process. We are a growing team with a vast knowledge of what works and what doesn't work out in the real world and constantly strive to deliver the highest quality product to our customers. We treat every product design with fear of failure in mind, ensuring our products are always the very best they can be. All our products are designed to be as simple as possible to use and are supported by our MSA 4X4 Lifetime Guarantee.

**Our products are available through a network of over
600 stockists Australia wide.**



WHAT'S IN THE BOX

4



- 1 x** Drop Slide Unit
- 2 x** Installation Kit
- 3 x** Aluminium Handle



NOTE 1: Our range of Drop Slides and Side Drop Slides incorporate a “Locking Slide Runner” feature. This feature keeps the unit from opening unless the Lock Release Button is pressed even if the main key lock on the front is unlocked and open. As well as a “Lock In” feature, it also acts as a “Lock Out” feature which stops the fridge tray from rolling back in unexpectedly.

NOTE 2: When the Drop Slide/Side Drop Slides are new, tolerances on slides are tight but will loosen with use. The slide may need assistance by placing your hand on top of the fridge and pushing down to drop with an empty fridge - spraying a little WD-40 on the round pivot points will help. **(FIG 1 & 1a)**

WARNING

- Do not use your slide until all installation instructions have been completed and full operation is clearly understood.
- Not recommended for 240V cord whilst using drop & lift action.
- Not recommended for use by minors.
- Side pockets on fridge transit bags may incur damage unless closed.
- Some Fridge Bags will not fit as they may contact the lever mechanism.
- As the tolerances on the fridge slides are very tight when new, you must place at least 6kg of weight in the fridge to assist it to lower.



FIG 1



FIG 1a

1. Place the slide on a flat surface and open the slide completely until the locking slide engages the lock. Measure between the front of the base frame and the rear outside of the slide tray. This measurement will vary between 80mm and 150mm depending on the model of the slide. This measurement is the distance the slide front can be mounted back from the front edge of the mounting surface. Please allow 10 - 20mm for clearance to allow the slide tray to lower without interference. **(FIG 2)**
2. Place the slide in the position required with the maximum set back as measured above. Unlock the key lock and open the slide 150mm to expose the rear row of holes in the base frame. Now install a 10 gauge x 20mm long self-tap screw in each hole across the rear **(FIG 3 & 3a)**. As an alternative to the self-tapping screws, the mounted surface can be drilled and M6 nuts and bolts can be used. Please ensure the nuts are Nyloc nuts.
3. The slide can now be extended out a little further to expose more mounting holes on each side. Install self-tap screws in these holes. Continue working towards the front of the slide until all the holes have screws or bolts installed. The slide is now installed. Do not operate or place any weight on the slide until all the fixings have been installed.



FIG 2

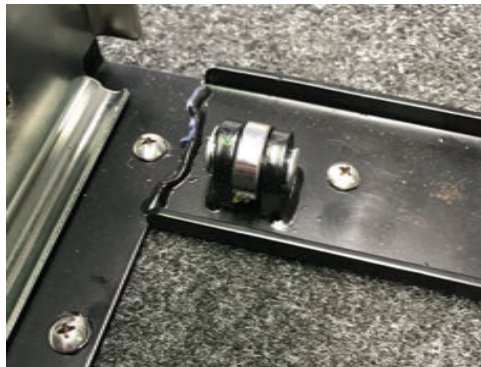


FIG 3



FIG 3a

Note: The handle on the Drop Slide is to be installed with the handle curved downwards. (FIG 4)

- 1.** First install the M8 countersunk allen head bolt through the lever arm from the inside out. Repeat this for the bolt on the opposite side lever arm. **(FIG 5)**
- 2.** Place an M8 brass washer over each bolt thread. This will be placed between the lever arm and the handle. **(FIG 5)**
- 3.** Now place a small amount of thread locker on each thread. **(FIG 6)**
- 4.** Place the handle up to the thread and tighten each bolt. Only tighten enough to take up the clearance. Do not over-tighten, it will lock the handle if the bolt is too tight. **(FIG 7)**
- 5.** Place an M8 stainless steel washer over the thread on the outside of the handle and then install the M8 nut and tighten while holding the bolt head with the allen key. **(FIG 8, 8a & 8b)**



