

TCI® 742010 Clutchless - Style Circlematic Powerglide

Reverse Shift Pattern: Park-Reverse-Neutral-Low-High

Installation: This transmission is designed to be used with either a multi-piece straight drive or 'dummy' torque converter. **Do not use a conventional torque converter with your Circlematic.**

Since there are no external pressure controls required with this transmission, you'll only need to install a shifter, mount, dipstick and cooler lines.

Approximate fluid capacity for your Circlematic is 3 1/2 to 4 quarts and will vary slightly depending on your choice of pan and whether or not you're running a transmission cooler. **Do Not Overfill!!**

Operation: Your new Circlematic is designed for ease of operation with no external pressure controls such as ball valves or clutch pedals required.

The best drivability is achieved by setting your engine idle speed below 1400 rpm. The 744500 valve body in your Circlematic is equipped with standard carburetor jets to orifice the fluid in low and reverse. See **Figure 1.**

The low gear jet supplied from TCI[®], located near the servo tube, has a .118 orifice size (#96) and the reverse jet has a .104 orifice (#90). Installation of larger jets can help drivability if the car is trying to stall

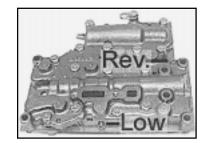


Figure 1 - Jet Locations

when stopped in gear, however, excess bleed off can lead to premature wear of the band and reverse clutches so it's advisable to get your idle speed as low as possible first. If you do change jets, it's best to check your mainline pressure @ 2000 rpm to be sure that you have at least 70 psi in low and reverse.

Note: Due to the routing of fluid in the valve body, it is normal for the line-pressure gauge to indicate 0 psi in high gear when monitoring pressure at the servo port. Some cases have separate ports for high gear located on the passenger side, just behind the bellhousing. To check reverse pressure, utilize the port located at the rear of the case, just ahead of the tailhousing. Again, GM did not machine a pressure port on every Powerglide case so your Circlematic may or may not have a port.

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