



## **INSTALLATION INSTRUCTIONS**

**Universal Water Line Kit, 36” Hose – P/N 11404**

**Universal Water Line Kit, 52” Hose – P/N 11362**



**READ THIS FIRST:** Study these instructions completely before proceeding. Engine and/or turbocharger damage may occur if any component within these instructions is improperly installed. Turbonetics, Inc or any of its distributors cannot be held responsible for damages as a result of negligent or improper installation. This universal water line kit can be installed using common tools and automotive procedures, but installer must have a thorough knowledge of automotive engine operation and feel comfortable working on the vehicle. If in doubt, contact Turbonetics' technical support staff at 805-581-0333, between the hours of 8:00AM and 5:00PM PST, Monday through Friday.

Remove the universal water line kit from its carton and inspect for any obvious physical damage. All kit components are thoroughly inspected and carefully packaged prior to shipment from the factory. If any shipping damage is evident, contact your supplier and request that they process a claim with the shipper involved. Be sure to review the parts list on this page to verify that you have all necessary system components to proceed. If any components in the parts list are missing, contact Turbonetics' customer service staff.

The information contained in this publication was accurate and in effect at the time the publication was approved for printing and is subject to change without notice or liability. Turbonetics reserves the right to revise the information presented herein or to discontinue the production of parts described at any time.

**PARTS LIST:**

QTY	P/N	DESCRIPTION	11404	11362
2	21651	Fitting, Tee 5/8" Barb to -6AN	X	X
2	21652	Fitting, Tee 3/4" Barb to -6AN	X	X
2	21657-36	Water Supply Hose, 36"	X	
2	21657-52	Water Supply Hose, 52"		X
4	30610	Hose Clamp, Liner Style #010	X	X
4	30611	Hose Clamp, Liner Style #012	X	X
2	31155	Bolt, Banjo – 16mm	X	X
4	31156	Washer, Crush – 16mm	X	X
0.5ft	30827	Hose, Rubber, 5/8"	X	X
0.5ft	31027	Hose, Rubber, 3/4"	X	X
6	2-43620	Cable Tie, Nylon, Black	X	X

**SAFETY REQUIREMENTS:** It is recommended to follow these precautions.

- Always wear safety glasses & gloves.
- Turn the ignition switch to the OFF position & disconnect the battery.
- Always use properly rated jack stands when working under the vehicle.
- Prevent unexpected vehicle movement by using wheel chocks and/or parking brake.
- Operate the vehicle only in well ventilated areas.
- Do not smoke or use flammable items near or around the vehicle's fuel system.
- Keep hands, clothing and other objects away from moving parts when engine is running.

**SUPPLIES:** It is recommended to have the following items before beginning installation.

- A large table or bench, and plenty of adjacent available workspace
- Standard selection of automotive tools, primarily metric sizes



1. Locate the two 16mm ports on your new turbocharger.
2. Apply a thin coat of engine oil to the four supplied copper crush washers (P/N 31156). SEE FIGURE 1

FIGURE 1



3. Insert one of the crush washers (P/N 31156) to each of the 16mm banjo bolts (P/N 31155). SEE FIGURE 2

FIGURE 2



4. Insert the 16mm banjo bolts (P/N 31155) with a crush washer (P/N 31156) into the banjo fitting on the water line (P/N 21657-XX). SEE FIGURE 3

FIGURE 3





5. Insert another crush washer (P/N 31156) to the other end of the banjo fitting. SEE FIGURE 4

FIGURE 4



6. Thread the banjo bolts into the threaded hole on the side of the turbocharger. SEE FIGURE 5-7

FIGURE 5



FIGURE 6



FIGURE 7



7. Tighten the banjo bolts using a 15/16" socket or box end wrench to 20-25 ft.lb. SEE FIGURE 8



FIGURE 8



8. Locate the two water lines that go to your factory heater core inside the cabin. Normally it can be found around your firewall area. SEE FIGURE 9

FIGURE 9



9. Undo the clamp on each hose and remove the two hoses from their hard line connections. Be prepared with a catch can and a few shop rags for splashing engine coolant.
10. Cut short lengths (as needed for your application) of the supplied 5/8" (P/N 30827) and/or 3/4" (31027) hose. SEE FIGURE 10 & 11

FIGURE 10





11. Insert one end of the supplied rubber hose that you just cut to length into the hose barbs for the factory heater core and slide two supplied worm clamps over the hose, #010 (P/N 30610) and / or #012 (P/N 30611). Insert one of the supplied t-fittings, 5/8" (P/N 21651) and / or 3/4" (P/N 21652) onto the other end of the fitting. Tighten both hose clamps on each hose. SEE FIGURE 11 & 12

NOTE: Make sure the threaded portion of the t-fitting is facing the direction where you would be running the steel braided turbo coolant water lines to.

FIGURE 11



FIGURE 12



12. Re-install the factory heater hose onto the other end of the t-fitting and secure using the factory hose clamps. SEE FIGURE 13

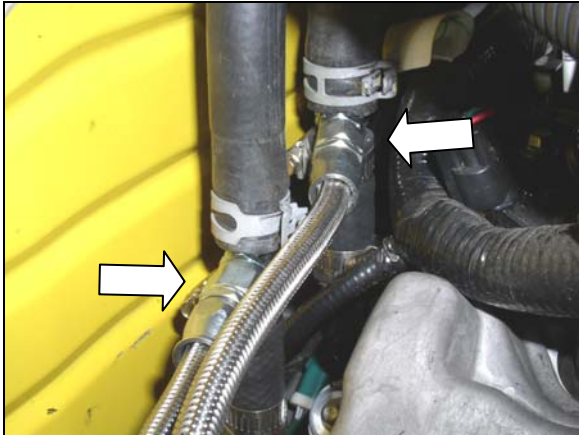
FIGURE 13



13. Route the new supplied water lines from the turbocharger to the newly installed t-fittings making sure the line is routed in a way that it will not come in contact with any moving or hot parts. Attached the female -6AN fitting on the steel braided line to the threaded male -6AN on the t-fitting and tighten using a 3/4" open wrench. SEE FIGURE 14

NOTE: Make sure there are not kinks in the lines before securing them.

FIGURE 14



14. Using the supplied nylon cable ties, secure the steel braided water lines.

15. Check your coolant level and top off as necessary.

NOTE: After a few test drives, allow the engine to cool and re-check coolant level. Top off is necessary.