INSTALLATION INSTRUCTIONS FUEL LEVEL SENDER

2650-1192-00 Rev. A



NOTE: This fuel tank sending unit is not intended to replace any existing fuel senders that have an existing fuel pick up tube. This sender is not intended to replace a sender that is mounted in the side or bottom of the tank. This sender will only replace an existing sending unit if the existing sender had the same 5-screw mounting flange, and no fuel pick up tube. This sending unit can replace some 6-screw mounting flange senders with the use of an Auto Meter (model #3263) adapter ring. There are no adapter rings available for sending units that used the spin-lock ring to secure the sender. If you have an existing sender that this sender is not intended to replace, you may install this sender into the top of the tank, on a flat surface, with a 1-1/2" hole. Leave your existing sender in place to plug the hole and/or to continue serving as your fuel pick up. Use extreme caution if you are making a new 1-1/2" hole in the top of any fuel tank that ever had fuel in it. Any fuel vapors can be extremely flammable!

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 the drained fuel from area. Disconnect the fuel line from the fuel tank. Remove the mounting straps or bolts which fasten the fuel tank to the vehicle then remove tank.
- 4. If replacing an existing sender, remove the 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. If you are not replacing an existing sender, and are creating a new hole in the top of the tank, and the tank is used, you must completely drain and clean the inside of the tank. Some installers will even fill the tank with water after thorough flushing, prior to drilling the 1-1/2" hole (using a 1-1/2" hole saw for metal). After drilling the hole, drain the water (if used), flush thoroughly, and let dry completely before installing the sender, or re-filling with fuel.
- 5. 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.
- 6. 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 brass nut 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.

FIGURE 1



Adjustment Table 1

Adjustment Table, INCH			Adjustment Table, MILLIMETER		
TANK	FLOAT ARM	STEM	TANK	FLOAT ARM	STEM
DEPTH	"A" Length	"B" Length	DEPTH	"A" Length	"B" Length
5" ½ 6 ½ 7 7 ½ 8 9 9 ½ 10 1 1 12 23 14 ½ 13 14 ½ 15 16 ½ 17 7 8 % 9 9 10 11 12 23 14 ½ 14 15 15 16 ½ 17 7 8 % 19 9 ½ 20 1 12 22 23 24 12 24 12 12 24 12 12 24 12 12 24 12 12 12 12 12 12 12 12 12 12 12 12 12	$\begin{array}{c} 122233344455566677788899101111112223334445556667778888991011111112213314441111111111111$	2233334444455555666667777788888999991000111111111111111111111	127 mm 140 152 165 178 191 203 216 229 241 254 267 279 292 305 318 330 343 356 368 381 394 406 419 432 445 457 470 483 495 508 521 533 546 559 572 584 597 610	41 mm 51 59 68 76 86 95 103 121 130 138 148 157 165 175 183 192 200 210 217 227 244 262 271 289 298 306 324 333 341 359 368 378	65 mm 71 78 84 90 97 103 110 116 122 129 135 141 148 154 160 167 173 179 188 192 198 205 211 217 224 230 237 243 249 256 262 268 275 281 287 294 300 307

- 7. 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.
- 8. 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 cannot 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.
- 9. Tighten all of the fuel sender's adjustment fasteners including the stem mounting nut, stem adjustment screws, and the float arm set screw and locknut.
- 10. 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.
- 11 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.
- 12. Connect grounded wire to one of the mounting flange screws. You may share this ground with the gauge ground if you wish.

- 13. 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.
 - **NOTE:** BEFORE REMOUNTING TANK, MAKE SURE TO CHECK FOR LEAKS AND TEST OPERATION.

FIGURE 2



SIDE VIEW of Set Screw



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. 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 must be transportation prepaid and accompanied with dated proof of purchase. This warranty applies only to the original purchase of product and is non-transferable. All implied warranties shall be limited in duration to the said 12 month warranty period. Breaking the instrument see or implication, 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.

FOR SERVICE SEND TO: AUTO METER PRODUCTS, INC. 413 W. Elm St., Sycamore, IL 60178 USA (866) 248-6357 ©2012 Auto Meter Products, Inc. Email us at service@autometer.com 2650-1192-00 Rev. A 6/7/12