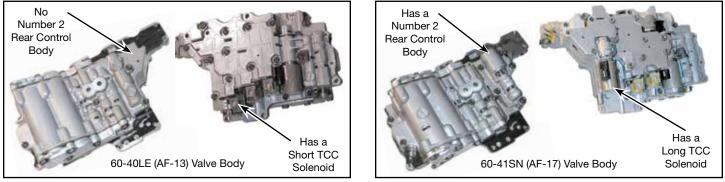


AISIN AW 60-40LE (AF-13) ZIP KIT

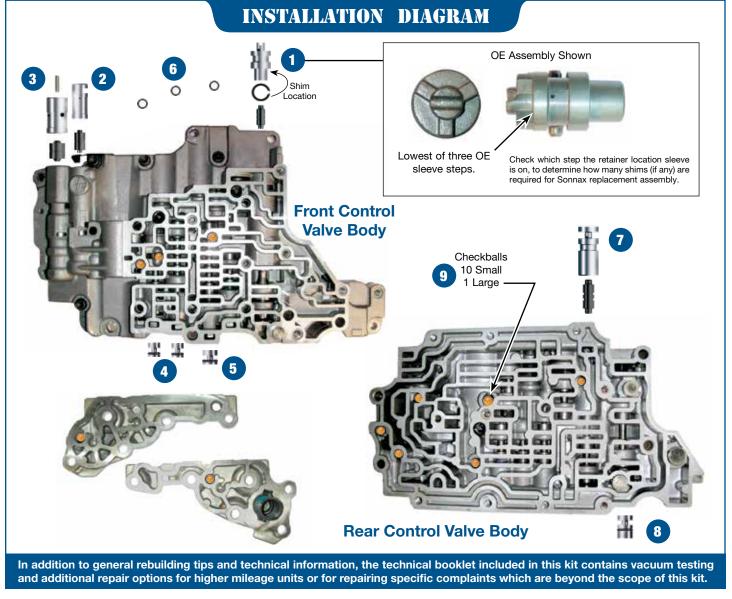
PART NUMBER AW60-40LE-ZIP

QUICK GUIDE

Valve Body Identification A separate Zip Kit **AW60-40LE-ZIP** is designed for 60-40LE (AF-13) applications only. A separate Zip Kit **AW60-41SN-ZIP** is available for 60-41SN (AF-17) applications.



Parts are labeled here in order of installation. See other side of sheet for details on Zip Kit contents.



Zip Kit Contents & Installation Steps

Step Replace OE Reverse Boost Assembly

Observe the step location of the retainer on OE sleeve prior to removal. If set at the lowest step, do not use the Sonnax shims. If set at middle step, use one Sonnax shim. If set at the highest step, use two Sonnax shims. Shims should be place on inboard sleeve diameter.

Packaging Pocket 1

• Valve • Sleeve • Shims (3) 1 extra

Step 2 Replace OE Accumulator Plunger Valve Assembly

Packaging Pocket 2

• Valve • Sleeve

Step 3 Replace OE B1 Modulator Plunger Valve Assembly

Discard OE retainer and use replacement pin to retain lineup.

Packaging Pocket 3

• Valve • Sleeve • Retaining Pin

Step 4 Replace OE End Plugs

Packaging Pocket 4

• End Plugs, Medium (2) • O-Rings, Medium (4) 2 extra

Step 5 Replace OE End Plug

Packaging Pocket 5

• End Plug, Large • O-Rings, Large (2) 1 extra

Step 6 Replace OE Solenoid O-Rings

Packaging Pocket 6

• O-Rings, Small (4) 1 extra

Step 7 Replace OE Lockup Control Plunger Valve Assembly

Packaging Pocket 7

Valve
 Sleeve

Step ⁸ Replace OE Secondary Regulator Valve End Plug

Packaging Pocket 8

• End Plug, Large • O-Rings, Large (2) 1 extra

Step 9 Replace OE Checkballs

Checkballs

Packaging Pocket 9

• Checkballs, Small .218" dia. (10) • Checkball, Large .250" dia.

