



Installation Instructions

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T400 DUMP KIT INSTRUCTIONS #402300

Packing List

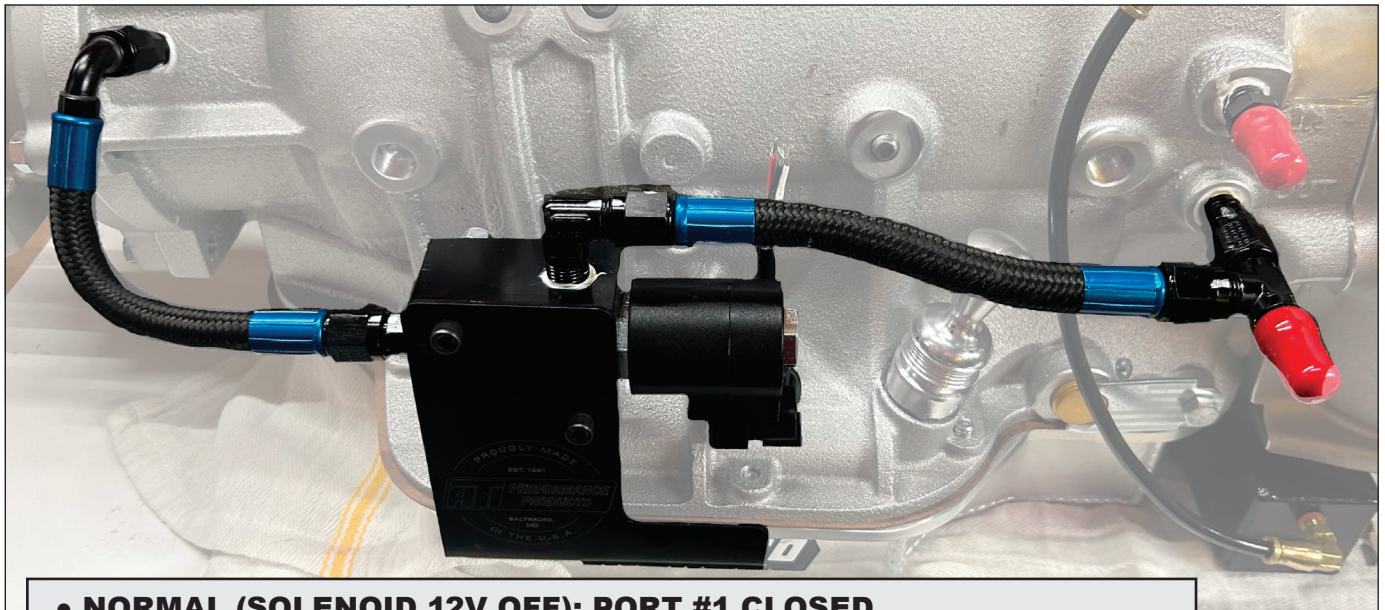
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|---|---|
| ☐ HOSE ASSEMBLY (1) 90° -6 AN END AND (1) STRAIGHT -6 AN END | ☐ (2) 951188 BOLT - 1/4 - 20 X 2 |
| ☐ HOSE ASSEMBLY (2) STRAIGHT -6 AN ENDS | ☐ (2) 952005 NUT - 1/4 - 20 NYLOK |
| ☐ (1) 402301 400 - PG - SOLENOID | ☐ (2) 953040 WASHER - 1/4 AN FLAT |
| ☐ (1) 960127 FITTING - 6 AN TEE | ☐ (1) 960124 PLUG - HEX SOCKET |
| ☐ (2) 960002 FITTING - COOLER | ☐ (1) 960123 FITTING - 90 DEG MALE |
| ☐ (1) 402305 DUMP KIT - MOUNT BRACKET | ☐ (2) 951180 BOLT - 5/16 - 18 X 1 |
| ☐ (1) 973085 CAP - FITTING COVER | ☐ (1) 960134 FITTING - 6 AN CAP |
| ☐ (2) 953025 WASHER - 5/16 AN FLA | ☐ (2) 403171B SPACER - AL - LOCK U |

- This kit assumes you have -6 AN cooler fitting already installed in your transmission.
- If your Transmission does not run an external cooler, you will need to install (1) -6 AN fitting in the out port - which is the bottom hole.
- Use the provided AN cap on the tee if you do not run a transmission cooler.
- Use Teflon paste on all NPT fittings only. -6 AN fittings should not require any sealant.

Tools needed: Drill/Tap & Pipe Sealant

- 1) Verify you have all the parts in the above packing list
- 2) Install the -6 AN to 1/4" NPT 90° fitting (960123) into port #1 on the black aluminum solenoid block (402301) and orient it so that it points to the solenoid winding/plug
- 3) Install the -6 AN to 1/4" straight fitting (960002) into port #3 on the black aluminum solenoid block (402301)
- 4) Install the -6 AN to 1/4" NPT plug (960124) into port #2 on the black aluminum solenoid block. (402301)
- 5) Using (2) 1/4-20 x 2" bolts (951118), (2) 1/4" washer (953025) and (2) 1/4" nuts (952005), attach the black aluminum solenoid block (402301) to the aluminum mount bracket (402305). Bolts will go through the mount bracket (402305) first, and then through the solenoid block (402301).

Orient the block on the bracket so that when the bracket is mounted to the pan rail, the solenoid winding/plug is facing forward (see fig 1). This should orient the port #1 -6 AN 90° fitting on top, the plugged port #2 on the bottom, and the straight -6 AN fitting facing the rear. Tighten bolts/nuts to 7 ft/lbs. Ultimately the ATI logo will face out.



- **NORMAL (SOLENOID 12V OFF): PORT #1 CLOSED**
- **DUMP (SOLENOID 12V ON): PORT #1 OPENED TO PORT #3, FLUID DIRECTED TO REAR OF CASE**
- **PORT #2 IS PLUGGED (NON-FUNCTIONAL)**

Figure 1. Installation Layout

- 6) Install the complete solenoid/bracket assembly on the trans using (2) 5/16-18 x 1-1/14" bolts (951180) and (2) 5/16" washers. Orient the bracket so that the mounting flange is against the underside of the pan flange. Tighten the bolts to 15 ft/lbs. NOTE: Use (2) spacers (403171B) if your pan has pockets for the pan bolt heads and washers (most cast pans).
- 7) Install the 90° degree -6 AN swivel "tee" (960127) to the transmission existing -6 AN cooler outlet fitting. Before fully tightening the fitting, orient the one outlet so it faces the solenoid block (402301). Tighten down the fitting.
- 8) Loosely install the -6 AN to 1/4 NPT straight fitting (960002) to the 90° hose end of the one hose assembly that returns fluid to the case.
- 9) Attach the straight hose end to the straight -6 AN fitting in port #3 on the rear of the solenoid block (402301)
- 10) Orient the hose so that the 90° hose end is pointing to the case in the rear section in front of the tail housing.
- 11) Use the loose end to mark a suitable spot in the case for the solenoid to vent fluid back to. Remove ext housing and place rag inside to catch shavings.
- 12) Drill and tap the case where it was marked to 1/4" NPT.
- 13) Remove the straight -6 AN fitting (960002) from the 90° loose hose end. Thread this fitting in the case. Reattach the hose to this fitting and tighten
- 14) Install the 2nd hose assembly from port #1 on the solenoid block (402301) to the 90° tee (960127) previously installed on the cooler outlet fitting. Tighten both hose ends.
- 15) Solenoid requires a fused 12V-16V applied to activate as a pressure dump.