CyRide

Ames Transit Agency

Revised June 2011

Vehicle Maintenance Plan



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I. Organizational Structure

CyRide operations and maintenance is governed by the Ames Transit Agency. The Transit Agency is an administrative agency of the City of Ames, Iowa established pursuant to Chapter 392, Code of Iowa, 1979. The purpose of the agency is the establishment, acquisition, operation, management, control and governance of transit services in and for the City of Ames.

II. Vehicle Maintenance Plan Objective

The objective of the CyRide Vehicle Maintenance Plan is to optimize the value of the funded dollar while protecting stakeholder investment. The primary goals of the plan are:

- Maintain vehicles in safe operating condition.
- Ensure each vehicle is operating at peak efficiency.
- Maximize vehicle life.
- Minimize vehicle service failures (road calls).
- Minimize loss of accessibility due to equipment failure.
- Meet or exceed manufacturers' maintenance requirements.
- Maintain vehicle exterior and interior appearance.
- Maintain a system of permanent vehicle maintenance records.
- Adhere to a strict preventive maintenance schedule.
- Administer an aggressive equipment warranty recovery program.

CyRide, along with the City of Ames, subscribes to a philosophy of continuous improvement. The Vehicle Maintenance Plan and the procedures detailed in it will be subject to constant review and improvement. The plan will also be updated as the mix of rolling stock equipment changes

III. Vehicle Inspection Procedures

The preventive maintenance program at CyRide consists of daily inspections and mileage based inspections.

Daily Inspections

A. Pre-Service Inspection (M-F)

The general operating condition of each vehicle is checked before being placed in service through the following two procedures on weekdays:

Morning Laneworker Inspection: While charging bus air systems with the building's air supply, the morning laneworker visually inspects the tires and exterior condition of the bus. The floor around the bus is checked for fluid leaks. Problems are reported immediately to the lead mechanic for evaluation.

Fleet Status Board: The lead mechanic verifies vehicles are ready for service by checking this board in the dispatch office before pullout.

B. Driver Pre-Trip Inspection

Every day of the week, drivers perform a pre-trip inspection prior to the start of their shift. Wheelchair lifts are cycled at pullout and at intervals throughout the day. Problems are reported immediately to the dispatcher. If a problem may affect safety, service, accessibility or cause further component damage, the vehicle is removed from service.

C. Maintenance Cards

The reporting of mechanical problems to the maintenance staff from drivers and operations supervisors is accomplished through a Maintenance Card. All mechanical problems identified during the pre-trip inspection or driving shifts are recorded by the driver or dispatcher on a Maintenance Card. The Maintenance Card specifically identifies the bus, the problem, and the time identified. The Maintenance Card is forwarded to the either the lead mechanic or the senior mechanic on duty for repair coordination. Upon completion of repairs, a copy of the card with the repairs performed is returned to the driver. The Maintenance Coordinator reviews a sampling of the cards on a monthly basis.

D. Service Lane Inspection

Vehicles are serviced at the end of each day. During the servicing process, the following maintenance procedures are followed:

Tires visually checked.

Fuel tank filled.

Interior swept and cleaned.

Exterior washed as needed.

Engine belts and general engine condition checked.

Motor oil, transmission fluid, coolant, and diesel exhaust fluid (DEF) checked.

Exterior lights checked – bulbs replaced.

Interior checked – seats, windows, lights, etc.

Preventive Maintenance Inspections

CyRide has a diverse fleet of vehicles spanning several model years. This diversity requires different approaches to maintenance scheduling. There are three main schedules.

- 1. Older vehicles that acquire less then 10,000 miles per year are scheduled by time based intervals. Some vehicles are based on 4 month time intervals with a yearly heavy inspection. The remaining with little usage are based on a 6 month interval with a yearly heavy inspection.
- **2.** Large buses older then model year 1995 are scheduled on a 2,500 mile cycle. There are four levels of preventive maintenance, (A) 2,500 miles; (B) 5,000 miles; (C) 10,000 miles; and (D) 20, 000 miles. The preventive maintenance schedule is A, B, A, C, A, B, A, D and then it repeats in that cycle.
- **3.** Large buses newer then model year 1996 are scheduled on a 5,000 mile cycle. There are 3 levels of inspections, (A) 5,000 miles, (B) 10,000 miles, and (C) 20,000 miles. The preventative maintenance schedule is A, B, A, C and continues repeating. Additional Maintenance may be performed seasonally as needed such as; washing out radiators in fall, rinsing salt off W/C lifts and radiators in winter, and other seasonal factors.

For diesel mini buses (Ford E series), the intervals are (A) 3,000 miles; (B) 6,000 miles; (C) 12,000 miles; and (D) 24,000 miles. The preventative maintenance schedule is A, B, A, C, A, B, A, D and then repeats in that cycle.

For gasoline mini buses (Ford E series), the intervals are (A) 5,000 miles; (B) 15,000 miles; (C) 30,000 miles; (D) 50,000 miles; (E) 60,000 miles. The preventative maintenance schedule is A, A, B, A, A, C, A, A, B, D, A, E and then repeats the cycle.

Preventive maintenance inspections are to be performed on time. CyRide defines an on-time inspection as being within (+/-)10 percent of schedule. A list of items inspected at the above intervals can be found on the inspection sheets in the appendix.

The mechanic assistant performing the inspection will repair minor defects at the end of the inspection. This includes minor Maintenance Card repairs deferred until inspection. Repairs that can't be completed in the allotted inspection time are reported to the lead mechanic or Maintenance Coordinator. Generally, any remaining repairs are assigned and completed by another mechanic. If parts are not available and the defect is not safety sensitive, the bus will be released for service and scheduled for repairs at a later date.

Brake and tire wear are recorded on a spreadsheet. Repairs are scheduled when wear reaches a predetermined level. CyRide's tire replacement policy follows DOT regulations. Steer tires are replaced at 4/32-tread depth and drive tires are replaced at 2/32-tread depth. Brake linings are replaced when linings reach a point between ¼ of their original usable thickness and the minimum thickness allowed by the lining manufacturer. Linings are also replaced when excessive noise is noted during brake application.

