

**FLEET MAINTENANCE
PLAN**

URBAN DIVISIONS

**HILL COUNTRY TRANSIT
DISTRICT**

MARCH 1, 2006

URBAN DIVISIONS – FLEET MAINTENANCE PLAN

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1.0 INTRODUCTION

This Maintenance Program adheres to and goes beyond the manufacturer's specifications for each bus in the fleet. At the heart of the maintenance program is a preventive maintenance inspection (PMI) designed to assure cost savings and dependability of equipment and service. HCTD uses a commercial software package entitled Fleet Maintenance Pro for tracking all service and repair work for the fleet. This software provides a tool used by HCTD in which a customized PMI schedule is developed for each type of equipment in the fleet. The PMI schedule is based on miles, days, or a combination of both, dependent on the use of the equipment. Each of the scheduled maintenance procedures will build on previous ones, with some routine procedures being performed each time the bus is inspected and others added according to whether the inspection is due based on additional miles or days of use.

Every piece of equipment assigned to the Maintenance Department, including all vehicles in the fleet, are maintained and tracked according to the software program. Lawn mowers, weed eaters, and similar equipment have specific PMI schedules designed to meet or exceed the suggestions of the OEM.

In order to properly manage the maintenance function, performance standards are established. These standards are continually assessed through key operational areas such as: safety, vehicle reliability, and timely service. Through this process, adverse trends can be identified, and areas of less than optimum performance are isolated and improvements planned and initiated.

Adherence to performance standards requires the Director of Urban Operations, the Maintenance Support Specialist, and Mechanics to have routine access to data, which accurately reflects the quality of performance of the various maintenance functions. The data must provide sufficient detail to pinpoint any problem areas, so management can concentrate efforts to remedy the problem. Collection of data requires compiling information from the source, maintenance personnel. This Maintenance Plan provides a description of the maintenance management information and control system employed in maintaining revenue vehicles in a safe, reliable operating condition.

1.1 FLEET

The Maintenance Staff is responsible for the maintenance and repair of approximately 46 vehicles, comprised of the following:

- Killeen – 15 FRS buses: Champions and ElDorados
- Killeen – 11 STS buses: Goshen and ElDorado
- Killeen – 3 support vehicles
- Temple – 4 FRS buses: ElDorados and Champion
- Temple – 12 STS buses: Goshens, ElDorados, others
- Temple – 1 support vehicle

If no additional defects are found on the final inspection, the Class A Mechanic or MSS will sign off the PM work order and the vehicle will be parked on the ready line. Operations will be informed the vehicle is ready for service, and the Bus Status Report will be updated accordingly.

7.0 WHEELCHAIR LIFT MAINTENANCE PROGRAM

There are two types of maintenance performed on the Wheelchair Lifts and ADA equipment.

1. Preventive Maintenance
2. Unscheduled maintenance

Preventive maintenance will be performed on every scheduled PMI. Specific inspection and service lists have been created for the Lifts.

Unscheduled repairs will be performed when a lift failure is reported by a driver or supervisor.

- Basic check of complete lift operation
- Repair any defect noted during check

8.0 WHEELCHAIR LIFT FAILURE RESPONSE

When a driver reports a wheelchair lift failure the Dispatcher will immediately notify maintenance, at which time the ranking mechanic on duty will contact the driver to verify the failure. The MSS or ranking mechanic will consult with the operations Dispatcher to make the decision to either leave the bus in service or remove it from service depending on service demands. Every attempt will be made to have the vehicle returned to the shop for repair. If the vehicle can not return it will be noted on the Defect Card and repaired when brought in. When the vehicle with the inoperable lift is brought into the shop it will be checked for any and all defects to insure proper operation when it is returned to service

9.0 AIR CONDITIONING PREVENTIVE MAINTENANCE PROGRAM

The MSS will establish a vehicle air conditioning preventive maintenance program that will be conducted during the off season, October through March, and will review the report and progress regularly with the Director. A schedule for these inspections will be created and reviewed weekly by the MSS with priority set for those vehicles with marginal systems.

The MSS will select an available vehicle for inspection and continue this process until all vehicles have been inspected – such inspections can be made when the bus is in the shop for scheduled maintenance.

**FLEET MAINTENANCE
PLAN**

RURAL DIVISION

**HILL COUNTRY TRANSIT
DISTRICT**

MARCH 1, 2006

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1.0 INTRODUCTION

This Maintenance Program adheres to and goes beyond the manufacturer's specifications for each bus in the fleet. At the heart of the maintenance program is a preventive maintenance inspection (PMI) designed to assure cost savings and dependability of equipment and service. HCTD uses a commercial software package entitled Fleet Maintenance Pro for tracking all service and repair work for the fleet. This software provides a tool used by HCTD in which a customized PMI schedule is developed for each type of equipment in the fleet. The PMI schedule is based on miles, days, or a combination of both, dependent on the use of the equipment. Each of the scheduled maintenance procedures will build on previous ones, with some routine procedures being performed each time the bus is inspected and others added according to whether the inspection is due based on additional miles or days of use.

In order to properly manage the maintenance function, performance standards are established. These standards are continually assessed through key operational areas such as: safety, vehicle reliability, and timely service. Through this process, adverse trends can be identified, and areas of less than optimum performance are isolated and improvements planned and initiated.

Adherence to performance standards requires the Rural Fleet Manager and Vendor Mechanics to have routine access to data, which accurately reflects the quality of performance of the various maintenance functions. The data must provide sufficient detail to pinpoint any problem areas, so management can concentrate efforts to remedy the problem. Collection of data requires compiling information from the source, maintenance personnel. This Maintenance Plan provides a description of the maintenance management information and control system employed in maintaining revenue vehicles in a safe, reliable operating condition.

1.1 FLEET

The Maintenance Staff is responsible for the maintenance and repair of approximately 57 vehicles, comprised of the following:

- Type I – 14 vans: Dodge, Ford and Chevrolet, 12-15 passengers
- Type II – 18 STS buses: El Dorado
- Type III Short - 5 STS buses: Goshen
- Type III – 7 STS buses: El Dorado and Goshen
- Type VII – 9 minivans: Dodge and Chevrolet
- School Bus – 3 Headstart School Buses
- Rural - 1 support vehicle

A complete list of the vehicles, including model and serial numbers of components (such as lifts) are part of the database in the Fleet Maintenance Pro software.

