

## REQUEST FOR PROPOSALS ATL SOLICITATION # 26-002

## TRANSIT OPERATIONS AND MAINTENANCE SERVICES For ATLANTA-REGION TRANSIT LINK AUTHORITY and GWINNETT COUNTY

## **ATTACHMENT 12**

## **CONTENTS**

Preventive Maintenance Inspection Plan

Preventive Maintenance Inspection (PMI) Plan -

This plan outlines scheduled inspections, routine servicing, and detailed component evaluations based on manufacturer recommendations, regulatory requirements, and operational conditions. The contractor will be responsible for providing a structured maintenance schedule based on mileage and/or time intervals with clearly defined procedures, inspection checklists, and documentation practices. —the plan aims to proactively identify and address potential issues before they lead to costly repairs or service disruptions. The PMI plan includes quality control measures, all structured to maximize vehicle uptime, extend asset life, and comply with Federal Transit Administration (FTA) guidelines and Original Equipment Manufacturer (OEM) standards.

The Maintenance Schedule establishes structured timeline for routine inspections, servicing, and component replacements to ensure optimal vehicle performance and safety. This schedule is developed based on manufacturer (OEM) guidelines, historical maintenance data, and industry best practices, incorporating both time-based and mileage-based intervals. This PMI plan specifies the minimum requirements necessary for compliance, quality assurance, and serving as a baseline for audits, performance assessments, and continuous improvement efforts.

| Engine                                      |   |
|---|---|
| Air intake piping - Check                   | Daily                                   |
| Cooling fans - Check                        | Daily                                   |
| Crankcase breather tube - Check             | Daily                                   |
| Air tanks and reservoirs - Check            | Daily                                   |
| Coolant level - Check                       | Daily                                   |
| Fuel/water separator fuel filter - Drain    | Daily                                   |
| Engine oil level - Check                    | Daily                                   |
| DEF (diesel exhaust fluid) level - Check    | Daily                                   |
| After-treatment exhaust piping - Check      | Daily                                   |
| Air cleaner restriction indicator - Check   | Daily                                   |
| Charge air piping/system - Check            | Every 3,500 miles or every 250 hours    |
| Charge air cooler - Check                   | Every 3,500 miles or every 250 hours    |
| Radiator - Inspect for leaks, dirt, debris  | Every 6,000 miles or every 450 hours    |
| Radiator hoses and hose clamps - Check      | Every 6,000 miles or every 450 hours    |
| Surge tank and pressure relief caps - Check | Every 6,000 miles or every 450 hours    |
| Coolant - Test for replacement limits       | Every 6,000 miles or every 450 hours    |
| Coolant filter - Change                     | (standard filter) Every 500 hours       |
|   | (ESI filter) Every 4,000 hours          |
| Coolant SCA concentration level - Check     | Every 7,000 miles or every 500 hours    |
| Mounting hardware - Check                   | Every 10,000 miles                      |
| Cooling system - Flush                      | Every 14,000 miles or every 1,000 hours |
| Belt tensioners, automatic - Check          | Every 15,000 miles or every 1,500 hours |
| Drive belts - Check                         | Every 15,000 miles or every 1,500 hours |

| Overhead set - Adjust                      | Every 22,000 miles or every 2,000 hours              |
|--|--|
| Engine / engine compartment - Steam clean  | Every 30,000 miles or every 3,000 hours or as        |
|  | needed   |
| Vibration damper - Inspect                 | Every 30,000 miles or every 3,000 hours              |
| Air compressor discharge lines - Clean     | Every 30,000 miles or every 3,000 hours              |
| Engine oil and filter- Change              | Duty Cycle Dependent                                 |
| Engine brake assembly - Adjust             | Every 45,000 miles or every 4,500 hours              |
| Air intake connection - Clean              | Every 45,000 miles or every 4,500 hours              |
| Fuel/water separator primary fuel filter - | Every 50,000 miles or every 1,500 hours or 18        |
| Change                                     | months   |
| Standard secondary fuel filter - Change.   | Every 50,000 miles or every 1,500 hours or 18 months |
| Engine mounts - Check                      | Every 60,000 miles                                   |

