



PREVOST


MAINTENANCE INFORMATION

Mi97-20



DATE : September 1998	SECTION : 07
SUBJECT : TRANSMISSION PROTECTIVE PANELS	

APPLICATION

Model	VIN
H3-41, H3-45 and VIP-45 Model Year: 1995-1998	 From 2P9V33494S1001057 up to 2PCH33415W1012186 incl. except 2PCH33416W1012164
XL-45 Coaches and MTH-45 Model Year: 1995-1998	 From 2P9M3349XS1001401 up to 2PCM33495W1026383 incl. except 2PCL33499W1026351 2PCL33498W1026356 2PCL33495W1026363 2PCL33492W1026367 2PCL33494W1026371 2PCL33491W1026375 2PCL33499W1026379

DESCRIPTION :

On the above-mentioned vehicles, protective panels can be installed in order to avoid the accumulation of dirt on the transmission. To do so, order one of the following kits : kit #071164 must be ordered for XL-45 coaches and kit #071041 for MTH-45 motorhomes ; kit # 071076 must be ordered for H3-41, H3-45 and VIP-45 vehicles.

PROCEDURE

Warning : Park vehicle safely over a repair pit, apply parking brake, stop engine and set battery master switch(es) to the OFF position prior to working on the vehicle.
Prior to working under an air-suspended vehicle, it is strongly recommended to securely support the body at the recommended jacking points.

1. Welding must be done only by a qualified and experienced person.
2. Protective shields must be placed in order to protect components against heat, welding flash, welding arc and other elements associated with welding.
3. Always wear the appropriate safety equipment.
4. Weld in clean and well-ventilated area, and always have an appropriate fire extinguisher within your reach.
5. The following precautions are to be taken to protect the electronic control components :
 - Cut off battery power (battery master switch) from battery compartment.
 - Disconnect wiring harness connectors from ECM (Electronic Control Module). The ECM is mounted on the starter side of the engine.
 - For vehicles equipped with an automatic transmission, disconnect wiring harness connectors from ECU (Electronic Control Unit). The ECU is located in rear electrical compartment.

- For vehicles equipped with ABS (Anti-Brake System), disconnect wiring harness connectors from ABS Electronic Control Unit. The ABS Electronic Control Unit is located in the front service compartment.
- Do not connect welding cables to electronic control components.

Warning : Only the recommended jacking points must be used as outlined in Section 18 of Maintenance Manual : "Body" under heading "Vehicle jacking points" or in Operator's Manual.

6. Using a grinding wheel, remove asphalt base undercoating (gravel guard) or paint from parts requiring welding.
7. Because of material thickness, it is recommended to use a semi-automatic electric arc welding machine in accordance with the following specifications :

STEEL - STAINLESS STEEL OR STAINLESS STEEL - STAINLESS STEEL WELDING

Note : Welding must be done only by a qualified and experienced person.

- GMAW (Gaz Metal-Arc Welding) process ;
- welding wire conforms to AWS (American Welding Standards) A5.9 specifications ;
- 308L type welding wire with 0.035" diameter (0,9 mm) ;
- voltage : 18 volts to 22 volts ;
- current : 50 amperes to 200 amperes ;
- shielding gas : T90-H (90% helium, 7,5% argon, 2,5% CO²).

If necessary, with lots of precaution to avoid perforate material, it is possible, but not recommended, to use a conventional electric arc welding machine, in accordance with the following specifications :

- SMAW (Shield Metal-Arc Welding) process ;
- welding rod conforms to AWS (American Welding Standards) A5.9 specifications ;
- 308L-16 type welding rod with 3/32" diameter (2,4 mm) ;
- current : flat - 40 amperes to 70 amperes
up - 35 amperes to 50 amperes
overhead - 40 amperes to 60 amperes.

