

# Make The Shift To...

# SUPERIOR

TRANSMISSION PARTS, INC.™



# 2008

## PRODUCT GUIDE

### ISO 9001:2000 CERTIFIED

Shift Correction Packages | Steel Series Valves | Proven Problem Solvers  
Fairbanks High Performance All Inside



# SUPERIOR

# Turns A CRAP SHOOT Into A SURE THING

## Introducing The New Superior 4L30-E Kit

Install the 4L30-E Shift Correction Package in your next 4L30-E rebuild and take the “gamble” out of working on the 4L30-E. Superior’s newest entry to its popular line of Shift Correction packages delivers a more stable, better operating, reliable transmission, reducing comebacks and increasing customer satisfaction.

The 4L30-E Shift Correction Package Corrects or Prevents the following Problems:



Part# K4L30-E

- Bell-housing gasket blowout
- Repairs case leakage in servo core
- Weak shifts
- Lock-up chatter
- Better Lube
- Premature clutch and band failure
- Regular & Heavy Duty applications
- Improves overall performance

## Superior Transmission Parts Continues to Grow Through Continuous Innovation

With a continually growing product line and a solid reputation for quality, we at Superior Transmission Parts are very proud of what we have accomplished. Today, we serve the needs of transmission builders worldwide through an extensive network of more than 300 distributors.

From our full-line of Shift Correction Packages to our Problem Solvers and

***All Superior products are precision engineered and perform as promised.***

Performance products, all Superior products are precision designed, made of quality materials and perform as promised. Each month more and more builders are making the switch to Superior and discovering the amazing difference Superior Transmission Parts products can make.

In this catalog you'll find all of the regular



Superior standards, plus our latest offerings – including the new 4T65-E and 4L60-E Late Shift Correction Packages and a number of new Superior Problem Solvers that offer Real World Solutions to Real World problems.

Why not be the next to discover the Superior Alternative and join the thousands of builders who are making the Shift to Superior!

***Today, we serve the needs of transmission builders worldwide through an extensive network of more than 300 distributors.***

## Visit Us On The Web!

For more information on the complete line of Superior Transmission Parts products visit our website where you'll find our complete on-line catalog, a schedule of upcoming technical seminars and a directory of where you can buy the full-line of Superior products.

**[www.superior-transmission.com](http://www.superior-transmission.com)**



# Shift Correction Packages

## Shift Correction Packages Are A Must In Every Rebuild

Superior Transmission Parts' Shift Correction Packages are designed and engineered to compensate for transmission wear and to address OEM design oversights. Using a combination of recalibrated springs, redesigned valves and field tested fixes, Shift Correction Packages can help clean up most common shifting problems and improve overall performance by working to bring the unit back to and beyond original factory specifications.

### The E40D/4R100 Shift Correction Package (KE40D)

Helps eliminate the following problems:

- Converter shudder • Converter burn-up
- Reverse problems • Weak shifts • Stock shifts
- Lube problems • Front seal blowout • Improves overall performance



### The 500-618 Shift Correction Package (K500-618)

Helps eliminate the following problems:

- Premature band failure • Inadequate line pressure • Slow engagements • Premature clutch failure • Lower 2-3 shift MPH • Full time lube
- Rapid fill manual valve • Regular, heavy duty, gas & diesel



### The 4L80E Shift Correction Package (K4L80E)

Helps eliminate the following problems:

- Runaway high pressure • Premature unit failure
- Erratic pressure rise • Shift solenoid filter blow-out • Converter shudder • Inconsistent shift feel
- Includes complete PR valve train



### The AXOD-E Shift Correction Package (KAXOD-E)

Helps eliminate the following problems:

- Delayed shifts • Down shift bump • Flare on 3-2 down shift • Neutrals at a stop • Inadequate lube oil • Converter chatter • Soft or sloppy up-shifts
- Newly designed boost valve and 2-3 servo regulator valve assembly included • Improves overall performance



### The CD4E Shift Correction Package (KCD4E)

Helps eliminate the following problems:

- TCC. shuffle or abort • Runaway high pressure
- Better lube to problem areas • Consistent reverse clutch apply • Salvages worn valve bodies
- Improves overall performance





## The C-6 Shift Correction Package (KC-6)

Helps eliminate the following problems:

- Soft 1-2 shifts • Soft 2-3 shifts • Clutch chatter
- Premature clutch and band failure • Increases line pressure & lube flow • Passing gear spin up



## The 400 Shift Correction Package Kit (K400) 400 with plate (K400-WP)

Helps eliminate the following problems:

