# **SK® AW55-50**

**Reduces/Corrects/Prevents** 

Delay/Bang drive engagement, 4-3 and 3-2 coast clunk, 2-3 and 3-4 cut-loose, kick-down runaways, TCC Slip, Coast 3-2 part throttle bang, double-bump 3-4 and 2nd Sprag failure.

For Professional Use Only!

#### Fits:

01-07 Volvo, 04-07 Nissan RE5F22A 02-07 Saab & AF33-5 03-04 Saturn 05-06 Chevrolet Equinox 06-08 Pontiac Torrent

SLU (TCC)

GREEN



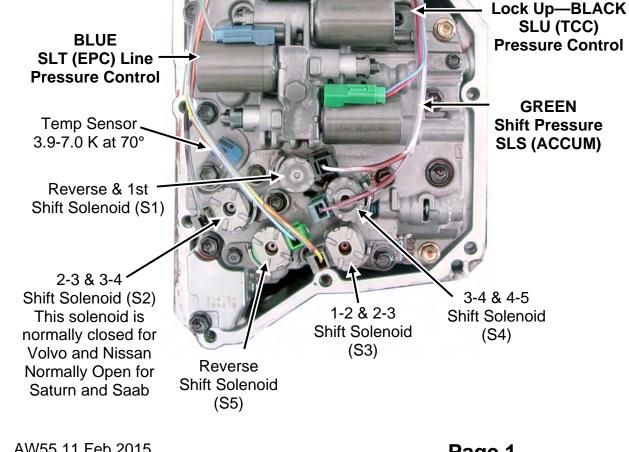
#### This Kit Does NOT Fit AW50-42LE!

#### **First Thing** Check Resistance!

SLU.SLS and SLT 5-7 Ohms @ 70°F SS1 through SS5 11-16 Ohms @ 70°F

# Step 1

Locate the EPC, TCC and Accum Solenoids. Before repairing them, perform Ohm check by probing the connectors. They must be 5-7 Ohms between the pins. From either pin to solenoid body must be open. Don't repair solenoids until you know electrically they are OK. Any solenoid out of range must be replaced.



AW55 11 Feb 2015

Solenoid ID

#### Solenoid Disassembly and Rebuilding—Black, Blue and Green

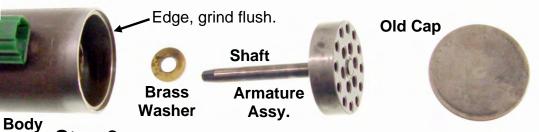




**Step 2** On the angle shown, using the SIDE of the grinding wheel, grind off the crimped end.



Step 4 Mic the shaft. With .156 to .157 shaft use long drill to resize bushings. With .154 to .155 shaft use short drill to resize bushings.



Step 3 Disassemble. Grind edge flush. Deburr outside of Sol can.

Step 5 Listen up: While turning drill counter clockwise, insert it all the way into solenoid.



While holding drill spin the solenoid both directions for 15 seconds or more.

Careful: When removing drill turn it counter clockwise. Blow clean hole.

Step 6 Clean valve and passages using brake clean and air while pushing the armature in and out 10-20 times.



#### **Step 7** Inspection

While holding the solenoid vertical insert the armature assembly. It must fall out. If it does not fall out redo 4 & 5.

Armature Must fall out.