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AISIN AW 60-40LE (AF-13) ZIP KIT

PART NUMBER AW60-40LE-ZIP

INSTALLATION & TESTING BOOKLET

Torque Specificatio	Torque Specifications				
Transaxle Side	Manual Detent				
Cover Bolt	Spring Bolt				
18 ft-lb	90 in-lb				
Manual Shift Lever Nut 60 in-lb	Front Valve Body Cover Bolt 18 ft-lb				
Front-Valve-Body-to-	Rear Valve Body				
Rear-Valve-Body Bolt	Cover Bolt				
60 in-lb	96 in-lb				
Solenoid-to-Valve-	Valve-Body-to-				
Body Bolt	Transaxle Bolt				
60 in-lb	90 in-lb				

Fluid Chart

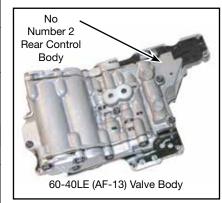
Recommended Capacities: Dexron-III ATF

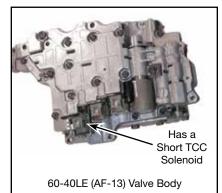
Approximate Capacity,	Approximate Capacity,	
Complete Overhaul	Drain and Fill	
6.0 qt (5.7L) - 1.6L	2.9 qt (2.7L) - 1.6L	
6.2 qt (5.9L) - 1.8L	2.9 qt (2.7L) - 1.8L	

NOTE: This Zip Kit **AW60-40LE-ZIP** is designed for 60-40LE (AF-13) applications only. A separate Zip Kit **AW60-41SN-ZIP** is available for 60-41SN (AF-17) applications.

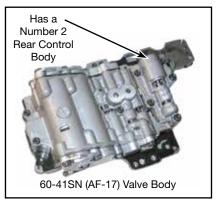
Valve Body Identification

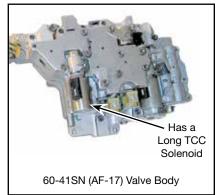
60-40LE (AF-13) Valve Body: Use this kit.





60-41SN (AF-17) Valve Body: Use AW60-41SN-ZIP kit.





Component Apply Chart									
Position		Clutch				Brake		1-Way Clutch	
		Forward	Coast	Reverse	OD	1st-Reverse	2nd-4th	No. 1	No. 0
Ρ			Х						
R			Х	Х		Х			
Ν			Х						
	1	Х	Х					Х	Х
-	2	Х	Х				Х		Х
D	3	Х	Х		Х				Х
	4	Х			Х		Х		
•	1	Х	Х					Х	Х
2	2	Х	Х				Х		Х
L	1	Х	Х			Х		Х	Х



Solenoids

This 60-40LE unit uses four solenoids (Figure 1).

- The S1 (shift solenoid no. 1) and S2 (shift solenoid no. 2) are an on/off style, operated by the TCM to control the various shifts. These two solenoids are interchangeable.
- The TCC control solenoid is an on/off style controlled by the TCM to operate the converter clutch.
- The throttle pressure control liner solenoid is modulated by the TCM to regulate line pressure.

olt Color Code	Bolt Length
Yellow	10mm
Red	16mm
Orange	20mm
Green	38mm
Blue	50mm

Solenoid Apply Chart

Dec	sition	Solenoid			
Pos	suon	No. 1	No. 2	тсс	
Р		Х			
R		Х			
N		Х			
	1	Х			
D	2	Х	Х		
	3		Х	X ¹	
	4			X ¹	
2	1	Х			
2	2	Х	Х		
L	1	Х			
	10		C is an arating	1	

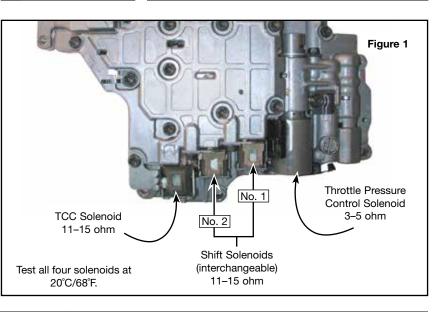
¹On only when TCC is operating.

