LRGVDC
Transit Services Department

MAINTENANCE PROGRAM
Vehicle Maintenance Policy and Facility Maintenance Plan

Pending Board Approval
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LRGVDC Board of Directors
510 S. Pleasantview Drive
Weslaco, Texas 78596
(956)969-5761 | 1(800)574-8322
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GILLIG Preventive Maintenance List

Engine {6,000 Miles}

- Engine oil & filter
- Radiator Hoses & Clamps – Check
- Surge Tanks & Pressure Relief Caps – Check
- Change Secondary Fuel Filter
- Drain Fuel Filter Water Separator
- Crankcase Breather Tube-Check
- Cooing Fans - Check
- Change Coolant Filter
- Mounting Hardware – Check
- Air Intake Piping – Check
- After Treatment Exhaust Piping – Check
- Air Cleaner Restriction Indicator – Check
- Check Air Tanks & Reservoirs
- Charge Air Piping – Check
- Check Drive Belts & Tensioners

Exhaust {6,000 Miles}

- Check For Exhaust Restrictions & Leaks
- Check For Loose Exhaust Fasteners & Straps
- Inspect Exhaust Bellows & Alignment

Hydraulic System {6,000 Miles}

- Check hydraulic level
- Replace hydraulic fluid filter element

Drive Axle {6,000 Miles}

- Lubricate U-Joints And Slip Splines
- Replace Hydraulic Fluid Filter
- Check Differential Oil Level
- Inspect Differential Seals & Gaskets For Leaks

Steering Front Axle {6,000 Miles}

- Grease tie rod arm ends
- Grease kingpins
- Check Pitman Arm For Wear Or Damage
- Grease Drag Link & Steering Arm
- Lubricate Steering Column U-Joints & Shaft
- Check Tie Rod Ends For Wear & Loose Nuts
- Check Steering Arms For Wear Or Damage
- Check Drag Link Anti-tilt Bushing/Seal For Wear Or Damage
- Check Steering Gear Mounting Plate For Damage
- Lubricate Steering Intermediate Shaft

**Brakes {6,000 Miles}**
- Inspect Brake Air Hoses For Leaks Or Damage
- Check Steering Gear Mounting Bolt Torque
- Check Brake Chambers For Air Leaks
- Lubricate Slack Adjusters
- Check Slack Adjuster Operation

**Rear Suspension {6,000 Miles}**
- Re-torque Suspension Fasteners
- Check Suspension Ride Height

**Front Suspension {6,000 Miles}**
- Re-torque Suspension Fasteners

**Air System {6,000 Miles}**
- Check Air Compressor Mounting Fasteners
- Check Air Tank Mounting Fasteners

**Electrical {6,000 Miles}**
- Check Entry Doors, Sensitive Edge and Interlock Systems
- Check Wheel Chair Ramp, External Flasher & Alarm
- Check Kneeling System
- Check Stop Request & PA System
- Check Dash Controls For Proper Operation
- Check Gauges
- Check For System Error Codes: Engine, Trans., ABS, Etc.
- Check Interior Lights
- Check Throttle & Brake Pedal For Dirt, Debris, Corrosion, & Function
- Check Power Cable Connections
- Check Engine Compartment Lights for Function & Lenses
- Test Linear Heat Detector Wires In Engine Compartment
- Check Emergency Exit Operation Of Doors
- Check and Lubricate Battery Tray Slides & Rollers

**Jump Start Connections {6,000 Miles}**
- Verify Boot is in Place
- Inspect jump start cable for routing, chafing, & loose or broken clamps
- Inspect jump start housing for damage and cracks
- Inspect jump start terminal ends for corrosion
- Clean terminal ends and apply anti-corrosion protectant

**Batteries (6,000 Miles)**

- Check cables, hold downs, and boots
- Check open circuit voltage with DMM & check system
- Clean batteries of dirt and acid
- Inspect for bulging case and damaged terminals

**Starter (6,000 Miles)**

- Inspect cables for damage or corrosion
- Inspect bolts, cable support clamps, and brushes
- Inspect solenoid cap for cracks/damage

**Alternator (6,000 Miles)**

- Inspect cables for damage and corrosion
- Inspect for oil leaks
- Inspect support brackets and torque bolts
- Check alternator for dirt build up and grime

**Rear Main Fuse Panel (6,000 Miles)**

- Inspect cables for damage or corrosion
- Check torque on all connections
- Fuses should not be removed unless blown or improperly seated

**A/C Heater Unit (6,000 Miles)**

- Inspect power and ground cables, and all electrical connections inside of return air
- Fuses should not be removed unless blown or improperly seated

**Battery Equalizer (6,000 Miles)**

- Inspect for dirt, damage or corrosion

**Battery Disconnect Switch (6,000 Miles)**

- Inspect for dirt, damage or corrosion

**Front Main Fuse Box (6,000 Miles)**

- Inspect cables for damage or corrosion

**Rear Main I/O Panel (6,000 Miles)**

- Inspect power and ground cables, fuses, and circuit breakers
Exit Door I/O Panel {6,000 Miles}
- Inspect circuit breakers

Front Console Panel {6,000 Miles}
- Inspect power and ground cables, fuses, and circuit breakers

Body & Chassis {6,000 Miles}
- Lubricate wiper arm pivot point posts
- Inspect body for fluid leaks
- Inspect underbody/engine for damage or corrosion
- Inspect stanchion supports and tees for loose or missing fasteners
- Check for loose or missing overhead grab strap fasteners
- Inspect overhead grab straps for rips, frays, and tears

Doors {6,000 Miles}
- Check door panel alignment
- Inspect door seals for leaks or damage
- Inspect door sensitive edge
- Test emergency door release mechanisms

Wheelchair Ramp {6,000 Miles}
- Ramp control POWER and ON/OFF switch operate correctly
- POWER indicator lights when POWER ON/OFF switch is ON
- DEPLOY and STOW switch operates correctly
- Check for unusual noise or erratic movement
- Vestibule area clear of loose objects and debris
- Non-slip surface clean, free of slippery or sticky substances
- Check decals for illegibility or looseness: replace if necessary
- Check wiring insulation for abrasion or cuts: replace if necessary
- Check connectors for looseness: secure as necessary
- Check all threaded fasteners for looseness: retighten as necessary
- Check self-aligning assembly: components clean, free of debris

Air Conditioning {6,000 Miles}
- Check refrigerant charge
- Visually inspect refrigerant hoses and tubing
- Visually inspect for refrigerant or oil leaks
- Check dry eyes in bottom receiver sight glass and/or liquid line sight glass for moisture
- Visually inspect clutch armature for wear
- Inspect compressor drive belt & check tension
- Check compressor oil level & color
- Visually inspect unit for loose, damaged, or broken parts
- Clean or replace return air filter
- Insect condenser & evap coils for cleanliness
GILLIG Preventive Maintenance List

Engine {12,000 Miles}

- Engine oil & filter
- Radiator Hoses & Clamps – Check
- Surge Tanks & Pressure Relief Caps – Check
- Change Secondary Fuel Filter
- Drain Fuel Filter Water Separator
- Crankcase Breather Tube-Check
- Cooing Fans - Check
- Change Coolant Filter
- Mounting Hardware – Check
- Air Intake Piping – Check
- After Treatment Exhaust Piping – Check
- Air Cleaner Restriction Indicator – Check
- Check Air Tanks & Reservoirs
- Charge Air Piping – Check
- Check Drive Belts & Tensioners

Exhaust {12,000 Miles}

- Check For Exhaust Restrictions & Leaks
- Check For Loose Exhaust Fasteners & Straps
- Inspect Exhaust Bellows & Alignment

Hydraulic System {12,000 Miles}

- Check hydraulic level
- Replace hydraulic fluid filter element

Drive Axle {12,000 Miles}

- Lubricate U-Joints And Slip Splines
- Replace Hydraulic Fluid Filter
- Check Differential Oil Level
- Inspect Differential Seals & Gaskets For Leaks

Steering Front Axle {12,000 Miles}

- Grease tie rod arm ends
- Grease kingpins
- Check Pitman Arm For Wear Or Damage
- Grease Drag Link & Steering Arm
- Lubricate Steering Column U-Joints & Shaft
- Check Tie Rod Ends For Wear & Loose Nuts
• Check Steering Arms For Wear Or Damage
• Check Drag Link Anti-tilt Bushing/Seal For Wear Or Damage
• Check Steering Gear Mounting Plate For Damage
• Lubricate Steering Intermediate Shaft
• Check for excessive hub end play

Brakes {12,000 Miles}
• Inspect Brake Air Hoses For Leaks Or Damage
• Check Steering Gear Mounting Bolt Torque
• Check Brake Chambers For Air Leaks
• Lubricate Slack Adjusters
• Check Slack Adjuster Operation

Rear Suspension {12,000 Miles}
• Re-torque Suspension Fasteners
• Check Suspension Ride Height

Front Suspension {12,000 Miles}
• Re-torque Suspension Fasteners

Air System {12,000 Miles}
• Check Air Compressor Mounting Fasteners
• Check Air Tank Mounting Fasteners

Electrical {12,000 Miles}
• Check Entry Doors, Sensitive Edge and Interlock Systems
• Check Wheel Chair Ramp, External Flasher & Alarm
• Check Kneeling System
• Check Stop Request & PA System
• Check Dash Controls For Proper Operation
• Check Gauges
• Check For System Error Codes: Engine, Trans., ABS, Etc.
• Check Interior Lights
• Check Throttle & Brake Pedal For Dirt, Debris, Corrosion, & Function
• Check Power Cable Connections
• Check Engine Compartment Lights for Function & Lenses
• Test Linear Heat Detector Wires In Engine Compartment
• Check Emergency Exit Operation Of Doors
• Check and Lubricate Battery Tray Slides & Rollers

Jump Start Connections {12,000 Miles}
• Verify Boot is in Place
• Inspect jump start cable for routing, chafing, & loose or broken clamps
• Inspect jump start housing for damage and cracks
• Inspect jump start terminal ends for corrosion
• Clean terminal ends and apply anti-corrosion protectant

Batteries {12,000 Miles}
• Check cables, hold downs, and boots
• Check open circuit voltage with DMM & check system
• Clean batteries of dirt and acid
• Inspect for bulging case and damaged terminals
• Check battery electrolyte level and connection torque
• Test conductance with Midtronic tester per manufacturer’s procedures

Starter {12,000 Miles}
• Inspect cables for damage or corrosion
• Inspect bolts, cable support clamps, and brushes
• Inspect solenoid cap for cracks/damage

Alternator {12,000 Miles}
• Inspect cables for damage and corrosion
• Inspect for oil leaks
• Inspect support brackets and torque bolts
• Check alternator for dirt build up and grime

Rear Main Fuse Panel {12,000 Miles}
• Inspect cables for damage or corrosion
• Check torque on all connections
• Fuses should not be removed unless blown or improperly seated

A/C Heater Unit {12,000 Miles}
• Inspect power and ground cables, and all electrical connections inside of return air
• Fuses should not be removed unless blown or improperly seated

Chassis and Engine Harness/Cables {12,000 Miles}
• Inspect for dirt buildup in chassis and clean
• Check clamps, chafing
• Inspect for heat damage around hot areas, such as the turbo, muffler, etc.