MTH-45 MOTORHOMES

MATERIAL

Kit #071041 includes the following parts :

Part No.	Description	Qty
071081	Bracket	2
071101	Protective panel	1
071103	Protective panel	1
071104	Lateral bracket	2
071130	Protective panel	1
071131	Bracket	1
500958	Washer, flat SS.	6
502780	Screw, cap HH	2
502810	Screw, self-tapping	4
5001231	Screw, cap HH	6
5001341	Washer, flat SS.	2

Note : Material can be obtained through regular channels.

1. Weld the two brackets (Prévost #071081) to the crossmember referring to figures 1 and 2 welding specifications. Weld the two lateral brackets (Prévost #071104) to the pillars (refer to figures 3 and 4). Allow welding to cool then remove slag. Recoat welded surfaces.
2. Secure bracket (Prévost #071131) to the crossmember using four screws (Prévost #502810). Slide left (Prévost #071130) and right (Prévost #071101) protective panels into the lateral brackets high enough to be able to support them by the two brackets (Prévost #071081). Fix the two protective panels using two screws (Prévost #502780) and washers (Prévost #5001341). Install rubber protective panel (Prévost #071103) and secure the assembly including the protective panel (Prévost #071103), left and right protective panels and bracket (Prévost #071131) using six screws (Prévost #5001231) and washers (Prévost #500958) (refer to figure 1).

