Installation Procedure (Tank must be empty, clean and free of fuel.)

**CAUTION:**
If working on a tank that contains fuel or fuel vapors, use extreme caution. Carefully follow these steps to minimize danger from explosive fuel vapor.

1. Extinguish all cigarettes and remove open flames, hot material and anything else that might ignite fuel or fuel vapor from area. Be sure there is adequate ventilation in work area.
2. Remove ignition key and disconnect ground (-) cable from battery.
3. Drain fuel from tank and remove from area. Reinstall drain plug. Disconnect the fuel line from the fuel tank. Remove the mounting straps or bolts which fasten the fuel tank to the vehicle than remove tank.
4. Remove old sender and remove all remains of the gasket from the old sender from the fuel tank. A clean surface is required for proper sealing of the new fuel sender and neoprene/cork gasket. If excessive debris is found in the fuel tank, flush with water and thoroughly dry the tank with forced air.
5. Auto Meter has two different styles of fuel sender. View the sender from the top with the float arm extended perpendicular from the stem. See FIGURE 1 to determine which sender you have. Type 1 (top) has top nuts off-center and the float extends from one side of the float arm. Type 2 (bottom) has centered nuts on top and the float is centered on the float arm.
6. If you have the Type 1 Fuel Sender refer to instructions 7-14. If you have Type 2 Fuel Sender refer to instructions 15-23 on the reverse side.

**TYPE “1”**
7. Measure tank depth where the new fuel sender will be installed. Refer then to ADJUSTMENT TABLE 1 for correct lengths of float arm (Length “A”) and stem (Length “B”). Adjust the length of the stem by loosening the adjusting screws. Retighten the screws when the correct length is reached. Remove the float arm from the assembly and cut to Length “A”. Reattach float arm to the float arm connector with set screw and locknut See FIGURE 2.
8. Slide the gasket over the float arm and sending unit to fit flat against the underside of the mounting plate. Place the fuel sender in the fuel tank and align the five holes in the sender flange with the holes in the fuel tank. The five mounting holes are not equally spaced and will only line up in one angular position. This allows repositioning of the float arm relative to the mounting holes every 90°. If necessary to rotate the sending unit for your installation, loosen the nuts on the bottom of the mounting plate enough to allow the stem to rotate. Make sure to rotate the stem in 90° increments to insure clearance of the float arm with the tank wall.
9. Check for adequate clearance between float and fuel tank wall. (By holding fuel level sender up along side of the fuel tank, you can better check for clearance of vertical tank wall). If the tank wall interferes with the travel of the float arm, loosen the stem mounting nut and rotate the stem to a position where the float will clear the tank wall.
10. Place the fuel level sender back in the fuel tank and check for clearance between the float and the bottom of the tank. The float can not touch the bottom of the tank. If the float does touch the bottom of the tank, double check the tank depth, float arm length and stem length. Make the appropriate adjustments to the sender and recheck it.
11. Tighten all of the fuel sender’s fasteners including the stem mounting nut, stem adjustment screws, and the float arm set screw and locknut.
12. Install the fuel level sender and gasket in the tank using the five flange screws. Leak test this area to ensure a proper seal. If unsure how to perform any of the above or below procedures, or are unsure of electrical wiring connections, seek the services of a qualified individual.
13. Reconnect the wire from the fuel level gauge to the sender terminal stud with the nuts provided. If the fuel tank is not metal or if it is fastened to the vehicle with only straps, a separate wire from one of the five flange screws to a good chassis ground is necessary.
14. Tighten all the sender’s fasteners and reinstall the fuel tank in the vehicle. Reattach the fuel line to the tank and tighten the drain plug.
15. Measure tank depth where the new fuel sender will be installed. Refer then to

ADJUSTMENT TABLE 2 for correct lengths of float arm (Length “A”) and stem (Length “B”). Measure, mark, and cut the stem to the correct length. Slide float up float arm until the outer edge of the float is 3/16” (6mm) less than the float arm length (Length “A”). Mark and cut off any remaining length of the float arm extending over 1/8 inch past the push-on retainer.

16. Secure the case on the stem. The case should be secured 1/4” (6mm) above the bottom of the stem. Be sure to place the wire between the case and bracket, NOTthe bracket and the stem See FIGURE 3.

17. Slide the gasket over the float arm and sending unit to fit flat against the underside of the mounting plate. Place the fuel sender in the fuel tank and align the float in the sender flange with the holes in the fuel tank. The five mounting holes are not equally spaced and will only line up in one angular position. This allows repositioning of the float arm relative to the mounting holes every 90°. If necessary to rotate the sending unit for your installation, loosen the brass nut on the top of the mounting plate enough to allow the stem to rotate. Make sure to rotate the stem in 90° increments to insure clearance of the float arm with the tank wall.

18. Check for adequate clearance between float and fuel tank wall. (By holding fuel level sender up along side of the fuel tank, you can better check for clearance of vertical tank wall). If the tank wall interferes with the travel of the float arm loosen the stem mounting nut and rotate the stem to a position where the float will clear the tank wall.

19. Place the fuel level sender back in the fuel tank and check for clearance between the float and the bottom of the tank. The float can not touch the bottom of the tank. If the float does touch the bottom of the tank, double check the tank depth, float arm length and stem length. Make the appropriate adjustments to the sender.

20. Tighten all of the fuel sender’s fasteners including the stem mounting nut and case adjusting screws.

21. Install the fuel level sender and gasket in the tank using the five flange screws. Leak test this area to ensure a proper seal. If unsure how to perform any of the above or below procedures, or are unsure of electrical wiring connections, seek the services of a qualified technician.

22. Reconnect the wire from the fuel level gauge using a ring terminal to the sender terminal on the top of the mounting plate. If the fuel tank is not metal or if it is fastened to the vehicle with only straps, a separate wire from one of the five flange screws to a good chassis ground is necessary.

23. Tighten all the sender’s fasteners and reinstall the fuel tank in the vehicle. Reattach the fuel line to the tank and tighten the drain plug.

**SERVICE**

For service send your product to Auto Meter in a well packed shipping carton. Please include a note explaining what the problem is along with your phone number. Please specify when you need the product back. If you need it back immediately mark the outside of the box "RUSH REPAIR," and Auto Meter will service product within two days after receiving it. ($10.00 charge will be added to the cost of "RUSH REPAIR." If you are sending product back for Warranty adjustment, you must include a copy (or original) of your sales receipt from the place of purchase.

**12 MONTH LIMITED WARRANTY**

Auto Meter Products, Inc. warrants to the consumer that all Auto Meter High Performance products will be free from defects in material and workmanship for a period of twelve (12) months from date of the original purchase. Products that fail within this 12 month warranty period will be repaired or replaced at Auto Meter’s option to the consumer, when it is determined by Auto Meter Products, Inc. that the product failed due to defects in material or workmanship. This warranty is limited to the repair or replacement of parts in the Auto Meter instruments. In no event shall this warranty exceed the original purchase price of the Auto Meter instruments nor shall Auto Meter Products, Inc. be responsible for special, incidental or consequential damages or costs incurred due to the failure of this product. Warranty claims to Auto Meter Products, Inc. must be transportation prepaid and accompanied with dated proof of purchase. This warranty applies only to the original purchaser of product and is non-transferable. All implied warranties shall be limited in duration to the said 12 month warranty period. Breaking the instrument seal, improper use or installation, accident, water damage, abuse, unauthorized repairs or alterations voids this warranty. Auto Meter Products, Inc. disclaims any liability for consequential damages due to breach of any written or implied warranty on all products manufactured by Auto Meter.

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