Deep interior cleanings will be done during the periods of the year when service is drastically cut; full bus cleanings may be done at other times on a case by case basis as deemed necessary by shop personnel. Buses will be cleaned based on availability and time since last deep cleaning.

IV. Reactive Vehicle Maintenance

All other vehicle maintenance is performed in response to detected problems. Reactive maintenance cannot be eliminated and is often a function of vehicle miles, fleet age, and preventive maintenance intervals. It is the intent of this maintenance program to minimize this type of maintenance – including road calls. Constantly reviewing and improving upon the existing Vehicle Maintenance Plan will accomplish this.

The reactive vehicle maintenance policy is as follows:

- All problems are to be reported, no matter how minor.
- The supervisor, dispatcher, lead mechanic or senior mechanic on duty / on call shall make an immediate determination whether the vehicle should be removed from service.
- Failures of accessibility equipment shall require prompt resolution. An alternate vehicle or immediate repair will be provided.
- The driver or dispatcher records all detected problems on a Maintenance Card.
- All repairs are documented on the Maintenance Card, mechanic's time card, and Collective Data maintenance software.

V. Documentation and Evaluation of Vehicle Maintenance

Documentation and evaluation of vehicle maintenance activities are the primary means for the maintenance program to attain its goals. CyRide utilizes the following documentation in its maintenance program:

- Collective Data Maintenance Software: Vehicle repair information is transferred from employee timecards to work orders on the Collective Data system. A log of repairs segregated by unit number can be retrieved from the program.
- 2. *Maintenance Card:* As outlined previously, this form is used to report any mechanical problems to the maintenance staff.
- 3. Oil Analysis Report: Oil sampling is done every 5,000 miles on large buses and every 6,000 miles on minibuses. The lead mechanic and/or the Maintenance Coordinator review these reports to determine if there are any problems with the engine.
- 4. Parts Log: A log of the parts used in repairing buses is kept in the parts room.
- 5. Daily Commodities Usage: Petrovend software records daily mileages along with fuel and fluids consumption. This data is also exported to the Collective Data Maintenance software to track fuel and fluid use.
- 6. Road Call Log: The Dispatch office keeps track of all Road Calls, it is also kept track of in Collective Data.
- 7. *Inspection Schedule:* The Maintenance Coordinator monitors and schedules preventive maintenance inspections via spreadsheet and Collective Data.

VI. Vehicle Accessibility Equipment

In order to maintain service availability to persons with disabilities, the following procedures are followed:

- 1. Pre-trip cycling of wheelchair lifts and inspection of securement stations at bus pull out and at intervals dictated by Operations throughout the day.
- 2. Vehicles experiencing equipment failures are removed from service and repaired as soon as possible.
- 3. Replacement of wheelchair lifts occurs when the unit cannot be repaired.
- 4. Equipment maintenance and inspection is incorporated into preventive maintenance inspection procedures.

Appendix

2,500 MILE INSPECTION

Bus No	Odometer Miles:		
	Previous Miles: Actual Miles:		Symbol Definition: / O.K.
	, totaal milos.		X ADJUSTED
PICK UP ALL MAINT	ENANCE CARDS		O REPAIRS NEEDED
Chack drivers' d	INTER oor, entrance & exit door & operation - when	IOR INSPECTION	
	·		
Check door sen	sitive edges & step treadles - when applical	ole	
Inspect drivers'	foot box area. Clean if necessary		
Visually inspect	interior for damage, loose or missing equipment of the state of the st	nent, cleanliness & overa	Il appearance
Inspect Heater/	A/C filter. Change if necessary		
Check wheelch	air lift operation		
		RIOR INSPECTION	
Check all exterion	or lamp operation		
Check fluid level	s. Add if necessary		
Engine Oil			
Transmission Flu	uid		
Coolant			
Washer Fluid			
Power Steering/	Hydraulic Fluid		
Brake Fluid (Mini	-Buses)		
Hub Oil Level - W	/hen applicable		
Visually inspect	engine compartment		
Check & adjust t	ire pressure. Visually inspect tires for damag	je.	
	or signs of looseness & tighten if needed under chassis for loose ∨ damaged parts		
Check brake adj	ustment & visually inspect brake component	s	
Drain wet air tan	k on buses with air systems		
Drain blower box	c catch tank - When applicable		
Wash radiator, A	VC condenser, battery box, engine compartr	nent & wheelchair lift plat	form
Torque all lug nu	uts (450 ft lbs - 500 ft lbs)		
Torque all lug nu	ats on Service Vehicles to mfg specs.		