| Exhaust   |   |
|---|---|
| Check for exhaust restrictions and leaks        | Every 12,000 miles                      |
| Check for loose exhaust fasteners and straps    | Every 12,000 miles                      |
| Visually inspect exhaust bellows and            | Every 12,000 miles                      |
| alignment                                       |   |
| Remove bellows for complete inspection and      | Every 50,000 miles or 1 years whichever |
| realignment                                     | comes first                             |
|   |   |
| DPF (diesel particulate filter) - Clean         | Every 50,000 miles or every 5,000 hours |
|   |   |
| After-treatment DEF dosing unit filter - Change | Every 60,000 miles or every 6,500 hours |
| Replace exhaust bellows                         | Every 250,000 miles                     |

| Transmission                |   |
|-----------------------------|---|
| Change main & lube filters  | Every 75,000 miles, 3,000 hours, or 3 years, whichever comes first  |
| Change transmission fluid   | Every 150,000 miles, 6,000 hours, or 4 years, whichever comes first |
| Inspect transmission mounts | Every 60,000 miles  |

| Driveline                           |                   |
|-------------------------------------|-------------------|
| Lubricate U-joints and slip splines | Every 8,000 miles |

| Check driveline fastener torque        | Every 24,000 miles                         |
|--|--|
| Hydraulic System                       |  |
| Check hydraulic fluid level            | Monthly                                    |
| Replace hydraulic fluid filter element | Every 100,000 miles or annually, whichever |
|  | comes first                                |
| Replace hydraulic fluid                | Every 100,000 miles or annually, whichever |
|  | comes first                                |

| Drive Axle                                      |   |
|---|---|
| Check gear oil in drive axle                    | Every 3,000 miles                         |
| Change gear oil in drive axle- Conventional oil | Every 25,000 miles or annually, whichever |
|   | comes first                               |
| Change gear oil in drive axle- Synthetic oil    | Every 100,000 miles or every 2 years,     |
|   | whichever comes first                     |
| Inspect seals and gaskets for leaks.            | Every 6,000 miles                         |
| Check axle mounting fastener torque             | Every 24,000 miles                        |
| Check axle flange nut torque                    | Every 24,000 miles                        |
| Clean differential breather                     | Every 42,000 miles                        |
| Inspect wheel end hub bearings                  | Every 100,000 miles or annually           |

| Steering and Front Axle                         |  |
|---|--|
| Check wheel end oil                             | Every 1,000 miles                          |
| Change wheel end oil.                           | First 5,000 miles, then every 30,000 miles |
| Check pitman arm for wear or damage             | Every 6,000 miles                          |
| Grease drag link and steering arms              | Every 10,000 miles                         |
| Lubricate steering column U-joints and shaft    | Every 12,000 miles                         |
| Check steering gear mounting bolt torque        | Every 12,000 miles                         |
| Check steering gear mounting plate for          | Every 12,000 miles                         |
| damage  |  |
| Check tie rod ends for wear and loose nuts      | Every 12,000 miles                         |
| Check steering arms for wear or damage          | Every 12,000 miles                         |
| Check drag link anti-tilt bushing seal for wear | Every 12,000 miles                         |
| or damage                                       |  |
| Lubricate steering intermediate shaft           | Every 12,000 miles                         |
| Check for excessive hub end play                | Every 15,000 miles or every 6 months       |
| Grease behind output shaft dirt-and-water       | Every 24,000 miles                         |
| seal.   |  |
| Inspect steering shaft seal                     | Every 24,000 miles                         |
| Change wheel end oil                            | Every 30,000 miles                         |

