

CHAPTER 8

MOTOR VEHICLE MECHANIC REPAIR CATEGORIES

Section 8-1

REQUIREMENT

Section 10 of the *Motor Vehicle Service and Repair Act* (MCL 257.1310) establishes certain categories of mechanic certification. A mechanic may only perform repairs if certified in the category. Questions regarding mechanic repair category descriptions should be directed to:

Michigan Department of State
Bureau of Regulatory Services
Business Licensing and Regulation Division (BLRD)
Lansing, MI 48918

Telephone: 1-888-SOS-MICH (1-888-767-6424)
Fax: (517) 335-2810
E-mail: BLRD@Michigan.gov

In this chapter, Automobile and Light Truck repair categories will be referred to as “Auto”; Heavy-duty Truck repair categories will be referred to as “H.D. Truck.”

Section 8-2

AUTOMOBILE AND LIGHT TRUCK UNDER 10,000 POUNDS G.V.W.

8-2.1 Automobile and Light Truck Engine Repair. Diagnosis, service and repair of the *internal* parts of the engine block and cylinder heads on gas and diesel engines must be performed by a mechanic certified in Automobile and Light Truck Engine Repair.

- a) **Requirements.** An Engine Repair mechanic may make all the *external* adjustments required to complete internal engine repairs. This includes adjustments of fuel and ignition systems and related electrical components. The Engine Repair mechanic may remove and replace starting and charging system components in conjunction with major engine repairs. See Table 8-1 for engine-related repairs that may also be performed by mechanics certified in other repair categories.
- b) **Exceptions.** Minor engine repairs that do not require certification are listed in Section 8-7. The following cannot be performed under Engine Repair:

- 1) Overhaul of starters and alternators is the responsibility of mechanics certified in Automobile and Light Truck Electrical Systems;
- 2) Overhaul of fuel and ignition system components is the responsibility of mechanics certified in Engine Tune-up/Performance.

Table 8-1
Automobile and Light Truck Engine Repair

Area to be Serviced	Other Acceptable Certification
Engine assembly (removal and replacement)	Engine Tune-up/Performance
Exhaust manifold	Any Auto or H.D. Truck certification (except Collision-Related Mechanical Repair or Unitized Body Structural Repair)
Fan (electrical)	Engine Tune-up/Performance; Heating and Air Conditioning; Electrical Systems (Auto and H.D. Truck)
Fan blade assembly	Any Auto or H.D. Truck certification (except Collision-Related Mechanical Repair or Unitized Body Structural Repair)
Fan clutch	Engine Tune-up/Performance; Heating and Air Conditioning; H.D. Truck Engine Repair (Gasoline and Diesel)
Flexplate	Automatic Transmission; H.D. Truck Engine Repair (Gasoline and Diesel)
Flywheel	Manual Transmission, Front and Rear Drive Axles; H.D. Truck Engine Repair (Gasoline and Diesel)
Freeze (core) plugs	Any Auto or H.D. Truck certification (except Collision-Related Mechanical Repair or Unitized Body Structural Repair)
Front pulley, harmonic balancer and seal	Any Auto or H.D. Truck certification (except Collision-Related Mechanical Repair or Unitized Body Structural Repair)
Fuel pump (electrical)	Engine Tune-up/Performance; Electrical Systems (Auto and H.D. Truck); H.D. Truck Engine Repair (Gasoline and Diesel)
Fuel pump (mechanical)	Engine Tune-up/Performance; H.D. Truck Engine Repair (Gasoline and Diesel)
Intake manifold or gasket	Engine Tune-up/Performance
Rocker arms and push rods, except overhead cam engine	Engine Tune-up/Performance; H.D. Truck Engine Repair (Gasoline and Diesel)
Tappet or rocker covers and gaskets	Any Auto or H.D. Truck certification (except Collision-Related Mechanical Repair or Unitized Body Structural Repair)
Temperature control valve	Engine Tune-up/Performance; Electrical Systems (Auto); Heating and Air Conditioning; H.D. Truck Engine Repair (Gasoline and Diesel)
Temperature gauges (sensors)	Engine Tune-up/Performance; Electrical Systems (Auto and H.D. Truck); Heating and Air Conditioning; H.D. Truck Engine Repair (Gasoline and Diesel)

Area to be Serviced	Other Acceptable Certification
Thermostat and water pump	Any Auto or H.D. Truck certification (except Collision-Related Mechanical Repair or Unitized Body Structural Repair)
Timing belt and/or chain and gears	Engine Tune-up/Performance

8-2.2 Automobile and Light Truck Engine Tune-up/Performance. Preventative maintenance, driveability, diagnosis and repair of engine tune-up and performance components must be performed by mechanics certified in Automobile and Light Truck Engine Tune-up/Performance. This includes all engine ignition, fuel and emission control systems (including diesel injection systems). Also included are diagnosis and replacement of related starting and charging system components. See Table 8-2 for related engine tune-up items that may be performed by mechanics certified in other repair categories.