FILL OUT & RETURN ALL MAINTENANCE CARDS W/INSPECTION SHEET

____Check 1st Aid Kit & Accident Pkt - Restock drivers' cabinet

GILLIG & ORION INSPECTION 5,000 10,000 20,000 40,000

ıs No	Odometer Miles:	Date_				
	Previous Miles:		efinition:			
	Actual Miles:		O.K.			
	Last Oil Change:	X	ADJUSTED			
	Miles on Sample:		REPAIRS N	EEDED		
UPDATE COM	IPUTER AND DBS					
PICKUP AND	RETURN MAINTENANCE CARDS					
	DRIVERS' AREA	P	ASSENGER A	AREA		<u> </u>
FREE PLAY IN	STEERING WHEEL	SEAT FRAMES & CO	OVERINGS FO	R DEFECTS	S	
STEERING TILT	MECHANISM	GENERAL INTERIOR	R CONDITION -	- PAINT, PA	NELS,	, ETC
HORN OPERAT	TON	ENTRANCE & EXIT I	DOOR OPERA	TION		
DRIVERS' SEAT	T & SEAT BELT OPERATION	DOOR AIR MOTORS	FOR LEAKS,	ETC.		
SERVICE BRAH	KE & ACCELERATOR PEDAL OPERATION	LIMIT SWITCHES MO	OUNTING & OF	PERATION		
SPRING BRAKE	OPERATION - CHECK CONTROL KNOB	BODE DOOR SPRIN	IGS - WHEN A	PPLICABLE	Ξ	
CONDITION & FOR	EXCESSIVE AIR LEAKAGE	EXIT DOOR STEP TI	READLES & SE	ENSITIVE E	DGES	
	R CONTROL & INTERLOCK OPERATION	ENTRANCE / EXIT	STEP WELLS I	FOR LOOS	E COV	ERINGS
	VERRIDE SWITCH OPERATION	LAMP OPERATION				
	RRORS & CHECK FOR MIRROR TOOLS	"GREEN" LAMP OPE			3 AUTH	ORIZED
ALL INSTRUME DIMMING	NT PANEL GAUGES - OPERATION &	STANCHION & GRAI	B RAILS FOR L	DEFECTS		
ILLUMINATOR L	LAMPS - OPERATION & DIMMING	FLOOR COVERING	FOR LOOSEN	ESS & DEF	ECTS	
AIR COMPRESS	SOR OPERATION : CUT-IN/OUT PRESSURES	PASSENGER CHIME	E & PULL CORI	DS		
INSTRUMENT F	PANEL INDICATOR & WARNING LAMP	SIDE DESTINATION	SIGN & LAMP	OPERATIO	N	
	FOR PAD & BUTTON OPERATION	WINDOWS, LATCHE	S & OPERATION	NC		
MASTER SWITC	CH OPERATION	EMERGENCY EXIT	OPERATION			
EMERGENCY E	NGINE SHUTDOWN - WHEN APPLICABLE					
HEADLIGHT & D	DIMMER SWITCH OP – CHECK AIM	REPLACE A/C EVAP	PORATOR FILT	ER		
WINDSHIELD W	/IPER/WASHER OPERATION	INSPECT HEATER F	FILTER -REPLA	ACE IF NEE	EDED	
FOOT MOUNTE	D TURN SIGNAL SWITCH OPERATION	CHECK HEATER CC	RES FOR LEA	KAGE & M	TG	
HAZARD/4-WAY	Y SWITCH OPERATION	CHECK A/C EVAPO	RATOR -CLEA	N IF NECE	SSARY	(
RADIO OPERAT	FION & MTG					
PA SYSTEM OF	PERATION & MTG	CLEAN STEERING V	WHEEL AND DI	RIVERS DA	\SH	
DRIVERS' SIDE	WINDOW OPERATION	MOP FLOOR DURIN	NG WINTER MO	ONTHS		
FRONT DESTIN	IATION SIGN & LIGHT OPERATION	INSPECT SEATS FO	OR CLEANLINE	ESS - CLEA	N IF D	IRTY
DRIVERS' HEA	TER/ A/C CONTROLS & FAN OPERATION	INSPECT INTERIOR	FOR CLEANLE	NESS -CL	EAN IF	DIRTY
DRIVERS' BOO	STER FAN OPERATION - WHEN APPLICABLE					
PASSENGER H	EATER/ A/C CONTROLS & FAN OPERATION	WHEELCHAIR LIF	T			
AUXILIARY CO	OLANT HEATER OPERATION -IF APP	PERFORM INSPECT	ΓΙΟΝ (ATTACH	SHEET)		
RUN A/C		CHECK LIFT OPERA	ATION			
FAREBOX MTG	OPERATION & LAMP	FOLDING SEAT OF	PERATION			
DRIVERS' LAM	POPERATION	CLEAN RELATED BE	ELTS. CHECK	RETRACTO)R & L/	ATCH
PASSENGER D	OME LAMP OPERATION	OPERATION				
INSPECT DRIV	'ERS' FOOT BOX - CLEAN IF NECESSARY					
CHECK 1ST AID	KIT , ACCIDENT PKT, AND FIRE EXT - RESTO	OCK IF NEEDED				

