



	MAST - 1200 Hours	AST - 840 Hours	MLR - 540 Hours	EM-130	EM-300-07
<b>A. General</b>					
1. Research vehicle service information such as fluid type, vehicle service history, service precautions, technical service bulletins, and recalls including xEVs and vehicles equipped with advanced driver assistance systems (ADAS).	P-1	P-1	P-1	X	X
2. Identify suspension and steering system components and configurations.	P-1	P-1	P-1	X	
4. Disable, enable, and properly handle SRS/airbag system components during vehicle service following manufactures' procedures.	P-1	P-1	P-2		X
5. Identify and interpret suspension and steering system concerns; determine needed action.	P-1	P-1		X	
<b>B. Steering Systems</b>					
1. Inspect rack and pinion steering gear tie rod ends (sockets) and bellows boots; repair or replace as needed.	P-1	P-1	P-1	X	
8. Inspect, replace, and/or adjust tie rod ends (sockets), tie rod sleeves, and clamps (non-rack and pinion).	P-3	P-3	P-3	X	
14. Inspect steering shaft universal joint(s), flexible coupling(s), collapsible column, lock cylinder mechanism, and steering wheel; determine needed action.	P-2	P-2		X	
15. Remove and replace rack and pinion steering gear; inspect mounting bushings and brackets.	P-2	P-2		X	
<b>C. Suspension Systems</b>					
7. Inspect, remove, and/or replace front/rear stabilizer bar (sway bar) bushings, brackets, and links.	P-2	P-2	P-2	X	
12. Diagnose suspension system noises, body sway, and uneven ride height concerns; determine needed action	P-1	P-1		X	
<b>E. Wheel Alignment</b>					
1. Perform pre-alignment inspection; measure vehicle ride height; determine needed action.	P-1	P-1	P-1	X	
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	P-1		X	
5. Check toe-out-on-turns (turning radius); determine needed action.	P-1	P-1		X	
8. Check for front wheel setback; determine needed action.	P-1	P-1		X	
<b>F. Wheels and Tires</b>					
1. Inspect tire condition/age; identify tire wear patterns; check for correct tire size, application (service-class, load, and speed ratings), and air pressure as listed on the tire information placard/label.	P-1	P-1	P-1	X	