- Clutch chatter • Bind up in manual low when hot (HD snap ring included to prevent case damage) • Soft late shifts • Soft 2-3 • Harsh reverse engagement



## The 200-4R Shift Correction Package Kit (K200-4R)

Helps eliminate the following problems:

- Sloppy 1-2 shifts • Erratic 4-3 shifts • Throttle valve sticking • Inadequate line pressure rise
- Extends band life • Improves overall performance



## The 200 Shift Correction Package Kit (K200)

Helps eliminate the following problems:

- Slow reverse engagement • No passing gear above 45 MPH • 2nd gear starts • Harsh reverse engagement • Down shift bump • Weak 2-3 shifts • Improves overall performance



## The 350 Shift Correction Package Kit (K350) 350 with plate (K350-WP)

Helps eliminate the following problems:

- Erratic shift points • Weak shifts • Will convert a 350C to a 350 • Erratic passing gear shifts
- Premature clutch failure • Premature band failure



## The 404-670 Shift Correction Package

Introducing the Next Generation of Superior Performance. The 404 thru 670 Shift Correction Package offers Regular, Heavy Duty and Full Manual applications. From Soccer Moms to Street Rocket this one package does it all. Like all Superior products the 404 thru 670 Shift Correction Package is precision made, comes with easy-to-use instructions and performs as promised.



## The 404-670 Kit helps eliminate the following problems:

- Premature band failure • Sticking Governor • Overlap 2-3 shift
- Premature clutch failure • 3 level options, regular & heavy duty plus full manual • Improves overall performance

# Shift Correction Packages



## The 4R44-E/4R55-E/5R55-E Shift Correction Package (K4R/5R55E)

This Shift Correction Package gives a booster shot to 4R44-E/4R55-E/5R55-E transmissions adding new life and improving overall performance. Delivering more oil to clutches and bands, the 4R44-E/4R55-E/5R55-E Kit quickly increases surface apply pressure and offers a cure for the common ratio codes.



### The 4R44-E/4R55-E/5R55-E Kit helps eliminate the following:

- Delayed reverse • Soft sliding shifts • Overlap shift timing • 3rd gear slips • Slips or loss of forward
- Low pressure dips • Regular and Heavy Duty Options • Better Lube
- Includes a Superior Steel Series Forward Modulation Valve
- Improves Overall Performance

## The A4LD Shift Correction Package (KA4LD)

Helps eliminate the following problems:

- Late shifts • Weak shifts • Delayed reverse
- 3rd clutch failure • 2-3 flair • 4-3 flair
- Improves overall performance



## The AOD-E Shift Correction Package (KAOD-E)

Helps eliminate the following problems:

- Second roller clutch failure • Soft or sloppy 3-4 shifts • Slip bang on takeoff • Soft or sloppy 1-2 shifts • Inadequate lube oil 3-4 band • failure 3rd clutch failure • New steel no-stick solenoid regulator valve added • Improves overall performance



## The 500-618-L Shift Correction Package (K500-618-L)

Helps eliminate the following problems:

- Premature band failure • Inadequate line pressure • Slow engagements • Premature clutch failure • Lower 2-3 shift MPH • Full time lube
- Rapid fill manual valve • Regular, heavy duty, gas & diesel • Fits all RE transmissions 99-up



## The AOD Shift Correction Package (KAOD)

Helps eliminate the following problems:

- Weak 1-2 shifts • Erratic 1-2 shifts • Erratic 3-4 shifts • Down shift shudder • Premature clutch failure • Improves overall performance



## The AXOD Shift Correction Package (KAXOD)

Helps eliminate the following problems:

- Late shifts • 2-3 flair • Soft or sloppy 1-2 shifts • Downshift bump • Inadequate lube oil
- Converter chatter • 2nd gear starts • Spin up on 2-3 up shifts • Improves overall performance





## The ATX Shift Correction Package (KATX)

Helps eliminate the following problems:

- Sliding 3-2 kickdown
- Includes oversize direct drum bushing and replacement governor pins
- 2nd gear starts
- Inadequate line pressure
- Improves shift quality
- Improves overall performance



## The 4L60E Shift Correction Package (K4L60-E)

Helps eliminate the following problems:

- Bind up in reverse
- 3-4 clutch burn-up
- Low & reverse clutch burn up
- Provides more lube oil
- Delayed engagement in forward and reverse
- Clutch & band failure
- Improves shift quality
- Slide in 2nd gear
- Code 1870 converter slip-page



