



Transmission Report

Volume 14, No. 3

December 2023



These new kits combine many popular Sonnax parts to help you reliably rebuild units with heavy wear.

The Comprehensive Kit for BIG PROBLEMS You Don't Want Back

- Restore shift quality & repair common TCC trouble areas to reduce comebacks
- Easy-to-use kits include step-by-step instructions
- Save time & money by getting everything you need to repair troublesome units in one place, at one cost

Chrysler RFE

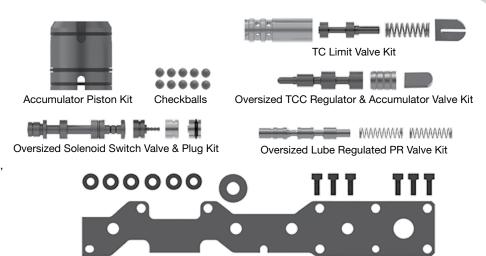
Choose from two RFE kits for '18-earlier 45/545RFE, 65/66/68RFE transmissions. Measure large spool diameter on OE switch valve to verify which kit you need.

For Units with .420" Solenoid Switch Valve Part No. SC-RFE-420

Requires F-44912-TL, 44892-TL, F-92835-TL32, F-44912-TL10, F-44912-TL12 & VB-FIX, 92835-BST Recommended*

For Units with .453" Solenoid Switch Valve Part No. SC-RFE-453

Requires F-44912-TL, 44892-TL, F-92835-TL31 F-44912-TL10, F-44912-TL12 & VB-FIX*



*Reaming tools and fixtures sold separately.

GM 6L80/90

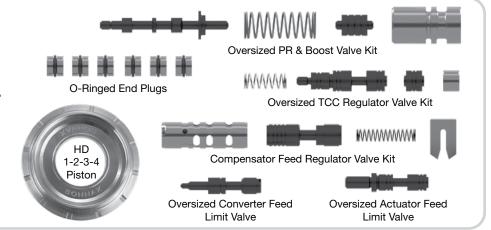
Part No. SC-6L80-6L90

Requires F-104520-TL11C, F-104740-TL12, F-104740-TL7, F-104520-TL7C, VB-FIX & VB-06*



Stator Support Bushing Kit

Pump Vanes Checkballs



Accumulator Cover Plate Kit





Authentic OEM/S Parts

Supplied Exclusively by Rostra

- Best Performance
- Proven Reliability
- **OE Design**

Rostra Powertrain Controls is now your source for common 4- and 6-speed replacement solenoids previously marketed under the BorgWarner brand. It's an ideal way to supply your everyday jobs with popular Chrysler, GM and Ford parts you can trust.



Look for this icon online at www.rostrapowertrain.com to identify authentic OEM/S parts supplied by Rostra and contact your distributor today!

Ford

AODE, 4R70W, 4R75W Solenoids

TCC (PWM) Hard Wire

Part No. 50076-S



EPC Hard Wire

Part No. 50122-S



EPC Soft Wire

Part No. 50080-S



EPC Hard Wire w/o Inductive Signature

Part No. 50079-S



EPC Hard Wire w/ Inductive Signature

Part No. 50106-S



Chrysler

62TE & RFE Solenoid Control Modules

62TE Part No. 50304-S



45/545RFE, 65/66/68RFE Part No. 50298-S



40/41TE, 41AE, A604

Solenoid Pack

Part No. 50083-S



GM

6T40/45 Variable Bleed Solenoids

These solenoids are <u>not</u> available separately from the OEM, making them a cost-effective solution to rebuilding valve bodies and TEHCMs.

NH Solenoid Part No. 50NHVBS-S NL Solenoid Part No. 50NLVBS-S



4L60-E, 4L65-E, 4L70-E

Variable Force Motor

Part No. 50085-S

4L30-E, 4L60-E, 4L80-E, 4T80-E

PWM Force Motor

Part No. 50058-S

4L80-E, 4T80-E

PWM Force Motor, Silver Can, 2-Pin Connector on Side

Part No. 50105-S







4L60-E, 4T40-E, 4T65-E, 4T80-E, 5L40-E, Allison® LCT1000

TCC Solenoid (11 ohm)

Part No. 52-0240

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Prevent 6L80/90 ComebacksEasily Clean & Replace the Lube Dam

The lube dam on the output planetary in GM 6L80/90 units holds lots of gunk and metal shavings, especially if there has been a converter failure.

