

2021 ASE Correlation Chart

Automatic Transmissions/ Transaxles (A2)

MLR- Maintenance & Light Repair

AST- Auto Service Technology

MAST- Master Auto Service Technology

	Task	MLR	AST	MAST	Text Page #	Task Page #
A. General						
1.	Research vehicle service information such as fluid type, vehicle service history, service precautions, technical service bulletins, and recalls including vehicles equipped with advanced driver assistance systems (ADAS).	P-1	P-1	P-1	127-133; 1718-1721	24-26; 28; 420
2.	Identify automatic transmission and transaxle components and configurations.	P-1	P-1	P-1	1675-1690	421
3.	Retrieve and record DTCs, OBD monitor status, and freeze frame data; clear codes and data when directed.	P-1	P-1	P-1	1713	432
4.	Inspect transmission fluid condition; check fluid level; inspect for leaks on transmission or transaxle equipped with a dipstick.	P-1	P-1	P-1	148; 1711-1712	425
5.	Inspect transmission fluid condition; check fluid level; inspect for leaks on transmission or transaxle not equipped with a dipstick.	P-3	P-1	P-1	148; 1712	425

	Task	MLR	AST	MAST	Text Page #	Task Page #
6.	Demonstrate knowledge of/ diagnose transmission/transaxle gear reduction/multiplication concerns using driving, driven, and held member (power flow) principles.	P-3 Demonstrate knowledge only	P-1	P-1	1718	430
7.	Demonstrate knowledge of/diagnose pressure concerns in a transmission using hydraulic principles (Pascal's Law).	P-3 Demonstrate knowledge only	P-2	P-1	1718-1719	423
8.	Identify and interpret transmission/transaxle concern, differentiate between engine performance and transmission/transaxle concerns; determine needed action.		P-1	P-1	1711-1721	426
9.	Diagnose fluid loss and condition concerns; determine needed action.		P-1	P-1	1716-1717	425
10.	Perform stall test; determine needed action.		P-2	P-2	1714-1716	427
11.	Perform lock-up converter system tests; determine needed action.		P-3	P-2	1715-1717	428
12.	Perform pressure tests on transmissions/transaxles equipped with electronic pressure control; determine needed action.		P-3	P-1	1718-1719	426
13.	Diagnose electronic transmission/transaxle control systems using appropriate test equipment and service information.		P-1	P-1	1713	430; 432
14.	Diagnose noise and vibration concerns; determine needed action.			P-2	1662-1673	429

	Task	MLR	AST	MAST	Text Page #	Task Page #
B. In-Vehicle Transmission/Transaxle						
1.	Inspect, adjust, and/or replace external manual valve shift linkage, transmission range sensor/switch, and/or park/neutral position switch.	P-2	P-2	P-1	1720	431
2.	Drain and replace fluid and filter(s); use proper fluid type per manufacturer specification.	P-1	P-1	P-1	148; 1732	424
3.	Demonstrate understanding of /perform relearn procedures.	P-2 Under- standing only	P-2	P-2	1733	432
4.	Inspect, replace and/or align powertrain mounts.	P-3	P-1	P-1	276	433
5.	Inspect for leakage; replace external seals, gaskets, and bushings.		P-2	P-2	1719- 1720	434; 440
6.	Inspect, test, adjust, repair, and/or replace electrical/electronic components and circuits.		P-1	P-1	1731- 1732	430
C. Off-Vehicle Transmission and Transaxle						
1.	Describe the operational characteristics of a continuously variable transmission (CVT).	P-3	P-2	P-2	1685- 1688	455
2.	Describe the operational characteristics of a hybrid vehicle drive train.	P-2	P-2	P-2	1046- 1050	455
3.	Remove and reinstall transmission/transaxle and torque converter; inspect engine core plugs, rear crankshaft seal, dowel pins, dowel pin holes, and mating surfaces.		P-2	P-2	1734- 1735	435; 442
4.	Inspect, leak test, flush and/or replace transmission/transaxle oil cooler, lines, and fittings.		P-1	P-1	1720; 1732	440

	Task	MLR	AST	MAST	Text Page #	Task Page #
5.	Inspect converter flex (drive) plate, converter attaching bolts, converter pilot, converter pump drive surfaces, converter end play, and crankshaft pilot bore.		P-2	P-2	1725	441
6.	Disassemble, clean, and inspect transmission/transaxle.			P-2	1723-1724	436
7.	Inspect, measure, clean, and replace valve body (includes surfaces, bores, springs, valves, switches, solenoids, sleeves, retainers, brackets, check valves/balls, screens, spacers, and gaskets).			P-2	1626	437
8.	Inspect servo and accumulator bores, pistons, seals, pins, springs, and retainers; determine needed action.			P-2	1728	438
9.	Assemble transmission/transaxle.			P-2	1729-1732	439
10.	Inspect, measure, and reseal oil pump assembly and components.			P-2	1730-1731	443
11.	Measure transmission/transaxle end play or preload; determine needed action			P-2	1730-1731	444
12.	Inspect, measure, and/or replace thrust washers and bearings.			P-2	1728-1729	445
13.	Inspect oil delivery circuits, including seal rings, ring grooves, and sealing surface areas, feed pipes, orifices, and check valves/balls.			P-2	1726-1727	446
14.	Inspect bushings; determine needed action.			P-2	1730	447

	Task	MLR	AST	MAST	Text Page #	Task Page #
15.	Inspect and measure planetary gear assembly components; determine needed action.			P-2	1729	448
16.	Inspect case bores, passages, bushings, vents, and mating surfaces; determine needed action.			P-2	1727-1729	449
17.	Diagnose and inspect transaxle drive, link chains, sprockets, gears, bearings, and bushings; perform needed action.			P-2	1725	450
18.	Inspect measure, repair, adjust or replace transaxle final drive components.			P-2	1685-1686	451
19.	Inspect clutch drum, piston, check-balls, springs, retainers, seals, friction plates, pressure plates, and bands; determine needed action.			P-2	1729-1730	452
20.	Measure clutch pack clearance; determine needed action.			P-2	1729	453
21.	Air test operation of clutch and servo assemblies.			P-2	1729-1730	453
22.	Inspect one-way clutches, races, rollers, sprags, springs, cages, retainers; determine needed action.			P-2	1730	454