## The TF-TC Shift Correction Package (KTF-TC)

Helps eliminate the following problems:

- Lock-up shudder
- Converter burn-up
- Premature band failure
- Weak 2nd & 3rd shift
- Premature clutch failure
- Provides choice of lockup speed
- Inadequate lube oil
- Inadequate line pressure



## The 700-R4 Shift Correction Package (K700-R4)

Helps eliminate the following problems:

- Inadequate pressure rise
- Soft or bump upshifts
- Burned clutches and bands
- Raises lock-up speed
- Erratic shift points
- Second and third flare up
- Bump downshifts



## The 440-T4 Shift Correction Package (K440-T4)

Helps eliminate the following problems:

- Converter clutch shudder
- Soft 1-2
- Burned third clutch
- Burned second clutch
- Inadequate line pressure rise
- Modulator valve buzz



## 4L60E-L Shift Correction Package (K4L60E-L)

The 4L60E-L Shift Correction Package offers all of the features of our earlier kits, plus the latest innovations for 98-up.

The 4L60E-Late Kit includes a PWM PowerValve to correct code 1870 problems by compensating for valve body wear and includes oversized checkballs to give new life to the original worn separator plate.



## The 4L60E-L Kit helps to eliminate the following:

- Code 1870
- Delayed engagements
- Slide bump 2nd & 3rd
- 3-4 clutch burn-up
- Help for worn separator plates
- Provides more lube oil
- Regular and Heavy duty applications
- Improves overall transmission performance

# Shift Correction Packages



## Superior Shift Correction Packages Complete With The Superior Steel Series™ Replacement Valve

The Total Package is intended to give you a better value than buying a valve body kit and boost valve individually. This is definitely The Total Package. Available for the E4OD, AXOD, AOD-E, 4L60-E, 700-R4, K200-4R, KAXOD-E, and K4L80-E

### The Choice Is Yours!

Part # Trans.	Part # Original S.C.P.	The Total Pkg.
E4OD	KE4OD	KE4OD-V
AXOD	KAXOD	KAXOD-V
AOD	KAOD	KAOD-V
AOD-E	KAOD-E	KAOD-E-V
4L60-E	K4L60-E	K4L60-E-V
C6	KC-6	KC-6-V
700-R4	K700-R4	K700-R4-V
200-4R	K200-4R	K200-4R-V
AXOD-E	KAXOD-E	*
4L80-E	K4L80-E	**
A4LD	KA4LD	KA4LD-V
4L60-E	K4L60E-L	K4L60E-L-V

\* Boost Valve Included in Original SCP.

\*\* Complete PR Valve Train included in Original S.C.P. All boost valves are sold separately except 4L80-E.

## The 722.3 and 722.4 Mercedes Shift Correction Package (K722A-G) Gas (K722A-D) Diesel

Helps eliminate the following problems:

- Harsh 1-2 shifts • Soft or flare 2-3 shifts
- Slip or flare 2-3 shifts • Soft or flare 3-4 shifts
- Stabilizes shifts



## The 125 Shift Correction Package (K125)

Helps eliminate the following problems:

- Late shifts • Weak shifts • Band failure
- Harsh down shifts • Converter shudder
- Converter drain back • Front seal problems



## The RE4R01A Shift Correction Package (KRE4R01A)

Helps eliminate the following problems:

- 2-4 band burn-up • Soft shifts • 1-2 accumulator seal blow-out • Inadequate lube oil (planet failure) • 4-3/3-4 shuttle problems • Regular and heavy duty



## The 4T65-E Shift Correction Package (K4T65-E)

Helps to eliminate the following problems:

- Inadequate line pressure • Premature clutch failure • Slow or intermittent line rise • Excessive TCC slippage (Codes) • Slide bang forward engagements • New steel boost valve and sleeve supplied • Regular, heavy-duty-taxi options



## The 4L30-E Shift Correction Package (K4L30-E)

Helps to eliminate the following problems:

- Bell-housing gasket blowout • Repairs case leakage from wear in the low/intermediate servo
- Weak shifts • Lock-up chatter • Better lube
- Premature clutch and band failure • Regular & heavy duty applications • Improves overall performance.



## The Superior Steel Series Replacement Valves

Superior's Steel Series Replacement Valves are proudly made in the USA. Made of 100% hardened steel using the latest CNC technology, each Steel Series Replacement valve is hand inspected for tolerances and finish.

Superior's Steel Replacement valves are now available where it is necessary to eliminate the wear, sticking, and hang-ups associated with stock aluminum valves.