Battery Equalizer {12,000 Miles}
• Inspect for dirt, damage or corrosion

Battery Disconnect Switch {12,000 Miles}
• Inspect for dirt, damage or corrosion
Front Main Fuse Box {12,000 Miles}
- Inspect cables for damage or corrosion

Rear Main I/O Panel {12,000 Miles}
- Inspect power and ground cables, fuses, and circuit breakers

Exit Door I/O Panel {12,000 Miles}
- Inspect circuit breakers

Front Console Panel {12,000 Miles}
- Inspect power and ground cables, fuses, and circuit breakers

Body & Chassis {12,000 Miles}
- Lubricate wiper arm pivot point posts
- Inspect body for fluid leaks
- Inspect underbody/engine for damage or corrosion
- Inspect stanchion supports and tees for loose or missing fasteners
- Check for loose or missing overhead grab strap fasteners
- Inspect overhead grab straps for rips, frays, and tears

Doors {12,000 Miles}
- Check door panel alignment
- Inspect door seals for leaks or damage
- Inspect door sensitive edge
- Test emergency door release mechanisms

Wheelchair Ramp {12,000 Miles}
- Ramp control POWER and ON/OFF switch operate correctly
- POWER indicator lights when POWER ON/OFF switch is ON
- DEPLOY and STOW switch operates correctly
- Check for unusual noise or erratic movement
- Vestibule area clear of loose objects and debris
- Non-slip surface clean, free of slippery or sticky substances
- Check decals for illegibility or looseness: replace if necessary
- Check wiring insulation for abrasion or cuts: replace if necessary
- Check connectors for looseness: secure as necessary
- Check all threaded fasteners for looseness: retighten as necessary
- Check self-aligning assembly: components clean, free of debris

Air Conditioning {12,000 Miles}
- Check refrigerant charge
- Visually inspect refrigerant hoses and tubing
- Visually inspect for refrigerant or oil leaks
• Check dry eyes in bottom receiver sight glass and/or liquid line sight glass for moisture
• Visually inspect clutch armature for wear
• Inspect compressor drive belt & check tension
• Check compressor oil level & color
• Visually inspect unit for loose, damaged, or broken parts
• Clean or replace return air filter
• Inspect condenser & evap coils for cleanliness
GILLIG Preventive Maintenance List

**Engine {18,000 Miles}**

- Engine oil & filter
- Radiator Hoses & Clamps – Check
- Surge Tanks & Pressure Relief Caps – Check
- Change Secondary Fuel Filter
- Drain Fuel Filter Water Separator
- Crankcase Breather Tube-Check
- Cooling Fans - Check
- Change Coolant Filter
- Mounting Hardware – Check
- Air Intake Piping – Check
- After Treatment Exhaust Piping – Check
- Air Cleaner Restriction Indicator – Check
- Check Air Tanks & Reservoirs
- Charge Air Piping – Check
- Check Drive Belts & Tensioners

**Exhaust {18,000 Miles}**

- Check For Exhaust Restrictions & Leaks
- Check For Loose Exhaust Fasteners & Straps
- Inspect Exhaust Bellows & Alignment

**Hydraulic System {18,000 Miles}**

- Check hydraulic level
- Replace hydraulic fluid filter element
- Replace Hydraulic Fluid

**Drive Axle {18,000 Miles}**

- Lubricate U-Joints And Slip Splines
- Replace Hydraulic Fluid Filter
- Check Differential Oil Level
- Inspect Differential Seals & Gaskets For Leaks

**Steering Front Axle {18,000 Miles}**

- Grease tie rod arm ends
- Grease kingpins
- Check Pitman Arm For Wear Or Damage
- Grease Drag Link & Steering Arm
- Lubricate Steering Column U-Joints & Shaft
• Check Tie Rod Ends For Wear & Loose Nuts
• Check Steering Arms For Wear Or Damage
• Check Drag Link Anti-tilt Bushing/Seal For Wear Or Damage
• Check Steering Gear Mounting Plate For Damage
• Lubricate Steering Intermediate Shaft

**Brakes {18,000 Miles}**

• Inspect Brake Air Hoses For Leaks Or Damage
• Check Steering Gear Mounting Bolt Torque
• Check Brake Chambers For Air Leaks
• Lubricate Slack Adjusters
• Check Slack Adjuster Operation

**Rear Suspension {18,000 Miles}**

• Re-torque Suspension Fasteners
• Check Suspension Ride Height

**Front Suspension {18,000 Miles}**

• Re-torque Suspension Fasteners

**Air System {18,000 Miles}**

• Check Air Compressor Mounting Fasteners
• Check Air Tank Mounting Fasteners

**Electrical {18,000 Miles}**

• Check Entry Doors, Sensitive Edge and Interlock Systems
• Check Wheel Chair Ramp, External Flasher & Alarm
• Check Kneeling System
• Check Stop Request & PA System
• Check Dash Controls For Proper Operation
• Check Gauges
• Check For System Error Codes: Engine, Trans.,ABS,Etc
• Check Interior Lights
• Check Throttle & Brake Pedal For Dirt, Debris, Corrosion, & Function
• Check Power Cable Connections
• Check Engine Compartment Lights for Function & Lenses
• Test Linear Heat Detector Wires In Engine Compartment
• Check Emergency Exit Operation Of Doors
• Check and Lubricate Battery Tray Slides & Rollers

**Jump Start Connections {18,000 Miles}**

• Verify Boot is in Place
• Inspect jump start cable for routing, chafing, & loose or broken clamps
• Inspect jump start housing for damage and cracks
• Inspect jump start terminal ends for corrosion
• Clean terminal ends and apply anti-corrosion protectant

Batteries {18,000 Miles}
• Check cables, hold downs, and boots
• Check open circuit voltage with DMM & check system
• Clean batteries of dirt and acid
• Inspect for bulging case and damaged terminals

Starter {18,000 Miles}
• Inspect cables for damage or corrosion
• Inspect bolts, cable support clamps, and brushes
• Inspect solenoid cap for cracks/damage

Alternator {18,000 Miles}
• Inspect cables for damage and corrosion
• Inspect for oil leaks
• Inspect support brackets and torque bolts
• Check alternator for dirt build up and grime

Rear Main Fuse Panel {18,000 Miles}
• Inspect cables for damage or corrosion
• Check torque on all connections
• Fuses should not be removed unless blown or improperly seated

A/C Heater Unit {18,000 Miles}
• Inspect power and ground cables, and all electrical connections inside of return air
• Fuses should not be removed unless blown or improperly seated

Battery Equalizer {18,000 Miles}
• Inspect for dirt, damage or corrosion

Battery Disconnect Switch {18,000 Miles}
• Inspect for dirt, damage or corrosion

Front Main Fuse Box {18,000 Miles}
• Inspect cables for damage or corrosion

Rear Main I/O Panel {18,000 Miles}
• Inspect power and ground cables, fuses, and circuit breakers

Exit Door I/O Panel {18,000 Miles}
• Inspect circuit breakers

Front Console Panel {18,000 Miles}
• Inspect power and ground cables, fuses, and circuit breakers

Body & Chassis {18,000 Miles}
• Lubricate wiper arm pivot point posts
• Inspect body for fluid leaks
• Inspect underbody/engine for damage or corrosion
• Inspect stanchion supports and tees for loose or missing fasteners
• Check for loose or missing overhead grab strap fasteners
• Inspect overhead grab straps for rips, frays, and tears

Doors {18,000 Miles}
• Check door panel alignment
• Inspect door seals for leaks or damage
• Inspect door sensitive edge
• Test emergency door release mechanisms
• Check door motor and base plate fasteners

Wheelchair Ramp {18,000 Miles}
• Ramp control POWER and ON/OFF switch operate correctly
• POWER indicator lights when POWER ON/OFF switch is ON
• DEPLOY and STOW switch operates correctly
• Check for unusual noise or erratic movement
• Vestibule area clear of loose objects and debris
• Non-slip surface clean, free of slippery or sticky substances
• Check decals for illegibility or looseness: replace if necessary
• Check wiring insulation for abrasion or cuts: replace if necessary
• Check connectors for looseness: secure as necessary
• Check all threaded fasteners for looseness: retighten as necessary
• Check self-aligning assembly: components clean, free of debris

Air Conditioning {18,000 Miles}
• Check refrigerant charge
• Visually inspect refrigerant hoses and tubing
• Visually inspect for refrigerant or oil leaks
• Check dry eyes in bottom receiver sight glass and/or liquid line sight glass for moisture
• Visually inspect clutch armature for wear
• Inspect compressor drive belt & check tension
• Check compressor oil level & color
• Visually inspect unit for loose, damaged, or broken parts
• Clean or replace return air filter
• Insect condenser & evap coils for cleanliness
• Install service gauge and manifold set & check system pressures, temperatures, & suction line
• Check clutch air gap (X426, X430 only)
GILLIG Preventive Maintenance List

Engine {24,000 Miles}

- Engine oil & filter
- Radiator Hoses & Clamps – Check
- Surge Tanks & Pressure Relief Caps – Check
- Change Secondary Fuel Filter
- Drain Fuel Filter Water Separator
- Crankcase Breather Tube-Check
- Cooling Fans - Check
- Change Coolant Filter
- Mounting Hardware – Check
- Air Intake Piping – Check
- After Treatment Exhaust Piping – Check
- Air Cleaner Restriction Indicator – Check
- Check Air Tanks & Reservoirs
- Charge Air Piping – Check
- Check Drive Belts & Tensioners
- Replace crankcase breather element
- Inspect vibration damper
- Clean air compressor discharge lines

Exhaust {24,000 Miles}

- Check For Exhaust Restrictions & Leaks
- Check For Loose Exhaust Fasteners & Straps
- Inspect Exhaust Bellows & Alignment

Hydraulic System {24,000 Miles}

- Check hydraulic level
- Replace hydraulic fluid filter element
- Check hydraulic pump mounting bolts

Drive Axle {24,000 Miles}

- Lubricate U-Joints And Slip Splines
- Replace Hydraulic Fluid Filter
- Check Differential Oil Level
- Inspect Differential Seals & Gaskets For Leaks
- Check axle mounting fastener torque
- Check axle flange nut torque

Steering Front Axle {24,000 Miles}
• Grease tie rod arm ends
• Grease kingpins
• Check Pitman Arm For Wear Or Damage
• Grease Drag Link & Steering Arm
• Lubricate Steering Column U-Joints & Shaft
• Check Tie Rod Ends For Wear & Loose Nuts
• Check Steering Arms For Wear Or Damage
• Check Drag Link Anti-tilt Bushing/Seal For Wear Or Damage
• Check Steering Gear Mounting Plate For Damage
• Lubricate Steering Intermediate Shaft
• Check for excessive hub end play
• Grease behind output shaft dirt-and-water seal
• Inspect steering shaft seal

Brakes {24,000 Miles}

• Inspect Brake Air Hoses For Leaks Or Damage
• Check Steering Gear Mounting Bolt Torque
• Check Brake Chambers For Air Leaks
• Lubricate Slack Adjusters
• Check Slack Adjuster Operation
• Perform brake valve preventive maintenance
• Clean, and inspect brake valve, treadle, plunger boot, and mounting plate
• Lubricate treadle roller, roller pin, and hinge pin
• Apply a thin layer of Barium grease between plunger and mounting plate, do not over oil

Rear Suspension {24,000 Miles}

• Re-torque Suspension Fasteners
• Check Suspension Ride Height
• Check air springs for wear and damage
• Check shocks and bushings for leaks or wear
• Check for loose or damaged mounting parts
• Check kneeling system operation

Front Suspension {24,000 Miles}

• Re-torque Suspension Fasteners
• Check air springs for wear and damage
• Check shocks and bushings for leaks and wear
• Check external bump stops for wear and damage
• Check for proper ride height
• Check for loose or damaged mounting parts
• Test height control valve operation
• Test kneeling system operation

Air System {24,000 Miles}

• Check Air Compressor Mounting Fasteners
• Check Air Tank Mounting Fasteners
• Perform brake valve preventive maintenance

**Air Dryer {24,000 Miles}**

• Test air dryer operation and check for leaks
• Check air dryer mounting fasteners

**Electrical {24,000 Miles}**

• Check Entry Doors, Sensitive Edge and Interlock Systems
• Check Wheel Chair Ramp, External Flasher & Alarm
• Check Kneeling System
• Check Stop Request & PA System
• Check Dash Controls For Proper Operation
• Check Gauges
• Check For System Error Codes: Engine, Trans., ABS, Etc.
• Check Interior Lights
• Check Throttle & Brake Pedal For Dirt, Debris, Corrosion, & Function
• Check Power Cable Connections
• Check Engine Compartment Lights for Function & Lenses
• Test Linear Heat Detector Wires In Engine Compartment
• Check Emergency Exit Operation Of Doors
• Check and Lubricate Battery Tray Slides & Rollers

**Jump Start Connections {24,000 Miles}**

• Verify Boot is in Place
• Inspect jump start cable for routing, chafing, & loose or broken clamps
• Inspect jump start housing for damage and cracks
• Inspect jump start terminal ends for corrosion
• Clean terminal ends and apply anti-corrosion protectant

**Batteries {24,000 Miles}**

• Check cables, hold downs, and boots
• Check open circuit voltage with DMM & check system
• Clean batteries of dirt and acid
• Inspect for bulging case and damaged terminals
• Check battery electrolyte level and connection torque
• Test conductance with Midtronic tester per manufacturer’s procedures
• Check voltage regulator settings

**Starter {24,000 Miles}**

• Inspect cables for damage or corrosion
• Inspect bolts, cable support clamps, and brushes
• Inspect solenoid cap for cracks/damage

**Alternator {24,000 Miles}**
• Inspect cables for damage and corrosion
• Inspect for oil leaks
• Inspect support brackets and torque bolts
• Check alternator for dirt build up and grime

Rear Main Fuse Panel {24,000 Miles}
• Inspect cables for damage or corrosion
• Check torque on all connections
• Fuses should not be removed unless blown or improperly seated

A/C Heater Unit {24,000 Miles}
• Inspect power and ground cables, and all electrical connections inside of return air
• Fuses should not be removed unless blown or improperly seated

Chassis and Engine Harness/Cables {24,000 Miles}
• Inspect for dirt buildup in chassis and clean
• Check clamps, chafing
• Inspect for heat damage around hot areas, such as the turbo, muffler, etc.