| Brakes  |                                      |
|---|--------------------------------------|
| Inspect brake air hoses for leaks or damage     | Every 6,000 miles                    |
| Check brake chambers for air leaks              | Every 6,000 miles                    |
| Check brake shoe lining thickness               | Every 6,000 miles                    |
| Lubricate slack adjusters                       | Every 6,000 miles                    |
| Check slack adjuster operation                  | Every 12,000 miles                   |
| Perform brake valve preventative maintenance    | Every 25,000 miles                   |
| Clean, and inspect brake valve, treadle,        | Every 25,000 miles or every 3 months |
| plunger boot, and mounting plate                |                                      |
| Lubricate treadle roller, roller pin, and hinge | Every 25,000 miles or every 3 months |
| pin   |                                      |
| Apply a thin layer of Barium grease between     | Every 25,000 miles or every 3 months |
| the plunger and mounting plate, do not over oil |                                      |
| Lubricate brake cam bushings                    | Every 50,000 miles                   |

| Wheels                      |  |
|-----------------------------|--|
| Check wheel stud nut torque | First 100 miles, then every 10,000 miles |

| Rear Suspension                              |  |  |
|--|--|--|
| Re-torque suspension fasteners               | First 5,000 miles, then every 50,000 miles |  |
| Check suspension ride height                 | Every 6,000 miles                          |  |
| Check air springs for wear and damage        | Every 24,000 miles                         |  |
| Check shocks and bushings for leaks and      | Every 24,000 miles                         |  |
| wear Check for loose or damaged mounting     |  |  |
| parts  |  |  |
| Check kneeling system operation              | Every 24,000 miles                         |  |
| Inspect suspension bushings and all          | Every 24,000 mile                          |  |
| suspension components for damage,            |  |  |
| looseness, and wear or cracks                |  |  |
| Front Suspension                             |  |  |
| Re-torque suspension fasteners               | Every 24,000 miles                         |  |
| Check air springs for wear and damage        | Every 24,000 miles                         |  |
| Check shocks and bushings for leaks and      | Every 24,000 miles                         |  |
| wear   |  |  |
| Check external bump stops for wear and       | Every 24,000 miles                         |  |
| damage                                       |  |  |
| Check for proper ride height                 | Every 24,000 miles                         |  |
| Check for loose or damaged mounting parts    | Every 24,000 miles                         |  |
| Test height control valve operation          | Every 24,000 miles                         |  |
| Test kneeling system operation (if equipped) | Every 24,000 miles                         |  |

| Inspect suspension components for damage,        | Every 50,000 miles  |
|--|---------------------|
| looseness, and wear or cracks                    |                     |
| Air System                                       |                     |
| Check air compressor mounting fasteners          | Every 6,000 miles   |
| Check air tank mounting fasteners                | Every 6,000 miles   |
| Inspect air lines for cuts, swelling, kinks,     | Every 6,000 miles   |
| pinching, melted, chafing, deterioration, or any |                     |
| damage   |                     |
| Inspect for loose or missing retaining clips,    | Every 6,000 miles   |
| ties, grommets, and supporting parts to          |                     |
| prevent excess vibration which could loosen      |                     |
| or damage connections                            |                     |
| Check that supports and brackets are in good     | Every 6,000 miles   |
| condition and that clamps have not               |                     |
| deteriorated                                     |                     |
| Perform brake valve preventative maintenance     | Every 25,000 miles  |
| Inspect air compressor lines                     | Every 42,000 miles  |
| Check compressor discharge and inlet for         | Every 42,000 miles  |
| carbon   |                     |
| Check compressor operation                       | Every 42,000 miles  |
| Check all air lines and fittings for leaks       | Every 42,000 miles  |
| Test governor operation and check for leakage    | Every 50,000 miles  |
| Disassemble and clean PPV's                      | Every 50,000 miles  |
| Disassemble, clean, inspect single check         | Every 50,000 miles  |
| valves   |                     |
| Rebuild PP-1 parking brake valve                 | Every 50,000 miles  |
| Rebuild QR-1, SR-1, R-12DC, R-14, double         | Every 100,000 miles |
| check valves                                     |                     |
| Rebuild air compressor                           | Every 200,000 miles |

