Business Systems Information Portal (BSIP)

VMRS Codes – Introduction

**V**ehicle **M**aintenance **R**eporting **S**tandards (VMRS) is the system used to track bus and vehicle maintenance throughout the state. These codes were created by the **A**merican **T**rucking **A**ssociations (ATA) as a uniform system of reporting and monitoring maintenance across many different types of equipment.

Proper use of VMRS codes in BSIP is essential for revealing problem areas in particular vehicle models and identifying areas of increased maintenance costs.

A VMRS code is nine digits in the form: **123-456-789**

Primary System   
(Most Important)

Secondary sub-section of Primary

Actual Item Serviced

**Examples:**

1. **Primary**

013 – Brakes

017 – Tires, Tubes, Liners & Valves

024 – Drive Shafts

044 – Fuel System

174 – Bus Body

Etc.

1. **Secondary** (Brake Examples)

013-001 – Front Brakes & Drums

013-002 – Rear Brakes & Drums

013-003 – Parking Brakes

013-006 – Brake Master Cylinder

Etc.

1. **Actual item** (Front Brake Examples)

013-001-005 – Guide – Front Brake Shoe

013-001-015 – Lining – Brake Front

013-001-023 – Drum – Front Brake

013-001-025 – Damper Spring – Front Brake Drum

013-001-123 – Stop – Slack Adjuster

Etc.

The following pages contain a one-page list of primary system codes for buses  
 (and other trucks) as well as a list of second-level codes that apply to buses**.**

**Primary System Level Codes for Buses:**

|  |  |
| --- | --- |
| 001 | AIR CONDITIONING, HEATING & VENTILATING SYSTEM |
| 002 | CAB & SHEET METAL |
| 003 | INSTRUMENTS, GAUGES, WARNING & SHUTDOWN DEVICES, & METERS |
| 010 | CHASSIS GROUP |
| 011 | AXLES - FRONT STEERING |
| 013 | BRAKES |
| 014 | FRAME COMPONENTS |
| 015 | STEERING |
| 016 | SUSPENSION |
| 017 | TIRES, TUBES, LINERS & VALVES |
| 018 | WHEELS, RIMS, HUBS & BEARINGS |
| 022 | AXLES - DRIVEN, REAR |
| 024 | DRIVESHAFTS |
| 027 | TRANSMISSION - AUTOMATIC |
| 031 | CHARGING SYSTEM |
| 032 | CRANKING SYSTEM |
| 033 | IGNITION SYSTEM |
| 034 | LIGHTING SYSTEM |
| 037 | MODULES/RELAYS - ELECTRICAL |
| 041 | AIR INTAKE SYSTEM |
| 042 | COOLING SYSTEM |
| 043 | EXHAUST SYSTEM |
| 044 | FUEL SYSTEM |
| 045 | POWER PLANT |
| 051 | GENERAL ACCESSORIES |
| 052 | ELECTRICAL ACCESSORIES |
| 053 | EXPENDABLE ITEMS |
| 054 | HORNS & MOUNTINGS & REVERSE SIGNAL ALARMS |
| 055 | CARGO HANDLING, RESTRAINTS, & LIFT SYSTEMS |
| 174 | BUS BODY |

**Extra System Level Codes for Other Trucks:**

|  |  |
| --- | --- |
| 012 | AXLES - NON-DRIVEN, REAR |
| 021 | AXLES - DRIVEN, FRONT STEERING |
| 023 | CLUTCH SYSTEM |
| 025 | TRANSFER CASE |
| 026 | TRANSMISSION - MAIN, MANUAL |
| 056 | POWER TAKE-OFF |
| 058 | VEHICLE WINCHING SYSTEM |
| 059 | VEHICLE COUPLING SYSTEM |
| 071 | BODY |
| 078 | TRIM & MISCELLANEOUS HARDWARE |
| 096 | POWER SHAFT - POWER TAKE-OFF |