5.4 IN WORK

As manpower and space becomes available to begin work, the work ordered is assigned to a mechanic.

When all work on the work order is completed, the Rural Fleet Manager or designee will check it for completeness. The Rural Fleet Manager or designee will then close the work order.

If the work cannot be completed due to lack of parts, information contained in the work order is highlighted in yellow on the Bus Status Report.

5.5 NOT WORKABLE

This section will contain the work orders of any vehicle that needs work, but cannot be completed.

Two types of work orders fall in this category:

- Waiting parts
- Accident/claims

6.0 PREVENTIVE MAINTENANCE

A properly designed and administered preventive maintenance program will reduce unscheduled repairs. This is accomplished through careful monitoring and tracking of each vehicle in the assigned fleet. Management will utilize the Fleet Maintenance Pro reports for this purpose.

The Rural Fleet manager or designee will create a work order (both in the Fleet Maintenance Pro and a hard copy). All defects are to be corrected while performing the PM.

A vendor will be assigned to the vehicle. Upon completion of the assigned PM and other repairs, the Rural Fleet Manager or designee will review the inspection check sheet and spot check the vehicle for any errors or items possibly missed by the mechanic.

If no additional defects are found on the final inspection, the vehicle will be parked and put into service. The Lead Driver will be informed the vehicle is ready for service, and the Bus Status Report will be updated accordingly.

7.0 WHEELCHAIR LIFT MAINTENANCE PROGRAM

There are two types of maintenance performed on the Wheelchair Lifts and ADA equipment.

1. Preventive Maintenance
2. Unscheduled maintenance

Preventive maintenance will be performed on every scheduled PMI. Specific inspection and service lists have been created for the Lifts.

Unscheduled repairs will be performed when a lift failure is reported by a driver or supervisor.

Basic check of complete lift operation
Repair any defect noted during check

8.0 WHEELCHAIR LIFT FAILURE RESPONSE

When a driver reports a wheelchair lift failure the Dispatcher will immediately notify maintenance, at which time the ranking mechanic on duty will contact the driver to verify the failure. The Rural Fleet Manager or Rural Operation Manager will consult with the operations Dispatcher to make the decision to either leave the bus in service or remove it from service depending on service demands. Every attempt will be made to have the vehicle returned to the designated operation site for repair. If the vehicle can not return it will be noted on the Weekly Inspection Checklist and repaired when brought in. When the vehicle with the inoperable lift is brought to the operation site it will be checked for any and all defects to insure proper operation when it is returned to service, only with the Rural Fleet Manager's final inspection.

9.0 AIR CONDITIONING PREVENTIVE MAINTENANCE PROGRAM

The Rural Fleet Manager will establish a vehicle air conditioning preventive maintenance program that will be conducted during the off season, October through March. A schedule for these inspections will be created and reviewed weekly by the Rural Fleet Manager with priority set for those vehicles with marginal systems.

The Rural Fleet Manager will select an available vehicle for inspection and continue this process until all vehicles have been inspected – such inspections can be made when the bus is in the shop for scheduled maintenance.

When the repair is completed, the mechanic returns the vehicle to service.

10.0 MAINTENANCE REPORTS

Accurate maintenance reports are essential to maintaining a reliable fleet. The effectiveness of maintenance efforts are identified through the following reports:

- Monthly road calls
- PMI status
- Vehicles service status report

200 SERIES DIESEL

<i>Maintenance Service</i>	<i>Day Interval</i>	<i>Mi/Km/Hr Interval</i>
Interior panels	0	6,000
King pins - condition	0	6,000
Kneeling system operation	0	6,000
Leveling valves - Leaks, condition	0	6,000
Lift barrier and linkages	0	6,000
Lift electrical connections	0	6,000
Lift hydraulic hoses	0	6,000
LIFT INSPECTION TYPE B FORM	0	72,000
Lift switches - operation & condition	0	6,000
Lug nuts and studs	0	6,000
Mirrors - condition	0	6,000
PA System - Operation	0	6,000
Parking brake - Condition, operation	0	6,000
Passenger Counters - Condition	0	6,000
Passenger doors	0	6,000
Passenger seats	0	6,000
Passenger stop signal	0	6,000
Power steering operation	0	6,000
Radiator - fluids, condition	0	6,000
Radius, lateral rods, torque rods	0	6,000
Rear axle flange nut tightness	0	6,000
Remote mirrors	0	6,000
Safety equipment	0	6,000
Stanchions, grab rails	0	6,000
Steering gear box, drive shaft	0	6,000
Step well lights	0	6,000
Stop lights	0	6,000
Tie rod ends - condition	0	6,000
Tire tread, wear, inflation, conditon	0	6,000
Transfer cutter - Condition	0	6,000
Turbo Charger	0	6,000
Turn signals - dash and exterior	0	6,000
Warning signals	0	6,000
WC seat belts, tie-downs	0	6,000
Windows, latches	0	6,000
Windshield condition	0	6,000
Windshield wiper condition	0	6,000
Windshield wiper, washer - operation	0	6,000
Normal	17 Items	
AC Belts - Condition, adjust	0	6,000
Add Lucas injector cleaner	0	24,000

200 SERIES GASOLINE

<i>Maintenance Service</i>	<i>Day Interval</i>	<i>Mi/Km/Hr Interval</i>
Brake Pedal - Condition, Operation	0	3,000
Bumpers - Condition	0	3,000
Check Hydraulic Pump for Leaks	0	3,000
Dash Instruments	0	3,000
Defroster Blowers - Operation	0	3,000
Drag Link - Conditon	0	3,000
Drive Shaft & U - Joints (incl AC)	0	3,000
Driver Air Vents	0	3,000
Driver Fan	0	3,000
Driver Seat / Belt - Condition-Operation	0	3,000
Electrical Wiring - Wear	0	3,000
Emergency Hatches	0	3,000
Engine Belts - Tension, Condition	0	3,000
Engine Compartment - Hoses & Lines	0	3,000
Engine Compartment Lights - Condition	0	3,000
Engine Fan Motor Mount - Operation	0	3,000
Engine Operation - Noise	0	3,000
Evaporator Compartment Door	0	3,000
Exhaust System - Leaks, Condition	0	3,000
Exterior Lights - Operation	0	3,000
Exterior Marker Lights	0	3,000
Farebox	0	3,000
Fire Extinguisher	0	3,000
Floor Condition	0	3,000
Fourway Flashers	0	3,000
Front Wheel Hubs - Cap Tightness	0	3,000
Gear Selector - Condition, Operation	0	3,000
Generator Mounting & Cabling	0	3,000
Ground Straps - Condition	0	3,000
Heater Core, Hoses, Clamps	0	3,000
Horn - Operation	0	3,000
Hose Clamps	0	3,000
Instrument Lights	0	3,000
Interior Decals	0	3,000
Interior Lights	0	3,000
Interior Mirrors	0	3,000
Interior Molding	0	3,000
Interior Panels	0	3,000
Lift Barrier & Linkages	0	3,000
Lift Electrical Connections	0	3,000
Lift Hydraulic Hoses	0	3,000
LIFT INSPECTION - TYPE A FORM	0	36,000

