

GM 6L80, 6L90

High Capacity 4-5-6 Clutch Apply Piston Kit

Part No.

104960-10K

- Apply Piston
- Piston Dam
- Apply Plate
- Backing Plate

Patent Pending

NOTE: Use with OE-style, 36-tooth frictions and OE steels.

NOTE: OEM frictions are about .063" thick and OEM steels are about .086" thick. Utilizing these frictions and steels, this kit allows one additional friction plate to be installed for a total of 7 frictions in a 6L80 and 8 frictions in a 6L90 (Figure 2).

WARNING: This kit is intended for applications with aftermarket tuning that accommodates more aggressive clutch apply from additional friction and removal of waved plate. Installation in OEM calibrated vehicles may result in more pronounced shift feel during application of the 4-5-6 clutch.



1. Clutch Assembly Information

OE recommended clutch clearance is .008–.012" per friction. See list of selective retaining rings for adjusting clutch clearance (Figure 1).

2. Disassembly

- Dismantle 4-5-6 clutch assembly using OEM recommended methods and procedures.
- Discard OE apply piston, piston dam, waved plate and backing plate. Set aside remaining components for reuse.

3. Installation & Assembly (Refer to Figure 2 on page 2)

- Install Sonnax apply piston into housing assembly.
- Reinstall OE clutch return spring.
- Install Sonnax piston dam. Using appropriate tools, compress piston dam just far enough to allow OE piston dam retaining ring installation.



WARNING: Use care to avoid damaging inner and outer sealing lips on piston dam. Compressing the piston dam too far will cause inner seal lip damage.

- Install Sonnax piston apply plate (Figure 2). Do NOT install OE waved plate.
- Assemble 4-5-6 clutch pack with one additional OE thickness friction plate.
- Install Sonnax backing plate.
- Reinstall or replace OE backing plate retaining ring.



NOTE: OE retaining ring is selective and is available in varying thicknesses to allow for proper setting of clutch clearance (Figure 1).

Backing Plate Selective Retaining Rings

Figure 1

GM Part No.	Thickness	Color
24233407	.063–.067"	Yellow
24233408	.080–.083"	None
24233406	.096–.100"	Purple

Figure 2