Our valves can be used alone to provide one less reason for comebacks, or in conjunction with a Superior Shift Correction Package (The Total Package) for the complete solution. Don't settle for anything less than Superior Steel Series Replacement Valves.



### ***Made of 100% Steel***

### ***Precision Crafted***

### ***Made in the USA***



**E4OD Part #K024**



**AXOD-E Part #K009**



**4L60E Part #K021**



**C6 Part #K028**



**A4LD Part #K027**



**AODE Part #K026**

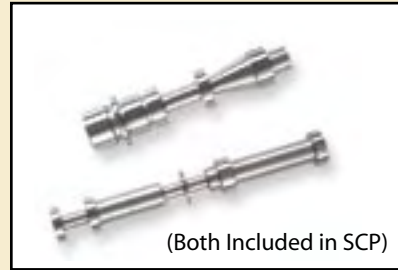


**AOD Part #K025**



(Included in SCP)

**4L80-E Part #K4L80E**



(Both Included in SCP)

**4L80-E PR Valve 500/618  
Rapid Fill Manual Valve**

# Fairbanks Performance Products

## Fairbanks — A Tradition Of Innovation And Now A Superior Commitment To Quality!

Superior is proud to feature Fairbanks as its performance division. Fairbanks Performance, long recognized as an innovator of technology for performance racing automatics is now “certified” by Superior’s technical development department as meeting Superior’s own high standards.

Each Fairbanks product is designed to help improve the performance of automatic transmissions, and comes with step by step illustrated instructions.



### *Transform a stock transmission into a true performance automatic with Fairbanks valve body kits*



#### Transaction III & IV Stage Kits

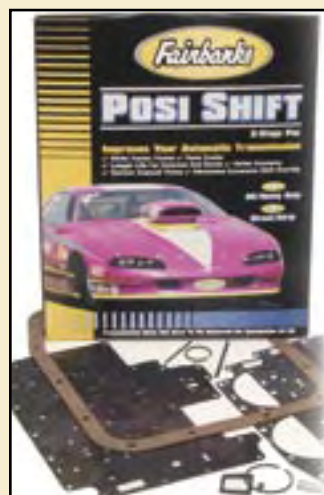
Modify the performance of your transmission for firmer, more positive shifts with the Fairbanks TransAction Selective Action Kits. This one package offers Heavy Duty, Street/Strip, Full competition and Full Manual (350 & 400 only) options.

AOD-E (91 & up) .....	23007
TF/TC (62-up) .....	10430
500,518,618 - RH/RE (89-04) .....	10518
400 (65-up) .....	20812
350 (69-79) .....	31006
C-6 (67-up) .....	51312
C-4 (70-up) .....	61510
700-R4 (82-93).....	70015

#### Posi-Shift 2-Stage Pacs

The Fairbanks 2-Stage Posi Shift Pac improves the shifting characteristics of any stock automatic transmission giving you quicker, more positive shifts for Heavy Duty & Street/Strip applications. Each pac comes with a custom separator plate and can be installed without removing the transmission.

AOD (80-up) .....	23001-2
400 (65-up) .....	20806-2
350 (69-79) .....	31001-2
C-6 (67-up) .....	51310-2



# High Performance Shift Correction Packages



## The 200-4R High Performance Package (K200-4R-HP)

is designed to deliver the following:

- Super positive shifts • Includes .471 boost valve • Prevents clutch & band failure • Superior for performance cars and trucks • Improves overall performance



## The 350 High Performance Package (K350-HP)

is designed to deliver the following:

- Super positive shifts • Prevents clutch & band failure • Shifts manual or automatic • Superior for performance cars and trucks • Eliminates erratic passing gear shift • Will convert a 350C to a 350



## The AOD High Performance Package (KAOD-HP)

is designed to deliver the following:

- Super positive shifts • Eliminates erratic shifts • Eliminates downshift shudder • Superior for performance cars and trucks • Improves overall performance



## The 700-R4 High Performance Package (K700-R4-HP)

is designed to deliver the following:

- Super positive shifts • Includes Corvette style servo • Stabilizes 4-3 shift • Raises lockup speed • Superior for performance cars and trucks • Includes .471 boost valve • Includes full throttle upshift sleeve

## The Super Servos

### The 200-4R Super Servo (K014)

- Super positive 1-2 shift - Improves & cleans up 2-3 shift
- Positive 3-2 kickdown response
- 11% more surface apply area than Grand National Servo



### The 700-R4 Super Servo (K012)

- Largest apply area available
- Quicker servo release on 4-3 downshift
- Super positive 1-2
- Positive 3-2 kickdown
- Improved 2-3