Battery Equalizer {24,000 Miles}
• Inspect for dirt, damage or corrosion

Battery Disconnect Switch {24,000 Miles}
• Inspect for dirt, damage or corrosion

Front Main Fuse Box {24,000 Miles}
• Inspect cables for damage or corrosion

Rear Main I/O Panel {24,000 Miles}
• Inspect power and ground cables, fuses, and circuit breakers

Exit Door I/O Panel {24,000 Miles}
• Inspect circuit breakers

Front Console Panel {24,000 Miles}
• Inspect power and ground cables, fuses, and circuit breakers

Body & Chassis {24,000 Miles}
• Lubricate wiper arm pivot point posts
• Inspect body for fluid leaks
• Inspect underbody/engine for damage or corrosion
• Inspect stanchion supports and tees for loose or missing fasteners
• Check for loose or missing overhead grab strap fasteners
• Inspect overhead grab straps for rips, frays, and tears
• Inspect fenders and splash aprons
• Check wiper arm adjustment

Doors {24,000 Miles}

• Check door panel alignment
• Inspect door seals for leaks or damage
• Inspect door sensitive edge
• Test emergency door release mechanisms

Wheelchair Ramp {24,000 Miles}

• Ramp control POWER and ON/OFF switch operate correctly
• POWER indicator lights when POWER ON/OFF switch is ON
• DEPLOY and STOW switch operates correctly
• Check for unusual noise or erratic movement
• Vestibule area clear of loose objects and debris
• Non-slip surface clean, free of slippery or sticky substances
• Check decals for illegibility or looseness: replace if necessary
• Check wiring insulation for abrasion or cuts: replace if necessary
• Check connectors for looseness: secure as necessary
• Check all threaded fasteners for looseness: retighten as necessary
• Check self-aligning assembly: components clean, free of debris

Air Conditioning {24,000 Miles}

• Check refrigerant charge
• Visually inspect refrigerant hoses and tubing
• Visually inspect for refrigerant or oil leaks
• Check dry eyes in bottom receiver sight glass and/or liquid line sight glass for moisture
• Visually inspect clutch armature for wear
• Inspect compressor drive belt & check tension
• Check compressor oil level & color
• Visually inspect unit for loose, damaged, or broken parts
• Clean or replace return air filter
• Insect condenser & evap coils for cleanliness
• Lubricate evaporator fan shaft bearings
• Check evap/heater blower & condenser fan motor speed, voltage, & amps
• Inspect evap/heater blower & condenser fan motor brushes, commutator, bearings
GILLIG Preventive Maintenance List

Engine {30,000 Miles}

- Engine oil & filter
- Radiator Hoses & Clamps – Check
- Surge Tanks & Pressure Relief Caps – Check
- Change Secondary Fuel Filter
- Drain Fuel Filter Water Separator
- Crankcase Breather Tube – Check
- Cooling Fans - Check
- Change Coolant Filter
- Mounting Hardware – Check
- Air Intake Piping – Check
- After Treatment Exhaust Piping – Check
- Air Cleaner Restriction Indicator – Check
- Check Air Tanks & Reservoirs
- Charge Air Piping – Check
- Check Drive Belts & Tensioners

Exhaust {30,000 Miles}

- Check For Exhaust Restrictions & Leaks
- Check For Loose Exhaust Fasteners & Straps
- Inspect Exhaust Bellows & Alignment

Hydraulic System {30,000 Miles}

- Check hydraulic level
- Replace hydraulic fluid filter element

Drive Axle {30,000 Miles}

- Lubricate U-Joints And Slip Splines
- Replace Hydraulic Fluid Filter
- Check Differential Oil Level
- Inspect Differential Seals & Gaskets For Leaks

Steering Front Axle {30,000 Miles}

- Grease tie rod arm ends
- Grease kingpins
- Check Pitman Arm For Wear Or Damage
- Grease Drag Link & Steering Arm
- Lubricate Steering Column U-Joints & Shaft
- Check Tie Rod Ends For Wear & Loose Nuts
- Check Steering Arms For Wear Or Damage
- Check Drag Link Anti-tilt Bushing/Seal For Wear Or Damage
- Check Steering Gear Mounting Plate For Damage
- Lubricate Steering Intermediate Shaft
- Grease wheel bearings

**Brakes {30,000 Miles}**

- Inspect Brake Air Hoses For Leaks Or Damage
- Check Steering Gear Mounting Bolt Torque
- Check Brake Chambers For Air Leaks
- Lubricate Slack Adjusters
- Check Slack Adjuster Operation

**Rear Suspension {30,000 Miles}**

- Re-torque Suspension Fasteners
- Check Suspension Ride Height

**Front Suspension {30,000 Miles}**

- Re-torque Suspension Fasteners

**Air System {30,000 Miles}**

- Check Air Compressor Mounting Fasteners
- Check Air Tank Mounting Fasteners

**Electrical {30,000 Miles}**

- Check Entry Doors, Sensitive Edge and Interlock Systems
- Check Wheel Chair Ramp, External Flasher & Alarm
- Check Kneeling System
- Check Stop Request & PA System
- Check Dash Controls For Proper Operation
- Check Gauges
- Check For System Error Codes: Engine, Trans., ABS, Etc.
- Check Interior Lights
- Check Throttle & Brake Pedal For Dirt, Debris, Corrosion, & Function
- Check Power Cable Connections
- Check Engine Compartment Lights for Function & Lenses
- Test Linear Heat Detector Wires In Engine Compartment
- Check Emergency Exit Operation Of Doors
- Check and Lubricate Battery Tray Slides & Rollers

**Jump Start Connections {30,000 Miles}**

- Verify Boot is in Place
- Inspect jump start cable for routing, chafing, & loose or broken clamps
- Inspect jump start housing for damage and cracks
• Inspect jump start terminal ends for corrosion
• Clean terminal ends and apply anti-corrosion protectant

Batteries {30,000 Miles}
• Check cables, hold downs, and boots
• Check open circuit voltage with DMM & check system
• Clean batteries of dirt and acid
• Inspect for bulging case and damaged terminals

Starter {30,000 Miles}
• Inspect cables for damage or corrosion
• Inspect bolts, cable support clamps, and brushes
• Inspect solenoid cap for cracks/damage

Alternator {30,000 Miles}
• Inspect cables for damage and corrosion
• Inspect for oil leaks
• Inspect support brackets and torque bolts
• Check alternator for dirt build up and grime

Rear Main Fuse Panel {30,000 Miles}
• Inspect cables for damage or corrosion
• Check torque on all connections
• Fuses should not be removed unless blown or improperly seated

A/C Heater Unit {30,000 Miles}
• Inspect power and ground cables, and all electrical connections inside of return air
• Fuses should not be removed unless blown or improperly seated

Battery Equalizer {30,000 Miles}
• Inspect for dirt, damage or corrosion

Battery Disconnect Switch {30,000 Miles}
• Inspect for dirt, damage or corrosion

Front Main Fuse Box {30,000 Miles}
• Inspect cables for damage or corrosion

Rear Main I/O Panel {30,000 Miles}
• Inspect power and ground cables, fuses, and circuit breakers

Exit Door I/O Panel {30,000 Miles}
• Inspect circuit breakers

Front Console Panel \(30,000\) Miles

• Inspect power and ground cables, fuses, and circuit breakers

Body & Chassis \(30,000\) Miles

• Lubricate wiper arm pivot point posts
• Inspect body for fluid leaks
• Inspect underbody/engine for damage or corrosion
• Inspect stanchion supports and tees for loose or missing fasteners
• Check for loose or missing overhead grab strap fasteners
• Inspect overhead grab straps for rips, frays, and tears
• Inspect welds on frame, brackets, etc.

Doors \(30,000\) Miles

• Check door panel alignment
• Inspect door seals for leaks or damage
• Inspect door sensitive edge
• Test emergency door release mechanisms

Wheelchair Ramp \(30,000\) Miles

• Ramp control POWER and ON/OFF switch operate correctly
• POWER indicator lights when POWER ON/OFF switch is ON
• DEPLOY and STOW switch operates correctly
• Check for unusual noise or erratic movement
• Vestibule area clear of loose objects and debris
• Non-slip surface clean, free of slippery or sticky substances
• Check decals for illegibility or looseness: replace if necessary
• Check wiring insulation for abrasion or cuts: replace if necessary
• Check connectors for looseness: secure as necessary
• Check all threaded fasteners for looseness: retighten as necessary
• Check self-aligning assembly: components clean, free of debris

Air Conditioning \(30,000\) Miles

• Check refrigerant charge
• Visually inspect refrigerant hoses and tubing
• Visually inspect for refrigerant or oil leaks
• Check dry eyes in bottom receiver sight glass and/or liquid line sight glass for moisture
• Visually inspect clutch armature for wear
• Inspect compressor drive belt & check tension
• Check compressor oil level & color
• Visually inspect unit for loose, damaged, or broken parts
• Clean or replace return air filter
• Insect condenser & evap coils for cleanliness
GILLIG Preventive Maintenance List

Engine {36,000 Miles}

- Engine oil & filter
- Radiator Hoses & Clamps – Check
- Surge Tanks & Pressure Relief Caps – Check
- Change Secondary Fuel Filter
- Drain Fuel Filter Water Separator
- Crankcase Breather Tube–Check
- Cooling Fans - Check
- Change Coolant Filter
- Mounting Hardware – Check
- Air Intake Piping – Check
- After Treatment Exhaust Piping – Check
- Air Cleaner Restriction Indicator – Check
- Check Air Tanks & Reservoirs
- Charge Air Piping – Check
- Check Drive Belts & Tensioners

Exhaust {36,000 Miles}

- Check For Exhaust Restrictions & Leaks
- Check For Loose Exhaust Fasteners & Straps
- Inspect Exhaust Bellows & Alignment

Hydraulic System {36,000 Miles}

- Check hydraulic level
- Replace hydraulic fluid filter element
- Replace Hydraulic Fluid

Drive Axle {36,000 Miles}

- Lubricate U-Joints And Slip Splines
- Replace Hydraulic Fluid Filter
- Check Differential Oil Level
- Inspect Differential Seals & Gaskets For Leaks

Steering Front Axle {36,000 Miles}

- Grease tie rod arm ends
• Grease kingpins
• Check Pitman Arm For Wear Or Damage
• Grease Drag Link & Steering Arm
• Lubricate Steering Column U-Joints & Shaft
• Check Tie Rod Ends For Wear & Loose Nuts
• Check Steering Arms For Wear Or Damage
• Check Drag Link Anti-tilt Bushing/Seal For Wear Or Damage
• Check Steering Gear Mounting Plate For Damage
• Lubricate Steering Intermediate Shaft

Brakes {36,000 Miles}

• Inspect Brake Air Hoses For Leaks Or Damage
• Check Steering Gear Mounting Bolt Torque
• Check Brake Chambers For Air Leaks
• Lubricate Slack Adjusters
• Check Slack Adjuster Operation

Rear Suspension {36,000 Miles}

• Re-torque Suspension Fasteners
• Check Suspension Ride Height

Front Suspension {36,000 Miles}

• Re-torque Suspension Fasteners

Air System {36,000 Miles}

• Check Air Compressor Mounting Fasteners
• Check Air Tank Mounting Fasteners

Electrical {36,000 Miles}

• Check Entry Doors, Sensitive Edge and Interlock Systems
• Check Wheel Chair Ramp, External Flasher & Alarm
• Check Kneeling System
• Check Stop Request & PA System
• Check Dash Controls For Proper Operation
• Check Gauges
• Check For System Error Codes: Engine, Trans.,ABS,Etc
• Check Interior Lights
• Check Throttle & Brake Pedal For Dirt, Debris, Corrosion, & Function
• Check Power Cable Connections
• Check Engine Compartment Lights for Function & Lenses
• Test Linear Heat Detector Wires In Engine Compartment
• Check Emergency Exit Operation Of Doors
• Check and Lubricate Battery Tray Slides & Rollers
Jump Start Connections {36,000 Miles}