- a) **Additional Repairs.** An Engine Tune-Up/Performance mechanic may adjust or replace engine parts or components not requiring the removal of connecting rods, crankshafts, or camshafts from their bearings or journals. The Engine Tune-up/Performance mechanic may remove and replace timing belts, chains, gears and intake manifold gaskets.
- b) **Exceptions.** Minor engine tune-up repairs that do not require certification are listed in Section 8-7. The following cannot be performed under Engine Tune-up/Performance:
 - 1) The tune-up/performance mechanic may *not* remove or replace cylinder heads or cylinder head gaskets;
 - 2) Overhaul of electrical components, including starters and alternators, is the responsibility of mechanics certified in Electrical Systems.

Table 8-2
Automobile and Light Truck Engine Tune-up/Performance

Area to be Serviced	Other Acceptable Certification
Fuel injection and induction	Engine Repair; H.D. Truck Engine Repair (Gasoline and Diesel)
Vapor control canister or filter	Any Auto or H.D. Truck certification (except Collision-Related Mechanical Repair or Unitized Body Structural Repair)

8-2.3 Automobile and Light Truck Front End, Suspension and Steering Systems. Diagnosis, service, repair and adjustment of front and rear suspension and steering systems must be performed by mechanics certified in Automobile and Light Truck Front End, Suspension and Steering Systems. This includes frame repair and replacement. See Table 8-3 for related items that may also be performed by mechanics certified in other repair categories. Minor front end, suspension and steering system repairs that do not require certification are listed in Section 8-7.

Table 8-3
Automobile and Light Truck Front End, Suspension and Steering Systems

Area to be Serviced	Other Acceptable Certification
Stabilizer bushings and links	Any Auto or H.D. Truck certification (except Collision-Related Mechanical Repair or Unitized Body Structural Repair)
Wheel bearing seals, wheel bearings, wheel hubs and studs	Auto and H.D. Truck Brakes and Braking Systems; Automatic Transmission; Manual Transmission, Front and Rear Drive Axles; H.D. Truck Drive Train; H.D. Truck Suspension and Steering Systems

8-2.4 Automobile and Light Truck Brakes and Braking Systems. Diagnosis, service, repair and adjustment of components in the braking system must be performed by mechanics certified in Automobile and Light Truck Brakes and Braking Systems. See Table 8-4 for related items that may also be performed by mechanics certified in other repair categories. Minor brake and braking system repairs that do not require certification are listed in Section 8-7.

Table 8-4
Automobile and Light Truck Brakes and Braking Systems

Area to be Serviced	Other Acceptable Certification
Wheel bearing seals, wheel bearings, wheel hubs and studs	Front End, Suspension and Steering Systems; Automatic Transmission; Manual Transmission, Front and Rear Drive Axles; H.D. Truck Drive Train; H.D. Truck Suspension and Steering Systems; H.D. Truck Brakes and Braking Systems
Parking brake (any service which can be done without removal of drum or rotor)	Any Auto or H.D. Truck certification (except Collision-Related Mechanical Repair or Unitized Body Structural Repair)

8-2.5 Automobile and Light Truck Automatic Transmission. Diagnosis, service, repair and adjustment of automatic transmissions/transaxles must be performed by mechanics certified in Automobile and Light Truck Automatic Transmission. See Table 8-5 for related transmission repair items that may also be performed by mechanics certified in other repair categories. Minor automatic transmission repairs that do not require certification are listed in Section 8-7.

