



Hitch-Rack Manual Wheelchair Carrier



Thank you for purchasing an Xrad Hitch-rack product. Please read and follow these instructions to ensure safe and reliable operation of the product.

Installing Coupler on Vehicle for the first time.

Start by ensuring that your vehicle is on level ground before starting with installation. The Hitch-Rack system is designed to work with standard flanged 50mm gooseneck type tow-balls, of the type with a drop plate shown in the pictures below (Fig 1). If your vehicle has another type of tow-hitch, it may not be compatible with the Hitch-Rack system. Please consult your dealer or Xrad technical support at 031-766-1957 if you experience any difficulty.

1. Remove the towball from the towbar - you will require a 24mm spanner/socket (not supplied).
2. Mount the coupler (Fig 2) to the drop plate (the plate that the towball was attached to) using the M16 x 50 bolts, washers and nuts (supplied). Your drop plate may look like the one below (Fig 1) or may have two more holes. Do not tighten the nuts at this stage just nip them up so that they can be aligned as required. Using a spirit level and check that the vehicle and bracket are level.
3. Once level, tighten both bolts to no more than 200 Nm torque. If a torque wrench is unavailable this torque can be achieved by applying 90 kg to the end of the 24mm spanner.
4. If bolts of a different length are needed for your vehicle, they must be Class 8.8 zinc-plated M16 bolts.

Drop plate



Figure 1

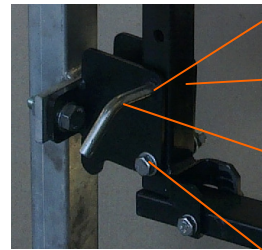


Figure 2

Hole 1

Hole 2

Angle pin (insert through Hole 1 and Hole 2)

12mm Bolt

Mounting and Removal of Hitch-Rack on Vehicle

1. Start by selecting the correct height of the Hitch Rack for your vehicle. There are 4 holes in the Vertical tube, the bottom holes are for the M12 bolt and nyloc (lock) nut (Pivot point) the top holes are for the Angle pin (Fig 2). Once the height has been selected insert the Angle pin into the top holes of the coupler assembly and platform tube. Insert the R-clip into the hole in the Angle pin. (This will hold the platform up so that you can now secure the carrier's platform with the 12mm bolt). Ensure the flat washer is against the head of the bolt, then insert the bolt and fit the nylon washer between the tube and the wall of the coupler mount (spacer), repeat this on the other side, with the washer and the nyloc (lock) nut. Ensure that there are at least three threads of the bolt showing out of the side of the nut (19mm spanner or socket).
2. Using a # 5 allen key (not supplied) screw the 4 grub screws out and insert the locking bar in place. Do not tighten the grub screws yet. Your carrier will start to look like the one illustrated in Fig 3.



Figure 3



Figure 4



Figure 5

Always bear in mind that the carrier and your wheel chair makes your vehicle a little longer and caution must be taken when reversing. It is strongly recommended that the platform be raised into the vertical position when your

1. Grab hold of the flower shaped handle, pull the handle up—this will release the platform's hook lock. Lower the platform into the loading position. The locking handle has a double function, once in the lowered position when pulled it will release the bed so that the bed can pivot.



Figure 6 & 7



Figure 8



Figure 9

Locking bar

R-clip

12mm Grub screws

R-clip



Lift the locking arm and, tilting your chair onto its rear wheels, push your chair forward onto the loading platform and pivot your chair onto your Hitch Rack. Once lifted, the bed *must* lock in place to secure the load bed. Adjust the locking bar to the correct height, (sufficient height between the chairs arms and the locking bar should be adhered to for clearance of chair while loading). The locking bar is adjustable so you can decide how much tension is exerted on the chairs arms when tensioning the locking arm with the tension bolt.

Lock all 4 grub screws by screwing them back in with the # 5 allen key. Tension the locking bar by turning the tension handle and applying downward pressure onto the arms of your chair. Your vehicle is now ready to use with the Hitch-Rack.

Removal of Hitch Rack

To remove the Hitch Rack from the vehicle, remove the 16mm bolts and then remove the hitch rack.