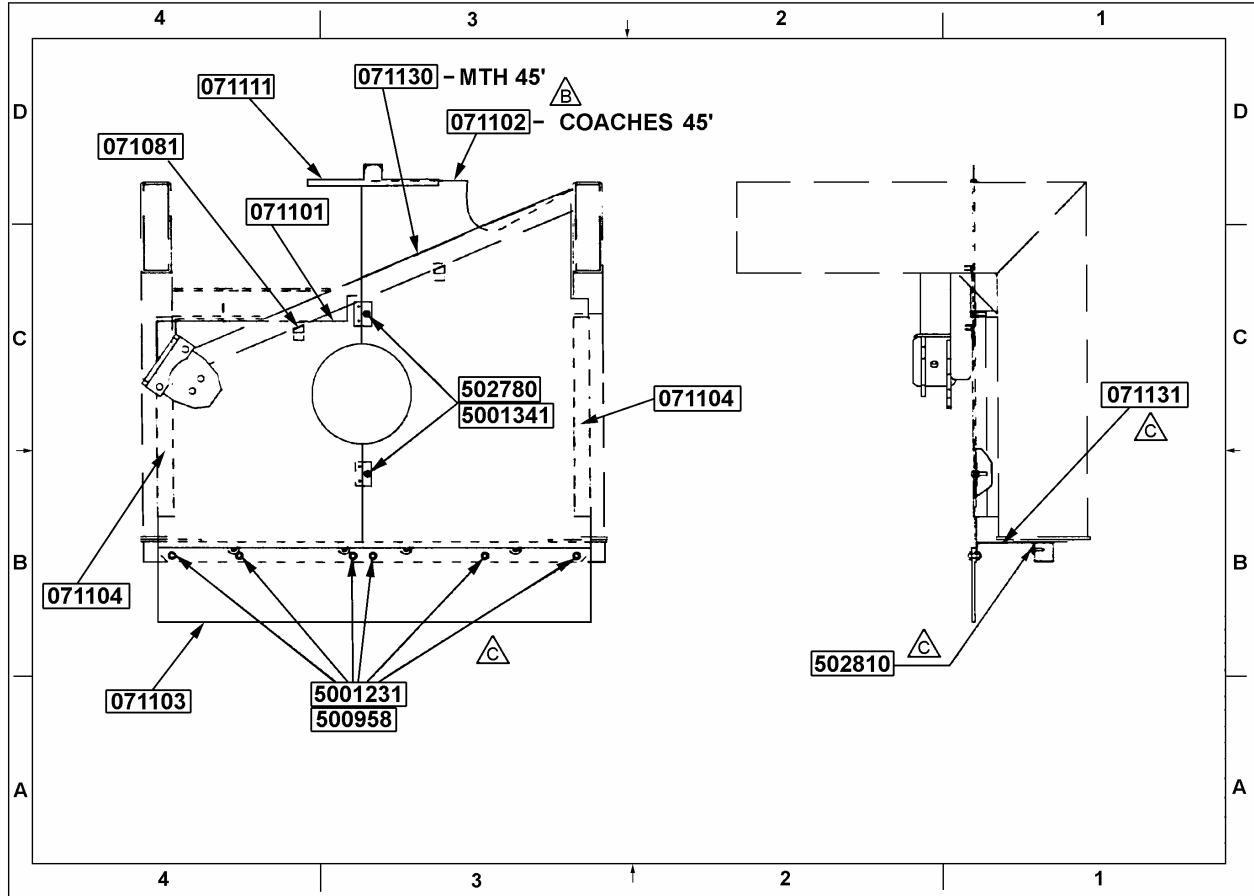


FIGURE 1 : XL SERIES VEHICLES TRANSMISSION PROTECTIVE PANELS

XL-45 COACHES

MATERIAL

Kit #071164 includes the following parts :

Part No.	Description	Qty
071081	Bracket	2
071101	Protective panel	1
071103	Protective panel	1
071104	Lateral bracket	2
071111	Bracket	1
071102	Protective panel	1

071131	Bracket	1
500958	Washer, flat SS.	6
502780	Screw, cap HH	2
502810	Screw, self-tapping	4
5001231	Screw, cap HH	6
5001341	Washer, flat SS.	2

Note : Material can be obtained through regular channels.

1. Weld the two brackets (Prévost #071081) to the crossmember referring to figures 1 and 2 welding specifications. Weld the two lateral brackets (Prévost #071104) to the pillars (refer to figures 3 and 4). Weld the bracket (Prévost #071111) to rear subframe ceiling (refer to figure 5). Allow welding to cool then remove slag. Recoat welded surfaces.
2. Secure bracket (Prévost #071131) to the crossmember using four screws (Prévost #502810). Slide left (Prévost #071102) and right (Prévost #071101) protective panels into the lateral brackets high enough to be able to support them using the two brackets (Prévost #071081) and insert the top part of left protective pannel into the bracket (Prévost #071111). Fix the two protective panels using two screws (Prévost #502780) and washers (Prévost #5001341). Install rubber protective panel (Prévost #071103) and secure the assembly including the protective panel (Prévost #071103), left and right protective panels and bracket (Prévost #071131) using six screws (Prévost #5001231) and washers (Prévost #500958) (refer to figure 1).