Table 8-5
Automobile and Light Truck Automatic Transmission

Area to be Serviced	Other Acceptable Certification
Cooler lines and auxiliary coolers	Any Auto or H.D. Truck certification (except Collision-Related Mechanical Repair or Unitized Body Structural Repair)
Extension housing, bushing or seal	Auto Engine Repair; Manual Transmission, Front and Rear Drive Axles; H.D. Truck Engine Repair (Gasoline and Diesel); H.D. Truck Drive Train

Area to be Serviced	Other Acceptable Certification
External kickdown switch	Engine Tune-up/Performance; Auto and H.D. Truck Electrical Systems
External manual valve linkage	Auto Engine Repair; Engine Tune-up/Performance; H.D. Truck Engine Repair (Gasoline and Diesel); H.D. Truck Drive Train
External throttle valve linkage	Auto Engine Repair; Engine Tune-up/Performance; H.D. Truck Engine Repair (Gasoline and Diesel)
Filler tube O-ring	Any Auto or H.D. Truck certification (except Collision-Related Mechanical Repair or Unitized Body Structural Repair)
Flexplate	Auto Engine Repair; H.D. Truck Engine Repair (Gasoline and Diesel)
Neutral switch	Any Auto or H.D. Truck certification (except Collision-Related Mechanical Repair or Unitized Body Structural Repair)
Speedometer driven gear	Manual Transmission, Front and Rear Drive Axles; Auto and H.D. Truck Electrical Systems
Transmission modulator	Auto Engine Repair; Engine Tune-up/Performance

8-2.6 Automobile and Light Truck Manual Transmission, Front and Rear Drive Axles.

Diagnosis, service, repair and adjustment of manual transmissions/transaxles, clutches, drive shafts, differential assemblies and axle assemblies, transfer cases and related suspension components must be performed by mechanics certified in Automobile and Light Truck Manual Transmission, Front and Rear Drive Axles. See Table 8-6 for items that may also be serviced by mechanics certified in other repair categories. Minor manual transmission, front and rear drive axle repairs that do not require certification are listed in Section 8-7.

Alignment of axle and/or suspension components must be performed by mechanics certified in Front End, Suspension and Steering Systems.

Table 8-6
Automobile and Light Truck Manual Transmission, Front and Rear Drive Axles

Area to be Serviced	Other Acceptable Certification
Axle bearings and hubs	Front End, Suspension and Steering Systems; Auto Brakes and Braking Systems; H.D. Truck Engine Repair (Gasoline and Diesel)
Clutch (in conjunction with major engine repairs)	Auto Engine Repair; H.D. Truck Engine Repair (Gasoline and Diesel)
Rear control arms	Front End, Suspension and Steering Systems
Removal and reinstallation of drive shafts and drive axles in conjunction with other repairs	Auto Engine Repair; Front End, Suspension and Steering Systems; Automatic Transmission
Shift linkage (external)	Auto Engine Repair; Engine Tune-up/Performance; Automatic Transmission

8-2.7 Automobile and Light Truck Electrical Systems. Diagnosis, service, repair and adjustment of electrical systems must be performed by mechanics certified in Automobile and Light Truck Electrical Systems. A mechanic who is certified in another category may also work on the electrical components and circuits that are directly interrelated to the repair of components within that category. Minor electrical system repairs that do not require certification are listed in Section 8-7.

8-2.8 Automobile and Light Truck Heating and Air Conditioning. Diagnosis, service, repair and adjustment of heating and air conditioning systems must be performed by mechanics certified in Automobile and Light Truck Heating and Air Conditioning. See Table 8-7 for related heating and air conditioning repair items that may also be performed by mechanics certified in other repair categories. Minor heating and air conditioning repairs that do not require certification are listed in Section 8-7.

Table 8-7
Automobile and Light Truck Heating and Air Conditioning

Area to be Serviced	Other Acceptable Certification
Blower motors and switches	Auto Electrical Systems
*Detach compressor or other air conditioning components without discharging the refrigerant system	Any Auto or H.D. Truck certification (except Collision-Related Mechanical Repair or Unitized Body Structural Repair)
Fan (electrical)	Auto Engine Repair; Engine Tune-up/Performance; Auto and H.D. Truck Electrical Systems
Fan blade assembly	Any Auto or H.D. Truck certification (except Collision-Related Mechanical Repair or Unitized Body Structural Repair)
Fan clutch	Engine Tune-up/Performance; H.D. Truck Engine Repair (Gasoline and Diesel)
In-car temperature sensor	Auto Electrical Systems
Temperature control	Auto Electrical Systems
Temperature control valve	Auto Engine Repair; Engine Tune-up/Performance
Temperature gauges	Auto Engine Repair; Engine Tune-up/Performance; Auto and H.D. Truck Electrical Systems
Thermostat or water pump	Any Auto or H.D. Truck certification (except Collision-Related Mechanical Repair or Unitized Body Structural Repair)

*Charging of the air conditioning system must be performed by mechanics certified in Heating and Air Conditioning.