200 SERIES GASOLINE

<i>Maintenance Service</i>	<i>Day Interval</i>	<i>Mi/Km/Hr Interval</i>
LIFT INSPECTION - TYPE B FORM	0	72,000
Lift Switches - Operation, Condition	0	3,000
Lug Nuts & Studs	0	3,000
Mirrors - Condition	0	3,000
PA System - Operation	0	3,000
Parking Brake - Condition, Operation	0	3,000
Passenger Doors	0	3,000
Passenger Seats	0	3,000
Plugs, wires, coil, etc. - check	0	24,000
Power Steering - Operation	0	3,000
Radiator Fluids - Condition	0	3,000
Radius, Lateral Rods, Torque Rods	0	3,000
Rear Axle Flange Nut Tightness	0	3,000
Rear Window - Condition	0	3,000
Remote Mirrors	0	3,000
Safety Equipment	0	3,000
Stanchions, Grab Rails	0	3,000
Steering Gear Box, Drive Shaft	0	3,000
Steering Wheel - Clean	0	3,000
Step Well Lights	0	3,000
Stop Lights	0	3,000
Tie Rod Ends - Condition	0	3,000
Tire Tread, Wear, Inflation - Conditon	0	3,000
Turn Signals - Dash & Exterior	0	3,000
Warning Signals	0	3,000
WC Seat Belts, Tie-Downs	0	3,000
Windows, Latches	0	3,000
Windshield Condition	0	3,000
Windshield Wiper - Condition	0	3,000
Windshield Wiper, Washer - Operation	0	3,000

Normal

12 Items

A/C Belts - Condition, Adjust	0	3,000
Batteries - Clean, Load Test	0	3,000
Battery Tray - Operation, Lube Rails	0	3,000
Brake Lining - Adjust	0	3,000
Control Switches - Operation	0	3,000
Front end alignment - perform	0	24,000
Heater & AC Filters - Clean	0	3,000
Lift General Condition - Cycle	0	3,000
Lube Chassis	0	3,000
Lube Doors	0	3,000

300 SERIES GASOLINE

<i>Maintenance Service</i>	<i>Day Interval</i>	<i>Mi/Km/Hr Interval</i>
Brake Pedal - Condition, Operation	0	3,000
Bumpers - Condition	0	3,000
Check Hydraulic Pump for Leaks	0	3,000
Dash Instruments	0	3,000
Defroster, Blowers - Operation	0	3,000
Drag Link - Conditon	0	3,000
Drive Shaft & U - Joints (incl AC)	0	3,000
Driver Air Vents	0	3,000
Driver Fan	0	3,000
Driver Seat/Belt - Condition, Operation	0	3,000
Electrical Wring - Wear	0	3,000
Emergency Hatches	0	3,000
Engine Belts - Tension, Condition	0	3,000
Engine Compartment Hoses & Lines	0	3,000
Engine Compartment Lights - Condition	0	3,000
Engine Fan Motor Mounting - Operation	0	3,000
Engine Operation - Noise	0	3,000
Evaporator Compartment Door	0	3,000
Exhaust System - Leaks, Condition	0	3,000
Exterior Lights - Operation	0	3,000
Exterior Marker Lights	0	3,000
Farebox	0	3,000
Fire Extinguisher	0	3,000
Floor Condition	0	3,000
Fourway Flashers	0	3,000
Front Wheel Hubs - Cap Tightness	0	3,000
Gear Selector - Condition, Operation	0	3,000
Generator Mounting & Cabling	0	3,000
Ground Straps - Condition	0	3,000
Heater Core, Hoses, Clamps	0	3,000
Horn - Operation	0	3,000
Hose Clamps	0	3,000
Instrument Lights	0	3,000
Interior Decals	0	3,000
Interior Lights	0	3,000
Interior Mirrors	0	3,000
Interior Molding	0	3,000
Interior Panels	0	3,000
Lift Barrier & Linkages	0	3,000
Lift Electrical Connections	0	3,000
Lift Hydraulic Hoses	0	3,000
LIFT INSPECTION - TYPE B FORM	0	72,000

300 SERIES GASOLINE

<i>Maintenance Service</i>	<i>Day Interval</i>	<i>Mi/Km/Hr Interval</i>
Lift Switches - Operation, Condition	0	3,000
Lug Nuts & Studs	0	3,000
Mirrors - Condition	0	3,000
PA System - Operation	0	3,000
Parking Brake - Condition, Operation	0	3,000
Passenger Counters - Condition	0	3,000
Passenger Doors	0	3,000
Passenger Seats	0	3,000
Passenger Stop Signal	0	3,000
Plugs, wires, coil, etc. - Check	0	24,000
Power Steering - Operation	0	3,000
Radiator Fluids - Condition	0	3,000
Radius, Lateral Rods, Torque Rods	0	3,000
Rear Axle Flange Nut Tightness	0	3,000
Rear Window - Condition	0	3,000
Remote Mirrors	0	3,000
Safety Equipment	0	3,000
Stanchions, Grab Rails	0	3,000
Steering Gear Box, Drive Shaft	0	3,000
Steering Wheel - Clean	0	3,000
Step Well Lights	0	3,000
Stop Lights	0	3,000
Tie Rod Ends - Condition	0	3,000
Tire Tread, Wear, Inflation - Conditon	0	3,000
Transfer Cutter - Condition	0	3,000
Turn Signals - Dash & Exterior	0	3,000
W/C Seat Belts & Tie-downs	0	3,000
Warning Signals	0	3,000
Windows & Latches	0	3,000
Windshield - Condition	0	3,000
Windshield Wiper - Condition	0	3,000
Windshield Wiper & Washer - Operation	0	3,000

