



AW 55-50 Linear Solenoid Installation Instructions

Rostra Precision Controls
www.rostratransmission.com

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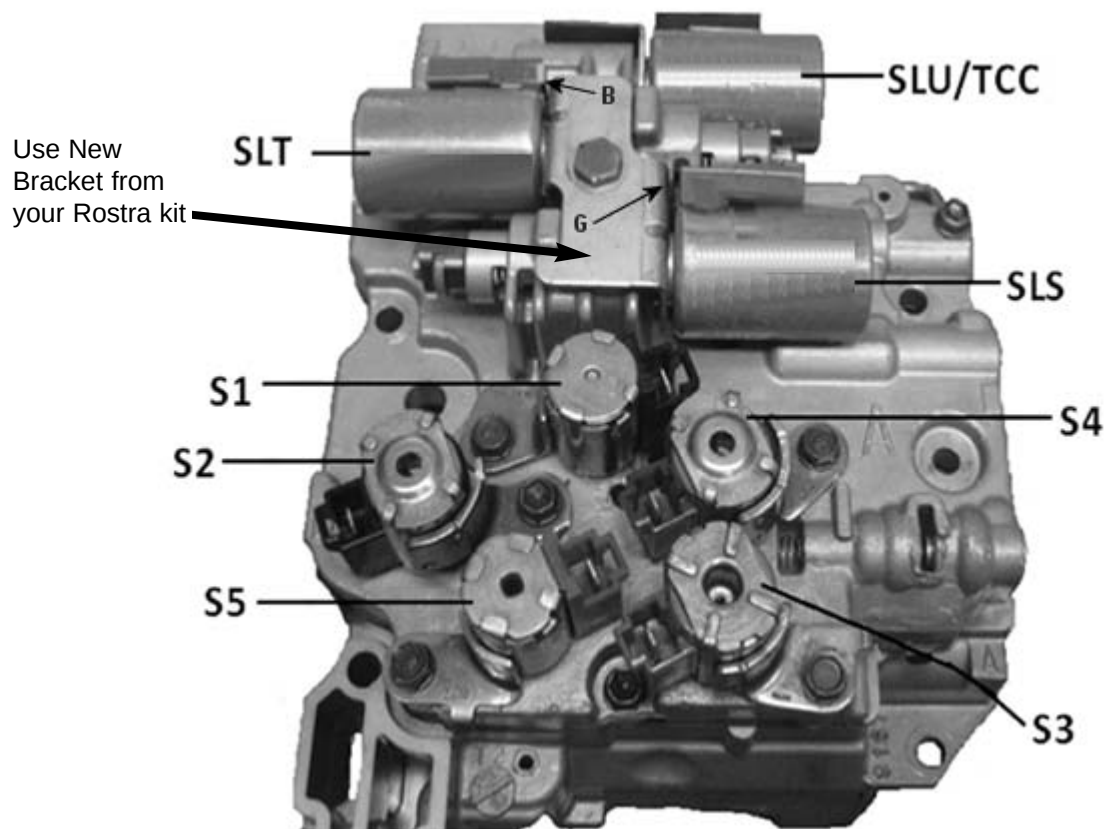
800-782-3379

SLU Installation: Remove the mounting bolt holding the SLU solenoid in place, remove the original solenoid. Install the new Rostra SLU solenoid with the connector rotated in the direction shown. Reinstall original mounting bracket.

SLT,SLS Installation: Remove the mounting bracket which retains both SLT, SLS solenoids and discard. Remove the original solenoids from their bores. Install The New Rostra SLT solenoid in the position shown with the Blue connector rotated as shown. Install the SLS Solenoid in the position shown with the Green connector rotated as shown. Install the new Rostra mounting bracket.

Note: Failure to install the solenoids with the proper connector location will cause transmission malfunction.

SLU, SLT, SLS solenoids all install with the connectors rotated as shown. This applies for all valve body versions!



Visit Rostra's Website www.rostratransmission.com for installation videos and instructions.

General Note:

To ensure proper vehicle operation special attention must be paid to key wear areas within the valve body. If worn, they must be repaired before installation of the Rostra solenoids. Recommended valve body repair components are listed below:

Solenoid	Connector color	Affects:
SLU	Black	TCC, 1-2, 2-3,2-1, Reverse
SLS	Green	Clutch apply and release timing (Harsh/Bumpy)
SLT	Blue	Line rise, Fwd engagement, shift quality

All Rostra solenoids have been pre calibrated and tested to match the Original Equipment performance of a properly functioning valve body. Solenoid adjustment is often unnecessary.

Adaptive Learning:

The AW 55-50 uses an adaptive learning strategy to modify solenoid control signals to adjust conditions for optimum drivability. Shift concerns, and drivability issues will often be present after the replacement of solenoids. Provided the wear and valve issues have been properly addressed, the adaptive learning process will change the control signals to the solenoids to obtain proper drivability. The road test as described below will accelerate the learning process.

Adaptive Road Test:

D range, from stop accelerate lightly @1400 RPM complete 1-2, 2-3, 3-4 upshift. Stop and repeat 5 times. Repeat @ 1800 RPM allowing 4-5 shift as well. Repeat at least 5 times. Repeat @ 2500 RPM for at least 5 more times. The TCM will continually adjust upshifts and control strategy. Downshifts can be learned by driving in 5th gear @ 45 MPH and gently brake to a stop. Repeat this multiple times. Garage shifts are relearned by idling with foot on the brake and shifting from N to R with at least a 5 second pause in each range. Repeat this multiple times as well.

Rostra Solenoid Part numbers:	Recommended valve body repair components:		
52-0458 SLU All applications	Valve Bore	Affected Solenoid	Sonnax #
52-0464 SLS All applications	Solenoid Modulator	SLU, SLS, SLT	59947-09K
52-0466 SLT All applications	Solenoid Relay Plunger	SLU	59947-05K
52-0468 S1, Early VB, (Thru A)	Secondary Regulator	SLT	59947-16K
52-0469 S1, Late VB (B-C)	SLT Accumulator	SLT	59947-LPC
52-0470 S2, VOLVO/NISSAN	Primary Regulator	SLT	59947-07K
52-0471 S2, SATURN/SAAB/GM			
52-0472 S3 All applications			
52-0473 S4 All applications			
52-0474 S5 All applications			

Installation questions? Visit Rostra's Website www.rostratransmission.com for installation videos and instructions.

Drivability, calibration questions? Visit the following websites for detailed technical assistance:

www.rostratransmissions.com
www.sonnax.com