

Holley® HydraMat™

Holley® HydraMat Kits



16-100



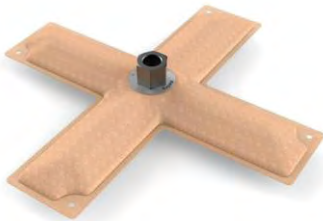
16-101



16-102



16-103



16-104



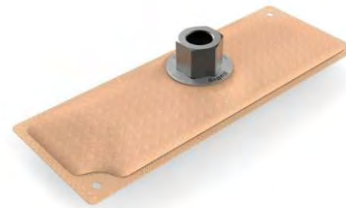
16-105



16-106



16-107



16-108

Part #	Description	Leg Width	Acceptable Tank Opening	Recommended Magnet Kit
16-100	15 x 15 cross-center outlet – 3/8" NPT	2.5"	3.15" and larger	16-204
16-101	15 x 8 cross-center outlet – 3/8" NPT	2.5"	3.15" and larger	16-203
16-102	15 x 8 cross-offset outlet – 3/8" NPT	2.5"	3.15" and larger	16-203
16-103	8 x 8 cross-center outlet – 3/8" NPT	2"	3.15" and larger	16-203
16-104	11 x 11 cross-center outlet – 3/8" NPT	2.5"	3.15" and larger	16-203
16-105	15 x 3 rectangle – center outlet – 3/8" NPT	N/A	2.07" and larger	16-203
16-106	11 x 11 square – center outlet – 1/2" NPT	N/A	4.00" and larger	16-204
16-107	15 x 15 square – center outlet – 1/2" NPT	N/A	4.00" and larger	16-204
16-108	8 x 3 rectangle – center outlet – 3/8" NPT	N/A	2.07" and larger	16-203

CAUTION! Do not use PTFE pipe tape or sealant paste! Loose particles will be drawn into the fuel pump and it will fail!

AVAILABLE KITS AND ADAPTERS:

P/N	Description	P/N	Description
26-148	Fuel Bulkhead Kit	AT984088ERL	Straight 1/2" Hose Barb to 1/2" NPT Male
26-151	4 Wire Bulkhead Kit	AT984010ERL	Straight 5/8" Hose Barb to 1/2" NPT Male
26-152	2 Wire Bulkhead Kit	AT981608ERL	3/8 NPT Adapter Pipe Thread to AN -8
26-161	3/8 I.D. x 2' Submersible Rubber Hose	AT981610ERL	1/2 NPT Adapter Pipe Thread to AN -10
AT984008ERL	Straight 1/2" Hose Barb to 3/8 NPT Male	AT981666ERL	3/8 NPT to -6 AN Fuel Line Adapter
AT984066ERL	Straight 3/8" Hose Barb to 3/8 NPT Male	AT165206ERL	3/8 Hard Line to 3/8 NPT
AT984068ERL	Straight 3/8" Hose Barb to 1/2" NPT Male	AT165256ERL	5/16 Hard Line to 3/8 NPT

IMPORTANT NOTES:

1.0 FUEL COMPATIBILITY:

Works with all gasoline blends (Alcohol, Ethanol, Methanol, and E-85). Not for use with oils, diesel fuels, or any other fluids.

2.0 NO PRE-FILTER NEEDED!

All HydraMats are constructed with a 15 micron depth media, so no pre-filtration is required for the fuel pumps. **Use of an additional pre-filter could result in pump failure.**

3.0 HYDRAMAT FILTER LIFE EXPECTANCY

The HydraMat filtration performance will provide 5-10 years or more depending on the fuel type, how clean your fuel system is, how much you drive your car, and how aggressively the car is used. Severe duty applications should inspect the filter at regular intervals to ensure the Hydramat is not restricted by debris. The Hydramat is not cleanable.

4.0 HYDRAMAT CLEANING

The large majority of the debris is imbedded inside the depth media and cannot be removed. Surface cleaning is not practical or effective and should NOT be done. In extreme conditions (Racing or Off Road) check your HydraMat annually.

5.0 CLICK BOND INSTRUCTIONS

Kit number 16-201 is intended for steel or aluminum fuel tanks.

Kit number 16-202 is intended for polypropylene or polyethylene fuel tanks.

Position the HydraMat on the floor of the fuel tank in the preferred location. Mark the tank surface thru the mounting holes in the HydraMat for the position of each stud. Follow the directions provided in the Click Bond kit for cleaning and adhesive application. Allow to dry for 24 hours. Unscrew the plastic frame and slide the HydraMat over each stud. Open kit bag and install the washer then tighten the nut to 7-10 IN. LBS.

6.0 MAGNET INSTALLATION INSTRUCTIONS FOR STEEL TANKS

Assemble the washer on the stud and torque the nuts as follows:

- 16-203 kit (4-40 thread) 4-5 IN. LBS.
- 16-204 kit (6-32 thread) 7-10 IN. LBS.
- 16-205 (disk magnet) should be paired with 16-204 (stud magnet) for polypropylene and aluminum tanks when the Click Bond stud option is not selected.