8-2.9 Collision-Related Mechanical Repair. Mechanics certified in Collision-Related Mechanical Repair may remove and replace motor vehicle components that are clearly damaged by collision. The diagnosis, repair or overhaul of mechanical components must be performed by mechanics certified in the appropriate repair categories. A mechanic certified in Collision-Related Mechanical

Repair may disconnect other vehicle components in order to gain access to the collision-damaged components. Minor collision-related repairs that do not require certification are listed in Section 8-7.

The following cannot be performed under Collision-Related Mechanical Repair:

- a) Charging of air conditioning systems must be performed by mechanics certified in Heating and Air Conditioning;
- b) Wheel alignment must be performed by mechanics certified in Front End, Suspension and Steering Systems.

8-2.10 Unitized Body Structural Repair. Persons who diagnose, repair or replace components that affect the structural integrity of a unitized body vehicle must be certified in Unitized Body Structural Repair. This includes persons who diagnose (estimate) the extent of work needed to repair damaged structural components. Minor unitized body structural repairs that do not require certification are listed in Section 8-7.

- a) These structural components are:
 - 1) Aprons;
 - 2) Cowl panel;
 - 3) Cross members;
 - 4) Floor pans;
 - 5) Front rails;
 - 6) Front strut towers;
 - 7) Pillars;
 - 8) Quarter panels;
 - 9) Radiator core support;
 - 10) Rear rails;
 - 11) Rear strut towers;
 - 12) Rocker panels;
 - 13) Roof panel;
 - 14) Upper and lower rails;
 - 15) Wheelhouse panels;
 - 16) The frame, or if the vehicle has a unitized body, the supporting structure that serves as the frame on a unitized body.

- b) **Other Information.** Removing a dent from a roof or quarter panel is not viewed as “affecting the structural integrity of the vehicle” and does not require certification. Sectioning or replacement of the roof panel or quarter panel requires the person performing the repair to be certified in Unitized Body Structural Repair. Repair or replacement of a bolt-on component, such as a hood, fender, door, deck lid, hatch or bumper, does not require certification.
- c) **Exceptions.** The following cannot be performed under Unitized Body Structural Repair:
- 1) A person who removes mechanical components to gain access to a damaged area or replaces mechanical parts damaged as a result of a collision must be certified in Collision-Related Mechanical Repair. This includes persons who remove or replace dash or air bag components;
 - 2) Charging of air conditioning systems must be performed by mechanics certified in Heating and Air Conditioning. Wheel alignment must be performed by mechanics certified in Front End, Suspension and Steering Systems.

8-2.11 Pre-1973 Vehicle Repair. Mechanics who are engaged exclusively in the repair of vehicles manufactured before 1973 may be certified in the specialty category of Pre-1973 Vehicles. This also applies to mechanics who are engaged in the reconditioning, replacement, adjustment, or alteration of the operating condition of pre-1973 vehicles. Mechanics currently certified in other appropriate categories may also work on pre-1973 vehicles.

- a) **Exceptions.** Minor repairs that do not require certification are listed in Section 8-7. The following cannot be performed under Pre-1973 Vehicles:
- 1) The pre-1973 vehicle mechanic may *not* perform unitized body structural repairs. This is the responsibility of mechanics certified in Unitized Body Structural Repair.

Special Note: The Pre-1973 Vehicles “specialty category” will *not* reinstate an individual’s “Master” status, nor does it contribute to “Master” status or upgrade a currently expired recertification category. The Pre-1973 Vehicles category is *not* necessary for a Master Mechanic certificate.

Section 8-3

HEAVY-DUTY TRUCKS OVER 10,000 POUNDS G.V.W.

8-3.1 Heavy-duty Truck Engine Repair (Gasoline). Preventive maintenance, diagnosis and repair of gasoline engines in trucks over 10,000 pounds G.V.W. must be performed by mechanics certified in Heavy-duty Truck Engine Repair (Gasoline). Diagnosis, removal and replacement of related starting and charging systems may also be performed by mechanics certified in Heavy-duty Truck Engine Repair (Gasoline). See Table 8-8 for related items that may also be performed by mechanics certified in other repair categories.