- Verify Boot is in Place
- Inspect jump start cable for routing, chafing, & loose or broken clamps
- Inspect jump start housing for damage and cracks
- Inspect jump start terminal ends for corrosion
- Clean terminal ends and apply anti-corrosion protectant

Batteries {36,000 Miles}

- Check cables, hold downs, and boots
- Check open circuit voltage with DMM & check system
- Clean batteries of dirt and acid
- Inspect for bulging case and damaged terminals

Starter {36,000 Miles}

- Inspect cables for damage or corrosion
- Inspect bolts, cable support clamps, and brushes
- Inspect solenoid cap for cracks/damage
- Check torque on cables and re-torque as necessary
- Check starter engagement protection circuit

Alternator {36,000 Miles}

- Inspect cables for damage and corrosion
- Inspect for oil leaks
- Inspect support brackets and torque bolts
- Check alternator for dirt build up and grime

Rear Main Fuse Panel {36,000 Miles}

- Inspect cables for damage or corrosion
- Check torque on all connections
- Fuses should not be removed unless blown or improperly seated

A/C Heater Unit {36,000 Miles}

- Inspect power and ground cables, and all electrical connections inside of return air
- Fuses should not be removed unless blown or improperly seated

Chassis and Engine Harness/Cables {36,000 Miles}

- Inspect for dirt buildup in chassis and clean
- Check clamps, chafing
- Inspect for heat damage around hot areas, such as the turbo, muffler, etc.
- Clean ground connections
- Check torque on cables and re-torque as necessary

Battery Equalizer {36,000 Miles}
• Inspect for dirt, damage or corrosion

Battery Disconnect Switch {36,000 Miles}
• Inspect for dirt, damage or corrosion
• Check micro switch for function
• Check battery switch for function and for continuity in open and close

Front Main Fuse Box {36,000 Miles}
• Inspect cables for damage or corrosion

Rear Main I/O Panel {36,000 Miles}
• Inspect power and ground cables, fuses, and circuit breakers
• Check torque on cables and re-torque as necessary

Front Main I/O Panel
• Inspect power and ground cables, fuses, and circuit breakers
• Check torque on cables and re-torque as necessary

Exit Door I/O Panel {36,000 Miles}
• Inspect circuit breakers

Front Console Panel {36,000 Miles}
• Inspect power and ground cables, fuses, and circuit breakers

Body & Chassis {36,000 Miles}
• Lubricate wiper arm pivot point posts
• Inspect body for fluid leaks
• Inspect underbody/engine for damage or corrosion
• Inspect stanchion supports and tees for loose or missing fasteners
• Check for loose or missing overhead grab strap fasteners
• Inspect overhead grab straps for rips, frays, and tears

Doors {36,000 Miles}
• Check door panel alignment
• Inspect door seals for leaks or damage
• Inspect door sensitive edge
• Test emergency door release mechanisms
• Check door motor and base plate fasteners

Wheelchair Ramp {36,000 Miles}
• Ramp control POWER and ON/OFF switch operate correctly
• POWER indicator lights when POWER ON/OFF switch is ON
• DEPLOY and STOW switch operates correctly
• Check for unusual noise or erratic movement
• Vestibule area clear of loose objects and debris
• Non-slip surface clean, free of slippery or sticky substances
• Check decals for illegibility or looseness: replace if necessary
• Check wiring insulation for abrasion or cuts: replace if necessary
• Check connectors for looseness: secure as necessary
• Check all threaded fasteners for looseness: retighten as necessary
• Check self-aligning assembly: components clean, free of debris

Air Conditioning {36,000 Miles}

• Check refrigerant charge
• Visually inspect refrigerant hoses and tubing
• Visually inspect for refrigerant or oil leaks
• Check dry eyes in bottom receiver sight glass and/or liquid line sight glass for moisture
• Visually inspect clutch armature for wear
• Inspect compressor drive belt & check tension
• Check compressor oil level & color
• Visually inspect unit for loose, damaged, or broken parts
• Clean or replace return air filter
• Insect condenser & evap coils for cleanliness
• Install service gauge and manifold set & check system pressures, temperatures, & suction line
• Check clutch air gap (X426, X430 only)
GILLIG Preventive Maintenance List

Engine {42,000 Miles}

- Engine oil & filter
- Radiator Hoses & Clamps – Check
- Surge Tanks & Pressure Relief Caps – Check
- Change Secondary Fuel Filter
- Drain Fuel Filter Water Separator
- Crankcase Breather Tube-Check
- Cooling Fans - Check
- Change Coolant Filter
- Mounting Hardware – Check
- Air Intake Piping – Check
- After Treatment Exhaust Piping – Check
- Air Cleaner Restriction Indicator – Check
- Check Air Tanks & Reservoirs
- Charge Air Piping – Check
- Check Drive Belts & Tensioners
- Replace crankcase breather element
- Inspect vibration damper
- Clean air compressor discharge lines

Exhaust {42,000 Miles}

- Check For Exhaust Restrictions & Leaks
- Check For Loose Exhaust Fasteners & Straps
- Inspect Exhaust Bellows & Alignment

Hydraulic System {42,000 Miles}

- Check hydraulic level
- Replace hydraulic fluid filter element
- Check hydraulic pump mounting bolts

Drive Axle {42,000 Miles}

- Lubricate U-Joints And Slip Splines
- Replace Hydraulic Fluid Filter
- Check Differential Oil Level
- Inspect Differential Seals & Gaskets For Leaks
- Check axle mounting fastener torque
- Check axle flange nut torque
- Clean differential breather
Steering Front Axle {42,000 Miles}

- Grease tie rod arm ends
- Grease kingpins
- Check Pitman Arm For Wear Or Damage
- Grease Drag Link & Steering Arm
- Lubricate Steering Column U-Joints & Shaft
- Check Tie Rod Ends For Wear & Loose Nuts
- Check Steering Arms For Wear Or Damage
- Check Drag Link Anti-tilt Bushing/Seal For Wear Or Damage
- Check Steering Gear Mounting Plate For Damage
- Lubricate Steering Intermediate Shaft
- Check for excessive hub end play
- Grease behind output shaft dirt-and-water seal
- Inspect steering shaft seal

Brakes {42,000 Miles}

- Inspect Brake Air Hoses For Leaks Or Damage
- Check Steering Gear Mounting Bolt Torque
- Check Brake Chambers For Air Leaks
- Lubricate Slack Adjusters
- Check Slack Adjuster Operation
- Perform brake valve preventive maintenance
- Clean, and inspect brake valve, treadle, plunger boot, and mounting plate
- Lubricate treadle roller, roller pin, and hinge pin
- Apply a thin layer of Barium grease between plunger and mounting plate, do not over oil

Rear Suspension {42,000 Miles}

- Re-torque Suspension Fasteners
- Check Suspension Ride Height
- Check air springs for wear and damage
- Check shocks and bushings for leaks or wear
- Check for loose or damaged mounting parts
- Check kneeling system operation

Front Suspension {42,000 Miles}

- Re-torque Suspension Fasteners
- Check air springs for wear and damage
- Check shocks and bushings for leaks and wear
- Check external bump stops for wear and damage
- Check for proper ride height
- Check for loose or damaged mounting parts
- Test height control valve operation
- Test kneeling system operation
Air System {42,000 Miles}

- Check Air Compressor Mounting Fasteners
- Check Air Tank Mounting Fasteners
- Perform brake valve preventive maintenance
- Inspect air compressor lines
- Check compressor discharge and inlet for carbon
- Check compressor operation
- Check all air lines and fittings for leaks

Air Dryer {42,000 Miles}

- Test air dryer operation and check for leaks
- Check air dryer mounting fasteners

Electrical {42,000 Miles}

- Check Entry Doors, Sensitive Edge and Interlock Systems
- Check Wheel Chair Ramp, External Flasher & Alarm
- Check Kneeling System
- Check Stop Request & PA System
- Check Dash Controls For Proper Operation
- Check Gauges
- Check For System Error Codes: Engine, Trans., ABS, Etc.
- Check Interior Lights
- Check Throttle & Brake Pedal For Dirt, Debris, Corrosion, & Function
- Check Power Cable Connections
- Check Engine Compartment Lights for Function & Lenses
- Test Linear Heat Detector Wires In Engine Compartment
- Check Emergency Exit Operation Of Doors
- Check and Lubricate Battery Tray Slides & Rollers

Jump Start Connections {42,000 Miles}

- Verify Boot is in Place
- Inspect jump start cable for routing, chafing, & loose or broken clamps
- Inspect jump start housing for damage and cracks
- Inspect jump start terminal ends for corrosion
- Clean terminal ends and apply anti-corrosion protectant

Batteries {42,000 Miles}

- Check cables, hold downs, and boots
- Check open circuit voltage with DMM & check system
- Clean batteries of dirt and acid
- Inspect for bulging case and damaged terminals
- Check battery electrolyte level and connection torque
- Test conductance with Midtronic tester per manufacturer’s procedures
- Check voltage regulator settings
Starter {42,000 Miles}
• Inspect cables for damage or corrosion
• Inspect bolts, cable support clamps, and brushes
• Inspect solenoid cap for cracks/damage

Alternator {42,000 Miles}
• Inspect cables for damage and corrosion
• Inspect for oil leaks
• Inspect support brackets and torque bolts
• Check alternator for dirt build up and grime

Rear Main Fuse Panel {42,000 Miles}
• Inspect cables for damage or corrosion
• Check torque on all connections
• Fuses should not be removed unless blown or improperly seated

A/C Heater Unit {42,000 Miles}
• Inspect power and ground cables, and all electrical connections inside of return air
• Fuses should not be removed unless blown or improperly seated

Chassis and Engine Harness/Cables {42,000 Miles}
• Inspect for dirt buildup in chassis and clean
• Check clamps, chafing
• Inspect for heat damage around hot areas, such as the turbo, muffler, etc.

Battery Equalizer {42,000 Miles}
• Inspect for dirt, damage or corrosion

Battery Disconnect Switch {42,000 Miles}
• Inspect for dirt, damage or corrosion

Front Main Fuse Box {42,000 Miles}
• Inspect cables for damage or corrosion

Rear Main I/O Panel {42,000 Miles}
• Inspect power and ground cables, fuses, and circuit breakers

Exit Door I/O Panel {42,000 Miles}
- Inspect circuit breakers

Front Console Panel {42,000 Miles}
- Inspect power and ground cables, fuses, and circuit breakers

Body & Chassis {42,000 Miles}
- Lubricate wiper arm pivot point posts
- Inspect body for fluid leaks
- Inspect underbody/engine for damage or corrosion
- Inspect stanchion supports and tees for loose or missing fasteners
- Check for loose or missing overhead grab strap fasteners
- Inspect overhead grab straps for rips, frays, and tears
- Inspect fenders and splash aprons
- Check wiper arm adjustment
- Check bumper mounting fastener torque

Doors {42,000 Miles}
- Check door panel alignment
- Inspect door seals for leaks or damage
- Inspect door sensitive edge
- Test emergency door release mechanisms

Wheelchair Ramp {42,000 Miles}
- Ramp control POWER and ON/OFF switch operate correctly
- POWER indicator lights when POWER ON/OFF switch is ON
- DEPLOY and STOW switch operates correctly
- Check for unusual noise or erratic movement
- Vestibule area clear of loose objects and debris
- Non-slip surface clean, free of slippery or sticky substances
- Check decals for illegibility or looseness: replace if necessary
- Check wiring insulation for abrasion or cuts: replace if necessary
- Check connectors for looseness: secure as necessary
- Check all threaded fasteners for looseness: retighten as necessary
- Check self-aligning assembly: components clean, free of debris

Air Conditioning {42,000 Miles}
- Check refrigerant charge
- Visually inspect refrigerant hoses and tubing
- Visually inspect for refrigerant or oil leaks
- Check dry eyes in bottom receiver sight glass and/or liquid line sight glass for moisture
- Visually inspect clutch armature for wear
- Inspect compressor drive belt & check tension
- Check compressor oil level & color
- Visually inspect unit for loose, damaged, or broken parts
- Clean or replace return air filter
- Insect condenser & evap coils for cleanliness
- Lubricate evaporator fan shaft bearings
- Check evap/heater blower & condenser fan motor speed, voltage, & amps
- Inspect evap/heater blower & condenser fan motor brushes, commutator, bearings
GILLIG Preventive Maintenance List