EXTERIOR	INSPECTION
GENERAL BODY & PAINT CONDITION	FRONT HUB OIL LEVEL
EXTERIOR LIGHTS - CLEARANCE, SIDE, MARKER, STOP, ETC.	DOOR & FENDER RUBBERS
BACK-UP ALARM OPERATION	CHECK & SERVICE BATTERIES
WHEEL & AXLE FLANGE NUTS	
WIPER ARMS & BLADES, ETC	TORQUE ALL LUG NUTS (450 FT LBS - 500 FT LBS)
WASH RADIATOR, A/C CONDENSER, BATTERY BOX, ENGINE COMPARTMI	ENT & W/C LIFT PLATFORM
	SIS INSPECTION
VISUALLY INSPECT ALL UNDER CHASSIS COMPONENTSCHECK FOR LEAKS - AIR, COOLANT, OIL, FUEL, ETC.	_ EXHAUST SYSTEM - MUFFLER, EXHAUST PIPING & MTG
DRAGLINK & TIE RODS	_ INTERCOOLER & PLUMBING -PIPING, HOSES, CLAMP & MTG
KING PINS FOR LOOSENESS	CHECK MUD FLAP MTG & CONDITION
SHOCK ABSORBERS - FRONT & REAR	FUEL TANK MTG, DAMAGE & FOR LEAKAGE
RADIUS RODS & BUSHINGS - FRONT & REAR	_TRANS OUTPUT SHAFT SEAL FOR LEAKAGE
STEERING SHAFT & U-JOINTS IF APPLICABLE	DRIVE SHAFT & U-JOINTS FOR LOOSENESS
STEERING STALL & 0-90INTS II AFFEIGABLESTEERING GEAR	
STEERING GEARCHECK & ADJ BRAKES - RECORD APPROX . BRAKE LINING THICKNESS	DIFFERENTIAL LUBE LEVEL
	DIFFERENTIAL/PINION SEAL & HOUSING FOR LEAKS
BRAKE HOSES	AIR COMPRESSOR INLET PIPING
WHEEL SEALS FOR LEAKAGE	DRAIN & INSPECT AIR TANK
WHEEL BEARING ADJUSTMENT	TAKE ENGINE OIL SAMPLE
VISUALLY CK. TIRES FOR WEAR & TREAD DEPTH	IF APPLICABLE
RECORD DEPTH	SERVICE AIR CLEANER (5,000) (94,95,96,97 ORION V)
CHECK TIRE PRESSURE & ADJUST TO TIRE MFG. SPEC	CHANGE ALLISON TRANS SPIN-ON FILTERS
COMPLETE CHASSIS LUBRICATION	DRAIN BLOWER BOX CATCH TANK & INSPECT VENT TUBE
-	
10,000 MILE INSPECTION	20,000 MILE INSPECTION + 10K
·	20,000 MILE INSPECTION + 10KSERVICE TRANSMISSION -DRAIN & REFILL
·	· ·
REPLACE VOITH SPIN-ON FILTER IF APP	SERVICE TRANSMISSION -DRAIN & REFILL
REPLACE VOITH SPIN-ON FILTER IF APPREPLACE FUEL FILTER(S)REPLACE COOLANT FILTER	SERVICE TRANSMISSION -DRAIN & REFILLCHANGE TRANSMISSION FILTER
REPLACE VOITH SPIN-ON FILTER IF APPREPLACE FUEL FILTER(S)REPLACE COOLANT FILTERSERVICE AIR CLEANER	SERVICE TRANSMISSION -DRAIN & REFILLCHANGE TRANSMISSION FILTERSERVICE HYD SYSTEM - DRAIN & REFILL REPLACE SUCTION FILTERS (GILLIG)
REPLACE VOITH SPIN-ON FILTER IF APPREPLACE FUEL FILTER(S)REPLACE COOLANT FILTERSERVICE AIR CLEANERCHECK & SHAKE FIRE EXTINGUISHER	SERVICE TRANSMISSION -DRAIN & REFILLCHANGE TRANSMISSION FILTERSERVICE HYD SYSTEM - DRAIN & REFILL REPLACE SUCTION FILTERS (GILLIG)STEAM CLEAN ENGINE/TRANS
REPLACE VOITH SPIN-ON FILTER IF APPREPLACE FUEL FILTER(S)REPLACE COOLANT FILTERSERVICE AIR CLEANER	SERVICE TRANSMISSION -DRAIN & REFILLCHANGE TRANSMISSION FILTERSERVICE HYD SYSTEM - DRAIN & REFILL REPLACE SUCTION FILTERS (GILLIG)
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REPLACE FUEL FILTER(S)REPLACE COOLANT FILTERSERVICE AIR CLEANERCHECK & SHAKE FIRE EXTINGUISHERCHANGE ENGINE OIL & FILTER* 6V71 & 6V92 - 40 W OIL SERIES 50 & CUMMINS - 15 W 40 OILREAR AXLE PLANETARY HUBS - DRAIN & REFILL (LOW FLOORS) ENGINE COMPARTMENT INSPECTIONREAR RUN SWITCHES, GAUGES & COMPARTMENT LAMP OPERATIONVISUALLY INSPECT FOR LEAKS - WATER, OIL, FUEL & AIR LINESAIR COMPRESSOR INLET & DISCHARGE LINESSTARTER OPERATION & MTGHYDRAULIC FLUID PUMP FOR LEAKAGE	SERVICE TRANSMISSION -DRAIN & REFILLCHANGE TRANSMISSION FILTERSERVICE HYD SYSTEM - DRAIN & REFILL REPLACE SUCTION FILTERS (GILLIG) STEAM CLEAN ENGINE/TRANSHYDROMETER TEST BATTERIES 40,000 MILE INSPECTION + 10K & 20KSERVICE DIFFERENTIAL - DRAIN & REFILLSERVICE HYD SYSTEM - DRAIN & REFILL- REPLACE SUCTION & PRESSURE FILTERS (ORION) BELT CONDITION & TIGHTNESSRADIATOR COOLING FAN, HUB, MOTOR & OPERATIONRADIATOR & SURGE TANK MTG & FOR LEAKAGERADIATOR FILL CAP & GASKET OPERATION & FOR LEAKAGECOOLANT HOSE CONDITION & CLAMP TIGHTNESS
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__COOLANT

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SHUTTER OPERATION

FALL SERVICE INSPECTION

Bus No.	Odometer Miles: Previous Miles:	Date	Symbol Definition:
	Actual Miles:		/ O.K. X ADJUSTED
PICK UP ALL MAINTE			O REPAIRS NEEDED
Check drivers' do	oor, entrance & exit door & operation - when	INTERIOR INSPECTION applicable	
Check door sens	sitive edges & step treadles - when applicab	le	
Inspect drivers' f	foot box area. Clean if necessary		
Visually inspect	interior for damage, loose or missing equipm	ent, cleanliness & overall appearance	•
Dust seats, dash	n, floor. Mop floor if needed.		
Check wheelch	air lift operation		
		EXTERIOR INSPECTION	
Check all exterio	or lamp operation		
Check fluid levels	s. Add if necessary		
Engine Oil			
Transmission Flu	ıid		
Coolant			
Washer Fluid			
Power Steering/h	Hydraulic Fluid		
Brake Fluid (Mini-	Buses)		
Hub Oil Level - W	hen applicable		
Visually inspect 6	engine compartment		
Check & adjust ti	re pressure. Visually inspect tires for damage	e.	
	or signs of looseness & tighten if needed Nuts (450 Ft Lbs - 500 Ft Lbs)		
Visually inspect u	under chassis for loose ∨ damaged parts		
Check brake adju	ustment & visually inspect brake components	3	
Drain wet air tanl	k on buses with air systems		
Drain blower box	catch tank - When applicable		
Check battery vo	ltage - Charge/Service as needed.		
Check 1st Aid Kit	t & Accident Pkt - Restock drivers' cabinet		

