

# Mag-Hytec

05/08/17

Installation Recommendations

## FORD

### #6R140 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

10 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)  
LE 1150 Mercon approved or ("LE" 7500 Monolec Power Fluid for sever service and HD use)

#### PARTS CONTENT

<u>Number</u>	<u>Quantity</u>	<u>Item</u>
1.	1	Mag-Hytec Transmission pan with <b>O-ring Series A 62.25"</b> (installed)
2.	20	6mm x 25mm zinc plated allen head cap screws <b>Torque 7-9 ft lbs (105 in lbs)</b>
3.	21	6mm stainless AN washers
4.	1	Drain plug assembly with magnet and <b>O-ring ARP 568-910</b> (installed)
5.	1	1/8 pipe plug SS (for optional temperature sender not included) Drain plug and 1/8 pipe plug ( <b>Tighten with two fingers using the short side of allen wrench</b> )

#### A word of caution to the installer / vehicle owner:

The Mag-Hytec pan is designed to fit the factory Ford #6R140 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 #6R140 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. Open drain plug to drain fluid.
3. Starting at the rear, remove 17 of the 19 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, 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 # BC3Z-7A098-B). 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 19 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, IMPACT DRIVER, OR ALSO KNOWN 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 equal 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 and add in the new LE 1150 Mercon or **(“LE” 7500 Monolec Power Fluid for severe service and HD applications) or equivalent.** The Mag-Hytec pan will hold **15.5 quarts of oil or 5.5 quarts of oil over a stock pan**, when the torque converter and cooler are both drained the total capacity is now about 23.5 quarts. Fill to full line on dipstick.

**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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