Engine {48,000 Miles}

- Engine oil & filter
- Radiator Hoses & Clamps – Check
- Surge Tanks & Pressure Relief Caps – Check
- Change Secondary Fuel Filter
- Drain Fuel Filter Water Separator
- Crankcase Breather Tube-Check
- Cooling Fans - Check
- Change Coolant Filter
- Mounting Hardware – Check
- Air Intake Piping – Check
- After Treatment Exhaust Piping – Check
- Air Cleaner Restriction Indicator – Check
- Check Air Tanks & Reservoirs
- Charge Air Piping – Check
- Check Drive Belts & Tensioners

Exhaust {48,000 Miles}

- Check For Exhaust Restrictions & Leaks
- Check For Loose Exhaust Fasteners & Straps
- Inspect Exhaust Bellows & Alignment

Hydraulic System {48,000 Miles}

- Check hydraulic level
- Replace hydraulic fluid filter element

Drive Axle {48,000 Miles}

- Lubricate U-Joints And Slip Splines
- Replace Hydraulic Fluid Filter
- Check Differential Oil Level
- Inspect Differential Seals & Gaskets For Leaks

Steering Front Axle {48,000 Miles}

- Grease tie rod arm ends
- Grease kingpins
- Check Pitman Arm For Wear Or Damage
- Grease Drag Link & Steering Arm
- Lubricate Steering Column U-Joints & Shaft
• Check Tie Rod Ends For Wear & Loose Nuts
• Check Steering Arms For Wear Or Damage
• Check Drag Link Anti-tilt Bushing/Seal For Wear Or Damage
• Check Steering Gear Mounting Plate For Damage
• Lubricate Steering Intermediate Shaft

Brakes {48,000 Miles}
• Inspect Brake Air Hoses For Leaks Or Damage
• Check Steering Gear Mounting Bolt Torque
• Check Brake Chambers For Air Leaks
• Lubricate Slack Adjusters
• Check Slack Adjuster Operation

Rear Suspension {48,000 Miles}
• Re-torque Suspension Fasteners
• Check Suspension Ride Height

Front Suspension {48,000 Miles}
• Re-torque Suspension Fasteners

Air System {48,000 Miles}
• Check Air Compressor Mounting Fasteners
• Check Air Tank Mounting Fasteners

Electrical {48,000 Miles}
• Check Entry Doors, Sensitive Edge and Interlock Systems
• Check Wheel Chair Ramp, External Flasher & Alarm
• Check Kneeling System
• Check Stop Request & PA System
• Check Dash Controls For Proper Operation
• Check Gauges
• Check For System Error Codes: Engine, Trans., ABS, Etc.
• Check Interior Lights
• Check Throttle & Brake Pedal For Dirt, Debris, Corrosion, & Function
• Check Power Cable Connections
• Check Engine Compartment Lights for Function & Lenses
• Test Linear Heat Detector Wires In Engine Compartment
• Check Emergency Exit Operation Of Doors
• Check and Lubricate Battery Tray Slides & Rollers

Jump Start Connections {48,000 Miles}
• Verify Boot is in Place
• Inspect jump start cable for routing, chafing, & loose or broken clamps
• Inspect jump start housing for damage and cracks
• Inspect jump start terminal ends for corrosion
• Clean terminal ends and apply anti-corrosion protectant

Batteries {48,000 Miles}
• Check cables, hold downs, and boots
• Check open circuit voltage with DMM & check system
• Clean batteries of dirt and acid
• Inspect for bulging case and damaged terminals

Starter {48,000 Miles}
• Inspect cables for damage or corrosion
• Inspect bolts, cable support clamps, and brushes
• Inspect solenoid cap for cracks/damage

Alternator {48,000 Miles}
• Inspect cables for damage and corrosion
• Inspect for oil leaks
• Inspect support brackets and torque bolts
• Check alternator for dirt build up and grime

Rear Main Fuse Panel {48,000 Miles}
• Inspect cables for damage or corrosion
• Check torque on all connections
• Fuses should not be removed unless blown or improperly seated

A/C Heater Unit {48,000 Miles}
• Inspect power and ground cables, and all electrical connections inside of return air
• Fuses should not be removed unless blown or improperly seated

Battery Equalizer {48,000 Miles}
• Inspect for dirt, damage or corrosion

Battery Disconnect Switch {48,000 Miles}
• Inspect for dirt, damage or corrosion

Front Main Fuse Box {48,000 Miles}
• Inspect cables for damage or corrosion

Rear Main I/O Panel {48,000 Miles}
• Inspect power and ground cables, fuses, and circuit breakers
Exit Door I/O Panel {48,000 Miles}
- Inspect circuit breakers

Front Console Panel {48,000 Miles}
- Inspect power and ground cables, fuses, and circuit breakers

Body & Chassis {48,000 Miles}
- Lubricate wiper arm pivot point posts
- Inspect body for fluid leaks
- Inspect underbody/engine for damage or corrosion
- Inspect stanchion supports and tees for loose or missing fasteners
- Check for loose or missing overhead grab strap fasteners
- Inspect overhead grab straps for rips, frays, and tears

Doors {48,000 Miles}
- Check door panel alignment
- Inspect door seals for leaks or damage
- Inspect door sensitive edge
- Test emergency door release mechanisms

Wheelchair Ramp {48,000 Miles}
- Ramp control POWER and ON/OFF switch operate correctly
- POWER indicator lights when POWER ON/OFF switch is ON
- DEPLOY and STOW switch operates correctly
- Check for unusual noise or erratic movement
- Vestibule area clear of loose objects and debris
- Non-slip surface clean, free of slippery or sticky substances
- Check decals for illegibility or looseness: replace if necessary
- Check wiring insulation for abrasion or cuts: replace if necessary
- Check connectors for looseness: secure as necessary
- Check all threaded fasteners for looseness: retighten as necessary
- Check self-aligning assembly: components clean, free of debris

Air Conditioning {48,000 Miles}
- Check refrigerant charge
- Visually inspect refrigerant hoses and tubing
- Visually inspect for refrigerant or oil leaks
- Check dry eyes in bottom receiver sight glass and/or liquid line sight glass for moisture
- Visually inspect clutch armature for wear
- Inspect compressor drive belt & check tension
- Check compressor oil level & color
- Visually inspect unit for loose, damaged, or broken parts
- Clean or replace return air filter
- Insect condenser & evap coils for cleanliness
GILLIG Preventive Maintenance List

Engine {54,000 Miles}

• Engine oil & filter
• Radiator Hoses & Clamps – Check
• Surge Tanks & Pressure Relief Caps – Check
• Change Secondary Fuel Filter
• Drain Fuel Filter Water Separator
• Crankcase Breather Tube-Check
• Cooling Fans - Check
• Change Coolant Filter
• Mounting Hardware – Check
• Air Intake Piping – Check
• After Treatment Exhaust Piping – Check
• Air Cleaner Restriction Indicator – Check
• Check Air Tanks & Reservoirs
• Charge Air Piping – Check
• Check Drive Belts & Tensioners

Exhaust {54,000 Miles}

• Check For Exhaust Restrictions & Leaks
• Check For Loose Exhaust Fasteners & Straps
• Inspect Exhaust Bellows & Alignment

Hydraulic System {54,000 Miles}

• Check hydraulic level
• Replace hydraulic fluid filter element

Drive Axle {54,000 Miles}

• Lubricate U-Joints And Slip Splines
• Replace Hydraulic Fluid Filter
• Check Differential Oil Level
• Inspect Differential Seals & Gaskets For Leaks

Steering Front Axle {54,000 Miles}
• Grease tie rod arm ends
• Grease kingpins
• Check Pitman Arm For Wear Or Damage
• Grease Drag Link & Steering Arm
• Lubricate Steering Column U-Joints & Shaft
• Check Tie Rod Ends For Wear & Loose Nuts
• Check Steering Arms For Wear Or Damage
• Check Drag Link Anti-tilt Bushing/Seal For Wear Or Damage
• Check Steering Gear Mounting Plate For Damage
• Lubricate Steering Intermediate Shaft
• Check for excessive hub end play

Brakes {54,000 Miles}
• Inspect Brake Air Hoses For Leaks Or Damage
• Check Steering Gear Mounting Bolt Torque
• Check Brake Chambers For Air Leaks
• Lubricate Slack Adjusters
• Check Slack Adjuster Operation

Rear Suspension {54,000 Miles}
• Re-torque Suspension Fasteners
• Check Suspension Ride Height

Front Suspension {54,000 Miles}
• Re-torque Suspension Fasteners

Air System {54,000 Miles}
• Check Air Compressor Mounting Fasteners
• Check Air Tank Mounting Fasteners

Electrical {54,000 Miles}
• Check Entry Doors, Sensitive Edge and Interlock Systems
• Check Wheel Chair Ramp, External Flasher & Alarm
• Check Kneeling System
• Check Stop Request & PA System
• Check Dash Controls For Proper Operation
• Check Gauges
• Check For System Error Codes: Engine, Trans., ABS, Etc.
• Check Interior Lights
• Check Throttle & Brake Pedal For Dirt, Debris, Corrosion, & Function
• Check Power Cable Connections
• Check Engine Compartment Lights for Function & Lenses
• Test Linear Heat Detector Wires In Engine Compartment
• Check Emergency Exit Operation Of Doors
• Check and Lubricate Battery Tray Slides & Rollers
Jump Start Connections {54,000 Miles}

- Verify Boot is in Place
- Inspect jump start cable for routing, chafing, & loose or broken clamps
- Inspect jump start housing for damage and cracks
- Inspect jump start terminal ends for corrosion
- Clean terminal ends and apply anti-corrosion protectant

Batteries {54,000 Miles}

- Check cables, hold downs, and boots
- Check open circuit voltage with DMM & check system
- Clean batteries of dirt and acid
- Inspect for bulging case and damaged terminals
- Check battery electrolyte level and connection torque
- Test conductance with Midtronic tester per manufacturer’s procedures

Starter {54,000 Miles}

- Inspect cables for damage or corrosion
- Inspect bolts, cable support clamps, and brushes
- Inspect solenoid cap for cracks/damage

Alternator {54,000 Miles}

- Inspect cables for damage and corrosion
- Inspect for oil leaks
- Inspect support brackets and torque bolts
- Check alternator for dirt build up and grime

Rear Main Fuse Panel {54,000 Miles}

- Inspect cables for damage or corrosion
- Check torque on all connections
- Fuses should not be removed unless blown or improperly seated

A/C Heater Unit {54,000 Miles}

- Inspect power and ground cables, and all electrical connections inside of return air
- Fuses should not be removed unless blown or improperly seated

Chassis and Engine Harness/Cables {54,000 Miles}

- Inspect for dirt buildup in chassis and clean
- Check clamps, chafing
- Inspect for heat damage around hot areas, such as the turbo, muffler, etc.