**Second Level VMRS Codes for Buses:**

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| **001 - AIR CONDITIONING, HEATING & VENTILATING SYSTEM** | |
| 001-001-xxx | AIR CONDITIONING ASSEMBLY – COMPLETE |
| 001-002-xxx | HEATING & VENTILATING |
| 001-005-xxx | AUXILIARY FAN – DEFROSTER |
| **002 - CAB & SHEET METAL** | |
| 002-001-xxx | RADIATOR GRILLE |
| 002-002-xxx | FENDERS & MUD FLAPS - FRONT WHEEL |
| 002-004-xxx | HOOD |
| 002-005-xxx | COWL PANELS |
| 002-006-xxx | ROOF PANEL & REINFORCEMENTS |
| 002-007-xxx | PILLAR & REINFORCEMENTS |
| 002-008-xxx | INSTRUMENT PANEL |
| 002-009-xxx | SUN VISOR - EXTERIOR & INTERIOR |
| 002-010-xxx | MIRRORS |
| 002-012-xxx | FLOOR PAN |
| 002-013-xxx | FLOOR COVERINGS |
| 002-014-xxx | PANEL DEADENERS |
| 002-027-xxx | SEAT FRAMES & SPRINGS (Driver's Seat Only) |
| 002-028-xxx | ADJUSTER - FRONT SEAT (Driver's Seat Only) |
| 002-035-xxx | WINDSHIELD WIPER & WASHER |
| **003 - INSTRUMENTS, GAUGES, WARNING & SHUTDOWN DEVICES, & METERS** | |
| 003-001-xxx | GAUGES & WARNING DEVICES |
| 003-002-xxx | SPEEDOMETER |
| 003-004-xxx | SHUTDOWN DEVICES |
| **011 - AXLES - FRONT STEERING** | |
| 011-001-xxx | AXLE COMPONENTS - NON-DRIVEN, FRONT |
| **013 - BRAKES** | |
| 013-001-xxx | FRONT BRAKES & DRUMS |
| 013-002-xxx | REAR BRAKES & DRUMS |
| 013-003-xxx | PARKING BRAKES |
| 013-004-xxx | SPRING PARKING BRAKE (SEPARATE OR COMBINATION W/SERVICE BRAKE) |
| 013-005-xxx | PEDAL ASSEMBLY - SERVICE BRAKE |
| 013-006-xxx | BRAKE MASTER CYLINDER |
| 013-007-xxx | BRAKE LINES & FITTINGS - HYDRAULIC & AIR |
| 013-009-xxx | AIR COMPRESSOR |
| 013-010-xxx | AIR TYPE POWER BRAKES |
| 013-011-xxx | ABS, ANTI-LOCK SYSTEM |
| 013-013-xxx | AIR DISC BRAKES |
| 013-015-xxx | AIR BRAKE MONITORING SYSTEM |
| 013-016-xxx | HYDRAULIC MOTOR BRAKE SYSTEM |

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| **014 - FRAME COMPONENTS** | |
| 014-001-xxx | FRAME ASSEMBLY COMPONENTS |
| 014-002-xxx | BUMPERS & ATTACHING PARTS |
| 014-003-xxx | ENGINE MOUNTINGS |
| 014-004-xxx | CAB & BODY MOUNTINGS |
| 014-005-xxx | BATTERY SUPPORT |
| 014-006-xxx | FUEL TANK SUPPORT |
| 014-007-xxx | LICENSE CARRIER (Plate Holder) |
| 014-008-xxx | ATTACHING DEVICES - HOSES, LINES, TUBES & WIRE |
| 014-014-xxx | MUD FLAPS - REAR WHEEL |
| **015 - STEERING** | |
| 015-001-xxx | STEERING WHEEL |
| 015-002-xxx | STEERING SHAFT SUPPORT |
| 015-003-xxx | STEERING GEAR |
| 015-004-xxx | STEERING LINKAGE |
| 015-005-xxx | POWER STEERING PUMP |
| **016 - SUSPENSION** | |
| 016-002-xxx | FRONT SPRINGS |
| 016-003-xxx | FRONT SHOCK ABSORBERS |
| 016-004-xxx | FRONT STABILIZER |
| 016-005-xxx | SUSPENSION - REAR (NON-AIR) |
| 016-006-xxx | SHOCK ABSORBER - REAR |
| 016-007-xxx | STABILIZER - REAR |
| 016-008-xxx | AIR RIDE SUSPENSION |
| 016-009-xxx | AIR LEAF SUSPENSION |
| 016-012-xxx | HENDRICKSON SUSPENSION |
| 016-019-xxx | LOCKING DEVICE - RIDE HEIGHT |
| **017 - TIRES, TUBES, LINERS & VALVES** | |
| 017-001-xxx | TIRE - PNEUMATIC |
| 017-004-xxx | INNER TUBE - PNEUMATIC TIRE |
| 017-006-xxx | LINER (FLAP) - PNEUMATIC TIRE |
| 017-008-xxx | VALVE ASSEMBLY - TIRE |
| **018 - WHEELS, RIMS, HUBS & BEARINGS** | |
| 018-001-xxx | FRONT STEER AXLE WHEEL END COMPONENTS |
| 018-002-xxx | DRIVE AXLE WHEEL END COMPONENTS |
| 018-003-xxx | WHEELS |
| 018-005-xxx | BEARINGS - GENERAL |
| **022 - AXLES - DRIVEN, REAR** | |
| 022-001-xxx | AXLE HOUSING COMPONENTS - DRIVEN, REAR |
| 022-002-xxx | SHAFT - REAR AXLE |
| 022-003-xxx | DIFFERENTIAL CARRIER |
| **024 - DRIVESHAFTS** | |
| 024-002-xxx | DRIVE SHAFT, BEHIND MAIN TRANSMISSION |

