

Mag-Hytec

11/15/19

Installation Recommendations

FORD

#6R80 TRANSMISSION PAN

Please read these instructions and parts list completely before installing this new transmission pan. Consult your owner's or shop manual for transmission fluid requirements.

TOOLS REQUIRED

8 MM socket wrench and driver (for removing the old cover)
5 MM allen bit with a 3/8 ratchet drive (5 MM allen key is furnished)
3/16 allen bit with a 3/8 ratchet drive (3/16 Allen key is furnished)
5/16 allen bit with a 3/8 ratchet drive (5/16 Allen key is furnished)
3/8 drive torque wrench
Gasket scraper
Smooth flat file by 8 to 12 in. long
Oil drain pan (minimum 12 Qt. capacity)
Mercon LV
Fluid pump to fill transmission fluid.

PARTS CONTENT

<u>Number</u>	<u>Quantity</u>	<u>Item</u>
1.	1	Mag-Hytec Transmission pan with <u>O-ring 568-282</u> " (installed)
2.	22	6mm x 25mm zinc plated allen head cap screws <u>Torque 7-9 ft lbs (105 in lbs)</u>
3.	23	6mm stainless AN washers
4.	1	Drain plug assembly with magnet and <u>O-ring ARP 568-910</u> (installed)
5.	1	1/8 pipe plug SS (for optional temperature sender not included) Drain plug and 1/8 pipe plug (<u>Tighten with two fingers using the short side of allen wrench</u>)

A word of caution to the installer / vehicle owner:

The Mag-Hytec pan is designed to fit the factory Ford #6R80 transmission as supplied as original equipment. However, in some applications, or because of the use of certain factory options and/or after market equipment, there may be clearance problems between your Mag-Hytec pan and other vehicle components. It is the responsibility of the vehicle owner/installer to ensure that there is no contact between the pan and other moving or fixed vehicle components. **Contact with any vehicle component, or the modifying of the Mag-Hytec pan voids the warranty. Mag-Hytec assumes no liability, expressed or implied, for damage or injury to persons or property.**

FORD #6R80 TRANSMISSION PAN**Installation:**

1. **Park your vehicle on level ground and apply the parking brake.** Use jack stands if the vehicle must be raised.
2. Position a large drain pan under the transmission to catch the fluid.
3. Starting at the front, remove 19 of the 21 existing pan bolts, loosen last 2 carefully to keep fluid spills to minimum.
4. Using a gasket scraper, start at the rear of the pan and carefully (so as not to gouge the transmission case) insert between the existing pan and transmission housing and pry the old pan off. Remove last 2 bolts.
5. Allow all of the old oil to drain.
6. Using a gasket scraper if needed, carefully remove all of the old gasket material (dried silicone) from the transmission case.
7. Use clean lint free rags to clean the transmission case gasket surface. The surface must be clean and flat for the gasket to seal.
8. Before installing the new Mag-Hytec pan, check the gasket mating surface on the transmission case for dents, irregularities, or gouges. Should any exist, carefully remove the high spots using a smooth flat file. **BE CAREFUL NOT TO "ROUND OFF" THE FLAT GASKET SURFACE.**
9. Check to make sure the threads in the case are deep enough by screwing the 6mm X 25mm bolt in the case with the washer in place. This is to check for corrosion or other debris in threads.
10. Remove the filter and replace it with the filter for stock truck applications (Ford Part # 7L1Z-7A098A). At every change, the stock filter must be used with the Mag-Hytec pan.
11. Apply a thin layer of ATF oil to the Mag-Hytec pan O-ring.
12. Align the bolt holes and install the 21 cap screws 6mm X 25mm with washers and tighten "finger tight." A dab of RTV on threads will help keep bolts from vibrating out. **DO NOT USE AIR GUN, OR IMPACT DRIVER, ALSO KNOW AS PNEUMATIC TOOLS. Hand held tools only.**
13. Using a 5mm hex bit and 3/8 drive torque wrench, torque the zinc plated allen cap screws to **(7 ft. lbs (105 in lbs))** in a "cross tight" pattern.
14. **Check** the drain plug and 1/8 pipe plug for tightness. If you are going to install a temperature sender, do so at this time. Remove the 1/8 pipe plug and install the sender in its place. **Be Sure To Use LPS All Purpose Anti-Seize or equivalent On The Sender's Pipe Threads. "TIGHTEN" both the DRAIN PLUG and 1/8 PIPE PLUG TO (Tighten with two fingers using the short side of allen wrench) DO NOT OVER TIGHTEN. Do Not Use Air Tools.**
15. Remove the dipstick cover with a 19mm wrench, the metal cap and plastic dipstick will come out together. Add in 8 qts new Mercon LV using a pump being very careful around the catalytic converter (extreme heat warning). After initial fill start the truck and proceed through the gears, returning to park. Add fluid as needed to achieve a level in the upper dotted section. The Mag-Hytec **pan will hold approximately 9 quarts of oil or 4 quarts of oil over a stock pan.** The temperature should be at normal running temperature. The level should be checked with engine running. **A word of caution. When filled correctly, removing the dipstick when the truck is not running, will result in fluid spilling out.**

FORD #6R140 TRANSMISSION PAN**Maintenance:**

The Mag-Hytec pan is constructed of high quality aircraft aluminum and has a powder-coated finish. The bolts are zinc plated allen head screws and the washers are stainless steel. These components require no maintenance.

We suggest you follow the manufacturer's recommendations for the transmission service intervals. You may drain your transmission oil without removing the Mag-Hytec pan. However, we recommend you remove the pan and change the filter at every transmission oil change. You may notice "fuzzy" metallic particles on the magnetic drain plug. This is normal wear. (If you notice any larger chips of metal on the magnetic portion of the plug, further inspection should be performed. We suggest that this inspection be performed by a professional mechanic who specializes in automatic transmissions.) Remember to clean the drain plug assembly prior to reinstallation. Apply a thin layer of oil to the drain plug O-ring and reinstall. **(Tighten with two fingers using the short side of allen wrench) DO NOT OVER TIGHTEN.** Follow the procedure for filling the transmission.

When it's time to service your transmission, **DO NOT USE ANYTHING TO "PRY" THE PAN FROM THE TRANSMISSION CASE that will damage the gasket surface. If you do damage the surface, use a mill smooth file carefully.**

We at Mag-Hytec invite your comments and suggestions. We are continually looking for better ways to provide the highest level of products and service for our customers. You may submit your comments and suggestions by writing or calling our office at:

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