### 4L60/4L60E Overdrive Super Servo (K034)

- Better holding capacity in 4th Gear
- Lip seal design on piston (Less leakage)
- Proper 4-3 (no drag) release
- 10% more surface apply area than 4L60/4L60E Overdrive Super Servo



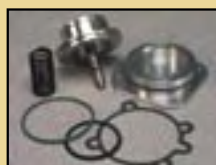
### The AOD-A+ Super Servo (K011)

- Helps eliminate overdrive band failure
- Gives positive 4th
- Delivers better holding capacity



### The C-6 R Super Servo (K016)

- Positive 1-2 shift
- Positive 2-3 shift
- Clean 3-2 kickdown



### AOD-E Super Servo

Available in the AOD-E Transaction Kit (23007).



# Fairbanks Performance Products



## Shift Point Package (Part K018)

By changing the enclosed weights and springs on the governor, you can obtain the shift points you want. Fits all TH250, 350, 375, 400 and 700-R4 transmissions



## 700-R4 Hydraulic Lock-Up (Part K017)

The Fairbanks Hydraulic Lock-Up Package allows you to engage lock-up automatically -- without the computer. Non-toggle switch activated, it comes with five custom calibrated springs so you can vary the point at which your computer actually locks-up.



## 700-R4 Upshift Sleeve (Part K015)

The Fairbanks 700-R4 Upshift Sleeve replaces worn boost valve plunger sleeves and allows wide open throttle 3-4 upshifts --just like late model 700-R4 equipped Corvettes! The Upshift Sleeve also eliminates part throttle 4-3 downshift for less gear searching



## 700-R4/200-4R High Gear Lock-Up (Part K013)

The Fairbanks High Gear Lock-Up Kit will allow lock-up in 4th gear only, in vehicles with or without computer control. The high gear kit will bypass problem computers and make transmission change overs complete and simple



## Universal Drain Plug (Part K032)

New O-ring design eliminates leaks that often occur with other drain plug kits

## Simple Solutions To Challenging Transmission Problems

At Superior we pride ourselves on providing simple solutions to today's complex transmission problems. Our growing line of Problem Solvers all feature quality materials, excellent craftsmanship and easy-to-understand instructions. Superior problem solvers provide Real World Solutions to Real World Problems.

*Superior has been making superior problem solvers since 1972.*

### 500-618 TCC Boost Valve Clip (K065)



Replaces broken clip on the valve body. Helps lock-up apply.

### E4OD/4R100 Stay-Put Filter Clip (K066)



Holds filter securely into the pump.

### The 604 Differential Case Saver (K039 & K049)

The new 604 Differential/Case Saver positively secures the 604 pinion shaft into its carrier on both sides, preventing costly carrier and case damage. Made of quality materials and precision crafted, this cost-effective problem solver allows for the use of questionable carriers and prevents expensive comebacks. This simple solution is must for all 604 rebuilds.

- Positively secures pinion shaft and improves lubrication to the gear
- Virtually eliminates case breakage from loose pinion shafts
- Allows you to use previously borderline and questionable carriers
- Provides a low cost alternative to replacing the transmission case



### Tired Of Planetary Failure? Get the AXOD DAM (KAXOD-L)



Superior's patented AXOD Dam was developed to help eliminate planetary failure in the AXOD, AXOD-E and AX4S transmissions. This simple, yet effective product allows AXOD planetaries to run cooler and last much, much longer.

When properly installed, the Lube Dam floods the section between the reverse cylinder and the rear planet support, where the front and rear planetary assemblies are located. By flooding this section, lube oil has adequate time for heat exchange from the pinions to the lube oil. The pinions and needle bearings run in an oil bath, ensuring total lubrication. Since the amount of lubrication is increased dramatically, better cooling is assured.

# Problem Solvers



## E4OD/4R100 Accumulator Body Repair Kit (K040)

This Superior problem solver replaces sticky aluminum accumulator regulator valves with a more dependable steel no stick valve and replacement springs. This kit also compensates for wear in the line pressure modulator valve system.

## Unbreakable Ring Kit For 4L60E, 700-R4, & 200-4R Front Pumps



Features Sealed Power® Nodular vane rings - will not break or bend during pump operation, plus double priming springs keep pump pressure stable and a special pressure regulator spring increases line pressure.

