

2025 ASE Correlation Chart

Suspension and Steering (A4)

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 #
A. General							
1.	Research vehicle service information such as fluid type, vehicle service history, service precautions, technical service bulletins, and recalls including xEV and vehicles equipped with advanced driver assistance systems (ADAS).	P-1	✓	✓	✓	1-7; 260-268; 364-369	
2.	Identify suspension and steering system components and configurations.	P-1	✓	✓	✓	117-140	
3.	Retrieve and record DTCs, OBD monitor status, and freeze frame data; clear codes and data when directed.	P-1	✓	✓	✓	85-90; 208; 276-278	
4.	Disable and enable supplemental restraint system (SRS); verify indicator lamp operation.	P-1	✓ (P-2)	✓	✓	210-212	
5.	Identify and interpret suspension and steering system concerns; determine needed action.	P-1		✓	✓	92-279	
B. Steering Systems							
1.	Inspect rack and pinion steering gear tie rod ends (sockets) and bellows boots; repair or replace as needed.	P-1	✓	✓	✓	229-231	

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2.	Inspect power steering fluid level and condition.	P-2	✓	✓	✓	260-261	
3.	Drain and replace power steering system fluid; use proper fluid type per manufacturer specification.	P-2	✓	✓	✓	260-262	
4.	Inspect for power steering fluid leakage; determine needed action.	P-2	✓	✓	✓	260-261	
5.	Remove, inspect, replace, and/or adjust power steering pump drive belt.	P-2	✓	✓	✓	259-260	
6.	Inspect, remove, and/or replace power steering hoses and fittings.	P-2	✓	✓	✓	261	
7.	Inspect, remove, and/or replace pitman arm, relay (center link/intermediate) rod, idler arm, mountings, and steering linkage damper.	P-3	✓	✓	✓	238-240	
8.	Inspect, replace, and/or adjust tie rod ends (sockets), tie rod sleeves, and clamps (non-rack and pinion).	P-3	✓ Inspect only	✓	✓	238-240	
9.	Inspect and test electric power steering system; determine needed action.	P-1	✓ (P-2)	✓ (P-2)	✓	276-277	
10.	Remove and replace steering wheel; center/time supplemental restraint system (SRS) coil (clock spring).	P-1		✓	✓	211-212	
11.	Diagnose steering column noises, looseness, and binding concerns (including tilt/telescoping mechanisms); determine needed action.	P-2		✓	✓	212-216	
12.	Diagnose power steering gear (non-rack and pinion) binding, uneven turning effort, looseness, hard steering, and noise concerns; determine needed action.	P-3		✓	✓	259-263	

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13.	Diagnose power steering gear (rack and pinion) binding, uneven turning effort, looseness, hard steering, and noise concerns; determine needed action.	P-1		✓ (P-2)	✓	259-264	
14.	Inspect steering shaft universal joint(s), flexible coupling(s), collapsible column, lock cylinder mechanism, and steering wheel; determine needed action.	P-2		✓	✓	212-216	
15.	Remove and replace rack and pinion steering gear; inspect mounting bushings and brackets.	P-2		✓	✓	222-226	
16.	Remove and reinstall power steering pump	P-2		✓	✓	263-265	
	Task	Priority	MLR	AST	MAST	Text Page #	Task Page #
17.	Remove and reinstall press fit power steering pump pulley; check pulley and belt alignment.	P-2		✓	✓	263-264	
18.	Test power steering system pressure; determine needed action.	P-3			✓	261-263	
C. Suspension Systems							
1.	Inspect, remove, and/or replace upper and/or lower control arms, bushings, and shafts.	P-2	✓	✓	✓	163-165	
2.	Inspect and replace rebound/jounce bumpers.	P-2	✓ (P-3)	✓	✓	136-140	
3.	Inspect, remove, and/or replace track bar, strut rods/radius arms, and related mounts and bushings.	P-2	✓ Inspect only	✓	✓	176-180	
4.	Inspect, remove, and/or replace upper and/or lower ball joints (with or without wear indicators).	P-2	✓ Inspect only	✓ (P-3)	✓	150-155	
5.	Inspect, remove, and/or replace suspension system coil springs and spring insulators.	P-2	✓ Inspect only	✓	✓	161-162	

