

## ASE Education Foundation

### 2025 Correlation Chart

#### Automatic Transmission and Transaxle (A2)

**MLR-** Maintenance & Light Repair

**AST-** Auto Service Technology (Includes MLR)

**MAST-** Master Auto Service Technology (Includes MLR and AST)

	Task	Priority	MLR	AST	MAST	Text Page #	Task Page #
<b>A. General</b>							
1.	Research vehicle service information such as fluid type, vehicle service history, service precautions, technical service bulletins, and recalls including <b>xEVs</b> and vehicles equipped with advanced driver assistance systems (ADAS).	P-1	✓	✓	✓	117-119 692 1647	
2.	Identify automatic transmission and transaxle components and configurations, including converter automatic, dual-clutch automatic (DCT), CVT, and <b>xEV</b> drive.	P-1	✓	✓	✓	1622-1632	
3.	Retrieve and record DTCs, OBD monitor status, and freeze frame data; clear codes and data when directed.	P-1	✓	✓	✓	972-974 1682-1683	
4.	Inspect transmission fluid condition; check fluid level; inspect for leaks on transmission or transaxle equipped with a dipstick.	P-1	✓	✓	✓	1680	
5.	Inspect transmission fluid condition; check fluid level; inspect for leaks on transmission or transaxle not	P-1	✓ (P-3)	✓	✓	1681	

	equipped with a dipstick.						
	<b>Task</b>	<b>Priority</b>	<b>MLR</b>	<b>AST</b>	<b>MAST</b>	<b>Text Page #</b>	<b>Task Page #</b>
6.	Diagnose transmission/transaxle gear reduction/multiplication concerns using driving, driven, and held member (power flow) principles.	P-1	✓ (P-3)	✓	✓	1628-1631	
7.	Diagnose pressure concerns in a transmission using hydraulic principles (Pascal's Law).	P-1	✓ (P-3)	✓ (P-2)	✓	1088-1090 1687-1688	
8.	Identify and interpret transmission/transaxle concerns, differentiate between engine performance and transmission/transaxle concerns; determine needed action.	P-1		✓	✓	1680-1682	
9.	Diagnose fluid loss and condition concerns; determine needed action.	P-1		✓	✓	1685-1686	
10.	Perform stall test; determine needed action.	P-2		✓	✓	1685	
11.	Perform lock-up converter system tests; determine needed action.	P-2		✓ (P-3)	✓	1686	
12.	Perform pressure tests on transmissions/transaxles equipped with electronic pressure control; determine needed action.	P-1		✓ (P-3)	✓	1687-1688	
13.	Diagnose electronic transmission/transaxle control systems using appropriate test equipment and service information.	P-1		✓	✓	1682-1685	
14.	Diagnose noise and vibration concerns; determine needed action.	P-2			✓	1609-1620	

	Task	Priority	MLR	AST	MAST	Text Page #	Task Page #
<b>B. In-Vehicle Transmission/Transaxle</b>							
1.	Inspect, adjust, and replace external manual valve shift linkage, transmission range sensor/switch, and park/neutral position switch.	P-1	✓ (P-2)	✓ (P-2)	✓	1657 1690	
2.	Drain and replace fluid and filter(s); use proper fluid type per manufacturer specification.	P-1	✓	✓	✓	1688-1689	
3.	Perform relearn procedures	P-2	✓**	✓	✓	1702	
4.	Inspect, replace/or and align powertrain mounts.	P-1	✓ (P-3)	✓	✓	1570	
5.	Inspect for leakage; replace external seals, gaskets, and bushings.	P-2		✓	✓	1685-1686	
6.	Inspect, test, adjust, repair, and/or replace electrical/electronic components and circuits.	P-1		✓	✓	1692	
<b>C. Off-Vehicle Transmission and Transaxle</b>							
1.	Describe the operational characteristics of a continuously variable transmission (CVT).	P-2	✓ (P-3)	✓	✓	1634-1639	
2.	Describe the operational characteristics of a hybrid vehicle drive train.	P-2	✓	✓	✓	1665-1666	
3.	Remove and reinstall transmission/transaxle and torque converter; inspect engine core plugs, rear crankshaft seal, dowel pins, dowel pin holes, and mounting surfaces.	P-2		✓	✓	1693 1702	
4.	Inspect, leak test, flush, and/or replace transmission/transaxle oil cooler, lines, and fittings.	P-1		✓	✓	1701	
5.	Inspect, leak test, flush, and/or replace transmission/transaxle oil cooler, lines, and fittings.	P-1		✓	✓	1702	

\*\*Demonstrate understanding of relearn procedures.

6.	Inspect converter flex (drive) plate, converter attaching bolts, converter pilot, converter pump drive surfaces, converter end play, and crankshaft pilot bore.	P-2		✓	✓	1694-1695	
7.	Disassemble, clean, and inspect transmission/transaxle.	P-2			✓	1694-1695	
8.	Inspect, measure, clean, and replace valve body (includes surfaces, bores, springs, valves, sleeves, retainers, brackets, check valves/balls, screens, spacers, and gaskets).	P-2			✓	1695-1696	
9.	Inspect servo and accumulator bores, pistons, seals, pins, springs, and retainers; determine necessary action.	P-2			✓	1654 1696	
10.	Assemble transmission/transaxle.	P-2			✓	1698-1701	
11.	Inspect, measure, and reseal oil pump assembly and components.	P-2			✓	1695-1696	
12.	Measure transmission/transaxle end play and/or preload; determine necessary action	P-2			✓	1700	
13.	Inspect, measure, and replace thrust washers and bearings.	P-2			✓	1696	
14.	Inspect oil delivery circuits, including seal rings, ring grooves, and sealing surface areas, feed pipes, orifices, and check valves/balls.	P-2			✓	1696	
15.	Inspect bushings; determine necessary action.	P-2			✓	1699	
16.	Inspect and measure planetary gear assembly components; determine necessary action.	P-2			✓	1698	
17.	Inspect case bores, passages, bushings, vents, and mating surfaces; determine necessary action.	P-2			✓	1699	

18.	Diagnose and inspect transaxle drive, link chains, sprockets, gears, bearings, and bushings; perform necessary action.	P-2			✓	1601 1631	
19.	Inspect measure, repair, adjust or replace transaxle final drive components.	P-2			✓	1631-1632	
20.	Inspect clutch drum, piston, check-balls, springs, retainers, seals, and friction and pressure plates, bands and drums; determine necessary action.	P-2			✓	1651-1653 1697-1698	
21.	Measure clutch pack clearance; determine necessary action.	P-2			✓	1698-1699	
22.	Air test operation of clutch and servo assemblies.	P-2			✓	1698-1699	
23.	Inspect roller and sprag clutch, races, rollers, sprags, springs, cages, retainers; determine necessary action.	P-2			✓	1654 1699-1700	