4L60E Part #K77878 - 700-R4/200-4R Part #K77877

## Superior Bolt-on Housing Adapter Inserts (K033)

When the bolt-on bell housing was introduced, a lip was added to the pump body for alignment and support. The Superior Adapter Inserts allow an earlier non-lipped pump body to be used on a bolt-on bell housing application and still have the alignment and support of the lip.



## 518 No Stick Steel Governor Valve (K038)



This hardened steel valve replaces the commonly mushroomed out aluminum OE. valve. This valve corrects the leading cause of sticking governor problems.

## The AOD/AOD-E Spiral Ring (K010)

The revolutionary AOD Spiral Ring and G-lock retainer dramatically increases the holding capacity of retaining rings. This puts an end to the tendency of retaining rings to "fly off" when subjected to extremely high centrifugal forces as in the high RPM application of the AOD, AOD-E and 4R70W intermediate drum.



Tested At Speeds  
Over 16,000 RPM

## 4th Gear Lockout (PR280/PR281/PR282)



With the flip of a switch overdrive can be disallowed even when the shift selector is placed in overdrive on GM's or upon every restart automatically on Fords & Chrysler/Dodge transmissions. With the switch in the "normal" position complete overdrive normal operation is resumed.

## E4OD Pump Correction Package (K062)

Helps eliminate "Code 62" problems in E4OD pumps that are otherwise still in good shape. Delivers full time lube, increases cooler flow and improved pump durability and includes the "Code 62" cup plugs and rod, a custom knurled converter bushing with drain back notch and necessary drill bits.



## 4T40-E Accumulator Piston (K069)

Aluminum replacement piston to replace the commonly broken plastic piston in the 4T40-E transmission. Precision crafted and made from 6061-T6 billet aluminum, this piston is the perfect OEM replacement.



## 4L60/4L60-E/4L65-E. The 3-4 Clutch Rapid Relief Valve (K070)



This patent pending valve replaces the ball capsule in the input drum with a spring loaded ball valve to help eliminate clutch drag on the release. Centrifugal apply is also greatly reduced in high performance applications.

## 4L60-E 3-2 Downshift Valve Spring and Valve Stop (K054)



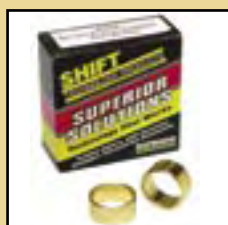
This replacement spring and valve stop works with 4L60-E 1996 and up. The O.E. spring may be found broken upon inspection of the valve body due to the coil binding under high line pressure situations.

## E40D (No Bang) Low Reverse Modulator Valve Springs (K043)



When clutch clearance between the coast, direct and low reverse clutches do not time up just right, a harsh engagement is the result. The springs supplied in this problem solver will help to make this engagement right.

## The Mercedes 722.6 Chico Bushing Kit (K050)



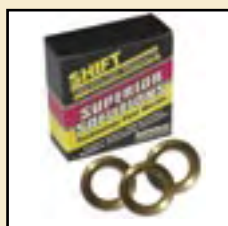
The Mercedes 722.6 Chico Bushing Kit features the new smaller hub bushing for the only new output shaft available from Mercedes. This naval brass bushing allows the use of the new output shaft with the earlier drum — a big savings. Includes earlier sized bushing if no damage has occurred to the original shaft.

## The Dodge 1/2" Cooler Line Clip (K057)



It's common for the cooler line retainer clips to wear thin causing rattles and potential blow-out at the connection. These new replacement clips are designed to snug up the connection and to help stop the wear and the rattle. Includes six clips and O-rings.

## Chrysler Shifter Seal Saver (K071)



The Chrysler shifter seal saver is designed to be an economical way to add support to the manual control shaft at the case to help prevent a leak at the seal. The shifter seal saver will work on all 904-727-42RH/RE-46RH/RE-47RH/RE-404-413-670 units.

# Problem Solvers

## 5R55N/5R55W/5R55S Line Pressure Relief Valve (K060)



The 5R55N/5R55W/5R55S may experience a no movement or slipping condition after start-up due to a sticking line pressure relief valve in the pump. Superior's 5R55N/5R55W/5R55S Line Pressure Relief Valve insures consistent pressure control with its unique blow-off ball design.

## The Universal Adjustable Vacuum Switch (K052 & K058)



Useful for 700-R4, 200-4R's and other units working without computers and needing help getting lock-up in and out at the proper time. Unlike the GM vacuum switch, this switch allows the vacuum trigger point to be adjusted between 1 to 6 inches of vacuum (K052) or 6 to 22 inches of vacuum (K058).