Normal***13 Items***

A/C Belts - Condition, Adjust	0	3,000
Batteries - Clean, Load Test	0	3,000
Battery Tray - Operation, Lube Rails	0	3,000
Brake Lining - Adjust	0	3,000
Control Switches - Operation	0	3,000
Engine Air Intake Screens & Filters	0	3,000
Front end alignment - perform	0	24,000
Heater, A/C Filters - Clean	0	3,000

300 SERIES GASOLINE

<i>Maintenance Service</i>	<i>Day Interval</i>	<i>Mi/Km/Hr Interval</i>
Lift General Condition - Cycle	0	3,000
Lube Chassis	0	3,000
Lube Doors	0	3,000
Radiator & turbo coolers - clean	0	36,000
Repack Front Wheel Bearings	0	36,000
Other <i>5 Items</i>		
LIFT INSPECTION - TYPE A FORM	0	36,000
Road Test - Noises	0	3,000
Road Test - Pulling, Vibration	0	3,000
Road Test - Transmission - Operation	0	3,000
State Vehicle Inspection	366	0
Replace <i>8 Items</i>		
Change Engine Air Filters	0	9,000
Change Engine Oil Filters	0	3,000
Change Fuel Filters	0	18,000
Change Rear Axle Lubricant	0	36,000
Change Transmission Oil & Filter	0	36,000
Plug wires - replace	0	100,000
Replace PCV valve	0	18,000
Spark plugs - replace	0	100,000

700 SERIES DIESEL

<i>Maintenance Service</i>	<i>Day Interval</i>	<i>Mi/Km/Hr Interval</i>
Brake interlock operation	0	6,000
Brake pedal - Condition, operation	0	6,000
Bumpers - condition	0	6,000
Clean steering wheel	0	6,000
Dash instruments	0	6,000
Defroster, blowers - Operation	0	6,000
Destination signs	0	6,000
Drag link - conditon	0	6,000
Drive shaft & U-joints (incl AC)	0	6,000
Driver air vents	0	6,000
Driver fan	0	6,000
Driver seat - Condition, operation, belt	0	6,000
Electrical wiring inspection - wear	0	6,000
Emergency hatches	0	6,000
Engine belts - tension, condition	0	6,000
Engine compartment - lights, cond	0	6,000
Engine compartment hoses, lines	0	6,000
Engine fan motor, mounting, operation	0	6,000
Engine operation, noise	0	6,000
Exhaust system - leaks, condition	0	6,000
Exterior lights - Operation	0	6,000
Exterior marker lights	0	6,000
Farebox	0	6,000
Fire extinguisher	0	6,000
Floor condition	0	6,000
Fourway flashers	0	6,000
Front wheel hubs - cap tightness	0	6,000
Gear selector - Condition, operation	0	6,000
Ground straps condition	0	6,000
Heater core, hoses, clamps	0	6,000
Horn - Operation	0	6,000
Hose clamps	0	6,000
Instrument lights	0	6,000
Interior decals	0	6,000
Interior lights	0	6,000
Interior mirrors	0	6,000
Interior molding	0	6,000
Interior panels	0	6,000
King pins - condition	0	6,000
Lift adjustment-floor,pitch,weight,store	0	24,000
Lift barrier and linkages	0	6,000
Lift electrical connections	0	6,000

700 SERIES DIESEL

<i>Maintenance Service</i>	<i>Day Interval</i>	<i>Mi/Km/Hr Interval</i>
Lift hydraulic hoses	0	6,000
LIFT INSPECTION TYPE B FORM	0	72,000
Lift switches - operation & condition	0	6,000
Lug nuts and studs	0	6,000
Mirrors - condition	0	6,000
PA System - Operation	0	6,000
Parking brake - Condition, operation	0	6,000
Passenger Counters - Condition	0	6,000
Passenger doors	0	6,000
Passenger seats	0	6,000
Passenger stop signal	0	6,000
Power steering operation	0	6,000
Radiator - fluids, condition	0	6,000
Radius, lateral rods, torque rods	0	6,000
Rear axle flange nut tightness	0	6,000
Remote mirrors	0	6,000
Safety equipment	0	6,000
Security (camera) system	0	6,000
Stanchions, grab rails	0	6,000
Steering gear box, drive shaft	0	6,000
Step well lights	0	6,000
Stop lights	0	6,000
Tie rod ends - condition	0	6,000
Tire tread, wear, inflation, conditon	0	6,000
Transfer cutter - Condition	0	6,000
Turbo Charger	0	6,000
Turn signals - dash and exterior	0	6,000
Warning signals	0	6,000
WC seat belts, tie-downs	0	6,000
Windows, latches	0	6,000
Windshield condition	0	6,000
Windshield wiper condition	0	6,000
Windshield wiper, washer - operation	0	6,000

Normal

14 Items

AC Belts - Condition, adjust	0	6,000
Add Lucas injector cleaner	0	24,000
Batteries - Clean, load test	0	6,000
Battery tray - operation, lube rails	0	6,000
Brake lining, adjust	0	6,000
Control switches - operation	0	6,000
Engine air intake screens, filters	0	6,000

700 SERIES DIESEL

<i>Maintenance Service</i>	<i>Day Interval</i>	<i>Mi/Km/Hr Interval</i>
Front end alignment - perform	0	24,000
Heater, AC filters - clean	0	6,000
Lift - general condition - Cycle	0	6,000
Lube chassis	0	6,000
Lubricate doors	0	6,000
Radiator & turbo coolers - clean	180	0
Repack front wheel bearings	0	72,000
Other <i>6 Items</i>		
Engine shutdown test	0	6,000
LIFT INSPECTION - TYPE A FORM	0	36,000
Road test - noises	0	6,000
Road test - pulling, vibration	0	6,000
Road test - transmission operation	0	6,000
State Vehicle Inspection	366	0
Replace <i>5 Items</i>		
Change engine air filters	0	18,000
Change engine oil filters	0	6,000
Change fuel filters	0	6,000
Change rear axle lubricant	0	72,000
Change transmission oil & filter	0	24,000