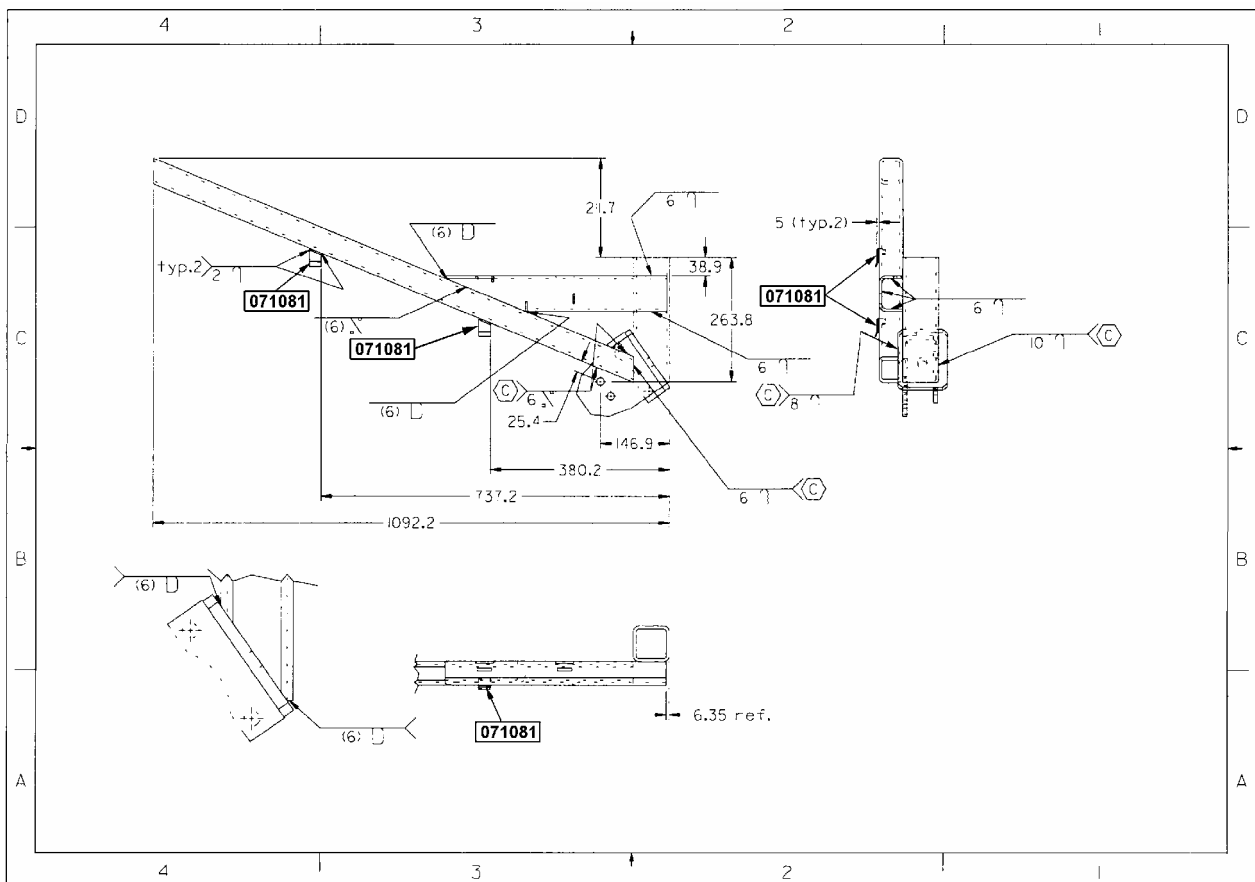


FIGURE 2 : BRACKET INSTALLATION (PRÉVOST #071081)