Minor heavy-duty truck gasoline engine repairs that do not require certification are listed in Section 8-7. Overhaul of electrical components, including starters, alternators and generators, is the responsibility of mechanics certified in Heavy-duty Truck Electrical Systems.

Table 8-8
Heavy-duty Truck Engine Repair (Gasoline)

Area to be Serviced	Other Acceptable Certification
Cylinder head gasket	Engine Repair (Auto); H.D. Truck Engine Repair (Diesel)
Exhaust manifold	Any Auto or H.D. Truck certification (except Collision-Related Mechanical Repair)
Flywheel or flexplate	H.D. Truck Drive Train
Fan clutch	Engine Repair (Auto); Heating and Air Conditioning; H.D. Truck Engine Repair (Diesel)
Freeze (core) plugs	Engine Repair (Auto); Engine Tune-up/Performance; Heating and Air Conditioning; H.D. Truck Engine Repair (Diesel)
Front or rear pulley or harmonic balancer	Any H.D. Truck certification (except Collision-Related Mechanical Repair)
Fuel pump	Engine Repair (Auto); Engine Tune-up/Performance; H.D. Truck Engine Repair (Diesel)
Heater water valve	Engine Tune-up/Performance; Heating and Air Conditioning; H.D. Truck Engine Repair (Diesel)
Ignition system	Engine Repair (Auto); Engine Tune-up/Performance; Auto or H.D. Truck Electrical Systems
Oil pan and gaskets	Any H.D. Truck certification (except Collision-Related Mechanical Repair)
Rocker arms and push rods	Engine Repair (Auto); Engine Tune-up/Performance; H.D. Truck Engine Repair (Diesel)
Tappet or rocker covers and gaskets	Any Auto or H.D. Truck certification (except Collision-Related Mechanical Repair or Unitized Body Structural Repair)
Temperature gauge units	Auto or H.D. Truck Electrical Systems
Thermostat	Any H.D. Truck certification (except Collision-Related Mechanical Repair)
Water pump	Any H.D. Truck certification (except Collision-Related Mechanical Repair)

8-3.2 Heavy-duty Truck Engine Repair (Diesel). Diagnosis, service, repair and adjustment of diesel engines in trucks over 10,000 pounds G.V.W. must be performed by mechanics certified in Heavy-duty Truck Engine Repair (Diesel). The diagnosis and repair of related starting and charging systems may also be performed by certified Heavy-duty Truck Engine Repair (Diesel) mechanics. See Table 8-9 for related diesel engine repair items that may also be performed by mechanics certified in other repair categories.

Minor heavy-duty truck diesel engine repairs that do not require certification are listed in Section 8-7. Overhaul of electrical components, including starters, alternators and generators, is the responsibility of mechanics certified in Heavy-duty Truck Electrical Systems.

Table 8-9
Heavy-duty Truck Engine Repair (Diesel)

Area to be Serviced	Other Acceptable Certification
Air starters	H.D. Truck Brakes and Braking Systems; Auto or H.D. Truck Electrical Systems
Exhaust manifolds	Any H.D. Truck certification (except Collision-Related Mechanical Repair)
Fan clutch	Engine Repair (Auto); Heating and Air Conditioning; H.D. Truck Engine Repair (Gasoline)
Flywheel	H.D. Truck Engine Repair (Gasoline); H.D. Truck Drive Train
Freeze (core) plugs	Engine Repair (Auto); Engine Tune-up/Performance; Heating and Air Conditioning; H.D. Truck Engine Repair (Gasoline)
Front pulley or harmonic balancer	Any H.D. Truck certification (except Collision-Related Mechanical Repair)
Oil pan and gaskets	Any H.D. Truck certification (except Collision-Related Mechanical Repair)
Tappet or rocker covers and gaskets	Any Auto or H.D. Truck certification (except Collision-Related Mechanical Repair or Unitized Body Structural Repair)
Temperature gauge or pyrometer units	Auto or H.D. Truck Electrical Systems
Thermostat	Any H.D. Truck certification (except Collision-Related Mechanical Repair)
Valve rockers and push rods	Engine Repair (Auto); Engine Tune-up/Performance; H.D. Truck Engine Repair (Gasoline)
Water pump	Any H.D. Truck certification (except Collision-Related Mechanical Repair)

8-3.3 Heavy-duty Truck Drive Train. Diagnosis, service, repair and adjustment of transmissions, clutches, propeller shafts and driving axle assemblies in vehicles over 10,000 pounds G.V.W. must be performed by mechanics certified in Heavy-duty Truck Drive Train. See Table 8-10 for items that may also be serviced by mechanics certified in other repair categories. Minor heavy-duty truck drive train repairs that do not require certification are listed in Section 8-7.