Battery Equalizer {54,000 Miles}

- Inspect for dirt, damage or corrosion
Battery Disconnect Switch {54,000 Miles}

- Inspect for dirt, damage or corrosion

Front Main Fuse Box {54,000 Miles}

- Inspect cables for damage or corrosion

Rear Main I/O Panel {54,000 Miles}

- Inspect power and ground cables, fuses, and circuit breakers

Exit Door I/O Panel {54,000 Miles}

- Inspect circuit breakers

Front Console Panel {54,000 Miles}

- Inspect power and ground cables, fuses, and circuit breakers

Body & Chassis {54,000 Miles}

- Lubricate wiper arm pivot point posts
- Inspect body for fluid leaks
- Inspect underbody/engine for damage or corrosion
- Inspect stanchion supports and tees for loose or missing fasteners
- Check for loose or missing overhead grab strap fasteners
- Inspect overhead grab straps for rips, frays, and tears

Doors {54,000 Miles}

- Check door panel alignment
- Inspect door seals for leaks or damage
- Inspect door sensitive edge
- Test emergency door release mechanisms

Wheelchair Ramp {54,000 Miles}

- Ramp control POWER and ON/OFF switch operate correctly
- POWER indicator lights when POWER ON/OFF switch is ON
- DEPLOY and STOW switch operates correctly
- Check for unusual noise or erratic movement
- Vestibule area clear of loose objects and debris
- Non-slip surface clean, free of slippery or sticky substances
- Check decals for illegibility or looseness: replace if necessary
- Check wiring insulation for abrasion or cuts: replace if necessary
- Check connectors for looseness: secure as necessary
- Check all threaded fasteners for looseness: retighten as necessary
- Check self-aligning assembly: components clean, free of debris
Air Conditioning {54,000 Miles}

- Check refrigerant charge
- Visually inspect refrigerant hoses and tubing
- Visually inspect for refrigerant or oil leaks
- Check dry eyes in bottom receiver sight glass and/or liquid line sight glass for moisture
- Visually inspect clutch armature for wear
- Inspect compressor drive belt & check tension
- Check compressor oil level & color
- Visually inspect unit for loose, damaged, or broken parts
- Clean or replace return air filter
- Inspect condenser & evap coils for cleanliness
GILLIG Preventive Maintenance List

Engine {60,000 Miles}

• Engine oil & filter
• Radiator Hoses & Clamps – Check
• Surge Tanks & Pressure Relief Caps – Check
• Change Secondary Fuel Filter
• Drain Fuel Filter Water Separator
• Crankcase Breather Tube-Check
• Cooing Fans - Check
• Change Coolant Filter
• Mounting Hardware – Check
• Air Intake Piping – Check
• After Treatment Exhaust Piping – Check
• Air Cleaner Restriction Indicator – Check
• Check Air Tanks & Reservoirs
• Charge Air Piping – Check
• Check Drive Belts & Tensioners

Transmission {60,000 Miles}

• Check transmission mounts

Exhaust {60,000 Miles}

• Check For Exhaust Restrictions & Leaks
• Check For Loose Exhaust Fasteners & Straps
• Inspect Exhaust Bellows & Alignment

Hydraulic System {60,000 Miles}

• Check hydraulic level
• Replace hydraulic fluid filter element
• Replace Hydraulic Fluid

Drive Axle {60,000 Miles}

• Lubricate U-Joints And Slip Splines
• Replace Hydraulic Fluid Filter
• Check Differential Oil Level
• Inspect Differential Seals & Gaskets For Leaks
Steering Front Axle {60,000 Miles}

- Grease tie rod arm ends
- Grease kingpins
- Check Pitman Arm For Wear Or Damage
- Grease Drag Link & Steering Arm
- Lubricate Steering Column U-Joints & Shaft
- Check Tie Rod Ends For Wear & Loose Nuts
- Check Steering Arms For Wear Or Damage
- Check Drag Link Anti-tilt Bushing/Seal For Wear Or Damage
- Check Steering Gear Mounting Plate For Damage
- Lubricate Steering Intermediate Shaft

Brakes {60,000 Miles}

- Inspect Brake Air Hoses For Leaks Or Damage
- Check Steering Gear Mounting Bolt Torque
- Check Brake Chambers For Air Leaks
- Lubricate Slack Adjusters
- Check Slack Adjuster Operation

Rear Suspension {60,000 Miles}

- Re-torque Suspension Fasteners
- Check Suspension Ride Height

Front Suspension {60,000 Miles}

- Re-torque Suspension Fasteners

Air System {60,000 Miles}

- Check Air Compressor Mounting Fasteners
- Check Air Tank Mounting Fasteners

Electrical {60,000 Miles}

- Check Entry Doors, Sensitive Edge and Interlock Systems
- Check Wheel Chair Ramp, External Flasher & Alarm
- Check Kneeling System
- Check Stop Request & PA System
- Check Dash Controls For Proper Operation
- Check Gauges
- Check For System Error Codes: Engine, Trans.,ABS,Etc
- Check Interior Lights
- Check Throttle & Brake Pedal For Dirt, Debris, Corrosion, & Function
- Check Power Cable Connections
- Check Engine Compartment Lights for Function & Lenses
- Test Linear Heat Detector Wires In Engine Compartment
- Check Emergency Exit Operation Of Doors
- Check and Lubricate Battery Tray Slides & Rollers
Jump Start Connections {60,000 Miles}

- Verify Boot is in Place
- Inspect jump start cable for routing, chafing, & loose or broken clamps
- Inspect jump start housing for damage and cracks
- Inspect jump start terminal ends for corrosion
- Clean terminal ends and apply anti-corrosion protectant

Batteries {60,000 Miles}

- Check cables, hold downs, and boots
- Check open circuit voltage with DMM & check system
- Clean batteries of dirt and acid
- Inspect for bulging case and damaged terminals

Starter {60,000 Miles}

- Inspect cables for damage or corrosion
- Inspect bolts, cable support clamps, and brushes
- Inspect solenoid cap for cracks/damage

Alternator {60,000 Miles}

- Inspect cables for damage and corrosion
- Inspect for oil leaks
- Inspect support brackets and torque bolts
- Check alternator for dirt build up and grime

Rear Main Fuse Panel {60,000 Miles}

- Inspect cables for damage or corrosion
- Check torque on all connections
- Fuses should not be removed unless blown or improperly seated

A/C Heater Unit {60,000 Miles}

- Inspect power and ground cables, and all electrical connections inside of return air
- Fuses should not be removed unless blown or improperly seated

Battery Equalizer {60,000 Miles}

- Inspect for dirt, damage or corrosion

Battery Disconnect Switch {60,000 Miles}

- Inspect for dirt, damage or corrosion

Front Main Fuse Box {60,000 Miles}

- Inspect cables for damage or corrosion
Rear Main I/O Panel {60,000 Miles}

- Inspect power and ground cables, fuses, and circuit breakers

Exit Door I/O Panel {60,000 Miles}

- Inspect circuit breakers

Front Console Panel {60,000 Miles}

- Inspect power and ground cables, fuses, and circuit breakers

Body & Chassis {60,000 Miles}

- Lubricate wiper arm pivot point posts
- Inspect body for fluid leaks
- Inspect underbody/engine for damage or corrosion
- Inspect stanchion supports and tees for loose or missing fasteners
- Check for loose or missing overhead grab strap fasteners
- Inspect overhead grab straps for rips, frays, and tears

Doors {60,000 Miles}

- Check door panel alignment
- Inspect door seals for leaks or damage
- Inspect door sensitive edge
- Test emergency door release mechanisms
- Check door motor and base plate fasteners

Wheelchair Ramp {60,000 Miles}

- Ramp control POWER and ON/OFF switch operate correctly
- POWER indicator lights when POWER ON/OFF switch is ON
- DEPLOY and STOW switch operates correctly
- Check for unusual noise or erratic movement
- Vestibule area clear of loose objects and debris
- Non-slip surface clean, free of slippery or sticky substances
- Check decals for illegibility or looseness: replace if necessary
- Check wiring insulation for abrasion or cuts: replace if necessary
- Check connectors for looseness: secure as necessary
- Check self-aligning assembly: components clean, free of debris

Air Conditioning {60,000 Miles}

- Check refrigerant charge
- Visually inspect refrigerant hoses and tubing
- Visually inspect for refrigerant or oil leaks
- Check dry eyes in bottom receiver sight glass and/or liquid line sight glass for moisture
- Visually inspect clutch armature for wear
- Inspect compressor drive belt & check tension
• Check compressor oil level & color
• Visually inspect unit for loose, damaged, or broken parts
• Clean or replace return air filter
• Insect condenser & evap coils for cleanliness
• Install service gauge and manifold set & check system pressures, temperatures, & suction line
• Check clutch air gap (X426, X430 only)

GILLIG Preventive Maintenance List

Engine {66,000 Miles}

• Engine oil & filter
• Radiator Hoses & Clamps – Check
• Surge Tanks & Pressure Relief Caps – Check
• Change Secondary Fuel Filter
• Drain Fuel Filter Water Separator
• Crankcase Breather Tube-Check
• Cooing Fans - Check
• Change Coolant Filter
• Mounting Hardware – Check
• Air Intake Piping – Check
• After Treatment Exhaust Piping – Check
• Air Cleaner Restriction Indicator – Check
• Check Air Tanks & Reservoirs
• Charge Air Piping – Check
• Check Drive Belts & Tensioners
• Replace crankcase breather element
• Inspect vibration damper
• Clean air compressor discharge lines

Exhaust {66,000 Miles}

• Check For Exhaust Restrictions & Leaks
• Check For Loose Exhaust Fasteners & Straps
• Inspect Exhaust Bellows & Alignment

Hydraulic System {66,000 Miles}

• Check hydraulic level
• Replace hydraulic fluid filter element
• Check hydraulic pump mounting bolts

Drive Axle {66,000 Miles}

• Lubricate U-Joints And Slip Splines
• Replace Hydraulic Fluid Filter
- Check Differential Oil Level
- Inspect Differential Seals & Gaskets For Leaks
- Check axle mounting fastener torque
- Check axle flange nut torque

Steering Front Axle {66,000 Miles}
- Grease tie rod arm ends
- Grease kingpins
- Check Pitman Arm For Wear Or Damage
- Grease Drag Link & Steering Arm
- Lubricate Steering Column U-Joints & Shaft
- Check Tie Rod Ends For Wear & Loose Nuts
- Check Steering Arms For Wear Or Damage
- Check Drag Link Anti-tilt Bushing/Seal For Wear Or Damage
- Check Steering Gear Mounting Plate For Damage
- Lubricate Steering Intermediate Shaft
- Check for excessive hub end play
- Grease behind output shaft dirt-and-water seal
- Inspect steering shaft seal

Brakes {66,000 Miles}
- Inspect Brake Air Hoses For Leaks Or Damage
- Check Steering Gear Mounting Bolt Torque
- Check Brake Chambers For Air Leaks
- Lubricate Slack Adjusters
- Check Slack Adjuster Operation
- Perform brake valve preventive maintenance
- Clean, and inspect brake valve, treadle, plunger boot, and mounting plate
- Lubricate treadle roller, roller pin, and hinge pin
- Apply a thin layer of Barium grease between plunger and mounting plate, do not over oil

Rear Suspension {66,000 Miles}
- Re-torque Suspension Fasteners
- Check Suspension Ride Height
- Check air springs for wear and damage
- Check shocks and bushings for leaks or wear
- Check for loose or damaged mounting parts
- Check kneeling system operation

Front Suspension {24,000 Miles}
- Re-torque Suspension Fasteners
- Check air springs for wear and damage
- Check shocks and bushings for leaks and wear
- Check external bump stops for wear and damage
- Check for proper ride height
- Check for loose or damaged mounting parts
- Test height control valve operation
• Test kneeling system operation

Air System {66,000 Miles}
• Check Air Compressor Mounting Fasteners
• Check Air Tank Mounting Fasteners
• Perform brake valve preventive maintenance

Air Dryer {66,000 Miles}
• Test air dryer operation and check for leaks
• Check air dryer mounting fasteners

Electrical {66,000 Miles}
• Check Entry Doors, Sensitive Edge and Interlock Systems
• Check Wheel Chair Ramp, External Flasher & Alarm
• Check Kneeling System
• Check Stop Request & PA System
• Check Dash Controls For Proper Operation
• Check Gauges
• Check For System Error Codes: Engine, Trans., ABS, Etc.
• Check Interior Lights
• Check Throttle & Brake Pedal For Dirt, Debris, Corrosion, & Function
• Check Power Cable Connections
• Check Engine Compartment Lights for Function & Lenses
• Test Linear Heat Detector Wires In Engine Compartment
• Check Emergency Exit Operation Of Doors
• Check and Lubricate Battery Tray Slides & Rollers

Jump Start Connections {66,000 Miles}
• Verify Boot is in Place
• Inspect jump start cable for routing, chafing, & loose or broken clamps
• Inspect jump start housing for damage and cracks
• Inspect jump start terminal ends for corrosion
• Clean terminal ends and apply anti-corrosion protectant

Batteries {66,000 Miles}
• Check cables, hold downs, and boots
• Check open circuit voltage with DMM & check system
• Clean batteries of dirt and acid
• Inspect for bulging case and damaged terminals
• Check battery electrolyte level and connection torque
• Test conductance with Midtronic tester per manufacturer’s procedures
• Check voltage regulator settings

Starter {66,000 Miles}
• Inspect cables for damage or corrosion
• Inspect bolts, cable support clamps, and brushes
• Inspect solenoid cap for cracks/damage

Alternator {66,000 Miles}
• Inspect cables for damage and corrosion
• Inspect for oil leaks
• Inspect support brackets and torque bolts
• Check alternator for dirt build up and grime

Rear Main Fuse Panel {66,000 Miles}
• Inspect cables for damage or corrosion
• Check torque on all connections
• Fuses should not be removed unless blown or improperly seated

A/C Heater Unit {66,000 Miles}
• Inspect power and ground cables, and all electrical connections inside of return air
• Fuses should not be removed unless blown or improperly seated

Chassis and Engine Harness/Cables {66,000 Miles}
• Inspect for dirt buildup in chassis and clean
• Check clamps, chafing
• Inspect for heat damage around hot areas, such as the turbo, muffler, etc.