FILL OUT & RETURN ALL MAINTENANCE CARDS W/INSPECTION SHEET

		PECTION 000 20,000			
Bus No	Odometer Miles: Previous Miles: Actual Miles: Last Oil Change: Miles on this Oil Sample:	Date Symbol Definition: / O.K. X ADJUSTED O REPAIRS NEEDED			
PICK UP ALL MAINT	ENANCE CARDS & TEST DRIVE				
	INTERIOR	INSPECTION			
FREE PLAY IN S	DRIVERS' AREA TEERING WHEEL	PASSENGER AREASEAT FRAMES & COVERINGS FOR DEFECTS			
HORN OPERATION	ON	GENERAL INTERIOR CONDITION - PAINT, PANELS, TRIM, ETC.			
DRIVERS' SEAT	& SEAT BELT OPERATION	ENTRANCE & EXIT DOOR OPERATION			
SERVICE BRAK	E & ACCELERATOR PEDAL OPERATION	DOOR AIR MOTORS FOR LEAKS, ETC.			
SPRING BRAKE	OPERATION - CHECK CONTROL KNOB	LIMIT SWITCHES MOUNTING & OPERATION			
CONDITION & FOR	EXCESSIVE AIR LEAKAGE	EXIT DOOR STEP TREADLES & SENSITIVE EDGES			
_	PERATION & ADJUSTMENT CONTROL & INTERLOCK OPERATION	ENTRANCE / EXIT STEP WELLS FOR LOOSE COVERINGS & DEFECTSSTEP WELL LAMP OPERATION			
_ REAR DOOR OV	ERRIDE SWITCH OPERATION	"GREEN" LAMP OPERATION W/EXIT DOORS AUTHORIZED			
REARVIEW MIRF	RORS & CHECK FOR MIRROR TOOLS	_STANCHION & GRAB RAILS FOR DEFECTS			
ALL INSTRUMEN	IT PANEL GAUGES - OPERATION & DIMMING	FLOOR COVERING FOR LOOSENESS & DEFECTS			
ILLUMINATOR LA	AMPS - OPERATION & DIMMING	PASSENGER CHIME & PULL CORDS			
AIR COMPRESS	OR OPERATION : CUT-IN & CUT-OUT PRESSURES	_SIDE DESTINATION SIGN & LAMP OPERATION			
INSTRUMENT PA	ANEL INDICATOR & WARNING LAMP OPERATION	WINDOWS, LATCHES & OPERATION			
TRANS GEAR SE	ELECTOR SWITCH OPERATION - WHEN APPLICABLE	EMERGENCY EXIT OPERATION			
TRANS GEAR SH	HIFT LEVER - WHEN APPLICABLE H OPERATION	_INSPECT SEATS FOR CLEANLINESS - CLEAN IF NECESSARY CLEANILINESS - CLEAN IF NECESSARY INSPECT INTERIOR FOR CLEANLINESS -CLEAN IF NECESSARY			
EMERGENCY EN	NGINE SHUTDOWN - WHEN APPLICABLE	CHECK CIRC PUMP OPERATION			
 _HEADLIGHT & DII	MMER SWITCH OPERATION - CHECK HEADLIGHT	_			
AIMWINDSHIELD WI	PER/WASHER OPERATION				
FOOT MOUNTED	TURN SIGNAL SWITCH OPERATION				
HAZARD/4-WAY	SWITCH OPERATION				
RADIO OPERATI	ION & MTG				
PA SYSTEM OPE	ERATION & MTG				
DRIVERS' SIDE \	WINDOW OPERATION				
FRONT DESTINA	ATION SIGN & LIGHT OPERATION				