Table 8-10
Heavy-duty Truck Drive Train

Area to be Serviced	Other Acceptable Certification
Air shift components	H.D. Truck Brakes and Braking Systems
Clutch (in conjunction with major engine repairs)	H.D. Truck Engine Repair (Gasoline and Diesel)
Drive shaft and universal joints	H.D. Truck Engine Repair (Gasoline and Diesel); H.D. Truck Suspension and Steering Systems
Shift linkage (mechanical)	H.D. Truck Engine Repair (Gasoline and Diesel)
Torque converter planetary transmissions	Automatic Transmission
Transmission mounts	Any Auto or H.D. Truck certification (except Collision-Related Mechanical Repair or Unitized Body Structural Repair)

8-3.4 Heavy-duty Truck Brakes and Braking Systems. Diagnosis, service, repair and adjustment of components in the braking systems on trucks over 10,000 pounds G.V.W. must be performed by mechanics certified in Heavy-duty Truck Brakes and Braking Systems. See Table 8-11 for related brake repair items that may also be performed by mechanics certified in other repair categories. Minor heavy-duty truck brakes and braking system repairs that do not require certification are listed in Section 8-7.

Table 8-11
Heavy-duty Truck Brakes and Braking Systems

Area to be Serviced	Other Acceptable Certification
Air compressors	H.D. Truck Engine Repair (Gasoline and Diesel)
Brake electrical instrumentation (visual and audio warning devices and gauges)	H.D. Truck Electrical Systems
Electric trailer brakes	Recreational Trailer
Grease seals	H.D. Truck Drive Train
Hydraulic brake systems	Brakes and Braking Systems (Auto)
Transmission or drive shaft mounted parking brakes	H.D. Truck Drive Train
Wheel bearings	H.D. Truck Drive Train; H.D. Truck Suspension and Steering Systems
Wheel hubs	H.D. Truck Drive Train; H.D. Truck Suspension and Steering Systems
Wheel studs	H.D. Truck Drive Train; H.D. Truck Suspension and Steering Systems

8-3.5 Heavy-duty Truck Suspension and Steering Systems. Diagnosis, service, repair and adjustment of suspension and steering systems of vehicles over 10,000 pounds G.V.W. must be performed by mechanics certified in Heavy-duty Truck Suspension and Steering Systems. See Table 8-12 for related items that may also be performed by mechanics certified in other repair categories. Minor heavy-duty truck suspension and steering system repairs that do not require certification are listed in Section 8-7.

**Table 8-12
Heavy-duty Truck Suspension and Steering Systems**

Area to be Serviced	Other Acceptable Certification
Air suspension system	H.D. Truck Brakes and Braking Systems
Driving axle suspension	H.D. Truck Drive Train
Torsion bars	H.D. Truck Drive Train; H.D. Truck Brakes and Braking Systems
Towed vehicle suspension	H.D. Truck Brakes and Braking Systems
Wheel bearings, wheel hub and wheel studs	H.D. Drive Train; H.D. Truck Brakes and Braking Systems

8-3.6 Heavy-duty Truck Electrical Systems. Diagnosis, service, repair and adjustment of electrical systems on trucks over 10,000 pounds G.V.W. must be performed by mechanics certified in Heavy-duty Truck Electrical Systems. A mechanic who is certified in another category may also work on the electrical components and circuits that are directly interrelated to the repair of components within that category. Minor heavy-duty truck electrical system repairs that do not require certification are listed in Section 8-7.

8-3.7 Heavy-duty Truck Collision-Related Mechanical Repair. Mechanics certified in Heavy-duty Truck Collision-Related Mechanical Repair may remove and replace motor vehicle components that are clearly damaged by collision. The diagnosis, repair or overhaul of mechanical components must be performed by mechanics certified in the appropriate repair categories. A mechanic certified in Heavy-Duty Truck Collision-Related Mechanical Repair may disconnect other vehicle components in order to gain access to the collision-damaged components. Minor collision-related repairs that do not require certification are listed in Section 8-7.