| Air Dryer  |                              |
|--|------------------------------|
| Drain reservoirs, if oil or moisture is present, | Every 30 days                |
| perform functionality tests                      |                              |
| Test air dryer operation and check for leaks.    | Every 25,000 miles           |
| Check air dryer mounting fasteners               | Every 25,000 miles           |
| Rebuild using OEM kit                            | Every 14-18 months           |
| Check condition of safety valve, replace as      | Every two years or as needed |
| needed   |                              |
| Check continuity of heater with an ohmmeter,     | Every two years or as needed |
| replace if no continuity is present              |                              |
| Drain reservoirs, if oil or moisture is present, | Every 30 days                |
| perform functionality tests                      |                              |

| Test air dryer operation and check for leaks | Every 25,000 miles |
|--|--------------------|
|--|--------------------|

| Electrical                                      | - Batteries         |
|---|---------------------|
| Check cables, hold downs, and boots             | Every 6,000 miles   |
| Check open circuit voltage with DMM &           | Every 6,000 miles   |
| service any that are low (<12.4 VDC) & check    |                     |
| system  |                     |
| Clean batteries of dirt and acid                | Every 6,000 miles   |
| Inspect for bulging case, damaged terminals     | Every 6,000 miles   |
| Check battery electrolyte level and             | Every 12,000 miles  |
| connection torques                              |                     |
| Test conductance with Medtronic tester per      | Every 12,000 miles  |
| manufacturer's procedures                       |                     |
| Check voltage regulator settings                | Every 24,000 miles  |
| Electrical- Electric                            | Cooling System Fan  |
| Inspect fan blades and radiator core for debris | Daily               |
| Inspect protective caps and retaining rings     | Every 6 months      |
| Inspect power and ground cables for             | Every 6 months      |
| corrosion or damage                             |                     |
| Electrica                                       | l- Starter          |
| Inspect cables for damage or corrosion          | Every 6,000 miles   |
| Check torque on cables and re-torque as         | Every 36,000 miles  |
| necessary                                       |                     |
| Inspect bolts, cable support clamp, and         | Every 36,000 miles  |
| brushes   |                     |
| Inspect solenoid cap for cracks/damage          | Every 36,000 miles  |
| Check starter engagement protection circuit     | Every 36,000 miles  |
| Check pinion teeth for damage                   | Every 120,000 miles |
| Service starting motor                          | Every 120,000 miles |
| Electrical-                                     | Alternator          |
| Inspect cables for damage or corrosion          | Every 6,000 miles   |
| Inspect support brackets at alternator, and     | Every 6,000 miles   |
| torque bolts                                    |                     |
| Check alternator for dirt buildup and grime     | Every 6,000 miles   |
| Change bearings and complete teardown           | Engine overhaul     |
| check   |                     |
| Electrical- Rear Main Fuse Panel                |                     |
| Inspect cables for damage or corrosion          | Every 6,000 miles   |
| If cables exhibit damage or corrosion, remove   | Every 6,000 miles   |
| cables, repair and replace cables as required,  |                     |
| reapply Kopr-Shield and re-torque cables        |                     |
| Check torque on all connections                 | Every 6,000 miles   |