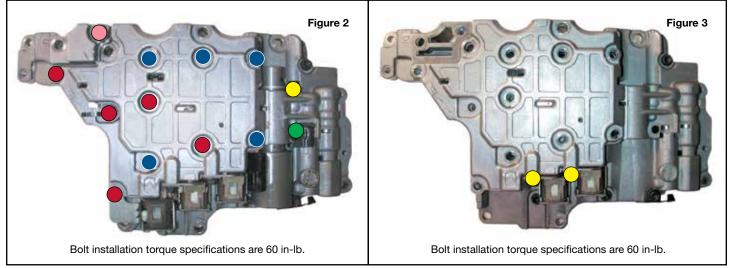
Zip Kit Instructions

1. Valve Body Disassembly

NOTE: See color charts for bolt lengths.

- a. Remove the 13 bolts (Figure 2).
- b. Remove the small cover, TCC control solenoid, throttle pressure control solenoid (Figure 1) and brackets.
- c. Remove the two bolts (Figure 3), two shift solenoids (Figure 1) and front valve body cover, separator plate and gasket.
- d. Remove the three checkballs, two oil filters, one check valve and spring, four bolts and one bracket (**Figure 4**).





Aisin AW 60-40LE ZIP KIT

1. Valve Body Disassembly (continued)

- e. Flip valve body over and remove five bolts. Lift rear valve body and separator plate off of front valve body (**Figure 5**).
- f. Remove 11 bolts to access valves retained under the two rear valve body covers (Figure 6).

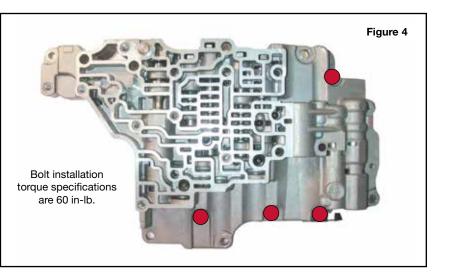
2. Installation

Install Zip Kit parts as shown on diagram of separate quick guide sheet included in this Zip Kit.

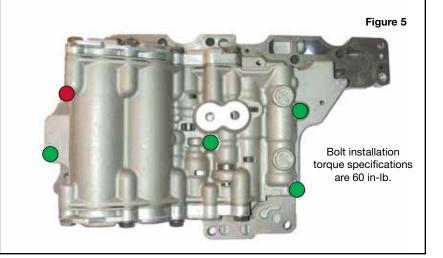
3. Valve Body Assembly

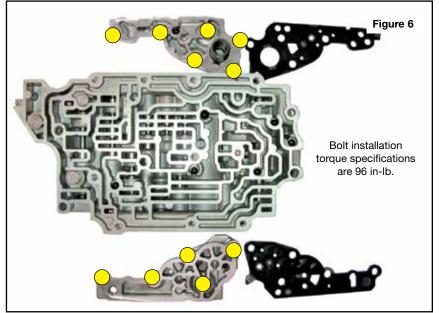
- a. Reinstall the two rear valve body covers and loosely install the 11 bolts (Figure 6), then torque to 96 in-lb.
- b. Reinstall the separator plate, gasket and rear valve body onto the front valve body (first ensuring all checkballs, check valves and filters are in proper locations). Loosely install the five bolts (**Figure 5**), then torque to 60 in-lb.
- c. Flip the valve body over.
- d. Loosely install the four bolts (Figure 4), and torque the four bolts to 60 in-lb.
- e. Place the front valve body cover, gasket and separator plate onto the front valve body. Reinstall the two shift solenoids and loosely install the two bolts (**Figure 3**).
- f. Reinstall the brackets, throttle pressure control solenoid, TCC control solenoid (**Figure 1**) and small cover.
- g. Loosely install the 13 bolts (Figure 2) and then torque all 15 bolts to 60 in-lb.