IMPORTANT! These edges may be very sharp, which could damage the HydraMat or injure the installer. Apply a Duct-type tape around the tank opening on sharp edges to prevent damage to the media if:

- the opening is smaller than the width of the HydraMat in its free state or
- the folded/rolled HydraMat must be additionally pressed through the opening

Insert the HydraMat through the tank opening and position on the tank floor. The magnets can be pushed across the floor with a wooden dowel or plastic tool to make the HydraMat as flat as possible in the desired position for the suction hose alignment. **Be careful not to allow any portion of the HydraMat or suction hose to block or bind the motion of the fuel level sender float.**

7.0 MAGNET INSTALLATION INSTRUCTIONS FOR POLYPROPYLENE OR POLYETHYLENE FUEL TANKS

Position the HydraMat as described above. Locate the disk magnets from kit number 16-205 on the outside surfaces opposite the internal magnets on the HydraMat. Position the magnets to make the HydraMat as flat as possible on the tank floor.

8.0 ATTACHMENT OF SUCTION HOSE

Holley recommends the use of a convoluted PTFE hose or a rubber hose designed for use in-tank fuel use. Holley offers a 2 ft. 3/8" in-tank compatible hose (P/N 26-161). This hose can be attached to the HydraMat before or after insertion into the fuel tank, depending upon the tank opening size. The torque requirements for all adapters to the HydraMat are as follows:

- 3/8" NPT requires 20-24 FT. LBS.
- 1/2" NPT requires 25-30 FT. LBS.

CAUTION! Do not use PTFE pipe tape or sealant paste! Loose particles will be drawn into the fuel pump and it will fail!

9.0 RETURN HOSE LOCATION

Secure a minimum of 5/16" I.D. return hose so the discharge is directed towards the pickup connection point and approximately 1" above the HydraMat surface.

10.0 2-TANK APPLICATIONS WITH EXTERNAL FUEL PUMP

Select the largest HydraMat size that can fit through the tank opening. Position an 8AN or 10AN "Y" adapter between the 2 tanks to provide the shortest, equal lengths from the tank flanges. Position the fuel pump as close as possible to the "Y" and mount it at or below the top surface of the tanks.

11.0 HYDRAMAT INSTALLATION EXAMPLE – POLYPROPYLENE FUEL CELL

NOTE: We recommend buying a new tank or having your tank professionally cleaned **before** installation of the HydraMat.

1. Install the corner magnets as instructed in kit 16-203 to the HydraMat (**Figures 1a & 1b**).

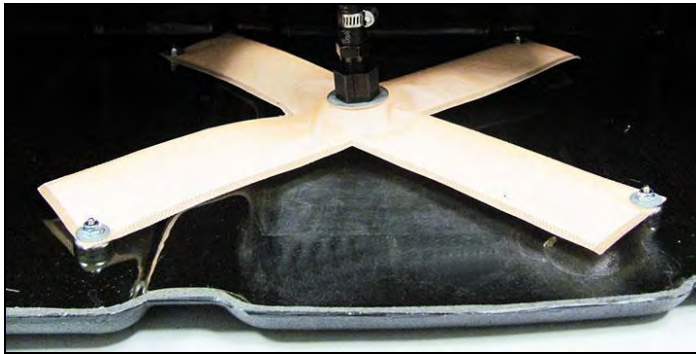


Figure 1a



Figure 1b

2. Torque the 3/8" barbed hose adapter into the HydraMat outlet (20-24 FT. LBS.) Cut the in-tank rubber hose (Kit# 26-148 includes hose, bulkhead, nut, stat-o-seals, and clamps or Kit# 26-161 2 ft. 3/8" hose only kit) to the desired length and clamp in place. (**Figure 2**)



Figure 2

3. Cover the edge of the tank opening with electrical tape or duct tape. (**Figure 3**).
4. Form/fold the HydraMat and insert through the tank opening (**Figure 4**). Position it on the tank floor and then locate the external magnets opposite the magnets secured to the HydraMat (**Figure 5**).