| Fuses should not be removed unless blown or  | Every 6,000 miles      |
|--|------------------------|
| improperly seated  | Ollo storille:t        |
|  | C Heater Unit          |
| Inspect power and ground cables, and all   | Every 6,000 miles      |
| electrical connections inside of return air  |                        |
| Check torque on cables and re-torque as  | Every 6,000 miles      |
| necessary  |                        |
| If cables exhibit damage or corrosion, remove  | Every 6,000 miles      |
| cables, repair and replace cables as required,   |                        |
| reapply Kopr-Shield and re-torque cables   |                        |
| Electrical- Chassis and E  | ngine Harnesses/Cables |
| Inspect for dirt and salt buildup in chassis and   | Every 12,000 miles     |
| clean  |                        |
|  |                        |
| Check clamps, chafing  | Every 12,000 miles     |
|  | ,                      |
| Inspect for heat damage around hot areas,  | Every 12,000 miles     |
| such as the turbo, muffler, etc  | , ,                    |
| Clean ground connections   | Every 36,000 miles     |
| Check torque on cables and re-torque as  | Every 36,000 miles     |
| necessary  | 2.0.7 00,00000         |
| -  | ttery Equalizer        |
| Inspect for dirt, damage or corrosion  | Every 6,000 miles      |
| If cables exhibit damage or corrosion, remove  | Every 6,000 miles      |
| cables, repair and replace cables as required,   |                        |
| reapply Kopr-Shield and re-torque cables   |                        |
| Check torque on cables and re-torque as  | Every 6,000 miles      |
| necessary  | Every e,coo minos      |
| Electrical- Main Disconnect Switch   |                        |
| Inspect for dirt, damage or corrosion  | Every 6,000 miles      |
| If cables exhibit damage or corrosion, remove  | Every 6,000 miles      |
| cables, repair and replace cables as required,   | Every 0,000 miles      |
| reapply Kopr-Shield and re-torque cables   |                        |
| Check micro-switch for function (if equipped)  | Every 6,000 miles      |
| Check battery switch for function and for  | Every 6,000 miles      |
| continuity in open and close   | Every 0,000 filles     |
|  | + Main Fuga Pay        |
|  | t Main Fuse Box        |
| Inspect cables for damage or corrosion   | Every 6,000 miles      |
| If cables exhibit damage or corrosion, remove  | Every 6,000 miles      |
| cables, repair and replace cables as required,   |                        |
| reapply Kopr-Shield and re-torque cables   |                        |
| Check torque on all connections  | Every 6,000 miles      |
| The second secon | , 0,00000              |

| Fuses should not be removed unless blown or improperly seated | Every 6,000 miles  |  |
|---|--------------------|--|
| Electrical- Rear Main I/O panel                               |                    |  |
| Inspect power and ground cables, fuses, and                   | Every 6,000 miles  |  |
| circuit breakers  |                    |  |
| If cables exhibit damage or corrosion, remove                 | Every 6,000 miles  |  |
| cables, repair and replace cables as required                 |                    |  |
| and re-torque cables  |                    |  |
| Check torque on cables and re-torque as                       | Every 36,000 miles |  |
| necessary   |                    |  |
| Electrical- Front Main I/O panel                              |                    |  |
| Inspect power and ground cables, fuses, and                   | Every 6,000 miles  |  |
| circuit breakers  |                    |  |
| If cables exhibit damage or corrosion, remove                 | Every 6,000 miles  |  |
| cables, repair and replace cables as required                 |                    |  |
| and re-torque cables  |                    |  |
| Check torque on cables and re-torque as                       | Every 36,000 miles |  |
| necessary   |                    |  |
| Electrical- Exit Door I/O Panel                               |                    |  |
| Inspect circuit breakers                                      | Every 6,000 miles  |  |
| Electrical- Front Console Panel                               |                    |  |
| Inspect power and ground cables, fuses, and                   | Every 6,000 miles  |  |
| circuit breakers  |                    |  |
| Electrical- Driver's Heater / Fans / Booster Fan              |                    |  |
| Inspect power and ground cables, switches,                    | Every 60,000 miles |  |
| fuses, and circuit breakers                                   |                    |  |
| Inspect/replace brushes if equipped                           | Every 80,000 miles |  |
| Electrical- Ceiling Harnesses                                 |                    |  |
| Check clamps, chafing, lamp sockets, ballast,                 | Every 60,000 miles |  |
| etc   |                    |  |
|   | nsole and Dash     |  |
| Check clamps, chafing, lamp sockets,                          | Every 60,000 miles |  |
| switches, etc   |                    |  |