 olt Color Code	Bolt Length
Yellow	10mm
Red	16mm
Orange	20mm
Green	38mm
Blue	50mm



Installation & Testing Booklet





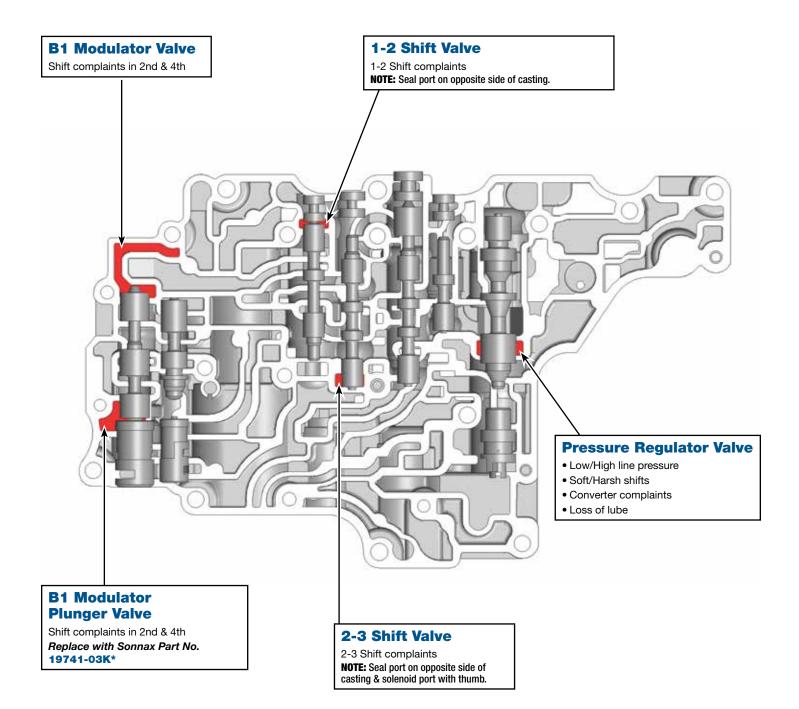




Critical Wear Areas & Vacuum Test Locations

NOTE: OE valves are shown in rest position and should be tested in rest position unless otherwise indicated. Test locations are pointed to with an arrow. Springs are not shown for visual clarity. Low vacuum reading indicates wear.

Front Control Valve Body - Separator Plate Side Shown Here



Part numbers with an asterisk () are included in this Zip Kit.