## 240 & 230 Output Shaft Bearing Retainers (K067 & K068)



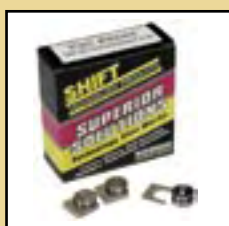
Heavy Duty retaining ring for the output shaft bearing of the 240 and 230 Series Transfer cases. The rings are a very economical replacement upgrade to the OE. retainer.

## The Intermediate Servo Spacer Kit (K056)



The Intermediate Servo Spacer Kit designed for 904/500-727/618 units (1971-2004) works to clean up the 1-2 shift, as well as better time the servo release on the 2-3 upshift and improve the 3-2 kickdown. 727 servos take two spacers while 518/618 servos require only one.

## The Saturn TAAT Lube Relief Valve Retainer & Clip (K044)



This retainer and clip is installed in the pump at the lube relief valve and spring. This clip is often found broken when rebuilding which can cause problems with converter fill. The Superior retainer and clip replaces the thin O.E. clip with a steel end plug held in place with a new sure clip retainer.

## The 700-R4 Auxiliary SuperCover (K051)



Replaces the OE. cover that allows the piston pin to walk out too far, causing a leak in the forward clutch circuit. The SuperCover is designed to locate and press the pin back into its proper position and keep it there. Just tighten down the bolts and it's done.

## The A500/A618 End Play Shim Kit (K055)



The shims provided in this kit are designed to be placed under the 3 tang washer of the forward clutch drum. This allows the endplay to be tightened up without pulling the input shaft ring area outward from the stator support shaft. This kit includes three .025 shims and three .015 shims.

## 4L60-E Forward Accumulator Pin (K061)



Repairs and seals a loose or worn OE pin and bore. No valve body modification needed.

## 727 End Play Shim Kit (K063)



Allows the endplay to be tightened up without pulling the input shaft ring area outward from the stator support shaft.

## 4L60-E TCC (PWM) PowerValve (K042)



This valve supplies more oil volume to the converter in lock-up to help stop code 1870 and converter burn-up. A must for 98 and up EC3 computer strategy operations.

## AXOD-E 2-3 Servo Regulator Valve (K041)



Helps eliminate a neutral condition on coast-down. This valve is now also supplied in our Shift Correction Package. Another Steel Series replacement valve.

## AOD-E/4R70W Pressure Regulator Valve (K073)



Extends land area more into the valve body bore that has not worn, giving the valve more stability and helps prevent future wear.

## Other Problem Solvers

### The 4HP22 Clutch Correction Package (K4HP22)

Helps correct burned forward clutches, slipping in drive, reverse only, creeping in neutral, short life rebuilds.

### Replacement Seals 4HP22 (K002)

(3) Replacement seals for K4HP22

### Buffing Wheel 4HP22 (K003)

- Replacement wheel for K4HP22

### 4HP22 (electronic) Correction Spring Kit (K008)

Helps eliminate soft shifts, erratic passing gear and lock-up searching

### 4HP22 (w/TV cable) Correction Spring Kit (K007)

Helps eliminate soft shifts, erratic passing gear & lock-up searching.

### N4A-EL Correction Spring (K005)

Helps eliminate:  
Soft or flared 1-2 shift when warm; Soft or flared 2-3 shift when warm; Soft drive or reverse engagements

### 700R4 Low & Reverse Steel Boost Valve (K020)

Holds minimal low to high RPM

### 700R4/.471 Steel Boost Valve and Sleeve (K022)

Increases line pressure boost capacity

### E4OD/4R100 Outer Accumulator Spring Kit (K035)

Replacement spring for any E4OD/4R100 Accumulator

### AOD & ATX Carb End T.V. Rod Steel Replacement Bushing (K001)

Don't risk losing shift pattern by using O.E. or aftermarket parts - fix it once and for good it.

### 700-R4, 4L60, 4L60E Servo Apply Spring (K004)

- Helps eliminate 2/4 band burning

### AXOD Correction Spring and Clip Kit (K006)

- Helps eliminate soft 1-2 shifts.

### Low and Reverse Super Servo for 727-518 RH/RE (K029 K030 904-500)

- Stabilized piston will not flip in bore
- Moves lip seal out of worn bore area (case saver)
- Constructed of steel for strength.

### 727 & 518 Strut (K031)

- Durable steel construction helps eliminate bending and bucking.
- Provides better holding capacity and longer transmission life.

