



Part Number: <u>12159</u>	Revision: <u>F</u>	Effective Date: <u>08/11/03</u>	By: <u>J. INGERSLEY</u>
Document Type (indicate):			
<input type="radio"/> Bill of Material	<input type="radio"/> Drawing (may be attached)	<input type="radio"/> Specification	
<input checked="" type="radio"/> Assembly Instructions	<input type="radio"/> Operating Procedure	<input type="radio"/> Other	

Oil Cooler Installation Instructions

I. Parts Included in Kit:

13673	OIL COOLER ASSEMBLY		
13678	OIL COOLER FITTING	EA	2.00
12160	OIL COOLER	EA	1.00
11085	OIL COOLER SPACER	EA	4.00
13627	OIL COOLER MOUNT BOLT	EA	4.00
11088	OIL COOLER MOUNT WASHER	EA	4.00
10802	OIL COOLER LOCK NUT	EA	4.00
10973	FLEXIBLE SERRATED GROMMETING	FT	0.50
	STAINLESS HOSE AND FITTING		
13674	ASSEMBLY	EA	1.00
13675	STAINLESS BRAIDED HOSE	FT	13.00
13676	90 DEGREE 10AN FITTING	EA	2.00
13677	STRAIGHT 10AN TO 1/2" NPT	EA	4.00
12159	OIL COOLER INSTRUCTIONS	EA	1.00

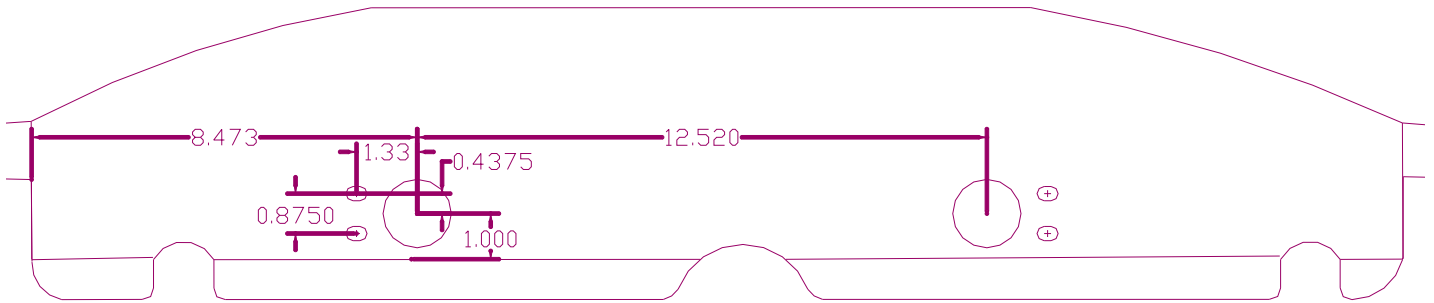
II. Tools Required:

- Tape Measure/ruler
- 1/4" Drill bit
- 1.25" Hole Saw
- Drill
- 3/16" Hex Key
- Marker
- 1/2" Wrench
- Hack saw
- Masking or electrical tape
- Floor Jack
- Jack Stands
- Vise or another 7/8" wrench
- Wire cutters

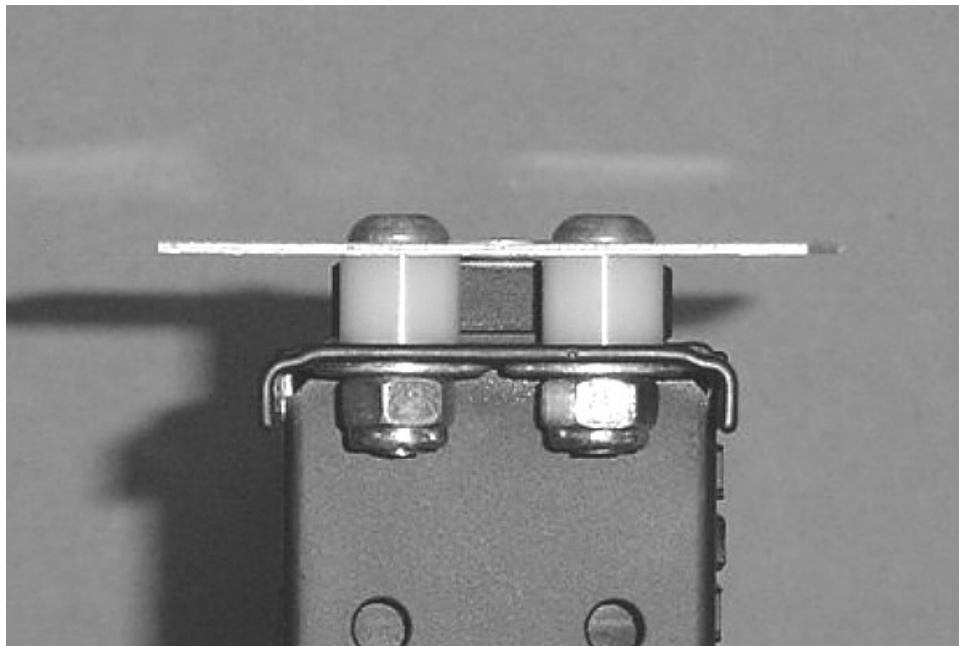
Silicone
Silicone Gun
A few drops of oil
Rags