| Body and Chassis                       |                                 |
|--|---------------------------------|
| Lubricate wiper arm pivot posts        | Every 6,000 miles               |
| Inspect body for fluid leaks           | Every 6,000 miles               |
| Wash underbody/engine compartment and  | Every 12,000 miles or as needed |
| inspect for damage and corrosion.      |                                 |
| Inspect fenders and splash aprons.     | Every 24,000 miles              |
| Check wiper arm adjustment             | Every 24,000 miles              |
| Inspect welds on frame, brackets, etc. | Every 30,000 miles              |

| Check bumper mounting fastener torque. | Every 42,000 miles         |
|--|----------------------------|
| Check floor covering seam sealing      | Every year                 |
| Reseal floor covering                  | Every 3 years or as needed |

| Doors  |                     |
|--|---------------------|
| Check door panel alignment                       | Every 6,000 miles   |
| Inspect door seals for leaks or damage           | Every 6,000 miles   |
| Inspect door sensitive edge                      | Every 6,000 miles   |
| Test emergency door release mechanisms           | Every 12,000 miles  |
| Check door motor and base plate fasteners        | Every 18,000 miles  |
| Inspect lower door shaft pivot bearings -        | Every 250,000 miles |
| Check for excessive                              |                     |
| radial play (>0.06 inch) of pivot bearing within | Every 250,000 miles |
| door shaft                                       |                     |

| Wheelchair Ramp                               |                                 |
|---|---------------------------------|
| Clean ramp platform surface                   | As needed and every 6,000 miles |
| Clean rising floor surface                    | As needed and every 6,000 miles |
| Clean drive platform assembly (under the      | As needed and every 6,000 miles |
| rising floor)                                 |                                 |
| Check ramp platform surfaces (both sides)     | Every 6,000 miles               |
| Check rising floor surface                    | Every 6,000 miles               |
| Check curb-side lugs, bearings, and curb-side | Every 6,000 miles               |
| rollers                                       |                                 |
| Check chain/counterbalance assembly           | Every 6,000 miles               |
| Check drive train, sprockets, and couplings   | Every 6,000 miles               |
| Check stow latch mechanism and solenoid       | Every 6,000 miles               |
| linkage                                       |                                 |
| Check stow limit switch                       | Every 6,000 miles               |
| Check all electrical cables                   | Every 6,000 miles               |
| Check structural integrity of frame and ramp  | Every 6,000 miles               |
| assembly                                      |                                 |
| Clean and lubricate drive chain and           | Every 6,000 miles               |
| chain/counterbalance assy                     |                                 |
| Lubricate stow latch bushings with thin       | Every 6,000 miles               |
| coating of anti-seize.                        |                                 |
| Check for rust                                | Every 6,000 miles               |
| Wheelchair Lift                               |                                 |
| Ensure all system covers, instruction         | Every 6,000 miles               |
| information and placards are in place and     |                                 |
| good condition                                |                                 |

| Inspect hydraulic lines for leaks and proper     | Every 6,000 miles |
|--|-------------------|
| routing  |                   |
| Inspect all Q straints, ensure E-Track bolts are | Every 6,000 miles |
| tight. 8 Q-straint must be in vehicle            |                   |
| Ensure pump handle is in place/good              | Every 6,000 miles |
| condition.                                       |                   |
| Ensure jump seat is in good condition,           | Every 6,000 miles |
| wheelchair clamps are in good condition          |                   |
| Check reservoir fluid level                      | Every 6,000 miles |
| Ensure all lights are operational                | Every 6,000 miles |
| Ensure all lift safety features are functioning  | Every 6,000 miles |
| properly ( example: lift will not operate with   |                   |
| door closed)                                     |                   |
| Check for smooth lift operation, lift clears     | Every 6,000 miles |
| door, lift must be level with the floor and no   |                   |
| excessive gaps                                   |                   |
| Ensure all lift handrails are in place and       | Every 6,000 miles |
| securely mounted                                 |                   |
| Inspect lift unit for stress cracks, proper      | Every 6,000 miles |
| mounting and alignment                           |                   |
| Verify that lift towers and barrier operates     | Every 6,000 miles |
| properly   |                   |

