

Extreme Duty 4-5-6 Clutch Hub & Intermediate Shaft

Part No.
104690-45

Patent No. 11,815,137

NOTE: Use with Powerglide-style, 45-tooth frictions, Sonnax steels and high capacity piston kit **104960-20K**. OE Part No. 24230480.

GM 6L90



Overview

This shaft has a smaller diameter hub with 45 teeth that is intended for use with Sonnax Powerglide-style clutches and special steels, see **Figure 1** below for typical usage.

It also requires use of Sonnax **104960-20K** high capacity 4-5-6 clutch apply piston kit that has apply plate and backing plate with smaller inner diameter.

Figure 1

| Sonnax P/N | Material | Thickness | 6L80 | 6L90 |
|------------|--------------------------|-----------|------|------|
| 104120-01 | 4-5-6 Clutch Steel, Wide | .078" | 1 | 3 |
| 104120-02 | 4-5-6 Clutch Steel, Wide | .090" | 5 | 4 |
| 104120-03 | Clutch Friction, BW HE | .060" | 7 | 8 |

NOTE: See page 2 for Instructions.

Special Tools

- DT-47868-1 - Clutch Travel Weight / 10 lbs

Instructions

Before checking clutch clearance, soak clutches in fluid for 15 minutes. Install clutches and steels into 4-5-6 housing and apply clutch pack several times with compressed air.

1. Place clutch travel weight onto 4-5-6 backing plate (**Figure 2**).
2. Position dial indicator to read clutch travel weight movement.
3. Apply 4-5-6 clutch with compressed air.
4. Clutch clearance .008-.012" per friction, adjust by changing retaining ring or using different thickness steels (**Figure 3**).



Figure 2

4-5-6 Clutch

Figure 3

| OE Part No. | Retaining Ring Thickness | Color |
|-------------|--------------------------|--------|
| 2423407 | .063-.067" | Yellow |
| 2423408 | .080-.083" | None |
| 2423406 | .096-.100" | Purple |

| Sonnax Part No. | Steel Thickness | Color |
|-----------------|-----------------|-------|
| 104120-01 | .078" | None |
| 104120-02 | .090" | None |