Battery Equalizer {66,000 Miles}
• Inspect for dirt, damage or corrosion

Battery Disconnect Switch {66,000 Miles}
• Inspect for dirt, damage or corrosion

Front Main Fuse Box {66,000 Miles}
• Inspect cables for damage or corrosion

Rear Main I/O Panel {66,000 Miles}
• Inspect power and ground cables, fuses, and circuit breakers

Exit Door I/O Panel {66,000 Miles}
• Inspect circuit breakers

Front Console Panel {66,000 Miles}
• Inspect power and ground cables, fuses, and circuit breakers
Body & Chassis {66,000 Miles}

- Lubricate wiper arm pivot point posts
- Inspect body for fluid leaks
- Inspect underbody/engine for damage or corrosion
- Inspect stanchion supports and tees for loose or missing fasteners
- Check for loose or missing overhead grab strap fasteners
- Inspect overhead grab straps for rips, frays, and tears
- Inspect fenders and splash aprons
- Check wiper arm adjustment

Doors {66,000 Miles}

- Check door panel alignment
- Inspect door seals for leaks or damage
- Inspect door sensitive edge
- Test emergency door release mechanisms

Wheelchair Ramp {66,000 Miles}

- Ramp control POWER and ON/OFF switch operate correctly
- POWER indicator lights when POWER ON/OFF switch is ON
- DEPLOY and STOW switch operates correctly
- Check for unusual noise or erratic movement
- Vestibule area clear of loose objects and debris
- Non-slip surface clean, free of slippery or sticky substances
- Check decals for illegibility or looseness: replace if necessary
- Check wiring insulation for abrasion or cuts: replace if necessary
- Check connectors for looseness: secure as necessary
- Check all threaded fasteners for looseness: retighten as necessary
- Check self-aligning assembly: components clean, free of debris

Air Conditioning {66,000 Miles}

- Check refrigerant charge
- Visually inspect refrigerant hoses and tubing
- Visually inspect for refrigerant or oil leaks
- Check dry eyes in bottom receiver sight glass and/or liquid line sight glass for moisture
- Visually inspect clutch armature for wear
- Inspect compressor drive belt & check tension
- Check compressor oil level & color
- Visually inspect unit for loose, damaged, or broken parts
- Clean or replace return air filter
- Insect condenser & evap coils for cleanliness
- Lubricate evaporator fan shaft bearings
- Check evap/heater blower & condenser fan motor speed, voltage, & amps
- Inspect evap/heater blower & condenser fan motor brushes, commutator, bearings
GILLIG Preventive Maintenance List

Engine {72,000 Miles}

- Engine oil & filter
- Radiator Hoses & Clamps – Check
- Surge Tanks & Pressure Relief Caps – Check
- Change Secondary Fuel Filter
- Drain Fuel Filter Water Separator
- Crankcase Breather Tube-Check
- Cooling Fans - Check
- Change Coolant Filter
- Mounting Hardware – Check
- Air Intake Piping – Check
- After Treatment Exhaust Piping – Check
- Air Cleaner Restriction Indicator – Check
- Check Air Tanks & Reservoirs
- Charge Air Piping – Check
- Check Drive Belts & Tensioners

Transmission {72,000 Miles}

- Change transmission filters & transmission oil

Exhaust {72,000 Miles}

- Check For Exhaust Restrictions & Leaks
- Check For Loose Exhaust Fasteners & Straps
- Inspect Exhaust Bellows & Alignment

Hydraulic System {72,000 Miles}

- Check hydraulic level
- Replace hydraulic fluid filter element

Drive Axle {72,000 Miles}

- Lubricate U-Joints And Slip Splines
- Replace Hydraulic Fluid Filter
- Check Differential Oil Level
- Inspect Differential Seals & Gaskets For Leaks
Steering Front Axle {72,000 Miles}

- Grease tie rod arm ends
- Grease kingpins
- Check Pitman Arm For Wear Or Damage
- Grease Drag Link & Steering Arm
- Lubricate Steering Column U-Joints & Shaft
- Check Tie Rod Ends For Wear & Loose Nuts
- Check Steering Arms For Wear Or Damage
- Check Drag Link Anti-tilt Bushing/Seal For Wear Or Damage
- Check Steering Gear Mounting Plate For Damage
- Lubricate Steering Intermediate Shaft
- Grease wheel bearings

Brakes {72,000 Miles}

- Inspect Brake Air Hoses For Leaks Or Damage
- Check Steering Gear Mounting Bolt Torque
- Check Brake Chambers For Air Leaks
- Lubricate Slack Adjusters
- Check Slack Adjuster Operation

Rear Suspension {72,000 Miles}

- Re-torque Suspension Fasteners
- Check Suspension Ride Height

Front Suspension {72,000 Miles}

- Re-torque Suspension Fasteners

Air System {72,000 Miles}

- Check Air Compressor Mounting Fasteners
- Check Air Tank Mounting Fasteners

Electrical {72,000 Miles}

- Check Entry Doors, Sensitive Edge and Interlock Systems
- Check Wheel Chair Ramp, External Flasher & Alarm
- Check Kneeling System
- Check Stop Request & PA System
- Check Dash Controls For Proper Operation
- Check Gauges
- Check For System Error Codes: Engine, Trans., ABS, Etc.
- Check Interior Lights
- Check Throttle & Brake Pedal For Dirt, Debris, Corrosion, & Function
- Check Power Cable Connections
- Check Engine Compartment Lights for Function & Lenses
- Test Linear Heat Detector Wires In Engine Compartment
- Check Emergency Exit Operation Of Doors
- Check and Lubricate Battery Tray Slides & Rollers

**Jump Start Connections {72,000 Miles}**
- Verify Boot is in Place
- Inspect jump start cable for routing, chafing, & loose or broken clamps
- Inspect jump start housing for damage and cracks
- Inspect jump start terminal ends for corrosion
- Clean terminal ends and apply anti-corrosion protectant

**Batteries {72,000 Miles}**
- Check cables, hold downs, and boots
- Check open circuit voltage with DMM & check system
- Clean batteries of dirt and acid
- Inspect for bulging case and damaged terminals

**Starter {72,000 Miles}**
- Inspect cables for damage or corrosion
- Inspect bolts, cable support clamps, and brushes
- Inspect solenoid cap for cracks/damage

**Alternator {72,000 Miles}**
- Inspect cables for damage and corrosion
- Inspect for oil leaks
- Inspect support brackets and torque bolts
- Check alternator for dirt build up and grime

**Rear Main Fuse Panel {72,000 Miles}**
- Inspect cables for damage or corrosion
- Check torque on all connections
- Fuses should not be removed unless blown or improperly seated

**A/C Heater Unit {72,000 Miles}**
- Inspect power and ground cables, and all electrical connections inside of return air
- Fuses should not be removed unless blown or improperly seated

**Battery Equalizer {72,000 Miles}**
- Inspect for dirt, damage or corrosion

**Battery Disconnect Switch {72,000 Miles}**
- Inspect for dirt, damage or corrosion

**Front Main Fuse Box {72,000 Miles}**
• Inspect cables for damage or corrosion

Rear Main I/O Panel {72,000 Miles}
• Inspect power and ground cables, fuses, and circuit breakers

Exit Door I/O Panel {72,000 Miles}
• Inspect circuit breakers

Front Console Panel {72,000 Miles}
• Inspect power and ground cables, fuses, and circuit breakers

Body & Chassis {72,000 Miles}
• Lubricate wiper arm pivot point posts
• Inspect body for fluid leaks
• Inspect underbody/engine for damage or corrosion
• Inspect stanchion supports and tees for loose or missing fasteners
• Check for loose or missing overhead grab strap fasteners
• Inspect overhead grab straps for rips, frays, and tears
• Inspect welds on frame, brackets, etc.

Doors {72,000 Miles}
• Check door panel alignment
• Inspect door seals for leaks or damage
• Inspect door sensitive edge
• Test emergency door release mechanisms

Wheelchair Ramp {72,000 Miles}
• Ramp control POWER and ON/OFF switch operate correctly
• POWER indicator lights when POWER ON/OFF switch is ON
• DEPLOY and STOW switch operates correctly
• Check for unusual noise or erratic movement
• Vestibule area clear of loose objects and debris
• Non-slip surface clean, free of slippery or sticky substances
• Check decals for illegibility or looseness: replace if necessary
• Check wiring insulation for abrasion or cuts: replace if necessary
• Check connectors for looseness: secure as necessary
• Check all threaded fasteners for looseness: retighten as necessary
• Check self-aligning assembly: components clean, free of debris

Air Conditioning {72,000 Miles}
• Check refrigerant charge
• Visually inspect refrigerant hoses and tubing
• Visually inspect for refrigerant or oil leaks
• Check dry eyes in bottom receiver sight glass and/or liquid line sight glass for moisture
• Visually inspect clutch armature for wear
• Inspect compressor drive belt & check tension
• Check compressor oil level & color
• Visually inspect unit for loose, damaged, or broken parts
• Clean or replace return air filter
• Insect condenser & evap coils for cleanliness
GILLIG Preventive Maintenance List

Engine {78,000 Miles}

- Engine oil & filter
- Radiator Hoses & Clamps – Check
- Surge Tanks & Pressure Relief Caps – Check
- Change Secondary Fuel Filter
- Drain Fuel Filter Water Separator
- Crankcase Breather Tube-Check
- Cooling Fans - Check
- Change Coolant Filter
- Mounting Hardware – Check
- Air Intake Piping – Check
- After Treatment Exhaust Piping – Check
- Air Cleaner Restriction Indicator – Check
- Check Air Tanks & Reservoirs
- Charge Air Piping – Check
- Check Drive Belts & Tensioners

Exhaust {78,000 Miles}

- Check For Exhaust Restrictions & Leaks
- Check For Loose Exhaust Fasteners & Straps
- Inspect Exhaust Bellows & Alignment

Hydraulic System {78,000 Miles}

- Check hydraulic level
- Replace hydraulic fluid filter element
- Replace Hydraulic Fluid

Drive Axle {78,000 Miles}

- Lubricate U-Joints And Slip Splines
- Replace Hydraulic Fluid Filter
- Check Differential Oil Level
- Inspect Differential Seals & Gaskets For Leaks

Steering Front Axle {78,000 Miles}

- Grease tie rod arm ends
- Grease kingpins
- Check Pitman Arm For Wear Or Damage
- Grease Drag Link & Steering Arm
- Lubricate Steering Column U-Joints & Shaft
• Check Tie Rod Ends For Wear & Loose Nuts
• Check Steering Arms For Wear Or Damage
• Check Drag Link Anti-tilt Bushing/Seal For Wear Or Damage
• Check Steering Gear Mounting Plate For Damage
• Lubricate Steering Intermediate Shaft

Brakes {78,000 Miles}

• Inspect Brake Air Hoses For Leaks Or Damage
• Check Steering Gear Mounting Bolt Torque
• Check Brake Chambers For Air Leaks
• Lubricate Slack Adjusters
• Check Slack Adjuster Operation

Rear Suspension {78,000 Miles}

• Re-torque Suspension Fasteners
• Check Suspension Ride Height

Front Suspension {78,000 Miles}

• Re-torque Suspension Fasteners

Air System {78,000 Miles}

• Check Air Compressor Mounting Fasteners
• Check Air Tank Mounting Fasteners

Electrical {78,000 Miles}

• Check Entry Doors, Sensitive Edge and Interlock Systems
• Check Wheel Chair Ramp, External Flasher & Alarm
• Check Kneeling System
• Check Stop Request & PA System
• Check Dash Controls For Proper Operation
• Check Gauges
• Check For System Error Codes: Engine, Trans.,ABS,Etc
• Check Interior Lights
• Check Throttle & Brake Pedal For Dirt, Debris, Corrosion, & Function
• Check Power Cable Connections
• Check Engine Compartment Lights for Function & Lenses
• Test Linear Heat Detector Wires In Engine Compartment
• Check Emergency Exit Operation Of Doors
• Check and Lubricate Battery Tray Slides & Rollers

Jump Start Connections {78,000 Miles}

• Verify Boot is in Place
• Inspect jump start cable for routing, chafing, & loose or broken clamps
• Inspect jump start housing for damage and cracks
• Inspect jump start terminal ends for corrosion
• Clean terminal ends and apply anti-corrosion protectant