800 SERIES DIESEL

<i>Maintenance Service</i>	<i>Day Interval</i>	<i>Mi/Km/Hr Interval</i>
Interior mirrors	0	6,000
Interior molding	0	6,000
Interior panels	0	6,000
King pins - condition	0	6,000
Lift barrier and linkages	0	6,000
Lift electrical connections	0	6,000
Lift hydraulic hoses	0	6,000
LIFT INSPECTION TYPE B FORM	0	72,000
Lift switches - operation & condition	0	6,000
Lug nuts and studs	0	6,000
Mirrors - condition	0	6,000
PA System - Operation	0	6,000
Parking brake - Condition, operation	0	6,000
Passenger Counters - Condition	0	6,000
Passenger doors	0	6,000
Passenger seats	0	6,000
Passenger stop signal	0	6,000
Power steering operation	0	6,000
Radiator - fluids, condition	0	6,000
Radius, lateral rods, torque rods	0	6,000
Rear axle flange nut tightness	0	6,000
Remote mirrors	0	6,000
Safety equipment	0	6,000
Security (camera) system	0	6,000
Stanchions, grab rails	0	6,000
Steering gear box, drive shaft	0	6,000
Step well lights	0	6,000
Stop lights	0	6,000
Tie rod ends - condition	0	6,000
Tire tread, wear, inflation, conditon	0	6,000
Transfer cutter - Condition	0	6,000
Turbo Charger	0	6,000
Turn signals - dash and exterior	0	6,000
Warning signals	0	6,000
WC seat belts, tie-downs	0	6,000
Windows, latches	0	6,000
Windshield condition	0	6,000
Windshield wiper condition	0	6,000
Windshield wiper, washer - operation	0	6,000
Normal	15 Items	
AC Belts - Condition, adjust	0	6,000

800 SERIES DIESEL

Maintenance Service	Day Interval	Mi/Km/Hr Interval
Add Lucas injector cleaner	0	24,000
Batteries - Clean, load test	0	6,000
Battery tray - operation, lube rails	0	6,000
Brake lining, adjust	0	6,000
Control switches - operation	0	6,000
Engine air intake screens, filters	0	6,000
Front end alignment - perform	0	24,000
Heater, AC filters - clean	0	6,000
Lift - general condition - Cycle	0	6,000
Lube chassis	0	6,000
Lubricate doors	0	6,000
Radiator & turbo coolers - clean	180	0
Repack front wheel bearings	0	72,000
Transmission modulator at accelerator	0	6,000
Other	6 Items	
Engine shutdown test	0	6,000
LIFT INSPECTION - TYPE A FORM	0	36,000
Road test - noises	0	6,000
Road test - pulling, vibration	0	6,000
Road test - transmission operation	0	6,000
State Vehicle Inspection	366	0
Replace	7 Items	
Brake pads - replace front pads	0	12,000
Brake pads - replace rear pads	0	12,000
Change engine air filters	0	18,000
Change engine oil filters	0	6,000
Change fuel filters	0	6,000
Change rear axle lubricant	0	72,000
Change transmission oil & filter	0	24,000

900 SERIES DIESEL

<i>Maintenance Service</i>	<i>Day Interval</i>	<i>Mi/Km/Hr Interval</i>
Interior Molding	0	6,000
Interior Panels	0	6,000
King Pins - Condition	0	6,000
Kneeling System - Operation	0	6,000
Leveling Valves - Leaks, Condition	0	6,000
Lift Barrier & Linkages	0	6,000
Lift Electrical Connections	0	6,000
Lift Hydraulic Hoses	0	6,000
LIFT INSPECTION - TYPE B FORM	0	72,000
Lift Switches - Operation & Condition	0	6,000
Lug Nuts & Studs	0	6,000
Mirrors - Condition	0	6,000
PA System - Operation	0	6,000
Parking Brake - Condition, Operation	0	6,000
Passenger Counters - Condition	0	6,000
Passenger Doors	0	6,000
Passenger Seats	0	6,000
Passenger Stop Signal	0	6,000
Power Steering - Operation	0	6,000
Radiator - Fluids, Condition	0	6,000
Radius, Lateral Rods, Torque Rods	0	6,000
Rear Axle - Flange Nut Tightness	0	6,000
Remote Mirrors	0	6,000
Safety Equipment	0	6,000
Stanchions, Grab Rails	0	6,000
Steering Gear Box, Drive Shaft	0	6,000
Step Well Lights	0	6,000
Stop Lights	0	6,000
Tie Rod Ends - Condition	0	6,000
Tire Tread, Wear, Inflation, Condition	0	6,000
Transfer Cutter - Condition	0	6,000
Turbo Charger	0	6,000
Turn Signals - Dash & Exterior	0	6,000
Warning Signals	0	6,000
WC Seat Belts, Tie-Downs	0	6,000
Windows - Latches	0	6,000
Windshield - Condition	0	6,000
Windshield Wiper - Condition	0	6,000
Windshield Wiper & Washer - Operation	0	6,000

Normal**16 Items**

AC Belts - Condition, Adjust	0	6,000
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900 SERIES DIESEL

<i>Maintenance Service</i>	<i>Day Interval</i>	<i>Mi/Km/Hr Interval</i>
Add Lucas injector cleaner	0	24,000
Air Ride Height - Adjust	0	6,000
Air Tanks - Mounting, Condition, Drain	0	6,000
Batteries - Clean, Load, Test	0	6,000
Battery Tray - Operation, Lube Rails	0	6,000
Brake Lining - Adjust	0	6,000
Control Switches - Operation	0	6,000
Engine Air Intake Screens, Filters	0	6,000
Front end alignment - perform	0	24,000
Heater & AC Filters - Clean	0	6,000
Lift General Condition - Cycle	0	6,000
Lube Chassis	0	6,000
Lube Doors	0	6,000
Radiator & turbo coolers - clean	180	0
Repack Front Wheel Bearings	0	72,000
Other	6 Items	
Engine Shutdown Test	0	6,000
LIFT INSPECTION - TYPE A FORM	0	36,000
Road Test - Noises	0	6,000
Road Test - Pulling, Vibration	0	6,000
Road Test - Transmission Operation	0	6,000
State Vehicle Inspection	366	0
Replace	7 Items	
Change Engine Air Filters	0	3,000
Change Engine Oil Filters	0	6,000
Change Fuel Filters	0	6,000
Change Hydraulic Filter	0	6,000
Change Rear Axle Lubricant	0	72,000
Change Transmission Oil & Filter	0	24,000
Change Water Filters (Check DLA First)	0	6,000