Here's a quick and easy way to service these planetaries by removing the OE dam, cleaning the assembly and installing Sonnax dam 104584LP:

- 1. Set planetary assembly in arbor press.
- 2. Place used bearing race or other ring with inner diameter of about 3.275" onto OE lube dam and compress inner area of dam.
- 3. Place 4L80-E sprag race or other ring with an outer diameter of 4.85" onto OE lube dam and compress outer area of dam. The outer crimped diameter of dam should deform at edges, allowing it to pop off.
- 4. After cleaning planetary, place Sonnax lube dam on housing.
- 5. To seat Sonnax dam, press on outer diameter of dam with appropriate diameter tool such as 68RFE UD/OD backing plate and 4T65-E drum.



Output Planetary Lube Dam Part No. 104584LP



NEW Tech Video

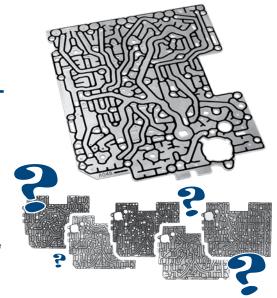
Scan the code to watch the easy way to service a dam!

How to Choose Your Sonnax ZF8 Separator Plate

Less Confusion = Less Downtime!

Sonnax offers six direct replacement, OE-quality valve body separator plates for ZF8 applications. Each plate incorporates a black silicon sealant bead to bond upper and lower valve body sections together once the rebuild is complete.

Because there is often overlap between unit fitment and the stamped number on the OE separator plate, Sonnax created this convenient table (also found on the part pages at www.sonnax.com) to help you order the right plate every time.



OE Valve Body Code	Number Stamped on Original Plate 1087 327 175 ZFS	Sonnax Part Number	Unit Fitment
A028/B028	1087-327-099	35740-028	ZF8HP45/50/55, ZF8HP70/75
A048/B048	1087-327-175 ZFS, 52854725AB	35740-048	845RE, ZF8HP45, ZF8HP70
A049/B049	1087-327-178	35740-049	ZF8HP45/50/55, ZF8HP70/75
A054/B054	1087-327-189 ZFS	35740-054	ZF8HP55
A071/B071	1087-327-221	35740-071	ZF8HP55
A187/B187	1102-327-188	35740-187	ZF8HP45/50/55, ZF8HP70/75

Ford & GM 10-Speed Repairs



NEW! Signal Damper Kits

These top-quality Sonnax kits allow long-lasting and quick repair of the lower valve body casting without reaming. The O-ring provides a positive seal against critical pressure loss even in worn bores.





ZIP. LPC Piston Kits

Ford 10R60/80/90/140 & GM Gen. 1 10L8/90 Part No. 105740-04K

GM Gen. 2 10L80/90 Part No. 105740-05K

OVERCOME: Harsh shifts & high line pressure

Bore and/or piston wear in the LPC signal damper can prevent proper main line pressure control and cause excessively high line pressure.







TCC Piston Kit



Ford 10R60/80 & GM Gen. 1 10L80/90 Part No. 105740-06K



OVERCOME:

- Lube failures
- TCC apply & release concerns
- Overheated fluid & converter
- Delayed engagement

Bore and/or piston wear in the signal damper can allow TCC signal oil pressure to be exhausted, preventing correct TCC apply.





6R60/75/80 & ZF6 **Heavy Duty Overdrive "E" Piston**

Part No. 95984-01 Fits Ford units that use part # 7L1Z-7A262-A (casting # rf7L1P-7G418-BA). Fits ZF6HP26 units that use part # 1068.371.037 (casting # 1068.471.037).

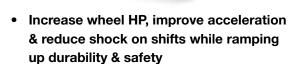
- High-strength billet aluminum & improved design maximize durability
- Prevents breakage commonly seen with OE pistons due to weak material & manufacturing defects





SONNAXPERFORMANCE





- Unique design improves efficiency without reducing capacity
- All-in-one kit is a great value, easy to assemble & install

Part No. 34555-01K Module includes all-new, top-quality parts to upgrade forward and direct drums plus everything else from intermediate sprag to back of the pump.