# Problem Solvers

## AOD-E/4R70W Super Servo

Superior's new AOD-E/4R70W Super Servo offers greater holding capacity, a more positive 4th gear, helps eliminate premature overdrive band failure and is built of 6061-T6 billet aluminum. This servo also offers an additional Teflon sealing ring for better centering and sealing along with a high temperature deep groove lip seal. A must for all long term rebuilds.



Part# K085

## NOTHING BEATS REAL STEEL

**Superior's Latest Steel Series Problem Solvers Are Not Just Substitutes, But Real Steel Solutions**

### The New 4R44/55E/5R55E Boost Valve & Sleeve Kit



Part# K037

This new Steel Series replacement boost valve & sleeve kit gives you a perfectly dialed in ratio slightly higher than the stock valve. This new valve helps eliminate all the problems associated with a worn out stock aluminum valve. As with all Superior boost valves, this valve is made out of 100% hardened steel & made in the USA.

### The New Superior Aisin Seiki 450-43LE Cut Back Valve Sleeve

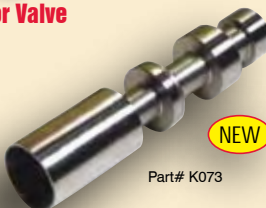
It is not uncommon to find the O.E. cast aluminum Cut Back Valve Sleeve broken in this unit. Made of hardened steel, the Superior 450-43LE Cut Back Valve Sleeve puts an end to this problem for good. Turn to SUPERIOR for the Simple Solutions.



Part# K081

### The AOD-E/4R70W Pressure Regulator Valve

The Simple Solution to OE valves that wear on the end and cause corresponding wear in the valve body bore. This wear causes a loss of line pressure and boost response. This Superior Steel Series Problem Solver extends that problem land area and extends the working area further into the none worn area of valve body bore, providing more stability and helps prevent additional wear.



Part# K073

**Made from 100% Hardened Steel Works on all years 1992 through 2005**

### The 42-47 RH & RE No-Stick Throttle Valve & Plunger



NEW

Part# K074

The new Steel Series Problem Solver replaces the stock aluminum plunger valve; which is prone to wear on the end, at the throttle cam linkage. This wear causes a loss of throttle pressure control. The main throttle control valve is included to replace the OE aluminum valve that scars and sticks. An added cleaning groove helps keep this valve moving free.

**Addresses Loss Of Throttle Pressure Control and Top End Boost**



**PUT THE WATCH DOG OR WATCH DOG Plus TO WORK!**

**The New Superior Watch Dog Plus Monitor and Drain Back Valve is on the Lookout for the First Sign of Transmission Trouble and Helps Stop Drain Back Problems**



### The Original Watch Dog Monitor (Part # K076)

Install Superior's Watch Dog Monitor after every rebuild, then when the unit comes back for a follow-up inspection, unscrew the housing and look inside for excessive converter clutch lining material. This can be a sure sign of converter or lock-up problems.

The Watch Dog Monitor makes it easy to check for contaminants circulating in the transmission fluids. For greater protection the Watch Dog Monitor features a filter and a by pass system. Should a clog develop, the internal filter comes off the seat allowing cooler flow to continue.

### The New Watch Dog Plus Monitor & Drain Back Valve (Part # K082)

The New Superior Watch Dog Plus Monitor & Drain Back Valve offers all of the features of the original Superior Watch Dog Monitor, plus a built-in, no-stick drain back valve that can be used on 3/8" or 5/16 return cooler lines for units that exhibit converter drain back problems.

## 2-3 Accumulator Springs

These replacement springs for the AOD, AODE and 4R70W are designed not to coil bind and break like the original springs commonly found in these units. Comes in a pack-age of three springs.



Part# K075

## 4L30-E Low Band Servo

Made from 100% billet aluminum, the Superior 4L30-E Low Band Servo resists wear in the pin bore which causes loss of forward engagement pressure. Pressure loss here can cause band failure & engagement problems.



Part# K078

# **SUPER POWER**

**The New 727-518-618  
SUPERIOR Super Servo  
Boosts Transmission Power**

- 11% More Holding Power
- Firmer 1-2 Shift
- More Positive 2-3 Shift
- Perfect For Heavy-Duty and Performance Applications



Part# K080



**Try the Full Line of SUPERIOR Super Servos**



Part# K084

## **The 4F50N Capacity Modulator Valve Springs**

The 1-2 & 2-3 4F50N Capacity Modulator Valve Springs contained in this kit will help clean up and improve your overall shifts. This kit contains enough springs to do 3 transmissions.

Available From:

Call 1-800-451-3115 to Order  
or for a Distributor Near You