Maintenance Schedule Report

GOSHEN - LPG

Maintenance Service	Day Interval	Mi/Km/Hr Interval
Fluids 1 Items		
Lift - Hydraulic pump, full & no leaks	0	6,000
Inspection 82 Items		
Back up alarm operation	0	6,000
Battery connections - inspect & clean	180	0
Battery hold down clamps	0	12,000
Brakes - full inspection	0	6,000
Bumper mounting bolts and brackets	0	30,000
Change green engine coolant if needed	0	48,000
Clearance and ID lights	0	6,000
Compartment & access doors	0	6,000
Contents of first aid and flare kit	0	6,000
Cooling system fluid level, strength	180	0
Door lower pins condition	0	6,000
Door operation - all doors	0	6,000
Door panel alignment	0	6,000
Door seals condition	0	6,000
Drive belts - replace if needed	0	102,000
Driver seat and belt operation	0	6,000
Driveshaft and ball joints	0	18,000
Emergency exit operation	0	12,000
Engine cooling system & hoses	0	18,000
Exhaust shield beside propane tank	0	6,000
Exhaust system and heat shields	0	30,000
Fender and mud flap condition, tightness	0	12,000
Fire extinguisher - charge	0	6,000
Floor coverings condition	0	6,000
Fluid levels checks - all fluids	0	6,000
Grab rails & stanchions condition	0	12,000
HVAC operation	0	6,000
Interior loose, rattles, squeaks	0	6,000
Interior mirrors - damage and tightness	0	6,000
Interior trim - damage check	0	12,000
Lap/shoulder belts wear & function	180	0
Lift - Arm pins - Damage, locked	0	6,000
Lift - Bridgeplate flat on baseplate	0	6,000
Lift - Bridgeplate full deployment	0	6,000
Lift - Bridgeplate operation	0	6,000

GOSHEN - LPG

<i>Maintenance Service</i>	<i>Day Interval</i>	<i>Mi/Km/Hr Interval</i>
Lift - Check for movement, no binding	0	6,000
Lift - Check movement - no wobbling	0	6,000
Lift - Control box and connectors okay	0	6,000
Lift - Fittings are all tight	365	0
Lift - Handrail fasteners - tightness	0	6,000
Lift - handrail fasteners tight	180	0
Lift - Hydraulic check for leaks	365	0
Lift - Hydraulic hoses for damage	365	0
Lift - Hydraulic manual valve operation	0	6,000
Lift - Inspect decals for condition	0	6,000
Lift - Inspect electrical wiring	0	6,000
Lift - Inspect underside of lift	0	6,000
Lift - Mounting and support bolts okay	0	6,000
Lift - Mounting bolts properly tight	0	6,000
Lift - Proper operation of NON-INTERLOCK	0	6,000
Lift - Rollstop operates properly	0	6,000
LIFT INSPECTION TYPE B FORM	0	72,000
Lift- listen for abnormal noises	0	6,000
Lift operation proper	0	6,000
Lights - interior and exterior	0	6,000
LPG tanks - inspect tanks	1825	0
Mirror condition - brackets	0	6,000
Modesty panel condition, bolts	0	12,000
Parking brake - proper operation	180	0
Passenger seat and belt operation	0	6,000
Power steering fluid level	180	0
Record any body damage, scratches	0	6,000
Roof hatch operation - leaks	0	6,000
Seat mount tightness for passenger seats	0	12,000
Seat mounting tightness for driver seat	0	12,000
Spare tire air pressure	180	0
Spare tire mounted and tight	0	6,000
Spark plugs - replace if needed	0	60,000
Steering linkage and suspension	0	6,000
Step treads in doorways	0	6,000
Tires for condition and wear	0	6,000
Transmission fluid - Inspect	0	18,000
Transmission fluid - replace if needed	0	30,000
Warning lamps operation - ABS, etc	180	0
WC securement devices	0	6,000
Welds for bulkheads, body frames	0	12,000
Welds for frames, outriggers, suspension	0	12,000

GOSHEN - LPG

<i>Maintenance Service</i>	<i>Day Interval</i>	<i>Mi/Km/Hr Interval</i>
Wheel ends - endplay & noise	0	18,000
Window operations, and emergency exits	0	6,000
Windshield washer reservoir	0	6,000
Windshield wiper operation, condition	0	6,000
Wiper & washer condition	180	0
Normal <i>9 Items</i>		
Drain holes - clean for body & doors	180	0
Lift - Clean lift and wipe dry	180	0
Lift - Coat surfaces with rust inhibitor	180	0
Lift - Penetrating oil as specified	180	0
Lube door rubber weatherstrips	180	0
Lube hinges, latches, locks	180	0
Radiator & turbo coolers - clean	180	0
Tires - inspect and rotate	0	6,000
Windshield wiper pivot lubrication	0	6,000
Other <i>2 Items</i>		
LIFT INSPECTION - TYPE A FORM	0	36,000
State Vehicle Inspection	366	0
Replace <i>7 Items</i>		
Change oil in lift pump	0	12,000
Engine air filter - replace	0	30,000
Exterior seams for caulk condition	0	6,000
Fuel filter - replace	0	12,000
Oil and filter - change	0	6,000
PCV valve - replace	0	102,000
Rear axle lubricant change	0	102,000