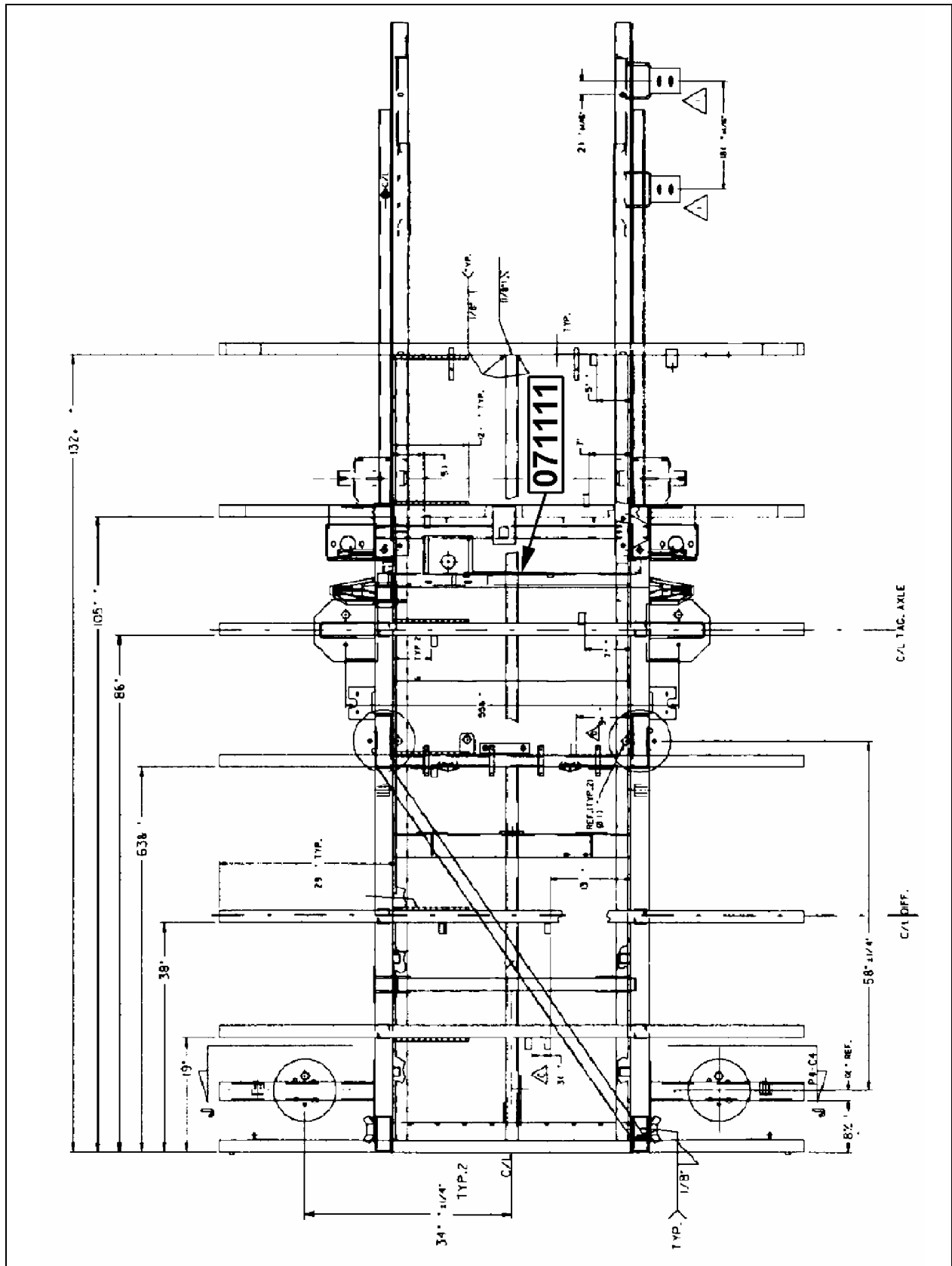


FIGURE 5 : REAR SUBFRAME BRACKET (PRÉVOST #071111) INSTALLATION

H3-41, H3-45 COACHES AND VIP-45 MOTORHOMES

MATERIAL

Kit #071076 includes the following parts :

Part No.	Description	Qty
071100	Plate	2
071098	R. H. Bracket	1
071099	L. H. Bracket	1
071095	Lateral protective panel	2
071124	Under transmission protective panel	1
071125	Bracket	5
011937	Bracket	1
071072	Front protective panel	1
071150	Reinforcement	2
071075	Bracket	6
502810	Screw, self-tapping	5
5001418	Screw, cap HH	24
502216	Nut, hexagonal	24
500270	Washer, flat SS	23
5001417	Washer, flat SS	6

Note : Material can be obtained through regular channels.

1. Weld the five brackets (Prévost #071125) to the crossmember and weld the other bracket (Prévost #011937) to the other crossmember (refer to figures 6 and 7). Use protective panel (Prévost #011124) as a template for proper bracket positioning. Allow welding to cool then remove slag. Recoat welded surfaces. Insert protective panel between bracket (Prévost #011937) and crossmember and use five self-tapping screws (Prévost #502810) and washers (Prévost #500270) to secure protective panel underneath the transmission.