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6.	Inspect, remove, and/or replace torsion bars and mounts	P-3	Inspect only	✓	✓	164	
7.	Inspect, remove, and/or replace front/rear stabilizer bar (sway bar) bushings, brackets, and links.	P-2	✓	✓	✓	176-180	
	Task	Priority	MLR	AST	MAST	Text Page #	Task Page #
8.	Inspect, remove, and/or replace strut assembly, strut coil spring, insulators, and upper strut bearing mount.	P-2	✓	✓	✓	158-160	
9.	Inspect, remove, and/or replace components of rear suspension systems (Coil, Leaf, and Torsion Beam).	P-1	Inspect only	✓	✓	176-182	
10.	Inspect, remove, and/or replace components of electronically controlled suspension systems.	P-1	Inspect only	✓	✓	192-199	
11.	Inspect, remove, and/or replace steering knuckle assemblies.	P-2		✓	✓	163	
12.	Diagnose suspension system noises, body sway, and uneven ride height concerns; determine needed action	P-1		✓	✓	172-182	
D. Related Suspension and Steering Service							
1.	Inspect, remove, and/or replace shock absorbers; inspect mounts and bushings.	P-1	✓	✓	✓	156-158; 177-178	
2.	Inspect, service, and/or replace front and rear wheel bearings.	P-1	Inspect only	✓	✓	285-294	
3.	Describe the function of electronically controlled suspension and steering systems and components, (i.e., active suspension and stability control).	P-2	✓	✓	✓	184-199	

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E. Wheel Alignment							
	Task	Priority	MLR	AST	MAST	Text Page #	Task Page #
1.	Determine the need to recalibrate a vehicle's advanced driver assistance system (ADAS) after repairs or adjustments.	P-1	✓	✓	✓	340-365	
2.	Perform pre-alignment inspection, place vehicle in service mode as required; measure vehicle ride height; determine needed action.	P-1	✓ (P-2)	✓	✓	340-345	
3.	Describe four-wheel alignment angles (camber, caster, and toe) and effects on vehicle handling/tire wear.	P-1	✓	✓	✓	350-354	
4.	Prepare vehicle for wheel alignment on alignment machine; perform four-wheel alignment by checking and adjusting front caster, front and rear camber, and toe as required; center steering wheel.	P-1		✓	✓	340-365	
5.	Check toe-out-on-turns (turning radius); determine needed action.	P-1		✓	✓	347	
6.	Check steering axis inclination (SAI) and included angle; determine needed action	P-1		✓	✓	347	
7.	Check rear wheel thrust angle; determine needed action.	P-1		✓	✓	351	
8.	Check for front wheel setback; determine needed action.	P-1		✓	✓	337	
9.	Identify front and/or rear cradle (subframe) misalignment; determine needed action.	P-1		✓	✓	349-350	
10.	Reset steering angle sensor.	P-1		✓	✓	364-365	
11.	Diagnose vehicle wander, drift, pull, hard steering, bump steer, memory steer, torque steer, and steering return concerns; determine needed action.	P-1		✓	✓	340-344	

F. Wheels and Tires							
1.	Inspect tire condition; identify tire wear patterns; check for correct tire size, application (load and speed ratings) and air pressure as listed on the tire information placard/label.	P-1	✓	✓	✓	94-95	
2.	Rotate tires according to manufacturer's recommendation including vehicles equipped with tire pressure monitoring systems (TPMS)	P-1	✓	✓	✓	97-98	
3.	Dismount, inspect, and remount tire on wheel (with/without TPMS); balance wheel and tire assembly.	P-1	✓	✓	✓	100-103	
4.	Inspect tire and wheel assembly for air loss; determine needed action.	P-1	✓	✓	✓	92-94	
5.	Repair tire following tire manufacturer approved procedure.	P-1	✓	✓	✓	107-109; 113-114	
	Task	Priority	MLR	AST	MAST	Text Page #	Task Page #
6.	Identify indirect and direct tire pressure monitoring system (TPMS); calibrate/relearn system; verify operation of instrument panel lamps.	P-1	✓	✓	✓	80-83	
7.	Demonstrate knowledge of steps required to remove and replace sensors (per OEM/sensor manufacturer) in a tire pressure monitoring system (TPMS).	P-1	✓	✓	✓	82-90	
8.	Perform Road Force balance/match mounting.	P-1	✓ (P-3)	✓	✓	103-107	
9.	Diagnose wheel/tire vibration, shimmy, and noise; determine needed action.	P-1		✓	✓	98-103	

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10.	Measure wheel, tire, axle flange, and hub runout; determine needed action.	P-2		✓	✓	98-100	
11.	Diagnose tire pull problems; determine needed action.	P-1		✓	✓	64-65; 92-95	