

Automotive Service Technician ILM Pre-Study Package List - 2005 NOA  
(Revised May 5, 2009)

- 090101aA Communication - Part A
- 090101aB Communication - Part B
- 090101b Measuring Tools
- 090101c Specialty Hand Tools
- 090101d Fastening Devices
- 090101e Safety
- 090102a Oxyacetylene Heating and Cutting
- 090102b Gas Metal Arc Welding (GMAW) (MIG Welding)
- 090103a Drivelines
- 090104a Frames
- 090104b Suspension and Steering Linkage Systems
- 090104c Wheels, Hubs and Tires
- 090104d Manual Steering
- 090104e Power Steering
- 090104f Steering Angles
- 090104g Alignment Procedures
- 090104h Steering Columns
- 090104i Suspension and Steering Diagnosis
- 090105a Brake System Fundamentals
- 090105b Hydraulic System Components
- 090105c Drum Brake Systems
- 090105d Disc Brake Systems
- 090105e Power Brakes
- 090105f Brake System Diagnosis and Service
- 090105g Antilock Brake Systems
- 090106a Electrical Fundamentals I
- 090106c Fundamentals of Magnetism
- 090106d Batteries
- 090106e Electrical System Diagnosis I
- 090107a Introduction to Scan Tools
- 090108a Active Restraint Systems
- 090108b Passive Restraint Systems

090201a Engine Fundamentals  
090201b Blocks and Related Components (Theory)  
090201c Blocks and Related Components (Service)  
090201d Crankshafts, Friction Bearings and Related Components (Theory)  
090201e Crankshafts, Friction Bearings and Related Components (Service)  
090201f Pistons, Piston Rings and Connecting Rods (Theory)  
090201g Pistons, Piston Rings and Connecting Rods (Service)  
090201h Camshafts and Valve Trains (Theory)  
090201i Camshafts and Valve Trains (Service)  
090201l Engine Disassembly Procedures  
090201m Engine Assembly Procedures  
090201n Air Induction Systems  
090201q Lubrication Systems  
090201r Cooling Systems  
090201s Engine Diagnosis  
090202a Axles and Bearings  
090202b Differentials  
090202c Final Drive Gear Sets  
090202d Drive Axle Assembly, Diagnosis and Service  
090204a Charging Systems and Control Circuits  
090204b Charging System Testing and Diagnosis  
090205a DC Motor Fundamentals  
090205b Starter Motors and Control Circuits  
090205c Starting System Testing and Diagnosis  
090301a Electrical Fundamentals III  
090301b Electronic Devices  
090301c Computer Inputs, Switches and Sensors  
090301d On-Board Computers  
090301e Advanced Electrical Schematics  
090302b Combustion and Exhaust Emissions  
090302c Exhaust Gas Analysis  
090303a Ignition System Fundamentals  
090303b Distributor Ignition Systems  
090303c Electronic Ignition Systems  
090303d Ignition System Diagnosis and Service

090304a Fuel Tanks and Supply Systems  
090304b Gasoline Fuel Injection System Fundamentals  
090304d Gasoline Fuel Injection System Diagnosis and Service  
090305aA Diesel Fuel Injection Systems (Mechanical) - Part A  
090305aB Diesel Fuel Injection Systems (Mechanical) - Part B  
090305b Diesel Fuel Injection Systems (Electronic)  
090306c Catalytic Converter Systems  
090306d Evaporative Emission Control Systems  
090307a Gauges and Warning Systems  
090307b Lighting Systems  
090307c Wiper and Washer Systems  
090307d Power Accessory Systems  
090307e Heated Glass Systems  
090307f Speed Control Systems  
090307g Sound Systems  
090307h Safety and Security Systems  
090307i Multiplexing and Networking  
090401a Automatic Transmission Fundamentals  
090401b Planetary Gear Sets  
090401c Torque Converters  
090401d Oil Pumps  
090401e Clutches and Bands  
090401f Hydraulic Valve Fundamentals  
090401g Pressure Regulator Valves  
090401h Throttle and Modulator Valves  
090401i Governors  
090401j Shift Valves  
090401k Hydraulic Circuits  
090401l Electronic Shift and Controls  
090401m Automatic Transmission Testing and Adjustments  
090401n Automatic Transmission Service and Repair  
090402a Manual Transmission Fundamentals  
090402b Manual Transmissions  
090402c Manual Transaxles  
090402d Clutches

090403a Manual Transfer Cases  
090403b Electronic Transfer Cases  
090403c All Wheel Drive (AWD) Transfer Cases  
090403d 4 x 4 Front Axle Control  
090404aA Air Conditioning - Part A  
090404aB Air Conditioning - Part B  
090404b Air Conditioning Controls  
090404c Air Conditioning Service  
090405a After Market Accessories  
A090306b Carburetors  
A090308a Liquefied Petroleum Gas/Compressed Natural Gas Fuel Systems