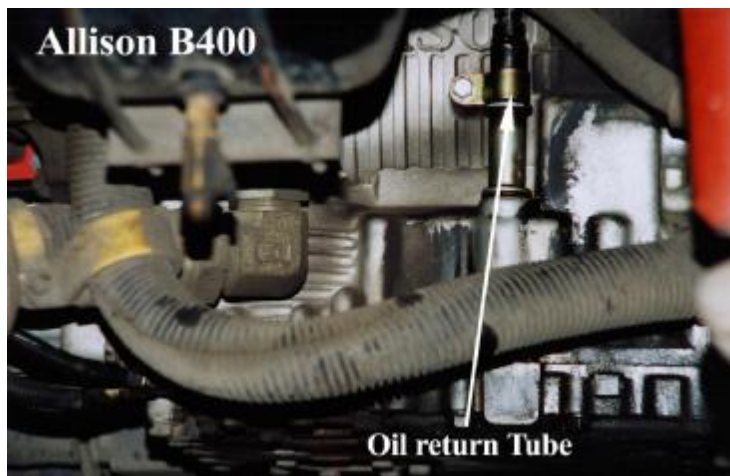




**TRANSMISSION FILTER APPLICATION DATA
FOR ALLISON B400**

PARTS LIST FOR ALLISON KIT #FIL878-AT-B400

- 1 Filter unit #FIL878 (with mounting bracket)
- 1 Flow restrictor- 1/4" NPT male to #4 JIC male
- 1 Adapter- 1/4" (o-ring straight thread to female 1/4 " NPT)
- 1 Oil return tube Filtakleen part #AB400RT (with clamp)
- 1 JIC Fitting (#6 NPT male to #4 JIC Male) Weatherhead part # C5205x4x6
- 2 3/8" x 1 1/2" grade 8 bolts
- 2 3/8" grade C locknuts
- 4 3/8" hardened flat washers
- 1 Service record label
- 12 8" cable ties



Installation Instructions

Filtakleen recommends the replacement of the fluid and main filters at the time of the Filtakleen installation to ensure that the fluid is in the best possible condition. The Filtakleen filter will allow the fluid to remain at the highest possible standards for extended time periods.

1. Locate a suitable mounting location. Ensure that the mounting location allows room above the filter to enable easy filter changes and below the unit to allow for proper protection of fittings and hoses. Install the filter unit using the supplied 3/8" bolts, lock nuts and washers.

2. Install pressure fitting and restrictor. These fittings are to be installed in the PTO port on the bottom corner of the base plate. The pressure plug will be a #4 o-ring straight fitting. If the port is already utilized, a "Tee" must be used. Place a drain pan below the location to catch any leaking fluid. Insert the adapter (1/4" o-ring straight thread-1/4" female NPT) into the pressure port. The restrictor (1/4" male- #4 JIC) will then be installed into the adapter. **This restrictor MUST be used to avoid damage to the filter vessel.**

3. Install the oil return tube. The Allison B400 transmission is equipped with ports to allow for installation of a dipstick on either side of the unit. The return tube is designed to be installed in the available port. To locate the port, identify the dipstick entry point, and locate the plug in the same location on the opposite side of the transmission. The plug may be removed with a large flat-blade screwdriver by gently prying the plug out. Insert the return tube by tapping gently, and secure with the supplied clamp.

4. Install hoses. Measure hose lengths, and cut hoses. Ensure that the hose routing offers sufficient protection for the lines. Filtakleen recommends high quality, high temperature hose, particularly stainless steel braided Teflon hose rated for a minimum of 300lbs. burst pressure. Install hose ends. Take extra care to ensure that the hoses are routed to the proper locations on the filter. Install the hose coming from the pressure port to the location marked **IN** on the filter, and the line from the return tube to the location labeled **OUT** on the filter. Install covering over hoses as needed to protect against rubbing and wear. Complete installation by securing lines with the provided wire ties.

5. Inspect the installation. Prior to starting the vehicle, inspect the installation for proper clearances, proper hose routing and loose fittings. Inspect the filter unit. Check that a filter cartridge is installed and that the large o-ring is in place correctly within the lid groove. Check that the small washer is in place around the lid bolt below the lid washer and that the lid is properly torqued (23 ft. lbs. minimum). Start the engine and check for proper operation. Allow the unit to warm up, and check to see that the filter unit warms. This will indicate the proper flow of fluid. **Check fluid levels as recommended by the manufacturer and add as needed.**