FILL OUT & RETURN ALL MAINTENANCE CARDS W/INSPECTION FORM

__CHECK 1ST AID KIT & ACCIDENT PKT & RESTOCK DRIVER'S CABINET

__DRIVERS' HEATER CONTROLS & FAN OPERATION

__FAREBOX MTG OPERATION & LAMP

__PASSENGER DOME LAMP OPERATION

__DRIVERS' LAMP OPERATION

__DRIVERS' BOOSTER FAN OPERATION - WHEN APPLICABLE __PASSENGER HEATER CONTROLS & FAN OPERATION

_INSPECT DRIVERS' FOOT BOX - CLEAN IF NECESSARY

__CHECK & SHAKE FIRE EXTINGUISHER (10,000)

EXTERIOR INSPECTION

GENERAL BODY & PAINT CONDITION	_WIPER ARMS & BLADES, ETC.
_EXTERIOR LIGHTS - CLEARANCE, SIDE, MARKER, STOP, ETC.	_DOOR & FENDER RUBBERS
BACK-UP ALARM OPERATION	CHECK & SERVICE BATTERIES
WHEEL & AXLE FLANGE NUTS	_HYDROMETER TEST BATTERIES (20,000)
_TORQUE ALL LUG NUTS (450 FT LBS - 500 FT LBS.)	
WASH RADIATOR, A/C CONDENSER, BATTERY BOX, ENGINE COMPAR	RTMENT
UNDER CHASS	IS INSPECTION
VISUALLY INSPECT ALL UNDER CHASSIS COMPONENTS	MOTOR MOUNTS - FRONT & REAR
CHECK FOR LEAKS - AIR, COOLANT, OIL, FUEL, ETC.	_EXHAUST SYSTEM - MUFFLER, EXHAUST PIPING & MTG
DRAGLINK & TIE RODS	CHECK MUD FLAP MTG & CONDITION
KING PINS FOR LOOSENESS	FUEL TANK MTG, DAMAGE & FOR LEAKAGE
_ SHOCK ABSORBERS - FRONT & REAR	TRANS OUTPUT SHAFT SEAL FOR LEAKAGE
RADIUS RODS & BUSHINGS - FRONT & REAR	DRIVE SHAFT & U-JOINTS FOR LOOSENESS
STEERING SHAFT & U-JOINTS IF APPLICABLE	_ DIFFERENTIAL LUBE LEVEL
STEERING GEAR & LUBRICATE	DIFFERENTIAL/PINION SEAL & HOUSING FOR LEAKS
_CHECK & ADJ BRAKES - RECORD APPROX . BRAKE LINING THICKNESS	HAND BRAKE LINKAGE & ADJUSTMENT
_ BRAKE HOSES	AIR COMPRESSOR INLET PIPING
_ WHEEL SEALS FOR LEAKAGE	DRAIN & INSPECT AIR TANK
_ WHEEL BEARING ADJUSTMENT	_DRAIN BLOWER BOX CATCH TANK & INSPECT VENT TUBE
VISUALLY CK. TIRES FOR WEAR & TREAD DEPTH - RECORD DEPTH	CHANGE TRANS SPIN-ON FILTERS
CHECK TIRE PRESSURE & ADJUST TO TIRE MFG. SPEC	CHANGE ENGINE OIL & FILTER*
COMPLETE CHASSIS LUBRICATION	CHANGE BYPASS OIL FILTER*
INSPECT HEATER FILTER -CHANGE AS NEEDED	* 6V71 & 8V92 - 15,000 MILE INTERVAL - 40 W OIL
CHECK HEATER CORES FOR LEAKAGE & MTG	SAMPLE ENGINE OIL & FILTER
REPLACE COOLANT FILTER - WHEN APPLICABLE (10,000)	SERVICE TRANSMISSION -DRAIN & REFILL (20,000)
	SERVICE POWER STEERING SYSTEM - DRAIN & REFILL
	REPLACE SUCTION FILTERS (20,000)
	STEAM CLEAN ENGINE/TRANS (20,000)
	SERVICE DIFFERENTIAL - DRAIN & REFILL (40,000)
ENGINE COMPART	MENT INSPECTION
REAR RUN SWITCHES, GAUGES & COMPARTMENT LAMP OPERATION	ALTERNATOR OPERATION & MTG
VISUALLY INSPECT FOR LEAKS - WATER, OIL, FUEL & AIR LINES	_ENGINE GOVERNOR COVER LINKAGES
CHECK FLUID LEVELS	_THROTTLE CYLINDER OPERATION WHEN APPLICABLE
ENGINE OIL	RADIATOR COOLING FAN, HUB, MOTOR & OPERATION
TRANSMISSION FLUID	_RADIATOR & SURGE TANK MTG & FOR LEAKAGE
COOLANT	RADIATOR FILL CAP & GASKET OPERATION & FOR LEAKAGE
HYDRAULIC FLUID	_COOLANT HOSE CONDITION & CLAMP TIGHTNESS
	SHUTTER OPERATION
AIR COMPRESSOR INLET & DISCHARGE LINES	_ HYDRAULIC FLUID PUMP FOR LEAKAGE
STARTER OPERATION & MTG ALCOHOL EVAPORATOR BOTTLE & PLUMBING - FILL AS REQUIRED	_ SERVICE AIR CLEANER (10,000) REPLACE FUEL FILTER(S) (10,000)

Dua Na	5,000 10,00	
Bus No. PICK UP ALL MAINT	Odometer Miles: Previous Miles: Actual Miles: Last Oil Change: Miles on this Oil Sample: ENANCE CARDS & TEST DRIVE INTERIOR INSPECTION	Symbol Definition: / O.K. X ADJUSTED O REPAIRS NEEDED
FREE PLAY IN S	DRIVERS' AREA STEERING WHEEL	PASSENGER AREACHECK SEAT FRAMES & COVERINGS FOR DEFECTS
STEERING TILT	MECHANISM	GENERAL INTERIOR CONDITION, PAINT, PANELS, TRIM, ETC.
HORN OPERATION	ON	_PASSENGER DOOR OPERATING MECHANISM & MOTOR
DRIVERS' SEATE	BELT OPERATION	STEP WELL FOR LOOSE COVERINGS & DEFECTS
BRAKE & ACCEL	ERATOR OPERATION	STANCHION & GRAB RAILS FOR DEFECTS
PARK BRAKE PE	DAL OPERATION	PASSENGER CHIME & PULL CORDS
REAR VIEW MIRE	RORS & CHECK FOR MIRROR TOOLS	SIDE DESTINATION SIGN & LIGHTS - WHEN APPLICABLE
ALL DASH GAUG	ES & ILLUMINATOR LAMPS - OPERATION & DIMMING	WINDOWS, LATCHES & OPERATION
_INSTRUMENT PA	NEL INDICATOR LAMPS	_EMERGENCY EXITS
_IGNITION SWITCH	H OPERATION	FLOOR COVERINGS FOR LOOSENESS & DEFECTS
SHIFT LEVER OF	PERATION	DECALS
OVERDRIVE BUT	TON OPERATION	_INSPECT SEATS FOR CLEANLINESS - CLEAN IF NECESSARY
HEADLAMP SWIT	TCH - CHECK HEADLAMP AIM & DTRL OPERATION	CHECK FOR PASSENGER SEAT BELT EXTENSIONS: 3 - PASS/ 1 - W/C
WINDSHIELD WI	PERWASHER OPERATION	INSPECT INTERIOR FOR CLEANLINESS -CLEAN IF NECESSARY
HAZARD/4-WAY	SWITCH OPERATION	
RADIO OPERATIO	ON & MTG	
PA SYSTEM OPE	RATION & MTG	WHEELCHAIR LIFT
DRIVERS' DOOR	R & WINDOW OPERATION	PERFORM INSPECTION (SEE ATTACHED INSPECTION FORM)
FRONT DESTINA	TION SIGN & LIGHTS	CHECK OPERATION
DRIVERS' HEATE	ER/ A/C CONTROLS & FAN OPERATION	CHECK DOOR & LATCH OPERATION
PASSENGER HE	ATER/ A/C CONTROLS & FAN OPERATION	CHECK FLOOD LAMP OPERATION
RUN A/C		_CLEAN SEATBELTS & CHECK SWITCH OPERATION
CHECK FAREBO	X MTG, OPERATION & LAMP	
DOME LAMP OPE	ERATION - DRIVERS' & PASSENGER	
PASSENGER DO	OR CONTROL SWITCH & OPERATION	
INSPECT DRIVER	RS' FOOT BOX - CLEAN IF NECESSARY	