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| **027 - TRANSMISSION - AUTOMATIC** | |
| 027-001-xxx | CASE - AUTOMATIC TRANSMISSION |
| 027-002-xxx | CONVERTER |
| 027-006-xxx | FORWARD CLUTCH ASSEMBLY |
| 027-008-xxx | INTERMEDIATE CLUTCH & CENTER SUPPORT |
| 027-013-xxx | PLANET CARRIER &/OR OUTPUT SHAFT ASSEMBLY |
| 027-017-xxx | SUN GEAR & SHAFT ASSEMBLY |
| 027-019-xxx | MAIN SHAFT ASSEMBLY & REAR INTERNAL GEAR |
| 027-024-xxx | VALVE BODY ASSEMBLY - MAIN CONTROL |
| 027-025-xxx | SOLENOID ASSEMBLY - DETENT, AUTOMATIC TRANSMISSION |
| 027-026-xxx | MODULATOR ASSEMBLY |
| 027-027-xxx | VALVE BODY ASSEMBLY - STATOR CONTROL |
| 027-028-xxx | SOLENOID ASSEMBLY - VARIABLE PITCH STATOR CONTROL |
| 027-029-xxx | OIL PUMP ASSEMBLY - AUTOMATIC TRANSMISSION |
| 027-031-xxx | REAR BEARING RETAINER OR CASE EXTENSION ASSEMBLY |
| 027-033-xxx | RANGE SELECTOR OR MANUAL LINKAGE |
| 027-034-xxx | GOVERNOR ASSEMBLY - AUTOMATIC TRANSMISSION |
| 027-035-xxx | OUTPUT DRIVE TRANSFER GEARING |
| 027-036-xxx | OIL PAN & SCREEN ASSEMBLY |
| 027-037-xxx | TRANSMISSION ASSEMBLY - AUTOMATIC |
| 027-038-xxx | ELECTRONIC CONTROLS, TRANSMISSION, AUTOMATIC |
| 027-039-xxx | COOLER - MANIFOLD |
| **031 - CHARGING SYSTEM** | |
| 031-001-xxx | GENERATOR/ALTERNATOR |
| 031-002-xxx | REGULATOR |
| **032 - CRANKING SYSTEM** | |
| 032-001-xxx | BATTERY & CABLES |
| 032-002-xxx | STARTER |
| 032-003-xxx | PRE-HEATER |
| **033 - IGNITION SYSTEM** | |
| 033-001-xxx | IGNITION SWITCH |
| 033-003-xxx | COIL & SPARK PLUGS |
| **034 - LIGHTING SYSTEM** | |
| 034-001-xxx | HEADLAMPS |
| 034-002-xxx | LAMPS - TAIL, STOP, TURN & LICENSE, REAR |
| 034-003-xxx | SIGNAL, PARKING, & BACKUP LAMPS |
| 034-004-xxx | BULBS, FUSES & WIRING - CLEARANCE / MARKER / INTERIOR LAMPS |
| 034-005-xxx | ELECTRICAL GROUNDS |
| 034-006-xxx | WARNING & EMERGENCY LIGHTING/DEVICES - SPECIAL APPLICATIONS |
| 034-007-xxx | SIGNALING DEVICES |
| **037 - MODULES/RELAYS - ELECTRICAL** | |
| 037-001-xxx | MODULES - ELECTRICAL, MULTIPLE USE |
| **041 - AIR INTAKE SYSTEM** | |
| 041-001-xxx | AIR CLEANER |
| 041-002-xxx | INTAKE MANIFOLD |
| 041-004-xxx | INTERCOOLER |
| 041-005-xxx | ETHER INJECTOR ASSEMBLY |
| **042 - COOLING SYSTEM** | |
| 042-001-xxx | SHUTTERS |
| 042-002-xxx | RADIATOR |
| 042-003-xxx | FAN - ENGINE COOLING |
| 042-004-xxx | WATER PUMP |
| 042-006-xxx | THERMOSTAT - ENGINE COOLING SYSTEM |
| 042-007-xxx | COOLANT FILTER |
| 042-009-xxx | COOLANT PRE-HEATER (IN BLOCK) - EXTERNAL ELECTRIC POWER SUPPLY |
| **043 - EXHAUST SYSTEM** | |
| 043-001-xxx | EMISSION CONTROLS |
| 043-002-xxx | EXHAUST MANIFOLD |
| 043-003-xxx | MUFFLER ASSEMBLY |
| 043-004-xxx | TURBOCHARGER ASSEMBLY |
| 043-006-xxx | EXHAUST AFTER-TREATMENT DEVICES |
| 043-007-xxx | SELECTIVE CATALYTIC REDUCTION SYSTEM (SCR) |
| **044 - FUEL SYSTEM** | |
| 044-001-xxx | TANK - FUEL, LIQUID |
| 044-002-xxx | FILTERS |
| 044-003-xxx | FUEL PUMP |
| 044-004-xxx | INJECTORS - MECHANICAL |
| 044-005-xxx | CARBURETOR |
| 044-006-xxx | GOVERNOR - GASOLINE ENGINES |
| 044-007-xxx | THROTTLE CONTROLS |
| 044-008-xxx | ENGINE SHUTDOWN |
| 044-011-xxx | SPEED CONTROL SYSTEM |
| 044-012-xxx | TANK - FUEL, GASEOUS |
| 044-013-xxx | ELECTRONIC ENGINE CONTROL |
| 044-014-xxx | INJECTORS - ELECTRONIC |