K TRANSMARK

Maintenance Service	Day Interval	Mi/Km/Hr Interval
Inspect fan hub/leaks,noise	90	3,000
Inspect lines for chafing	90	3,000
Inspect steering box for leaks	90	3,000
Lifts <i>7 Items</i>		
Barriers, linkages	180	6,000
Lift electrical connections	180	6,000
Lift hydraulic hoses, operation	180	6,000
LIFT INSPECTION - TYPE A FORM	548	36,000
LIFT INSPECTION - TYPE B FORM	1095	72,000
Lift switches- Operation & Condition	180	6,000
Wheelchair seats, tie-downs	180	6,000
Other <i>4 Items</i>		
Road test - listen for noises	90	3,000
Road Test - Transmission Operation	90	3,000
Road test- Pulling, vibration	90	3,000
State Vehicle Inspection	365	0
Steering <i>15 Items</i>		
Check fluid level	90	3,000
Check king pin knuckle assmbly	90	3,000
Check tie rod assembly	90	3,000
Clean steering wheel	90	3,000
Drag link arm / Pittman arm	90	3,000
Inspect freeplay	90	3,000
Inspect steering column, shaft	90	3,000
Lube king pins	90	3,000
Lube prop shaft slip joint	90	3,000
Lube steering column u-joint	90	3,000
Lube steering drag link	90	3,000
Lube steering gear box	90	3,000
Lube tie rod ends	90	3,000
Oil & filter change	365	24,000
Turn angle - check & adjust	365	24,000
Transmission <i>11 Items</i>		
Change external filter (if applies)	180	6,000
Check PCM for active codes	90	3,000
Check retarder operation	90	3,000
Check tranny fluid level	90	3,000
Gear selector - condition, operation	180	6,000
Inspect for fluid leaks	90	3,000

KILLEEN TRANSMARKS

<i>Maintenance Service</i>	<i>Day Interval</i>	<i>Mi/Km/Hr Interval</i>
Check Air Dryer - Operation	0	6,000
Check Air Loss	0	6,000
Check or change Engine Air Filters	0	3,000
Clean Steering Wheel	0	6,000
Dash Instruments	0	6,000
Defroster, Blowers - Operation	0	6,000
Destination Signs	0	6,000
Drive Shaft & U - Joints (Including AC)	0	6,000
Driver Air Vents	0	6,000
Driver Fan	0	6,000
Driver Seat - Condition, Operation, Belt	0	6,000
Electrical Wiring - Wear	0	6,000
Emergency Hatches	0	6,000
Engine Belts - Tension, Condition	0	6,000
Engine Compartment - Hoses, Lines	0	6,000
Engine Compartment - Lights, Condition	0	6,000
Engine Fan Motor - Mounting, Operation	0	6,000
Engine Operation - Noise	0	6,000
Evaporator Compartment Door	0	6,000
Exhaust System - Leaks, Condition	0	6,000
Exterior Lights - Operation	0	6,000
Exterior Marker Lights	0	6,000
Farebox	0	6,000
Fire Extinguisher	0	6,000
Floor Condition	0	6,000
Fourway Flashers	0	6,000
Front Wheel Hubs - Cap Tightness	0	6,000
Gear Selector - Condition, Operation	0	6,000
Generator Mounting & Cabling	0	6,000
Ground Straps - Condition	0	6,000
Heater Core, Hoses, Clamps	0	6,000
Horn - Operation	0	6,000
Hose Clamps	0	6,000
Instrument Lights	0	6,000
Interior Decals	0	6,000
Interior Lights	0	6,000
Interior Mirrors	0	6,000
Interior Molding	0	6,000
Interior Panels	0	6,000
Kneeling System - Operation	0	6,000
Leveling Valves - Leaks, Condition	0	6,000
Lift Barrier & Linkages	0	6,000

KILLEEN TRANSMARKS

<i>Maintenance Service</i>	<i>Day Interval</i>	<i>Mi/Km/Hr Interval</i>
Lift Electrical Connections	0	6,000
Lift Hydraulic Hoses	0	6,000
LIFT INSPECTION - TYPE B FORM	0	72,000
Lift Switches - Operation & Condition	0	6,000
Lug Nuts & Studs	0	6,000
Mirrors - Condition	0	6,000
OEM - air throttle control assembly	90	3,000
OEM - check coolant system hoses/clamps	90	3,000
OEM - Check Hydraulic Pump for Leaks	90	3,000
OEM - Check steering box for leaks	90	3,000
OEM - Inspect air cleaner body	90	3,000
OEM - Inspect air intake restriction	90	3,000
OEM - Inspect coolant system for leaks	90	3,000
OEM - Inspect engine mounts	180	6,000
OEM - Inspect fuel system for leaks	90	3,000
OEM - Inspect fuel tank mounting straps	90	3,000
OEM - Inspect mounts (coolant system)	180	6,000
OEM - Inspect tensioner	90	3,000
OEM - Inspect turbocharger intake piping	90	3,000
OEM - Inspect vibration damper	180	6,000
OEM - Inspect water circulation pump	90	3,000
OEM - Inspect water pump for wear, leaks	180	6,000
OEM -Clean or replace crankcase breather	180	6,000
OEM -Inspect hydraulic lines for chafing	90	3,000
OEM-AC Accum/Lines - Check for Leaks	180	6,000
OEM-AC Hoses - Check for Leaks	180	6,000
OEM-Axles- check suspension u-bolts	90	3,000
OEM-Clean A/C intake airfilters	180	6,000
OEM-Inspect hyd fan hub leaks,noise,run	90	3,000
OEM-King pin knuckle assy-inspect	90	3,000
OEM-steering drag link arm/Pittman	90	3,000
OEM-Steering wheel column/shaft	90	3,000
OEM-Tie Rod Ends - Condition	90	3,000
OEM-Turn angle - check & adjust	365	24,000
PA System - Operation	0	6,000
Parking Brake - Condition, Operation	0	6,000
Passenger Counters - Condition	0	6,000
Passenger Doors	0	6,000
Passenger Seats	0	6,000
Passenger Stop Signal	0	6,000
Power Steering - Operation	90	3,000
Radiator - Fluids, Condition	180	6,000