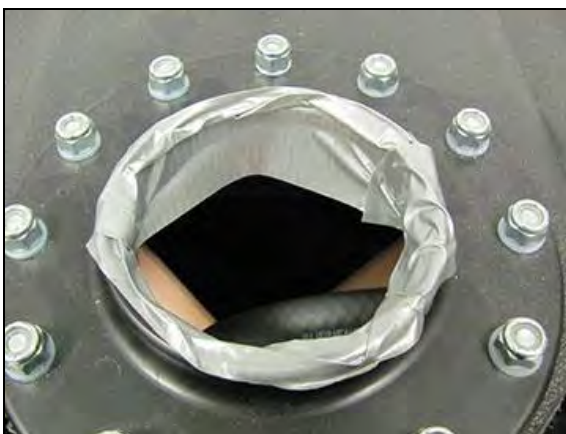


Figure 3



Figure 4



Figure 5

5. Remove tape from the hole edge and then clamp the 3/8" rubber hose to the right angle adapter and install on the bulkhead feed thru. **Be careful not to allow any portion of the HydraMat or suction hose to bind the motion of the fuel level sender float if one is used.** (Figures 6 & 7)

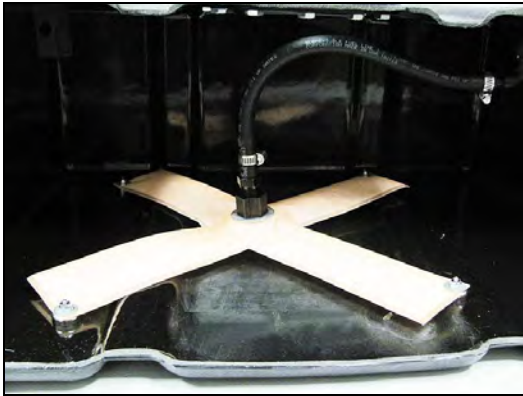


Figure 6

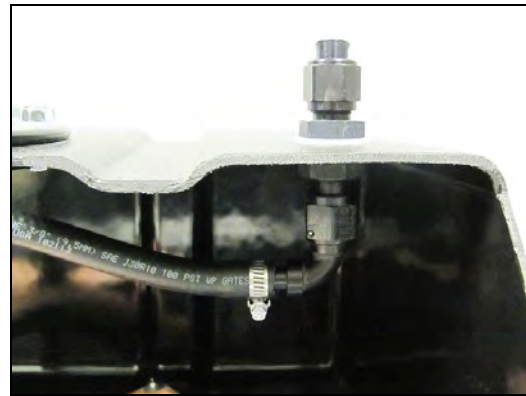


Figure 7

6. Tie wrap the return fuel hose against the fuel pick up hose. Position the end of the hose approximately 1" above the HydraMat (Figures 8 & 9).



Figure 8



Figure 9

12.0 HYDRAMAT INSTALLATION EXAMPLE – '73 TO '87 GM C10 TRUCK (using 16-105)

NOTE: We recommend buying a new tank or having your tank professionally cleaned **before** installation of the HydraMat.

1. Un-snap the fuel level sender (FLS) float arm from the hanger assembly. Cut off and de-burr the 3/8" supply tube at a distance of 1-9/16" from the (FLS) bracket edge (**Figure 10**).

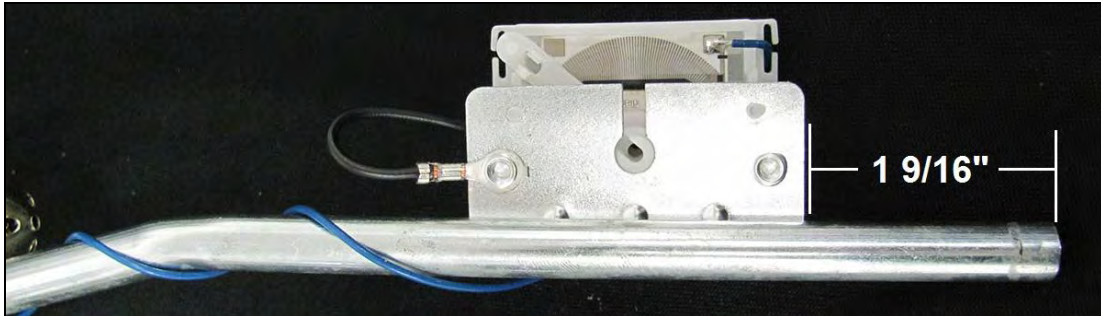


Figure 10

2. Install the Earl's 3/8" tube adapter into the 16-105 HydraMat outlet and torque to 20-24 FT. LBS. Insert the tube into the compression sleeve and nut, then position the HydraMat to be in line with the (FLS) bracket. Hand tighten the nut initially to hold this position and then add another 1/2 to 3/4 turn. (**Fig. 2**)



Figure 11

3. Cover the edge of the tank opening with electrical tape or duct tape (**Figure 12**).



Figure 12

4. Form/fold the HydraMat and insert thru the tank opening (**Figure 13**).



Figure 13

5. Install the hanger up to the place where the (FLS) float arm can be installed and snapped into position. **Be careful to avoid any portion of the HydraMat binding the motion of the fuel level sender float** (**Figure 14**).



Figure 14

6. Remove the hole edge tape and complete the hanger installation.



Figure 15

**Holley® Performance Products
1801 Russellville Road
Bowling Green, KY 42101**

**1-270-781-9741
1-866-464-6553
www.holley.com**

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