

THE

# SF-99 Servo Pin Bore Repair System

FROM

## Northland Automatic Transmission Service Inc.

The SF-99 servo pin bore repair system is a set of tools that allow you to easily repair worn servo pin bores with no special machinery, all that is needed is a drill and a hammer.

The system is available for:

- 4L30E
- 700/4L60E
- 400/4L80E
- 4T60/65E
- AOD/E
- C3/A4LD
- 5R55W/S/N
- AX4S/N
- 4F27E
- 4EAT-F/F4A-EL
- CD4E

Each kit can be purchased as either a master or a sub kit. The kits are broke into color named "series." The "series" are divided according to tooling sizes. For example, a 5RW "Master" kit contains all tooling (jigs, guides, reamers, drivers, gauge pin, and bushings) needed; while a 5RW "Sub" kit contains only the two 5RW jigs, gauge pin, and six bushings. The 5RW kit is a "Black series" kit. This means that if you have a 5RW Master kit, you can purchase any other Black series sub kit. To expand to a different color series, you will, however, need to purchase a Master kit of that color series. This allows the mechanic to expand his capabilities without buying duplicate tooling. The reason for this confusion is that some of the kits use different size reamers and guides. All of the kits (Master and Sub) come with enough bushings for three transmissions, and they are used in the same, simple, way.

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## General Motors

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**4L30:** 180 & 4L30E. The 4L30E kit repairs the low & intermediate servo pin bore, stopping the leak of release oil. Black Series.

Master: \$212.00    Sub: \$72.00    Replacement Bushings: \$7.50 each



**4L60:** 700 & 4L60E. The 4L60 kit repairs the 2-4 servo pin bore, stopping the leak of 3-4, and fourth clutch oil. Gold Series.

Master: \$299.00    Replacement Bushings: \$14.50 each



**4L80:** 375, 400, 425, and 4L80E. The 4L80 kit repairs the reverse servo pin bore, stopping the leak of second clutch oil. Black Series.

Master: \$229.00    Sub: \$82.00    Replacement Bushings: \$10.50 each



**4T60-F:** 4T60E & 4T65E. The 4T60-F kit repairs the forward servo pin bore, stopping the leak of apply oil. Green Series.

Master: \$289.00    Replacement Bushings: \$14.50 each



**4T60-R:** 4T60E & 4T65E. The 4T60-R kit repairs the reverse servo pin bore, preventing the pin from binding in the worn bore. Red Series.

Master: \$239.00    Sub: \$99.00    Replacement Bushings: \$14.50 each



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# FORD

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**AOD**: AOD. The AOD kit repairs the overdrive band servo pin bore, stopping the leakage of forward clutch oil. Black Series.

Master: \$212.00 Sub:\$72.00 Replacement Bushings: \$7.50 each



**AODE**: AODE/4R70W. The AODE kit repairs the overdrive band servo pin bore, stopping the leakage of forward clutch oil. Black Series.

Master: \$212.00 Sub:\$72.00 Replacement Bushings: \$7.50 each



**CD4E**: CD4E (LA4A-EL). The CD4E kit repairs the 2/4 band servo pin bore, stopping the leakage of direct clutch oil. Black Series.

Master: \$232.00 Sub:\$92.00 Replacement Bushings: \$13.50 each



**5RW**: 5R55W/S/N. The 5RW kit repairs both the intermediate and overdrive servo pin bores, stopping the leakage of both apply and release oil from both servos. Black Series.

Master: \$299.00 Sub: \$167.00 Replacement Bushings: \$10.50 each



**A4LD**: A4LD, 4R44E, 4R55E, and 5R55E. The A4LD kit repairs both overdrive and intermediate servo bores, stopping the leakage of both apply and release oil from both servos. Black Series

Master: \$274.00 Sub:\$205.00 Replacement Bushings:\$13.50 each



**AX-OD**: AXOD/E, AX4S/N, 4F50N. The AX-OD (as in Over-Drive servo bore) kit repairs the overdrive band servo pin bore, stopping the leakage of apply oil. Black Series.

Master: \$232.00 Sub:\$92.00 Replacement Bushings: \$13.50 each



**AX-INT**: AXOD/E, AX4S. The AX- INT (as in Intermediate servo bore) kit repairs the Low & Intermediate servo bore, stopping the leakage of apply and release (direct clutch) oil. **Red Series.**

Master: \$242.00 Sub:\$102.00 Replacement Bushings: \$13.50



**4F27**: 4F27E (FN4A-EL). The 4F27 sub-kit repairs the 2/4 servo pin bore, stopping the leak of direct clutch oil. **Blue Series.**

Master: \$229.00 Sub:\$95.00 Replacement Bushings: \$14.00 each



**F4**- 4EAT-F (F4A-EL). The F4 kit repairs the 2/4 servo pin bore, stopping the leak of 3-4 clutch oil. **Blue Series.**

Master: \$229.00 Sub:\$95.00 Replacement Bushings:\$14.00 each



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## Also Available

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**Bore Gauge Pins:** A set of gauge pins for checking the diameter of the hole reamed by the kit, prior to bushing installation. It's a great learning tool as it will show you how various factors, i.e.– drill speed, lubrication, and build-ups on the tool, affect the final diameter and bushing fitment.

\$35.00

**Reamer Stone:** A stone to clean aluminum build-ups off of the cutting edges of the reamers. A must for continued use.

\$17.00



**TorqShift Spanner Socket:** 5R110W (TorqShift). Socket to properly remove the nut on the output shaft that serves as the output seal race.

\$140.00



**Torque Flight TV:** 72-08 Torque Flight. This kit quickly and easily repairs worn throttle valve bores. Complaints include sticky accelerator pedals and late light throttle up-shifts.

Master: \$286.00      Replacement Valve Sets: \$34.00 each



All of our kits are assembled in Wisconsin from American made components.

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