| Air Conditioning                              |                                      |
|---|--------------------------------------|
| Check refrigerant charge                      | Every 6,000 miles                    |
| Visually inspect refrigerant hoses & tubing   | Every 6,000 miles                    |
| Visually inspect for refrigerant or oil leaks | Every 6,000 miles                    |
| Check dry eyes in bottom receiver sight glass | Every 6,000 miles                    |
| and/or liquid line sight glass for moisture   |                                      |
| Visually inspect clutch armature for wear     | Every 6,000 miles                    |
| Inspect compressor drive belt & check tension | Every 6,000 miles                    |
| Check compressor oil level & color            | Every 6,000 miles                    |
| Visually inspect unit for loose, damaged, or  | Every 6,000 miles                    |
| broken parts                                  |                                      |
| Clean or replace return air filter            | Every 6,000 miles or every 3 Months, |
|   | whichever comes first                |
| Inspect condenser & evap coils for            | Every 6,000 miles                    |
| cleanliness                                   |                                      |
| Install service gauge manifold set & check    | Every 18,000 miles                   |
| system pressures, temperatures, & suction     |                                      |
| line  |                                      |
| Check clutch air gap (X426, X430 only).       | Every 18,000 miles                   |

| Check evap/heater blower & condenser fan       | Every 24,000 miles |
|--|--------------------|
| motor speed, voltage, & amps                   |                    |
| Lubricate evaporator fan shaft bearings        | Every 24,000 miles |
| Inspect evap/heater blower & condenser fan     | Every 24,000 miles |
| motor brushes, commutator, bearings            |                    |
| Check EPR valve operation                      | Every 48,000 miles |
| Replace liquid line dehydrator                 | Every 48,000 miles |
| Check hot water control valve (if installed)   | Every 48,000 miles |
| Steam clean compressor & clutch                | Every 48,000 miles |
| Check clutch coil resistance & voltage         | Every 48,000 miles |
| Lubricate clutch bushing                       | Every 48,000 miles |
| Check high & low pressure cutouts              | Every 48,000 miles |
| Check compressor oil for acidity               | Every 48,000 miles |
| Check compressor efficiency                    | Every 48,000 miles |
| Check compressor oil pump pressure             | Every 48,000 miles |
| Check thermostat cycle sequence on all         | Every 48,000 miles |
| modes  |                    |
| Clean control panel area & return air sensor   | Every 48,000 miles |
| with compressed air                            |                    |
| Check heater booster pump motor operation      | Every 48,000 miles |
| Inspect wires/terminals for damage/corrosion   | Every 48,000 miles |
| Check condenser pressure switch/condenser      | Every 48,000 miles |
| motor hi/low speed operation (if equipped)     |                    |
| Check freeze thermostat (if equipped)          | Every 48,000 miles |
| Clean condenser/evaporator drains & check      | Every 48,000 miles |
| drain hose check valves                        |                    |
| Visually inspect engine coolant hose & hose    | Every 48,000 miles |
| clamp on heater coil system                    |                    |
| Clean condenser & evaporator coils             | Every 48,000 miles |
| Check engine coolant for antifreeze protection | Every 48,000 miles |
| down to 30° to prevent heater coil freeze      |                    |
| lighten compressor, A/C unit, & fan motor      | Every 48,000 miles |
| mounting hardware                              | - 40 000 11        |
| Check condenser air seals & air deflector (if  | Every 48,000 miles |
| installed)                                     |                    |
| Check evaporator blower shaft coupling         | Every 48,000 miles |
| adjustment/alignment (if installed)*           |                    |
| Replace booster pump bearings                  | Every 6 years      |

| Farebox                                    |               |
|--|---------------|
| Clean magnetic swipe utilizing four swipes | Every 30 days |
| with cleaning card                         |               |