KILLEEN TRANSMARKS

<i>Maintenance Service</i>	<i>Day Interval</i>	<i>Mi/Km/Hr Interval</i>
Radius, Lateral Rods, Torque Rods	0	6,000
Rear Axle - Flange Nut Tightness	0	6,000
Remote Mirrors	0	6,000
Safety Equipment	0	6,000
Stanchions, Grab Rails	0	6,000
Step Well Lights	0	6,000
Stop Lights	0	6,000
Tire Tread, Wear, Inflation, Conditon	0	6,000
Transfer Cutter - Condition	0	6,000
Turbo Charger	0	6,000
Turn Signals - Dash & Exterior	0	6,000
Warning Signals	0	6,000
WC Seat Belts, Tie-Downs	0	6,000
Windows - Latches	0	6,000
Windshield - Condition	0	6,000
Windshield Wiper - Condition	0	6,000
Windshield Wiper & Washer - Operation	0	6,000
Normal	23 Items	
AC Belts - Condition, Adjust	0	6,000
Air Ride Height - Adjust	0	6,000
Air Tanks - Mounting, Condition, Drain	0	6,000
Batteries - Clean, Load, Test	0	6,000
Battery Tray - Operation, Lube Rails	0	6,000
Brake Lining - Adjust	0	6,000
Control Switches - Operation	0	6,000
Engine Air Intake Screens, Filters	0	6,000
Front end alignment - perform	0	24,000
Heater & AC Filters - Clean	0	6,000
Lift General Condition - Cycle	0	6,000
Lube Chassis	0	6,000
Lube Doors	0	6,000
OEM - Check engine governed speed	90	3,000
OEM - Check engine idle speed	90	3,000
OEM - Check for active codes	180	6,000
OEM - Inspect directdrive fan components	90	3,000
OEM - Pressure test coolant system	90	3,000
OEM -Drain condensation from water sep	90	3,000
OEM-King Pins-Lube & check	90	3,000
OEM-Lube Steering Gear Box	90	3,000
Radiator & turbo coolers - clean	180	0
Repack Front Wheel Bearings	0	72,000

KILLEEN TRANSMARKS

<i>Maintenance Service</i>	<i>Day Interval</i>	<i>Mi/Km/Hr Interval</i>
Other <i>7 Items</i>		
Engine Shutdown Test	0	6,000
LIFT INSPECTION - TYPE A FORM	0	36,000
OEM - Inspect & clean engine compartment	365	24,000
Road Test - Noises	0	6,000
Road Test - Pulling, Vibration	0	6,000
Road Test - Transmission Operation	0	6,000
State Vehicle Inspection	366	0
Replace <i>7 Items</i>		
Change Fuel/Water Separator Filters	180	6,000
Change Hydraulic Filter	0	6,000
OEM - Change coolant filter	365	24,000
OEM - Change Engine Oil Filters	180	6,000
OEM - Change Fuel Filters	180	6,000
OEM - Change Rear Axle Lubricant	365	24,000
OEM-Change Transmission Oil & Filter	365	24,000

T TRANSMARK

Maintenance Service	Day Interval	Mi/Km/Hr Interval
Inspect fan hub/leaks,noise	180	6,000
Inspect lines for chafing	180	6,000
Inspect steering box for leaks	180	6,000
Lifts <i>7 Items</i>		
Barriers, linkages	180	6,000
Lift electrical connections	180	6,000
Lift hydraulic hoses, operation	180	6,000
LIFT INSPECTION - TYPE A FORM	548	36,000
LIFT INSPECTION - TYPE B FORM	1095	72,000
Lift switches- Operation & Condition	180	6,000
Wheelchair seats, tie-downs	180	6,000
Other <i>4 Items</i>		
Road test - listen for noises	180	6,000
Road Test - Transmission Operation	180	6,000
Road test- Pulling, vibration	180	6,000
State Vehicle Inspection	365	0
Steering <i>15 Items</i>		
Check fluid level	180	6,000
Check king pin knuckle assmbly	180	6,000
Check tie rod assembly	180	6,000
Clean steering wheel	180	6,000
Drag link arm / Pittman arm	180	6,000
Inspect freeplay	180	6,000
Inspect steering column, shaft	180	6,000
Lube king pins	180	6,000
Lube prop shaft slip joint	180	6,000
Lube steering column u-joint	180	6,000
Lube steering drag link	180	6,000
Lube steering gear box	180	6,000
Lube tie rod ends	180	6,000
Oil & filter change	365	24,000
Turn angle - check & adjust	365	24,000
Transmission <i>13 Items</i>		
Change external filter (if applies)	180	6,000
Check PCM for active codes	180	6,000
Check retarder operation	180	6,000
Check tranny fluid level	180	6,000
Gear selector - condition, operation	180	6,000
Inspect for fluid leaks	180	6,000

Preventative Lift Maintenance Schedule

02
 Date: _____
 Vehicle: _____ W/O # _____
 Mechanic: _____ Mileage _____

Code: - OK
 N/A - Not applicable
 X - Repaired, Adjusted

I t e m	LEVEL A	LEVEL B
Cycle Lift		
Test Safety Features		
A. Lift cycled properly with no detected defects		
Inspect Handrails for		
A. Structural Integrity		
B. Bolts Secured		
C. Cracks in the Tubing		
Inspect Roll Stops (Outer)		
A. Structural Integrity of Barrier		
B. Barrier Angle		
C. Pivot Points for Damage or Wear		
Inspect Roll Stop (Inner)		
A. Structural Integrity of Barrier		
B. Barrier Angle		
C. Pivot Points for Damage or Wear		
Inspect Hydraulic Hose/Electrical Cable Bundle		
A. Proper Routing		
B. Leaks (Hoses)		
C. Chafing		
Inspect Stow /Deploy Limit Switch		
A. Stow Switch must Activate 1/2 inch Before Fully Stowed		
B. Deploy Switch must Activate 1/2 inch Before Fully Deployed		
C. Loose Limit Switch Arm		
Inspect Hydraulic Power Source		
A. Fluid Level		
B. Check rams for fluid leaks		
C. Check manual operation		
D. Check hoses and fittings for leaks		
Inspect Lift Mounting Bolts		
<i>Note: Refer to Bus Manufacturers Torque Specifications</i>		
Manual Operation of Hydraulic System		
A. Stow		
B. Deploy		
C. Raise		
D. Lower		
E. Inside Barrier Up		
F. Inside Barrier Down		
G. Outside Barrier Up		
H. Outside Barrier Down		
Inspect For "Manual Operating Procedure" Decal		
Inspect For "Manual Operating Procedure" Decal Sticker		
Inspect Main Lift Cylinders, Forward / Rear		
A. Cylinder Clevis Pins Must Be Free of Rust And Corrosion And Must Move Freely		
B. Cylinder Clevis Pin Keepers		
C. Jam Nut Must Be Tight Against Cylinder Rod		
D. Minimum Thread Engagement of 1 inch of Tumbuckle Bolts		
Inspect All Fasteners For Torque		
Inspect Push-Off Springs		
<i>Note: Replace Springs Every 6 Years or 8,000 Cycles</i>		

Level A every 36000 miles

Level B every 72,000 miles