FILL OUT & RETURN ALL MAINTENANCE CARDS W/INSPECTION SHEET

__CHECK & SHAKE FIRE EXTINGUISHER (10,000)
__CHECK 1ST AID KIT & ACCIDENT PKT - RESTOCK IF NECESSARY (10,000)

EXTERIOR INSPECTION

GENERAL BODY & PAINT CONDITION	CHECK & SERVICE BATTERIES
WHEEL & AXLE FLANGE NUTS	CLEAN & LUBE BATTERY TRAY SLIDES
EXTERIOR LAMPS - MARKER, CLEARANCE, STOP/TAIL , ETC.	_WIPER ARMS & BLADES
_ BACK-UP ALARM & LAMP OPERATION	DOOR & FENDER RUBBERS
WASH RADIATOR, A/C CONDENSER & BATTERY BOX	HYDROMETER TEST BATTERIES (20,000)
UNDER C	HASSIS
VISUALLY CHECK ALL UNDER CHASSIS COMPONENTS	CHECK & ADJUST TIRE PRESSURE TO TIRE MFG. SPECS.
CHECK FOR LEAKS - COOLANT, OIL, ETC.	_ MOTOR & TRANSMISSION MOUNTS
_ DRAGLINK & TIE ROD ENDS	CHECK EXHAUST SYSTEM: HANGERS, PIPES & MUFFLER
SHOCKS - FRONT & REAR	_ MUD FLAP MTG
RADIUS RODS & BUSHINGS	FUEL TANK MOUNTING - LEAKAGE OR DAMAGE
BALL JOINTS	TRANS OUTPUT SHAFT SEAL FOR LEAKAGE
CHECK & ADJUST BRAKES - RECORD PAD THICKNESS	_ DRIVE SHAFT & U-JOINTS FOR LOOSENESS
_ BRAKE HOSES & LINES	_ DIFFERENTIAL LUBE LEVEL
COMPLETE CHASSIS LUBRICATION	_ DIFFERENTIAL/ PINION SEAL & HOUSING FOR LEAKS
CHECK WHEEL SEALS FOR LEAKS - FRONT & REAR	SAMPLE ENGINE OIL
CHECK WHEEL BEARING ADJUSTMENT - FRONT & REAR	CHANGE ENGINE OIL & FILTER
VISUALLY CHECK TIRES FOR WEAR & DAMAGE	SERVICE DIFFERENTIAL - DRAIN & REFILL (20,000)
MEASURE & RECORD TIRE TREAD DEPTH	SERVICE TRANS - DRAIN, CHANGE FILTER & REFILL (20,000)
TORQUE ALL LUG NUTS (126 FT LBS - 170 FT LBS - MINI BUSES)	
TORQUE ALL LUG NUTS (100 FT LBS - MINI VANS)	
TORQUE ALL LUG NUTS ON SERVICE VEHICLES TO MFG SPECS.	
PULL REAR BRAKE DRUMS (10,000)-	
INSPECT & RECORD LINING THICKNESS (10,000)	
CHANGE IN-LINE TRANSMISSION FILTER (10,000)	
ENGINE COM	PARTMENT
CHECK FOR LEAKS - COOLANT, OIL, FUEL, ETC.	CHECK FLUID LEVELS
CHECK ACCESSORY DRIVE BELT	ENGINE OIL
CHECK ACCESSORY DRIVE BELT TENSIONER & IDLER PULLEYS	TRANSMISSION FLUID
FOR ALIGNMENT & OPERATION	BRAKE FLUID
CHECK ALT. MTG & OPERATION	COOLANT
CHECK & SERVICE ENGINE AIR FILTER (10,000)	POWER STEERING FLUID
CHANGE FUEL FILTER (10,000)	WASHER SOLVENT

__SERVICE FUEL FILTERS (#938 & #939 & #949) (20,000)

		MINI-BOS IN		,			
	5,000	15,000	30,000	50,000	60,000		
Bus No	Odor	neter Miles:			Date:		
<u></u>		Oil Change:			Symbol Defini	 tion:	
		s on this Oil Sar			/ - O.K.		
PICK UP ALL MAI	NTENANCE CARDS				X - ADJ	USTED	
					O - REP	PAIRS NEE	EDED
		INTERR	IOR INSPEC	TION			
	DRIVERS' AREA						
_FREE PLAY IN STEERI	NG WHEEL						
_STEERING TILT MECH	ANISM			BRAKES	TREA	D DEPTH	
_HORN OPERATION			FRONT		IKLA		
_DRIVERS' SEATBELT (OPERATION		REAR:	•			
_BRAKE & ACCELERAT	OR OPERATION		KEAK:				
PARK BRAKE PEDAL (PERATION			т	PASSENGER AREA		
_REAR VIEW MIRRORS	& CHECK FOR MIRRO	R TOOLS	CHEC		& COVERINGS FOR		
_ALL DASH GAGUES & I	ILLUMINATOR LAMPS	- OPERATION					DIM ETC
AND DIMMING					CONDITION, PAINT ERATION MECHAI		
_INSTRUMENT PANEL	INDICATOR LAMPS				EKATION MECHAI SE COVERINGS & D		IUK
_IGNITION SWITCH OP	ERATION				RAILS FOR DEFECT		
_SHIFT LEVER OPERAT	ION			ENGER CHIME &		3	
_OVERDRIVE BUTTON	OPERATION						
_HEADLAMP SWITCH -	CHECK HEADLAMP A	IM & DTRL		DESTINATION SI			
OPERATION				OWS, LATCHES & GENCY EXITS	& OPERATION		
_WINDSHIELD WIPER/	WASHER OPERATION	I			OR LOOSENESS * D	EEECTC	
_HAZARD/4-WAY SWI7	TCH OPERATION		FLOO! DECA!		OK LOOSENESS . D	EFECIS	
_RADIO OPERATION &	MTG				TEANLINECE CL	EAN IE NEC	ECCADY
_PA SYSTEM OPERATION	ON & MTG				CLEANLINESS – CL		
_DRIVERS' DOOR & WII	NDOW OPERATION			K FUK PASSENGI	ER SEAT BELT EXT	ENSIONS: 3	5-PA55/1-
_FRONT DESTIANTION	SIGN & LIGHTS		W/C	CT INTEDIOD FO		CLEANIEN	JECECC A DV
_DRIVERS' HEATER/ A	/C CONTROLS & FAN (OPERATION	_INSPE	CI INTERIOR FO	OR CLEANLINESS -	CLEAN IF N	1ECESSARY
_PASSENGER HEATER/	A/C CONTROLS & FA	N OPERATION		EVT	TEDIAD INCDECTI	ON	
_RUN A/C			CENE		TERIOR INSPECTION	JN	
_CHECK FAREBOX MTG	G, OPERATION & LAMP)		RAL BODY & PAI			
_DOME LAMP OPERATI	ION - DRIVERS' & PASS	SENGER		EL & AXLE FLAN		CE CEOD/E	AH ETC
_PASSENGER DOOR CO	NTROL SWITCH & OP	ERATION			ARKER, CLEARAN	CE, STOP/1.	AIL, EIC
_INSPECT DRIVERS' FO	OT BOX - CLEAN IF N	ECESSARY			AMP OPERATION	ATTEDM DO	W
_CHECK 1ST AID KIT & A	ACCIDIENT PKT – RES'	TOCK DRIVERS'		•	C CONDENSER & B.		X
CABINET					ΓS (126FT LBS - 17	ART FR2)	
W	VHEELCHAIR LIFT			K AND LUBE DAT		7.0	
_PERFORM INSPECTIO	N (SEE ATTACHED INS	SPECTION FORM)			FTERY TRAY SLIDE		
_CHECK OPERATION					S & SPRAY PATTER	UN .	
_CHECK DOOR & LATCI	H OPERATION		DOOR	& FENDER RUB	BEKS		