The following cannot be performed under Collision-Related Mechanical Repair:

- a) Charging of air conditioning systems must be performed by mechanics certified in Heating and Air Conditioning;
- b) Wheel alignment must be performed by mechanics certified in Front End, Suspension and Steering Systems.

Section 8-4

MOTORCYCLE

Diagnosis, service, repair and adjustment of motorcycles and component parts, including engine and fuel systems, electrical systems, braking systems, drive train and chassis must be performed by mechanics certified in Motorcycle repair. A list of minor repairs that do not require certification is listed in Section 8-7.

Section 8-5

RECREATIONAL TRAILER

8-5.1 Definition. A recreational trailer is a travel trailer, camper trailer or other special purpose or utility trailer used on the highway and towed by an automobile or light truck with a gross towing weight of less than 10,000 pounds.

8-5.2 Conditions. Diagnosis, service, repair and adjustment of the mechanical, electrical and suspension components, including brakes, axles, bearings and springs of the recreational trailer, may be performed by mechanics certified in Recreational Trailer repair. See Table 8-13 for items that may also be serviced by mechanics certified in other repair categories. Minor repairs that do not require certification are listed in Section 8-7.

Table 8-13
Recreational Trailer

Area to be Serviced	Other Acceptable Certification
Trailer brakes	Auto and H.D. Truck Brakes and Braking Systems
Trailer electrical systems	Auto and H.D. Truck Electrical Systems
Wheel bearing seals, wheel bearings, wheel hubs and studs	Front End, Suspension and Steering Systems; Auto and H.D. Truck Brakes and Braking Systems; Automatic Transmission; Manual Transmission, Front and Rear Drive Axles; H.D. Truck Drive Train; H.D. Truck Suspension and Steering

Section 8-6

MECHANIC CERTIFICATION REQUIREMENTS INVOLVING SUBLET REPAIRS

When vehicles or major components are sublet to another repair facility for repair, the requirement to have the sublet repairs performed by a certified mechanic applies as follows:

- a) When the *vehicle* is sublet to another facility for major repairs:

- 1) The second facility must employ, and have the repairs performed by, a properly certified mechanic;
 - 2) If the first facility diagnosed the need for repair, the name and certification number of the diagnosing mechanic must appear on the customer's invoice, along with the name and certification number of the mechanic who actually performed the repairs.
- b) When a component, such as an engine or a transmission, is sublet to another facility for repairs:
- 1) The facility that removed the part must employ a properly certified mechanic to diagnose, remove or reinstall the part;
 - 2) The names and certification numbers of the mechanics who diagnosed, removed or reinstalled the part must appear on the final invoice given to the customer.

Section 8-7

MINOR REPAIRS

Mechanic certification is not required while performing minor repair services. "Minor repair services" means lubrication; oil changes; installing, changing, or otherwise servicing the antifreeze or other coolant; body repairing, except for unitized body structural repair; or the replacement, adjustment, repair, or servicing of any of the following parts and assemblies:

- a) Air cleaner element;
- b) Accessory drive belt;
- c) Air pump hose;
- d) 12-volt battery;
- e) Ground cable for 12-volt battery;
- f) Positive cable for 12-volt battery;
- g) Hold-down strap for 12-volt battery;
- h) Battery-to starter relay cable for 12-volt battery;
- i) Crankcase vent air cleaner;
- j) Crankcase vent air cleaner hose;
- k) Engine oil filter;
- l) Exhaust pipe, muffler, catalytic converter, tail pipe and associated attaching parts;
- m) Fuel filter;
- n) Fuel line flex hoses or lines;

- o)** Fuel tank, except for those tanks that contain a fuel pump;
- p)** Fuses;
- q)** Heater hoses;
- r)** Horns;
- s)** Idler pulley, adjust only;
- t)** Ignition coil output wire;
- u)** Light bulbs and headlamps;
- v)** Motor and transmission mounts;
- w)** Ornamental accessories;
- x)** Positive crankcase ventilation control valve (PCV);
- y)** Radiators;
- z)** Radiator hoses, upper and lower;
- aa)** Radiator reserve tank;
- bb)** Rear springs, leaf or coil, except MacPherson strut type assemblies;
- cc)** Shock absorbers which are not built in combination with other parts of the suspension;
- dd)** Analog speedometer;
- ee)** Vapor canister hoses;
- ff)** Wheels, except alignment;
- gg)** Windshield washer hose;
- hh)** Windshield washer tank;
- ii)** Wiper blades.