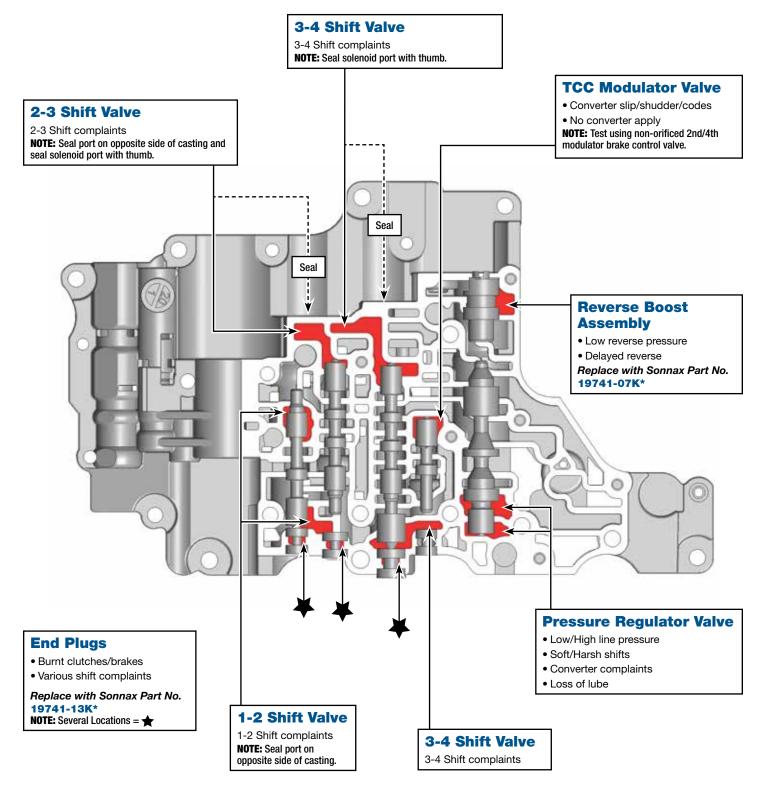
02-11-15 AW60-40LE-ZIP-Booklet

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20¹⁵10 25 5 30 0 VACUUM TEST

Front Control Valve Body - Cover Side Shown Here

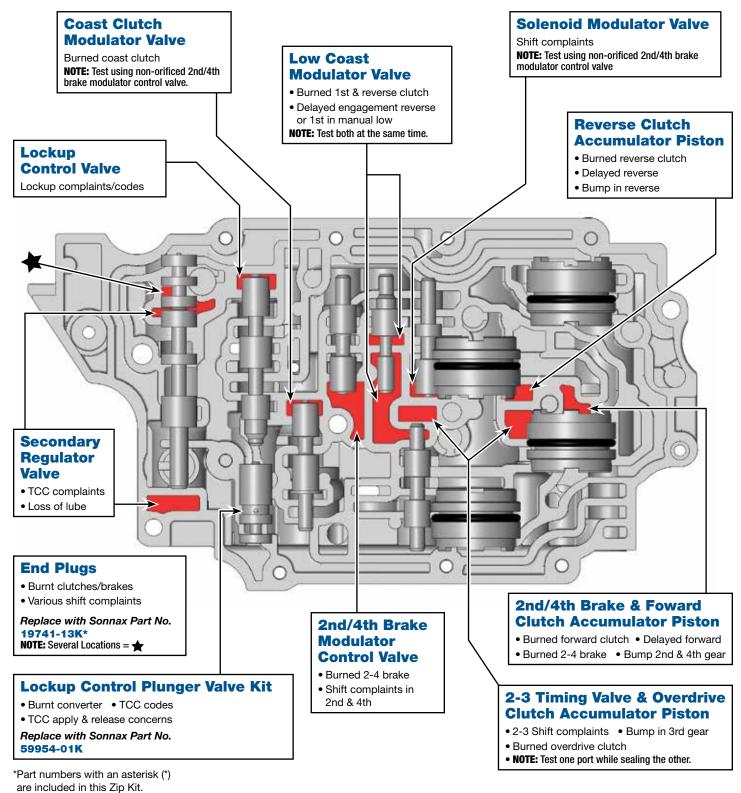




Critical Wear Areas & Vacuum Test Locations

NOTE: OE valves are shown in rest position and should be tested in rest position unless otherwise indicated. Test locations are pointed to with an arrow. Springs are not shown for visual clarity. Low vacuum reading indicates wear.