FIG 4



FIG 5



FIG 6

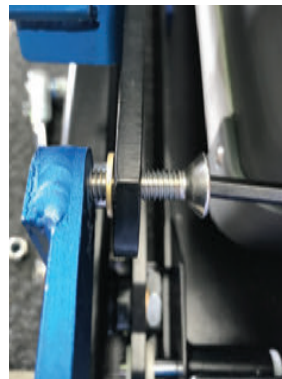


FIG 7



FIG 8



FIG 8a



FIG 8b

1. Place the fridge, generator or tool box in the desired location on the fridge tray. If the slide is fitted inside a canopy or closing door, please ensure there is enough clearance to allow the door to close completely without contact to the slide handle.
2. There are locating holes in most slide trays to suit most fridges with feet or threads in the base of the fridge.
3. For ARB and Engel fridges, remove the four feet from the fridge and place the feet over the location holes in the tray. Now place the fridge on the feet, a small Phillips head screwdriver can be pushed through the tray to locate the threads in the base of the fridge through the feet. Install the 4 x M6 bolts & washers supplied and tighten. **(FIG 9)**
4. For Waeco CFX fridges, place the fridge on the tray, align the holes with a small screwdriver and install the M6 bolts and washers supplied in the kit to all 4 threads in the fridge base and tighten.
5. For Waeco CF fridges, install the 6mm countersunk head bolts through the top of the tray with the head up. This works as a locator only. **(FIG 10)**
6. Now to install the handle brackets, there are two countersunk holes drilled into each lever arm. Place two of the M6 stainless steel countersunk head bolts through the lever. Now hold the handle up with a minimum 15mm clearance to the fridge. **(FIG 11)**
7. Now place the bracket clip over the 25mm round piece on the handle. The handle bracket has adjustment in all directions. Adjust the handle and then place the bracket over the 2 x M6 bolts protruding from the lever arm.
8. Now install the M6 washers and Nyloc nuts and tighten. **(FIG 12)**
9. Place 1 piece of adhesive Velcro loop (supplied) over the frame where the handle bracket bolt sits. This will prevent the two points coming in contact. **(FIG 13)**
10. Repeat the same process on the other handle bracket.



FIG 9

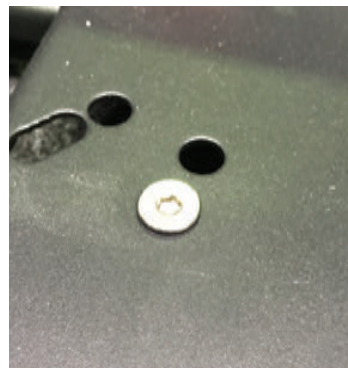


FIG 10

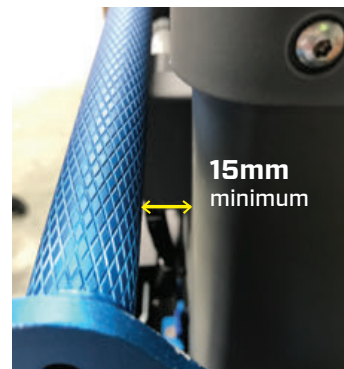


FIG 11

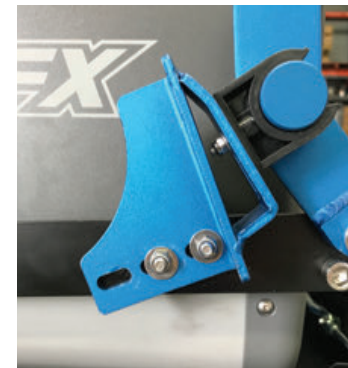


FIG 12

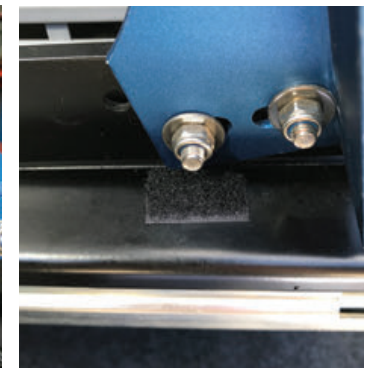


FIG 13

1. Now install the 12 volt power cords to the fridge. The cord should be cable tied out of the way of the operating mechanism. A good place to exit the cord from the fridge slide is to cable tie it to the handle or tie down bracket then across to the rear ball end of the gas strut.
Allow enough excess on the cord to allow the fridge to drop to its full lowered position. **(FIG 14)**
2. There are 4 x blue anodised aluminium tie down brackets supplied in the kit - two for the front tie downs and two for the rear tie downs. These are to be installed with the M8 stainless steel countersunk head bolts and Nyloc nuts and washers.
3. Place the brackets against the fridge, generator or tool box so that they rest on the poly bumper.
4. Install the M8 stainless steel countersunk bolts through the slide tray elongated holes and install the M8 washers and nyloc nuts on the underside of the tray and tighten. **(FIG 15)**
5. There are 4 smaller tie down brackets supplied in the kit. These can be used in place of the fridge handle to be used as tie down points if required. These can be used in place of the rear handle where the slide may be tight against a cargo barrier or MSA fridge barrier and used for extra clearance. **(FIG 16)**
6. Install the 4 x tie down straps and trim or cable tie the excess strap neatly out of the way. **(FIG 17)**

Note: Do not use turn buckles to tie down fridges. 25mm cam buckle tie down straps are recommended.