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| **045 - POWER PLANT** | |
| 045-001-xxx | FRONT COVERS |
| 045-002-xxx | CYLINDER BLOCK & CRANKCASE |
| 045-003-xxx | CRANKSHAFT |
| 045-004-xxx | FLYWHEEL |
| 045-005-xxx | CRANKSHAFT - HARMONIC BALANCER |
| 045-006-xxx | CONNECTING ROD, PISTON & RINGS ASSEMBLY |
| 045-007-xxx | CYLINDER HEAD |
| 045-008-xxx | CAMSHAFT - ACCESSORY DRIVE & VALVE MECHANISM |
| 045-009-xxx | OIL PUMP & DISTRIBUTION SYSTEM |
| 045-010-xxx | OIL FILLER & LEVEL INDICATOR |
| 045-011-xxx | FILTER ASSEMBLY - OIL |
| 045-012-xxx | REGULATOR - OIL TEMPERATURE |
| 045-013-xxx | OIL PAN |
| 045-014-xxx | VENTILATING SYSTEM |
| 045-019-xxx | OVERHAUL KIT - ENGINE |
| 045-020-xxx | ENGINE ASSEMBLY |
| 045-021-xxx | ELECTRONIC ENGINE CONTROLS |
| **051 - GENERAL ACCESSORIES** | |
| 051-001-xxx | TACHOMETER |
| 051-002-xxx | HUBODOMETER |
| 051-003-xxx | HOURMETER |
| 051-006-xxx | ACCESSORY SAFETY DEVICES |
| 051-007-xxx | FIRE DETECTION AND WARNING |
| 051-008-xxx | NAVIGATION SYSTEM - GPS |
| **052 - ELECTRICAL ACCESSORIES** | |
| 052-003-xxx | RADIO EQUIPMENT |
| 052-010-xxx | FAN - AUXILIARY |
| 052-011-xxx | AUXILIARY POWER |
| **053 - EXPENDABLE ITEMS** | |
| 053-001-xxx | TIRE CHAINS |
| 053-004-xxx | SAFETY EQUIPMENT |
| 053-005-xxx | MARKINGS - VEHICLE |
| 053-998-xxx | PAINT & PRESERVATIVES - VEHICLE |
| 053-999-xxx | VEHICLE FLUIDS, LUBRICANTS, GASES, & PARTICULATES |
| **054 - HORNS & MOUNTINGS & REVERSE SIGNAL ALARMS** | |
| 054-001-xxx | HORN & MOUNTING |
| 054-002-xxx | ALARM |
| **055 - CARGO HANDLING, RESTRAINTS, & LIFT SYSTEMS** | |
| 055-023-xxx | WHEELCHAIR LIFT |