| Clean token and coin cup with sponge and                      | Every 30 days  |
|---|----------------|
| isopropyl alcohol   |                |
| Clean trim unit ticket path with four passes of cleaning card | Every 30 days  |
| Clean exterior of farebox with stainless steel                | Every 30 days  |
| cleaner ( Do not spray top of the farebox)                    |                |
| Inspect wiring harness under coach for proper                 | Every 30 days  |
| routing and damage  |                |
| Perform full function test of farebox                         | Every 30 days  |
| Clean OCU with mild detergent                                 | Every 90 days  |
| Clean passenger display with soft damp cloth                  |                |
| Clean coin validator externally with a damp                   | Every 90 days  |
| cloth and mild detergent, internally utilize                  |                |
| compressed air or Isopropyl alcohol                           |                |
| Clean coin validator solenoid with cotton                     | Every 90 days  |
| swab and Isopropyl alcohol                                    |                |
| Clean Coin/Token cup with all purpose                         | Every 90 days  |
| cleaner   |                |
| Bill validator clean with mild detergent on a                 | Every 90 days  |
| damp cloth externally and internally clean                    |                |
| with compressed air   |                |
| Bill transport O-rings clean with mild                        | Every 90 days  |
| detergent.  |                |
| Inspect Bill transport pulleys and belts for                  | Every 90 days  |
| wear replace as needed  |                |
| Inspect Cash lock mechanism repair as                         | Every 90 days  |
| needed  |                |
| Inspect Trim unit drive belt for wear                         | Every 90 days  |
| Inspect and clean Trim unit drive belt roller                 | Every 90 days  |
| Inspect and clean all black rollers                           | Every 90 days  |
| Inspect and clean optical sensors on the Trim                 | Every 90 days  |
| unit  |                |
| Lubricate Bill Transport idler post                           | Every 180 days |
| Lubricate 20 tooth spur drive                                 | Every 180 days |
| Clean and lubricate Cashbox slide, coin                       | Every 180 days |
| stripper, and bill stripper. Clean using mild                 |                |
| detergent   |                |
| Lubricate locking bar   | Every 180 days |
| Lubricate electronic lock                                     | Every 180 days |
| Inspect clean and lubricate Coin Bypass                       | Every 180 days |
| mechanism   |                |
| Clean and inspect magnetic heads on Trim                      | Every 180 days |
| unit  |                |

| Clean and inspect print head on Trim unit      | Every 180 days |
|--|----------------|
| Inspect and clean Trim unit solenoids          | Every 180 days |
| Clean and inspect Trim unit Gears              | Every 180 days |
| Clean and inspect Trim unit Edge guides        | Every 180 days |
| Clean and inspect Trim unit drive belt replace | Every 180 days |
| if necessary                                   |                |
| Clean and inspect drive pulleys                | Every 180 days |
| Inspect Ticket cassette adjust stripper gap if | Every 180 days |
| necessary                                      |                |
| Inspect bearings, bushings, and motor for      | Every 180 days |
| proper operation                               |                |
| Replace cashbox ID and Trim unit battery       | Every 3 years  |
|  |                |
|  |                |
| Replace coin bypass spring                     | Every 3 years  |

| Destination Sign                               |                |
|--|----------------|
| Inspect both front and side signs for proper   | Every 6 months |
| operation                                      |                |
| Check driver display and control unit for      | Every 6 months |
| proper operation                               |                |
| Clean inside of destination sign glass         | Every 6 months |
| Check all cables and wiring for wear, fraying, | Every 6 months |
| and proper clamp and routing                   |                |
| Run test sign code and four other run codes to | Every 6 months |
| determine proper operation                     |                |
| Check sign door for proper fit.                | Every 6 months |
| Check all latches for proper adjustment and    | Every 6 months |
| damage   |                |
| Inspect all hinges for possible defect         | Every 6 months |
| Inspect sign housing for damage, cracks, loose | Every 6 months |
| mounting hardware                              |                |
| Check destination sign lighting for proper     | Every 6 months |
| operation.                                     |                |
| Clean all trash, dust, and debris from sign    | Every 6 months |
| compartment                                    |                |