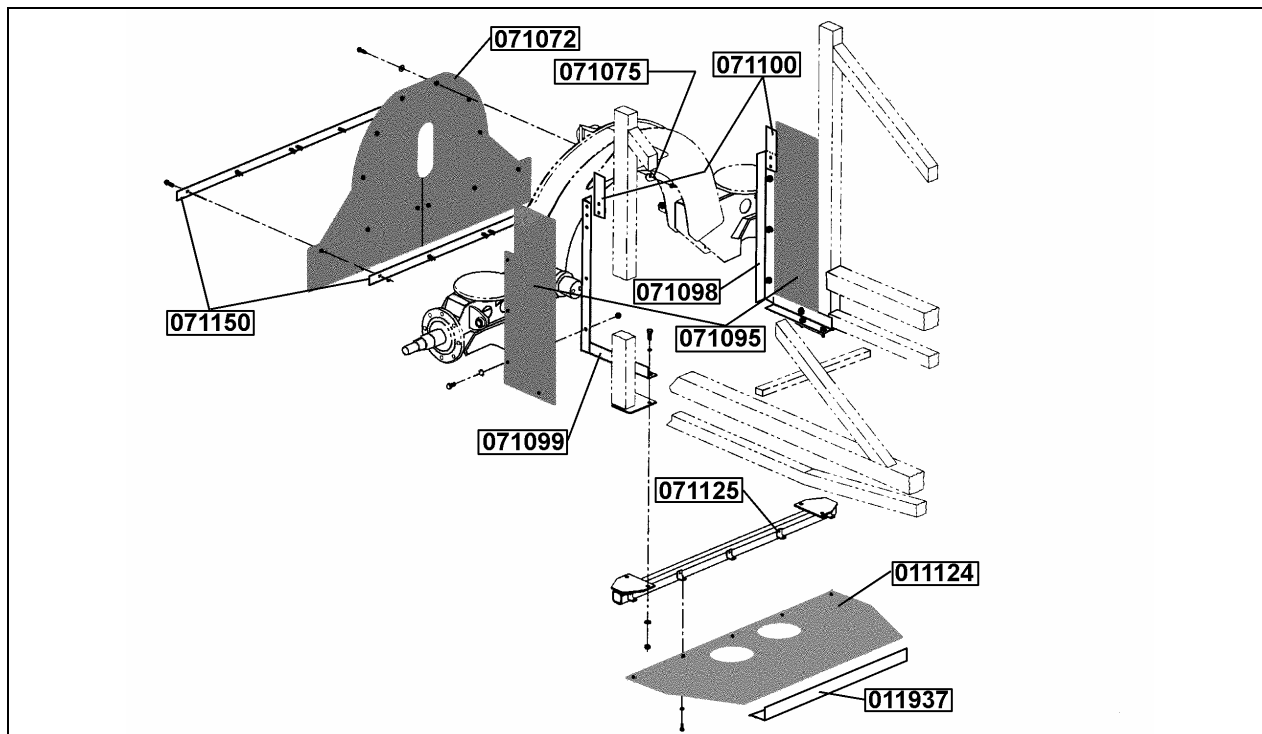


FIGURE 6 : H3 SERIES VEHICLES TRANSMISSION PROTECTIVE PANELS

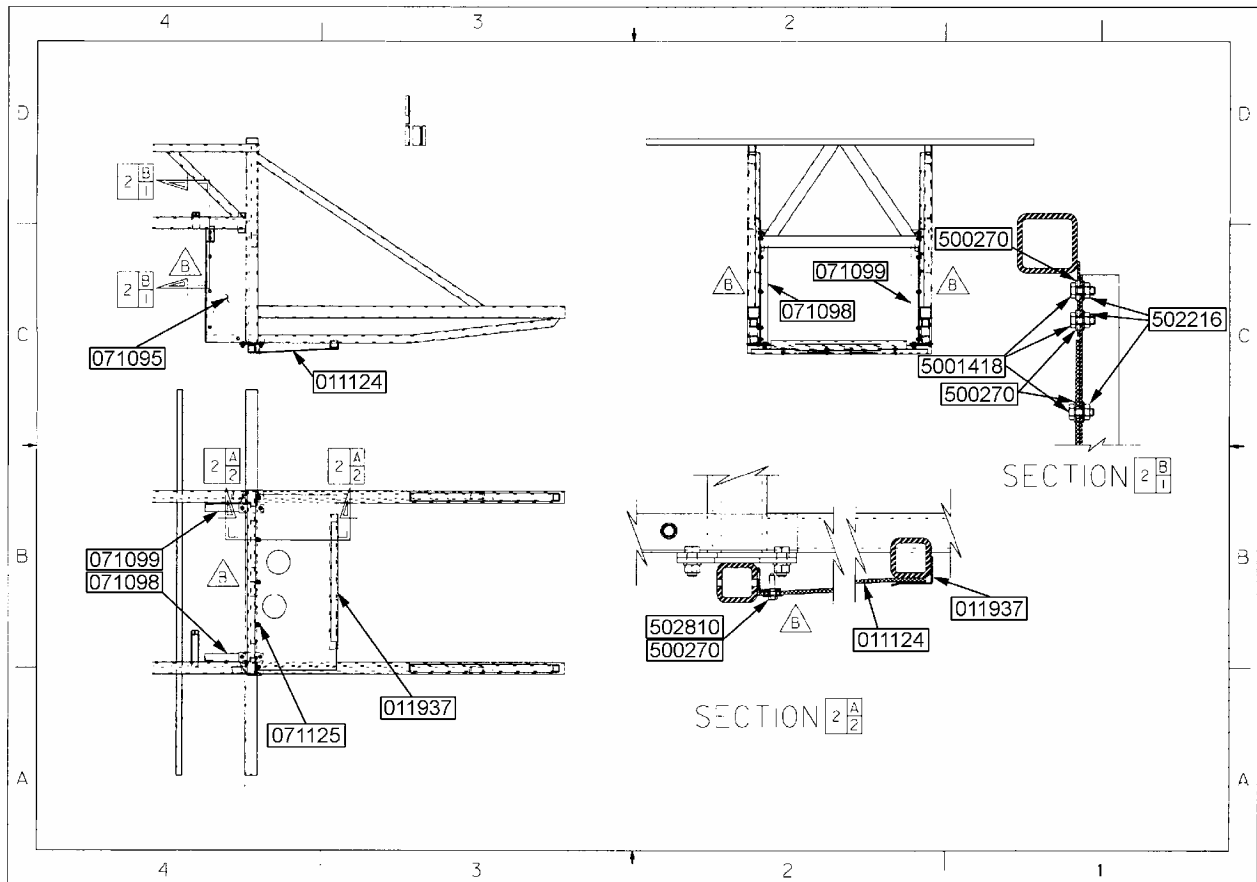


FIGURE 7 : PROTECTIVE PANEL (PRÉVOST #011124) INSTALLATION UNDERNEATH TRANSMISSION

2. Remove the two bolts located on each side of crossmember where were previously welded the brackets (Prévost #071125), install L.H. bracket (Prévost #071099) and R.H. bracket (Prévost #071098) and tighten the bolts. Secure plates (Prévost #071100) to the brackets using screws (Prévost #5001418), washers (Prévost #500270) and nuts (Prévost #502216) for proper positioning before welding. Weld the two plates in place and allow welding to cool before removing slag. Recoat welded surfaces. Secure lateral protective panels (Prévost #071095) using screws (Prévost #5001418), washers (Prévost #500270) and nuts (Prévost #502216).
3. Use front protective panel (Prévost #071072) as a template to position six brackets (Prévost #071075). Weld the brackets in place and allow welding to cool before removing slag. Recoat welded surfaces. Secure top part of protective panel using six screws (Prévost #5001418), large flat washers (Prévost #5001417) and nuts (Prévost #502216). Also use front protective panel as a template to drill tag axle sub-assembly. Install two reinforcement (Prévost #071150), one in front of protective panel and the other one between protective panel and tag axle. Secure using six screws (Prévost #5001418), washers (Prévost #500270) and nuts (Prévost #502216) (refer to figures 6 and 8).