III. Installation Instructions

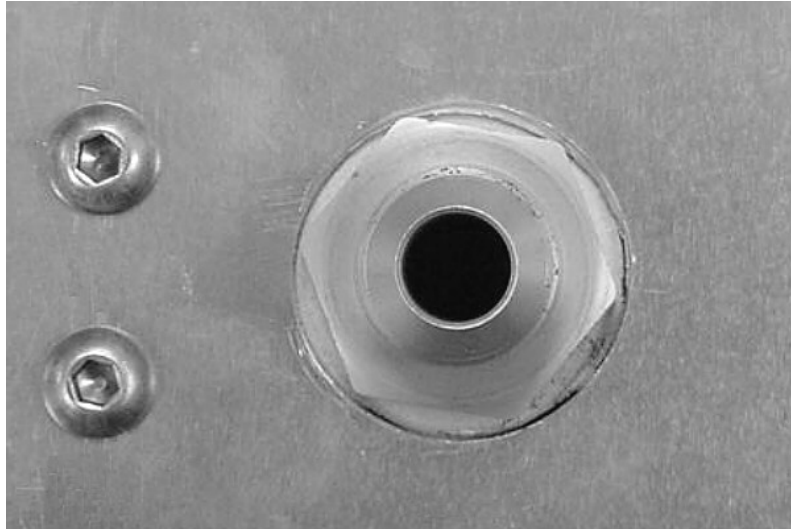
1. Place the front of the car up on jack stands.
2. Place the floor jack under the front of the radiator to hold it up.
3. Use a marker, ruler and the diagram below to mark the holes necessary for the top of the cooler on the radiator floor piece.



6. Drill the large holes with a 1.25” hole saw and the center of the small holes with a 0.25” drill bit.
7. Install the oil cooler assembly from the underside of the car into the holes made.
8. Attach the oil cooler to the aluminum floor using the (4) ¼” button head screws, nylon spacers, washers and lock nuts in the order shown below.



9. Attach the O-ring to AN fittings to the Oil Cooler.



10. Drill a 1.25" hole in the radiator side pieces two inches up from the radiator floor. These are for the hoses.
11. Hold the hose up to the engine filter relocater spin-on-adapter. This will go from the engine to the oil filter relocater. Allow for bends in the hose if necessary. Tape the hose where it needs to be cut (about 3ft).
12. From the Filter relocater out, route the hose and to the oil cooler.
13. Tape the point needed to be cut tightly with electrical tape.
14. Cut the hoses through the tape with a cut-off wheel or a sharp 32 teeth per inch hack saw blade.
13. From the oil cooler, route the hose back to the spin-on-adapter on the engine and again tape the hose if it needs to be cut.
14. Remove the tape.
15. Trim any frayed ends on the hose with a wire cutter.
16. Put a few drops of oil in the end of the hose and on the end of the fitting to lubricate it.
17. Place the red socket in a vise and insert the hose to the bottom of the threads. Mark the hose with a marker so that it is easy to see if the hose moves during the assembly.
18. Remove the red socket from the vise and put the blue fitting in the vise.
19. Push the hose/socket onto the fitting together. Turn the socket with a wrench while at the same time pushing on the hose to prevent it from coming out of the socket.
20. Turn the hose/socket onto the fitting until there is less than 1/16" between the fitting and the socket.
21. Look at the marker line on the hose. If it is more than 1/16" out from the socket undo the hose/socket, readjust the hose and retighten.
22. Once the fitting is on the hose properly, blow air or liquid through the hose assembly to clean the hose ends.