**Batteries {78,000 Miles]**

• Check cables, hold downs, and boots
• Check open circuit voltage with DMM & check system
• Clean batteries of dirt and acid
• Inspect for bulging case and damaged terminals

**Starter {78,000 Miles]**

• Inspect cables for damage or corrosion
• Inspect bolts, cable support clamps, and brushes
• Inspect solenoid cap for cracks/damage
• Check torque on cables and re-torque as necessary
• Check starter engagement protection circuit

**Alternator {78,000 Miles}**

• Inspect cables for damage and corrosion
• Inspect for oil leaks
• Inspect support brackets and torque bolts
• Check alternator for dirt build up and grime

**Rear Main Fuse Panel {78,000 Miles}**

• Inspect cables for damage or corrosion
• Check torque on all connections
• Fuses should not be removed unless blown or improperly seated

**A/C Heater Unit {78,000 Miles}**

• Inspect power and ground cables, and all electrical connections inside of return air
• Fuses should not be removed unless blown or improperly seated

**Chassis and Engine Harness/Cables {78,000 Miles}**

• Inspect for dirt buildup in chassis and clean
• Check clamps, chafing
• Inspect for heat damage around hot areas, such as the turbo, muffler, etc.
• Clean ground connections
• Check torque on cables and re-torque as necessary

**Battery Equalizer {78,000 Miles}**

• Inspect for dirt, damage or corrosion

**Battery Disconnect Switch {78,000 Miles}**

• Inspect for dirt, damage or corrosion
• Check micro switch for function
• Check battery switch for function and for continuity in open and close

Front Main Fuse Box {78,000 Miles}
• Inspect cables for damage or corrosion

Rear Main I/O Panel {78,000 Miles}
• Inspect power and ground cables, fuses, and circuit breakers
• Check torque on cables and re-torque as necessary

Front Main I/O Panel {78,000 Miles}
• Inspect power and ground cables, fuses, and circuit breakers
• Check torque on cables and re-torque as necessary

Exit Door I/O Panel {78,000 Miles}
• Inspect circuit breakers

Front Console Panel {78,000 Miles}
• Inspect power and ground cables, fuses, and circuit breakers

Body & Chassis {78,000 Miles}
• Lubricate wiper arm pivot point posts
• Inspect body for fluid leaks
• Inspect underbody/engine for damage or corrosion
• Inspect stanchion supports and tees for loose or missing fasteners
• Check for loose or missing overhead grab strap fasteners
• Inspect overhead grab straps for rips, frays, and tears

Doors {78,000 Miles}
• Check door panel alignment
• Inspect door seals for leaks or damage
• Inspect door sensitive edge
• Test emergency door release mechanisms
• Check door motor and base plate fasteners

Wheelchair Ramp {78,000 Miles}
• Ramp control POWER and ON/OFF switch operate correctly
• POWER indicator lights when POWER ON/OFF switch is ON
• DEPLOY and STOW switch operates correctly
• Check for unusual noise or erratic movement
• Vestibule area clear of loose objects and debris
• Non-slip surface clean, free of slippery or sticky substances
• Check decals for illegibility or looseness: replace if necessary
• Check wiring insulation for abrasion or cuts: replace if necessary
• Check connectors for looseness: secure as necessary
• Check all threaded fasteners for looseness: retighten as necessary
• Check self-aligning assembly: components clean, free of debris

Air Conditioning {78,000 Miles}

• Check refrigerant charge
• Visually inspect refrigerant hoses and tubing
• Visually inspect for refrigerant or oil leaks
• Check dry eyes in bottom receiver sight glass and/or liquid line sight glass for moisture
• Visually inspect clutch armature for wear
• Inspect compressor drive belt & check tension
• Check compressor oil level & color
• Visually inspect unit for loose, damaged, or broken parts
• Clean or replace return air filter
• Insect condenser & evap coils for cleanliness
• Install service gauge and manifold set & check system pressures, temperatures, & suction line
• Check clutch air gap (X426, X430 only)
GILLIG Preventive Maintenance List

Engine {84,000 Miles}

- Engine oil & filter
- Radiator Hoses & Clamps – Check
- Surge Tanks & Pressure Relief Caps – Check
- Change Secondary Fuel Filter
- Drain Fuel Filter Water Separator
- Crankcase Breather Tube-Check
- Cooling Fans - Check
- Change Coolant Filter
- Mounting Hardware – Check
- Air Intake Piping – Check
- After Treatment Exhaust Piping – Check
- Air Cleaner Restriction Indicator – Check
- Check Air Tanks & Reservoirs
- Charge Air Piping – Check
- Check Drive Belts & Tensioners
- Replace crankcase breather element
- Inspect vibration damper
- Clean air compressor discharge lines

Exhaust {84,000 Miles}

- Check For Exhaust Restrictions & Leaks
- Check For Loose Exhaust Fasteners & Straps
- Inspect Exhaust Bellows & Alignment

Hydraulic System {84,000 Miles}

- Check hydraulic level
- Replace hydraulic fluid filter element
- Check hydraulic pump mounting bolts

Drive Axle {84,000 Miles}

- Lubricate U-Joints And Slip Splines
- Replace Hydraulic Fluid Filter
- Check Differential Oil Level
- Inspect Differential Seals & Gaskets For Leaks
- Check axle mounting fastener torque
- Check axle flange nut torque
- Clean differential breather
Steering Front Axle {84,000 Miles}

- Grease tie rod arm ends
- Grease kingpins
- Check Pitman Arm For Wear Or Damage
- Grease Drag Link & Steering Arm
- Lubricate Steering Column U-Joints & Shaft
- Check Tie Rod Ends For Wear & Loose Nuts
- Check Steering Arms For Wear Or Damage
- Check Drag Link Anti-tilt Bushing/Seal For Wear Or Damage
- Check Steering Gear Mounting Plate For Damage
- Lubricate Steering Intermediate Shaft
- Check for excessive hub end play
- Grease behind output shaft dirt-and-water seal
- Inspect steering shaft seal

Brakes {84,000 Miles}

- Inspect Brake Air Hoses For Leaks Or Damage
- Check Steering Gear Mounting Bolt Torque
- Check Brake Chambers For Air Leaks
- Lubricate Slack Adjusters
- Check Slack Adjuster Operation
- Perform brake valve preventive maintenance
- Clean, and inspect brake valve, treadle, plunger boot, and mounting plate
- Lubricate treadle roller, roller pin, and hinge pin
- Apply a thin layer of Barium grease between plunger and mounting plate, do not over oil

Rear Suspension {84,000 Miles}

- Re-torque Suspension Fasteners
- Check Suspension Ride Height
- Check air springs for wear and damage
- Check shocks and bushings for leaks or wear
- Check for loose or damaged mounting parts
- Check kneeling system operation

Front Suspension {84,000 Miles}

- Re-torque Suspension Fasteners
- Check air springs for wear and damage
- Check shocks and bushings for leaks and wear
- Check external bump stops for wear and damage
- Check for proper ride height
- Check for loose or damaged mounting parts
- Test height control valve operation
- Test kneeling system operation

Air System {84,000 Miles}

- Check Air Compressor Mounting Fasteners
• Check Air Tank Mounting Fasteners
• Perform brake valve preventive maintenance
• Inspect air compressor lines
• Check compressor discharge and inlet for carbon
• Check compressor operation
• Check all air lines and fittings for leaks

Air Dryer {84,000 Miles}

• Test air dryer operation and check for leaks
• Check air dryer mounting fasteners

Electrical {84,000 Miles}

• Check Entry Doors, Sensitive Edge and Interlock Systems
• Check Wheel Chair Ramp, External Flasher & Alarm
• Check Kneeling System
• Check Stop Request & PA System
• Check Dash Controls For Proper Operation
• Check Gauges
• Check For System Error Codes: Engine, Trans., ABS, Etc.
• Check Interior Lights
• Check Throttle & Brake Pedal For Dirt, Debris, Corrosion, & Function
• Check Power Cable Connections
• Check Engine Compartment Lights for Function & Lenses
• Test Linear Heat Detector Wires In Engine Compartment
• Check Emergency Exit Operation Of Doors
• Check and Lubricate Battery Tray Slides & Rollers

Jump Start Connections {84,000 Miles}

• Verify Boot is in Place
• Inspect jump start cable for routing, chafing, & loose or broken clamps
• Inspect jump start housing for damage and cracks
• Inspect jump start terminal ends for corrosion
• Clean terminal ends and apply anti-corrosion protectant

Batteries {84,000 Miles}

• Check cables, hold downs, and boots
• Check open circuit voltage with DMM & check system
• Clean batteries of dirt and acid
• Inspect for bulging case and damaged terminals
• Check battery electrolyte level and connection torque
• Test conductance with Midtronic tester per manufacturer’s procedures
• Check voltage regulator settings

Starter {84,000 Miles}

• Inspect cables for damage or corrosion
• Inspect bolts, cable support clamps, and brushes
• Inspect solenoid cap for cracks/damage

**Alternator {84,000 Miles}**

• Inspect cables for damage and corrosion
• Inspect for oil leaks
• Inspect support brackets and torque bolts
• Check alternator for dirt build up and grime

**Rear Main Fuse Panel {84,000 Miles}**

• Inspect cables for damage or corrosion
• Check torque on all connections
• Fuses should not be removed unless blown or improperly seated

**A/C Heater Unit {84,000 Miles}**

• Inspect power and ground cables, and all electrical connections inside of return air
• Fuses should not be removed unless blown or improperly seated

**Chassis and Engine Harness/Cables {84,000 Miles}**

• Inspect for dirt buildup in chassis and clean
• Check clamps, chafing
• Inspect for heat damage around hot areas, such as the turbo, muffler, etc.

**Battery Equalizer {84,000 Miles}**

• Inspect for dirt, damage or corrosion

**Battery Disconnect Switch {84,000 Miles}**

• Inspect for dirt, damage or corrosion

**Front Main Fuse Box {84,000 Miles}**

• Inspect cables for damage or corrosion

**Rear Main I/O Panel {84,000 Miles}**

• Inspect power and ground cables, fuses, and circuit breakers

**Exit Door I/O Panel {84,000 Miles}**

• Inspect circuit breakers

**Front Console Panel {84,000 Miles}**

• Inspect power and ground cables, fuses, and circuit breakers
Body & Chassis {84,000 Miles}

- Lubricate wiper arm pivot point posts
- Inspect body for fluid leaks
- Inspect underbody/engine for damage or corrosion
- Inspect stanchion supports and tees for loose or missing fasteners
- Check for loose or missing overhead grab strap fasteners
- Inspect overhead grab straps for rips, frays, and tears
- Inspect fenders and splash aprons
- Check wiper arm adjustment
- Check bumper mounting fastener torque

Doors {84,000 Miles}

- Check door panel alignment
- Inspect door seals for leaks or damage
- Inspect door sensitive edge
- Test emergency door release mechanisms

Wheelchair Ramp {84,000 Miles}

- Ramp control POWER and ON/OFF switch operate correctly
- POWER indicator lights when POWER ON/OFF switch is ON
- DEPLOY and STOW switch operates correctly
- Check for unusual noise or erratic movement
- Vestibule area clear of loose objects and debris
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- Check connectors for looseness: secure as necessary
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Air Conditioning {84,000 Miles}

- Check refrigerant charge
- Visually inspect refrigerant hoses and tubing
- Visually inspect for refrigerant or oil leaks
- Check dry eyes in bottom receiver sight glass and/or liquid line sight glass for moisture
- Visually inspect clutch armature for wear
- Inspect compressor drive belt & check tension
- Check compressor oil level & color
- Visually inspect unit for loose, damaged, or broken parts
- Clean or replace return air filter
- Insect condenser & evap coils for cleanliness Lubricate evaporator fan shaft bearings
- Check evap/heater blower & condenser fan motor speed, voltage, & amps
- Inspect evap/heater blower & condenser fan motor brushes, commutator, bearings
GILLIG Preventive Maintenance List

Yearly
- Remove bellows for complete inspection and realignment
- Rebuild air dryer using OEM kit
- Clean battery terminal ends and apply anti-corrosion protectant
- Check floor covering seem sealing

2 Years
- Check air dryer condition of safety valve, and replace as needed
- Check air dryer continuity of heater with an ohmmeter, replace if continuity is present

3 Years
- Reseal floor covering

6 Years
- Replace air conditioning booster pump bearings