Smart-Tech® Drum Module

TH400 Racers See More Wins & Record-Setting Runs with Sonnax

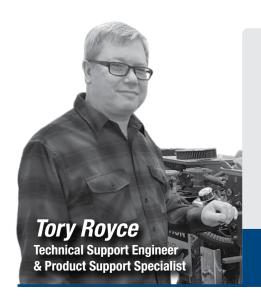
With improved on track performance and safety advantages over OE-style TH400 drum setups, the revolutionary Sonnax Smart-Tech drum module is proving itself a game changer for any drag racing build.

The module has been going into race cars for about two years now, helping programs from 400 to 4,000HP get to the winner's circle while setting E.T., MPH and consistency records along the way. That includes Hot Rod Drag Week Champions Steve and Dustin Trance who saw their second class win this year with the module (their third overall), setting consistency records both years.

Get Your Racers Ready for a Winning Season!

From factory stock showdown, bracket racers, drag-n-drive, no-prep all the way up to pro-mod, let your customers know the Smart-Tech module produces results at the finish line where it counts.

Visit www.sonnax.com/TH400 for details on the module, including great tech, videos, FAQs, build guides and more!



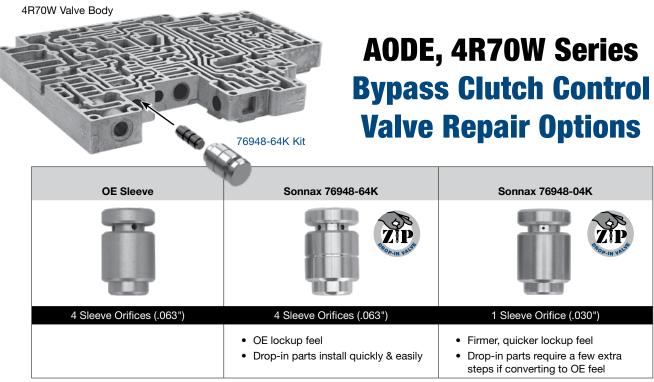
Tech Team Shop Talk

A core member of the Sonnax tech team for more than 15 years,

Tory is a seasoned automotive professional with decades of industry experience.

He is a snowmobile, motorcycle and classic rock enthusiast.

Contact Product Support Mon. – Fri., 8:30 a.m. – 5 p.m. ET (800) 843-2600, Ext. 398 • sonnaxtechsupport@sonnax.com



When to Use Sonnax 76948-04K vs. 76948-64K

It is common on Ford AODE, 4R70E/W and 4R75E/W units to experience TCC shudder, delayed lockup, no lockup or converter codes. This can often be attributed to wear at the bypass clutch control plunger valve and sleeve in the valve body.

Sonnax has offered plunger valve repair kit 76948-04K for some time, and it's a great solution to address this wear. Compared to the OE valve design, however, the single .030" orifice in the Sonnax sleeve can create a more pronounced lockup engagement. You have the option of drilling an additional orifice in the sleeve if OE lockup feel is desired, but this and plate modifications on earlier units add extra steps to the installation process. An alternative repair was needed.

Sonnax now offers valve kit 76948-64K with four .063" orifices in the sleeve to mimic the OE hydraulic design, allowing the bypass clutch control valve to match OE timing when stroking to the TCC apply position. This eliminates the need for drilling, which is particularly beneficial on '96-later applications where engine lugging and harsh TCC apply can occur if the OE calibration is not observed.

So, for earlier units in which firmer, quicker lockup feel is desired, continue to use 76948-04K. For units in which OE calibration with no modifications is preferred, consider using 76948-64K. Both options are drop-in Zip Valve repairs that correct problems, guard against future wear and require no reaming to install.

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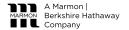
Featured in this Issue

- New Sure Cure & 10-Speed Valve Repairs
- Rostra 0EM/S Parts Announcement
- 6L80 Lube Dam Tech Tip for Easy Repairs
- ZF8 Separator Plate Identification
- New 6R80, ZF6 Heavy Duty OD "E" Piston
- Tech Tip: Choose the Right AODE, 4R70W Bypass Clutch Control Valve Repair

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Authentic OEM/S PartsSupplied EXCLUSIVELY by Rostra