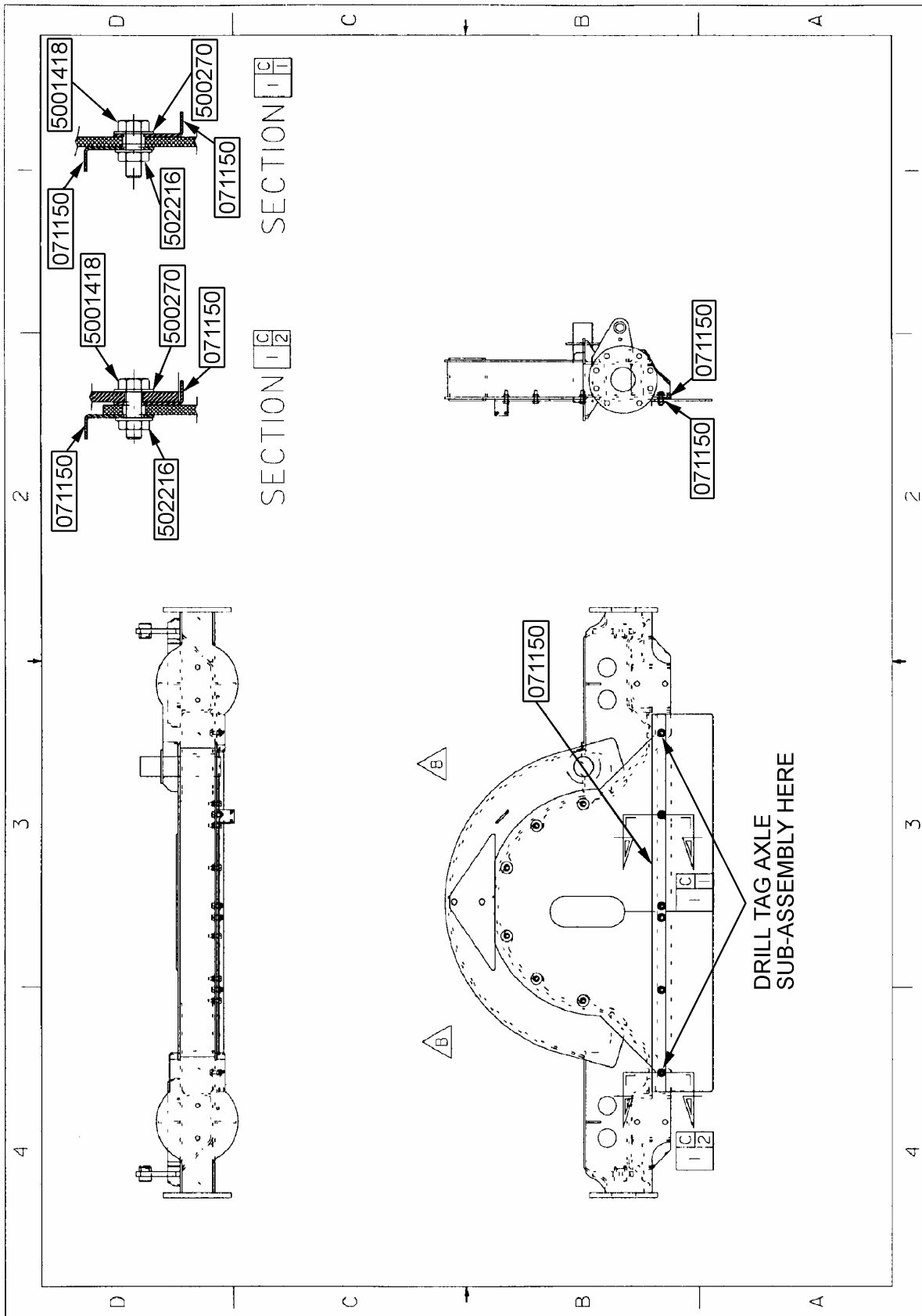


FIGURE 8 : FRONT PROTECTIVE PANEL (PRÉVOST #071072) INSTALLATION