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AW55 11 Feb 2015

# **Solenoid Re-Assembly**

**Step 8** Install brass washer onto pin and insert armature assy. into solenoid.



Step 10 Grind bump off the connectors. Finished Solenoid New End Cap

Thanks for listening. Now: continue

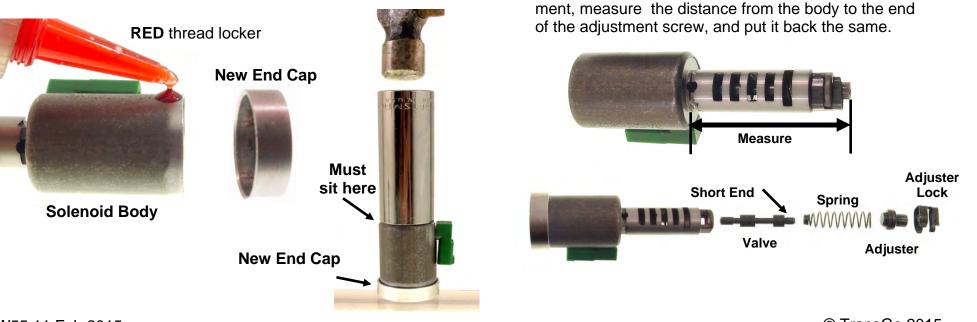
onto next page to FIX the valve body.

**Stuck Valve Correction** 

If a solenoid valve is sticking it may be necessary to

disassemble and clean it. To maintain the adjust-

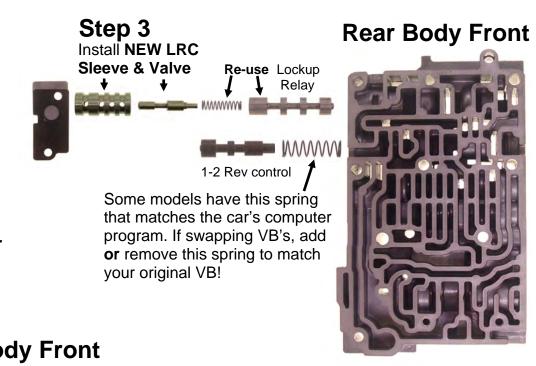
**Step 9** Use brake clean to clean the end of the solenoid. Place very small amount of RED thread locker on the outside. Stay a little away from the end. Be careful—Do not get any into solenoid or in the new end cap. Start end cap onto solenoid. Place the whole assembly, cap down, onto a hard flat surface. Place 1/2" drive 3/4" deep socket over solenoid snout insuring that the socket is sitting on the snout end of the solenoid body as shown. Lightly tap the socket with a light hammer until the solenoid is seated into the cap.

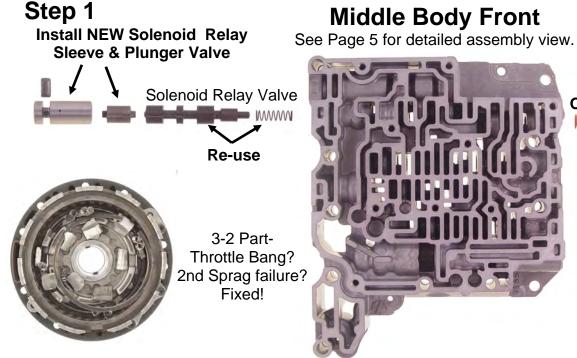


# **Install New Valve Body Parts**

All the Valve Body parts and repairs are shown on this page. For assembly details see exploded views of valve body pages 5 & 6.

**Bench Data:** Complaint: 2-3 Cut-loose <u>after</u> rebuild. Qualify: Reverse engagement OK, and 3-4 shift is OK. Some shops say: *Reusing the 3<sup>rd</sup> band or installing a new OE band will usually avoid this 2-3 Shift complaint.* 





Orange Release

Step 2 Install NEW 3rd Band Release Valve and Orange Spring.