FIG 14



FIG 15



FIG 16



FIG 17

Ensure the power cord is cable tied out of the way of all mechanisms. Cable ties are supplied in the Drop Slide / Side Drop Slide kits. On fridges with rear power plugs, run the power cables up the back of the fridge and cable tie the cord to the fridge handle and then loop over to the mount point of the gas strut allowing enough slack for when the fridge tray drops down.

For fridges with front mounted power plugs the power cable can be run down the outside of the Drop Slide / Side Drop Slide frame to your power outlet. For other fridges simply run the power cables where they will not interfere with the operation of the Drop Slide / Side Drop Slide or become caught and damaged in moving parts.

Tip: Included in the kit is a blue bungee that is intended to be used for keeping the keys for the Drops Slide / Side Drop Slide handy. This bungee can also be used to keep your fridge cord out of the way as the unit slides in and out. Simply attach one end of the bungee to your power cord and the other end to a point which will allow the power cord to travel far enough, it will assist to pull the cord back in correctly.

PLEASE NOTE: Always apply downward pressure on the handle (FIG 18)

PLEASE NOTE: It is recommended that the lock on the slide is key locked while in transit.

1. Place the key in the lock and unlock it. Turn key lock handle anti-clockwise (handle on lock is in vertical position). **(FIG 19)**
2. Unclip handle and push all the way down. Always keep downward pressure on the handle.
3. On the left you will notice the blue lock release lever. **(FIG 20)**
4. Using your finger, press this lever down **(FIG 21)** and place slight downward pressure on handle while pulling the slide cradle out forwards **(DO NOT RELEASE DOWNWARD PRESSURE)**. Once the tray is moving, you can release the blue lock release lever.



FIG 18

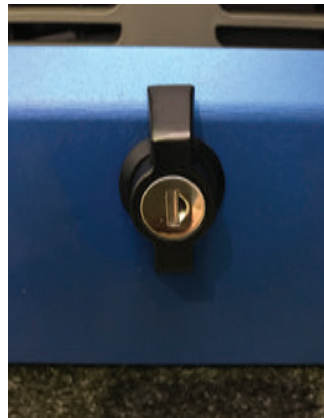


FIG 19

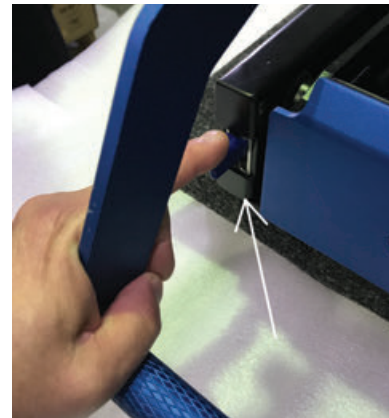


FIG 20



FIG 21

5. When the slide is at full extension, slowly release the downward pressure on handle. This allows the slide platform to lower. At the same time the handle will be raised. Please do this first operation very slowly to ensure that raising handle does not come in contact with any vehicle doors, etc.
6. The platform will lower as far as the bump stops on the slide or rest on the tailgate. It is now completely in the lowered position and handle can be folded to the rear for easy opening of the fridge lid. Please Note: These units are tight when new due to tolerances. A slight bit of downward pressure on the top of the fridge with your hand will assist it to lower. After a short while, this will no longer be needed as the unit will free up.
7. To raise slide platform, reach up to handle, (fold handle back towards the front of the fridge if folded back) and pull down towards the front. Pull down until handle stops - it can be pulled down very firmly to a stop - you will not damage the slide.
8. While maintaining downward pressure on the handle, push down the blue lock release lever and start pushing the fridge tray back in. Again, once it has started to slide back in you can release the blue lock release button.
9. Push slide platform back into closed position. Ensure the keyed travel lock is in the unlocked vertical position. You will need to give the platform a good push before it has fully closed, this is to ensure the locking slide runner engages into the “Locked In” position correctly.
10. Ensure when raising the fridge tray that the **LOCK IS IN THE UNLOCKED POSITION** (If lock is in horizontal closed position when platform is pushed back, damage to the lock WILL occur). When the slide stops and locking runner has engaged correctly, twist the key lock to the clockwise to lock position (lock with key if needed). **(FIG 22)**
Fold handle up and push into retaining clips to secure for transport.

