



Installation of the Winch Channel:

1. Remove the (4) total torx head bolts from both sides of the vehicle front frame mounting location. Use caution not to strip the torx head. If corroded these bolts may be extremely difficult to remove, and heat may be required with a torch or magnetic induction tool.
2. Place the (4) winch channel spacers (Kytor P/N KI_0004) along the frame mounting locations. The spacers permit the winch attachment hardware to clear the bumper, and the winch channel to clear the brake line crossmember.
3. Attach the hawse fairlead (Ramsey P/N 251152) using (2) 3/8-16 x 1-1/8" grade 5 hex bolts, split lock washers and 3/8-16 grade 5 hex nuts. The split lock washers and hex nuts should be on the forward (front) side of the fairlead. Tighten to 23 ft-lbs (31 Nm).

Note: *Alternatively for superior corrosion resistance, substitute stainless steel hardware on hawse fairlead only. Apply a small amount of anti-seize to the threads and tighten by hand, never use power tools with stainless steel fasteners. Tighten to 20 ft-lbs (27 Nm).*

4. For ease of installation, it is recommended to attach the winch to the winch channel before mounting it onto the frame. Slide (4) 3/8-16 grade 5 hex nuts and 5/16" USS grade 5 washers into each of the winch feet. Use (4) 3/8-16 x 1-1/4" grade 5 hex bolts and split lock washers to attach the winch to the winch channel. Tighten to 23 ft-lbs (31 Nm).
5. Lifting the assembly from the chrome tie bars, carefully lower onto the winch channel spacers and align with the frame mounting locations.
6. Place the tow eyes (Kytor P/N JP_0001) onto the winch channel and align with the frame mounting locations.
7. Using (4) 1/2-13 x 2" grade 5 hex bolts and split lock washers or 7/16" USS washers, attach the tow eyes and winch channel to the frame. Tighten to 57 ft-lbs (77 Nm).

Prepping the Winch Channel:

1. It is normal for bare uncoated steel to show minor signs of corrosion, but to avoid excessive corrosion, store indoors in a dry environment until you are ready to finish. If storing bare steel for a prolonged period lightly coat the surface with WD40 using a rag.
2. Clear the surface to remove minor corrosion or dirt, the recommended method is WD40 combined with Red 3M Scuff Pads.
3. The oils and any adhesive residue need to be thoroughly removed prior to paint, wear proper PPE and use Acetone or an alternate solvent in a well-ventilated room to clean the surface. At this point the metal has minimal protection and may rapidly corrode if left to the elements.

Painting the Winch Channel:

1. To prime the surface, an etching primer followed by a build primer is recommended. Once dry, sand the build primer (220 then 400 then 600 grit if you want a showroom finish) and use a tack cloth to remove any dust.
2. Paint in accordance with the paint manufacturer's technical data sheet.

Note: *Alternatively to the above, the winch channel mount may be powder coated.*