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| **174 - BUS BODY** | |
| 174-001-xxx | BUS BODY ASSEMBLY |
| 174-002-xxx | BUS ENTRY STEP COMPONENTS |
| 174-003-xxx | BUS UNDERBODY STORAGE COMPARTMENT COMPONENTS |
| 174-004-xxx | BUS UNDERBODY BATTERY COMPARTMENT COMPONENTS |
| 174-005-xxx | BUS STANDARD SIDE WINDOW COMPONENTS |
| 174-006-xxx | BUS PUSH-OUT SIDE WINDOW COMPONENTS |
| 174-007-xxx | BUS REAR WINDOW COMPONENTS |
| 174-008-xxx | BUS VISIBILITY WINDOW COMPONENTS |
| 174-009-xxx | BUS DRIVER SLIDING WINDOW COMPONENTS |
| 174-011-xxx | OUTWARD OPENING BUS ENTRY DOOR COMPONENTS |
| 174-012-xxx | BUS SIDE EMERGENCY DOOR COMPONENTS |
| 174-013-xxx | BUS REAR EMERGENCY DOOR COMPONENTS |
| 174-014-xxx | BUS WHEELCHAIR ACCESS DOOR COMPONENTS |
| 174-015-xxx | BUS ROOF EMERGENCY ESCAPE HATCH COMPONENTS |
| 174-017-xxx | SCHOOL BUS STOP ARM COMPONENTS |
| 174-018-xxx | BUS BARRIER COMPONENTS |
| 174-019-xxx | BUS DRIVER SUN VISOR COMPONENTS |
| 174-020-xxx | BUS DRIVER CONTROL CONSOLE COMPONENTS |
| 174-021-xxx | BUS INTERIOR LUGGAGE RACK COMPONENTS |
| 174-022-xxx | BUS SEAT COMPONENTS |
| 174-023-xxx | MISCELLANEOUS BUS BODY ACCESSORIES |
| 174-024-xxx | BUS BODY ELECTRICAL COMPONENTS |
| 174-025-xxx | SCHOOL BUS CROSSING GATE COMPONENTS |
| 174-026-xxx | BUS PASSENGER HEATER COMPONENTS |
| 174-027-xxx | BUS ENTRANCE STEP HEATER COMPONENTS |
| 174-028-xxx | BUS BODY A/C SYSTEM COMPONENTS |
| 174-029-xxx | BUS DAVENPORT COMPONENTS |
| 174-030-xxx | BUS UNDER PASSENGER SEAT STORAGE BOX COMPONENTS |
| 174-031-xxx | BUS UNDER DRIVER SEAT STORAGE BOX COMPONENTS |
| 174-032-xxx | BUS BODY WHEELCHAIR LIFT COMPONENTS |
| 174-034-xxx | SEAT BELT ASSEMBLY |
| 174-035-xxx | BULKHEAD ASSEMBLY - BUS BODY |
| 174-037-xxx | MARKINGS - BUS BODY |
| 174-038-xxx | BUS BODY SIGNALING DEVICES |