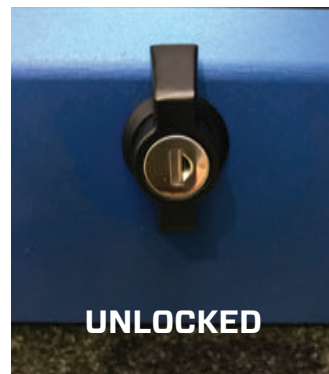


FIG 22

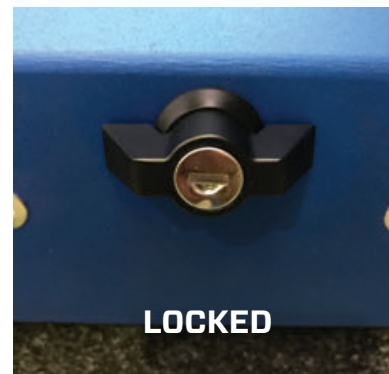


FIG 22

- Please ensure slide runners, tray and bearings remain free from dirt, sand, grit & water.
- Clean all exposed metal parts regularly & spray with Innox Plus MX5
- Please check the Drop Slide/Side Drop Slide tray does not have any forward or backward movement. This can cause failure of the lock key assembly

To check and adjust, make sure the Drop Slide / Side Drop Slide is in the stowed and locked position. Holding the front of the Fridge tray, pull the tray forwards and backwards. If there is any movement or “clicking”, then unlock the fridge tray and slide forward enough to gain access to the rear of the slide runners.

Looking at the back end of each of the slide runners you will notice a small black moulded rubber bumper that, when the runner is closed, sits up against a metal tab bent at a right angle. Using a shifting spanner, slightly bend this tab forward.

You must also do the same adjustment to the other runner as well, this will remove any unnecessary extra clearance in the slide runners. **(FIG 23 & 23a)**

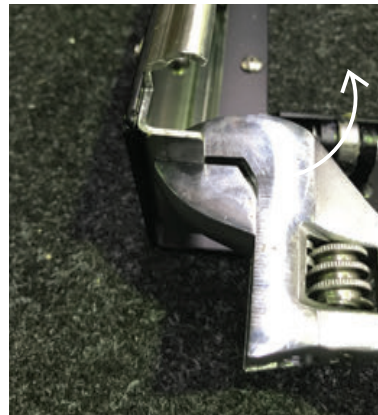


FIG 23



FIG 23a



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All MSA 4X4 Accessories products are designed and manufactured to the highest quality standards to perform as they should. We stand behind our products with a Lifetime Manufacturer's Warranty. All claims under this warranty should be made by returning the product at your cost to MSA 4X4 Accessories Pty Ltd, 43 Harrington Street, Arundel, QLD 4214, with the detail of the fault, proof of purchase, proof of identification and vehicle fitment details where relevant. Lifetime manufacturer's warranty applies to the original purchaser only.

If we determine that an MSA 4X4 Accessories product is defective in materials or workmanship during the Lifetime Warranty, we will either repair or replace the product. Repair or replacement is solely at the discretion of MSA 4X4 Accessories Pty Ltd. This warranty does not apply to failure or damage caused by incorrect or faulty fitment, accidental or intentional damage, misuse or abuse, failure of other products, operation of the product outside of its environmental or technical specifications, or repair or modification carried out by anyone other than MSA 4X4 Accessories Pty Ltd. No charges will be accepted for external labour or materials.

Lifetime warranty is applicable to all MSA 4X4 Accessories Fridge Slides, Fridge Barriers, Storage Drawers, and steel or aluminium products, excluding MSA 4X4's Driving Mirrors & Power Panels. MSA 4X4 Accessories Lifetime warranty does not cover any coating faults, rust, scratches, chips, carpet or battery packs. Fabric product Lifetime Warranty covers all manufacture and fabric components. Lifetime Warranty will not cover any fading of fabrics.

MSA 4X4 Accessories products are designed for lifestyle applications. Due to the harshness of the mining environment, MSA 4X4 Accessories products used in mining applications that may be operating outside of their environmental and technical specifications, are therefore excluded from a Lifetime Warranty. MSA 4X4 Accessories products used in mining applications are warranted for up to 1 year.

Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

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