Rear Control Valve Body - Separator Plate Side Shown Here



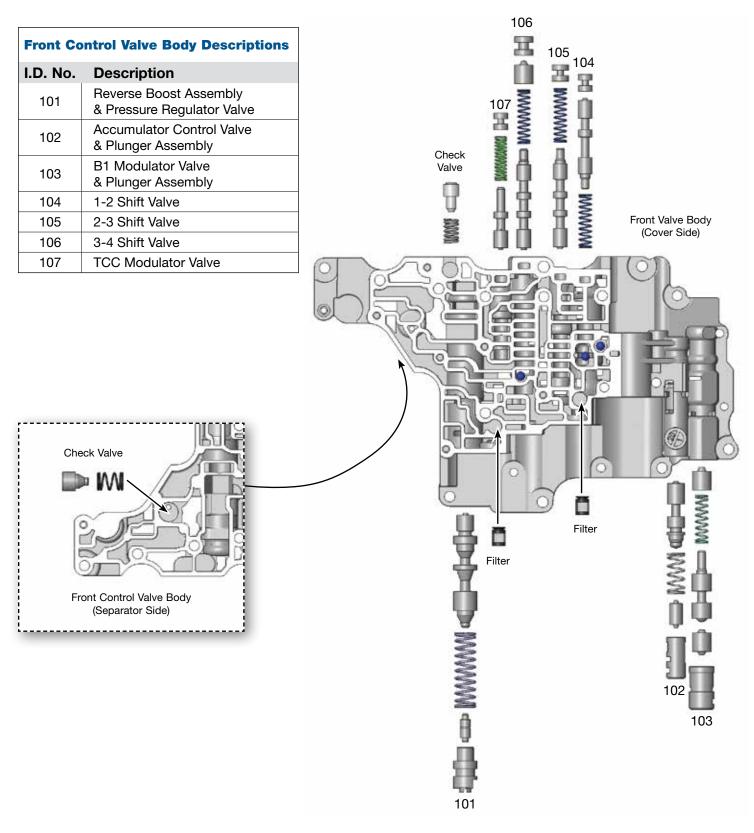
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OE Exploded View

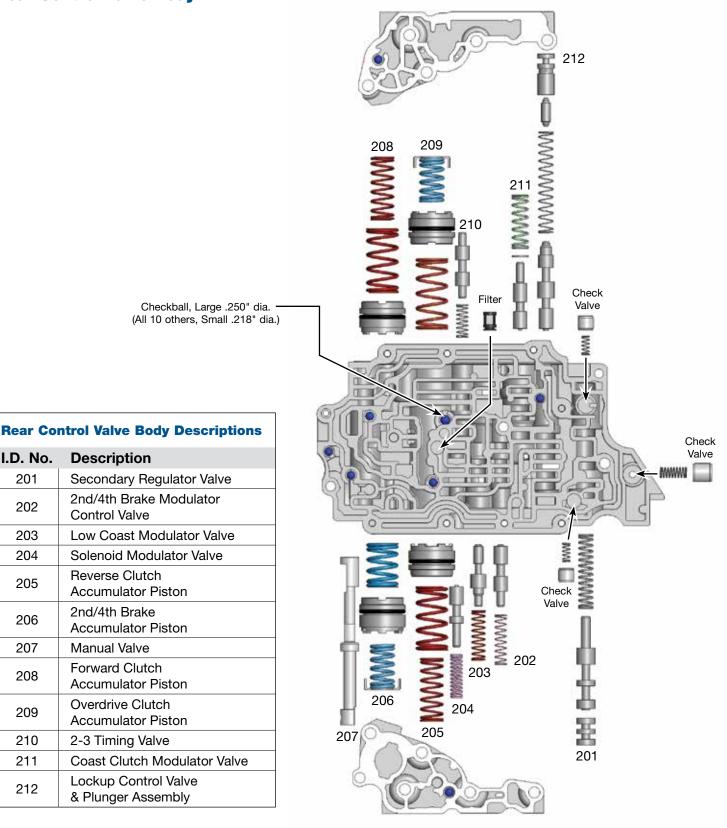
Front Control Valve Body - Cover Side (Separator Side Inset) Shown Here





OE Exploded View

Rear Control Valve Body



I.D. No.

201

202

203

204

205

206

207

208

209

210

211

212