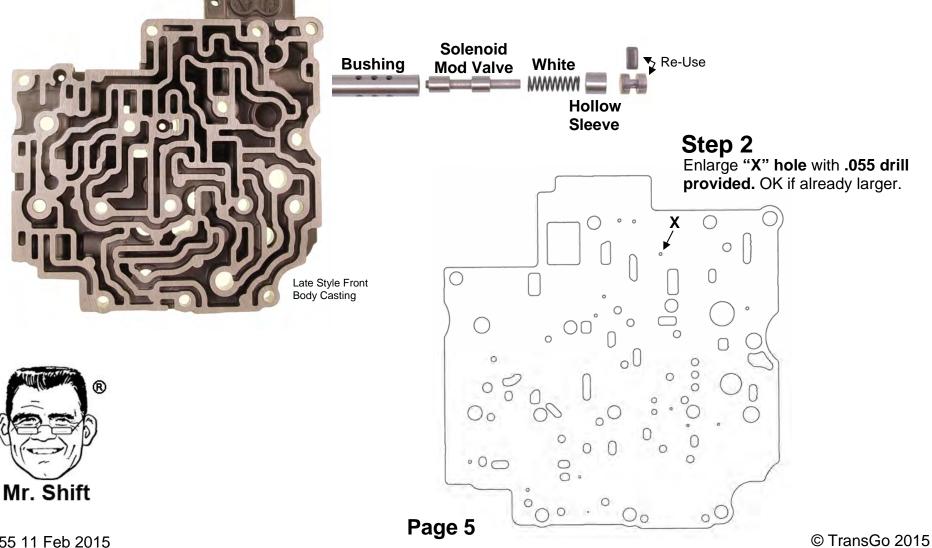
# **Front Body-Rear**

Good News! Installing the NEW Solenoid Modulator Valve system eliminates the need for expensive reaming/boring tool purchases on this valvebody!

The "drop-in fix" for the worn Sol Mod bore! You're going to love it!

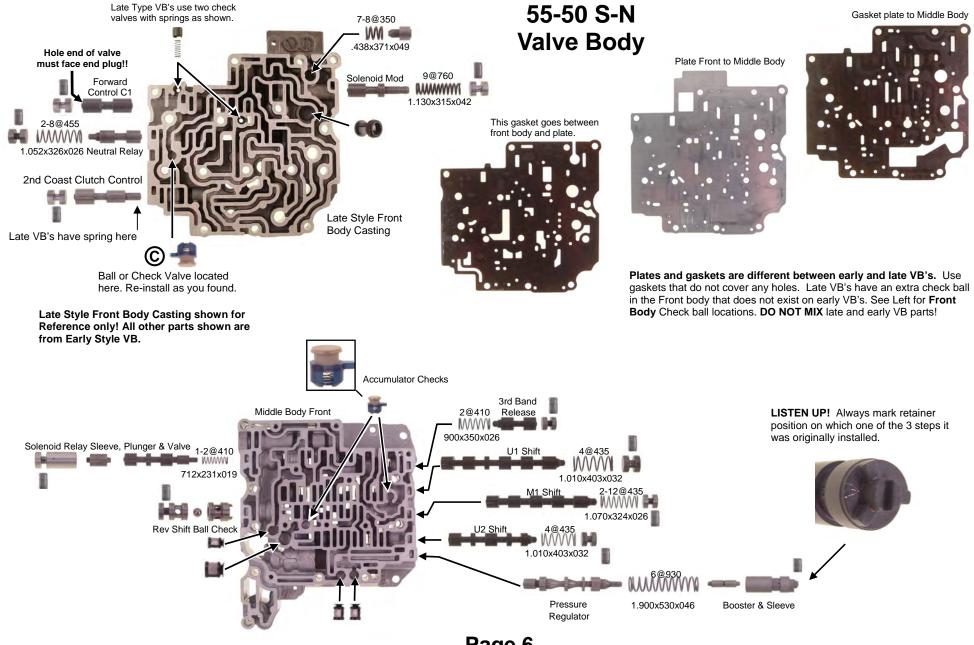
Step 1 Install NEW Solenoid Mod Bushing, Valve, White Spring & Sleeve. Re-use end plug and retainer.





AW55 11 Feb 2015

# Reference: Exploded view of valve body

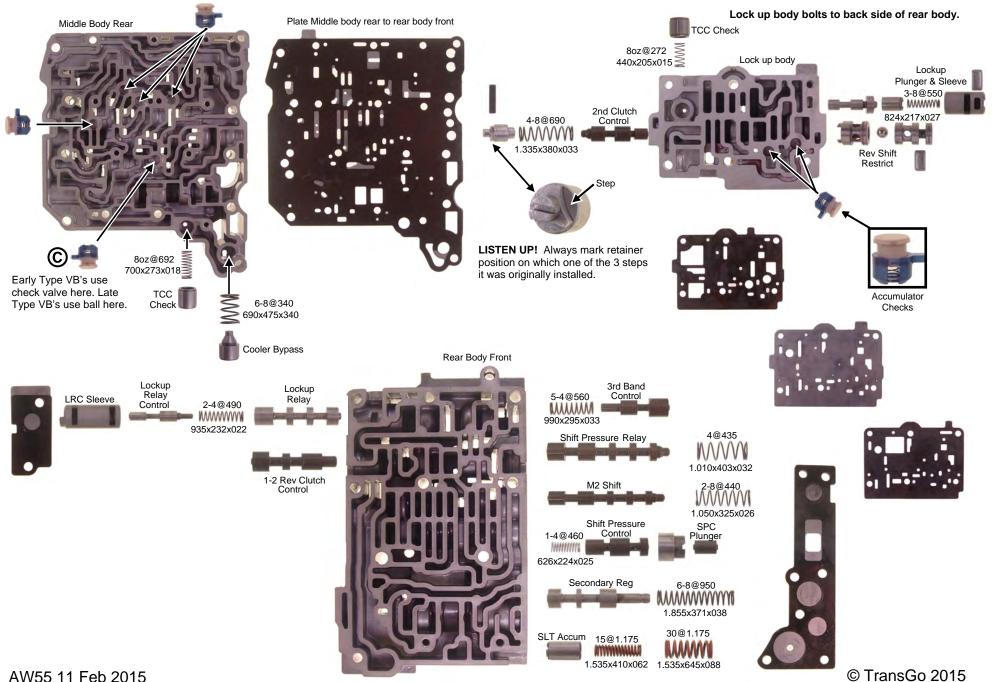


AW55 11 Feb 2015

Page 6

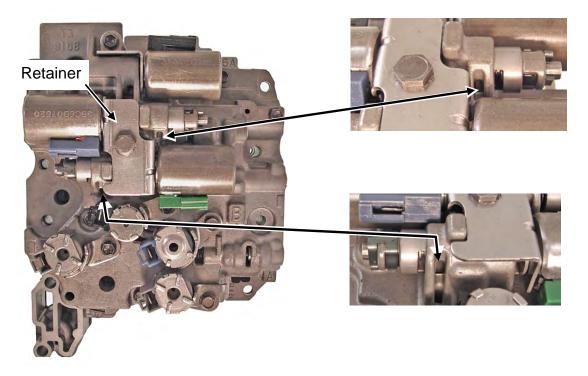
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# Reference: Exploded view of valve body



Page 7

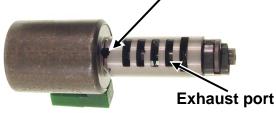
# ATTENTION!! VB & Solenoid exhaust Ports must line up!



VB exhaust Port MUST line up with the Solenoid exhaust Port . Then install the Solenoid Retainer.

Incorrect Retainer, Solenoids or mis-positioned Retainer will block exhaust Ports and cause rough shifts, high line & Sol codes.

Early Solenoids have round hole here and use early Retainer.





ATTN: Make sure Solenoid & Harness connectors are clean. Harness Connector must snap in. We have experienced lots of complaints from a bad connection. Check them twice!

#### Taking a Better Road...

We know how hard it is to deal with complaints AFTER the trans is already back in the car. This is a fine trans with a good lifespan. Normal wear in control parts causes most malfunctions. **UNLESS** you FIX this wear, while you have the car, you risk a comeback or a no-ship.

Replacement Shift Solenoids are available. OE Replacement Control Solenoids are NOT available separately. So you need to chose to fix them or pay \$800 to \$900 for a complete valve body from the dealer. Ouch!

Now the good news: Included in this kit, is parts and tech to FIX the control solenoids. We also furnished parts for the usual wear items in the Valve Body. Your care and patience installing this product will make this trans a real winner! Go for it!

The Tech Team



Mr. Shift<sup>®</sup> Have a nice Day!