_CHECK FLOOD LAMP OPERATION

_CLEAN SEATBELTS & CHECK SWITCH OPERATION

UNDER CHASSIS

__WASHER SOLVENT

VISUALLY CHECK ALL UNDER CHASSIS COMPONENTS	MILEAGE-BASED SERVICING
CHECK FOR LEAKS – COOLANT, OIL, ETC	
DRAGLINK & TIE ROD ENDS	15,000
SHOCKS - FRONT & REAR	TORQUE REAR U-BOLT NUTS
RADIUS ARMS & BUSHINGS	TEST BATTERIES
BALL JOINTS	
CHECK & ADJUST BRAKES - RECORD PAD THICKNESS	30,000
BRAKE HOSES & LINES	REPACK WHEEL BEARING GREASE ON FRONT HUBS
COMPLETE CHASSIS LUBRICATION	REPLACE GREASE SEALS ON FRONT HUBS
CHECK SHEEL SEALS FOR LEAKS – FRONT & REAR	REPLACE ENGINE AIR FILTER
CHECK WHEEL BEARING ADJUSTMENT - FRONT & REAR	
VISUALLY CHECK TIRES FOR WEAR & DAMAGE	50,000
MEASURE & RECORD TIRE TREAD DEPTH	REAR AXLE LUBRICANT REPLACEMENT
CHECK & ADJUST TIRE PRESSURE TO THE TIRE MFG. SPECS.	
MOTOR & TRANSMISSION MOUNTS	60,000
CHECK EXHAUST SYSTEM: HANGERS, PIPES & MUFFLER	REPLACE SPARK PLUGS
MUD FLAP MTG	CHANGE TRANSMISSION FLUID
FUEL TANK MOUNTING – LEAKAGE OR DAMAGE	
TRANS OUTPUT SHAFT SEAL FOR LEAKAGE	
DRIVE SHAFT & U-JOINTS FOR LOOSENESS	FLUSH & CHANGE COOLANT AT THESE MILEAGES
DIFFERENTIAL LUBE LEVEL	105,000
DIFFERENTIAL/PINION SEAL & HOUSING FOR LEAKS	150,000
SAMPLE ENGINE OIL	195,000
CHANGE ENGINE OIL & FILTER	240,000
	285,000
ENGINE COMPARTMENT	330,000
CHECK FOR LEAKS -COOLANT, OIL FUEL, ETC	375,000
CHECK ACCESSORY DRIVE BELT	420,000
CHECK ACCESSORY DRIVE BELT TENSIONER & IDLER	465,000
PULLEYS FOR ALIGNMENT & OPERATION	
CHECK ALT. MTG & OPERATION	
CHECK FLUID LEVELS	
ENGINE OIL	
TRANSMISSION FLUID	
BRAKE FLUID	
COOLANT	
POWER STEERING FLUID	

BRAUN LIFT

NL - MELINIUM 2 (BUSES: 133-138)

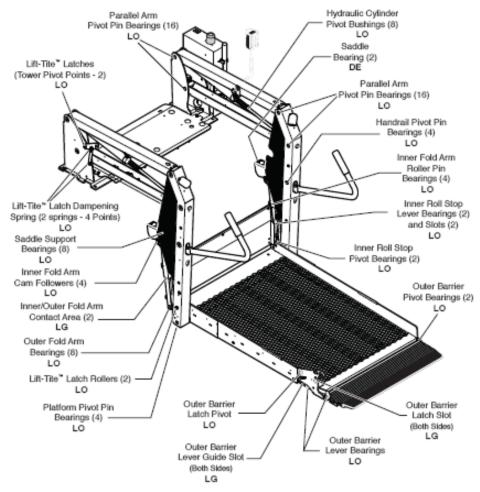
BUS NUMBER	
MILEAGE	
TOTAL CYCLES	
INSPECTION #	

INSPECTION #1, #2, #3 (MAN. 750 CYCLE)	INSPECTION #4 (MAN. 1500 CYCLES)
SEE LUBRICATION DIAGRAM FOR TYPE OF OIL	
Oil Outer barrier pivot points (2)	PREFORM 5,000 MILE INSPECTION AS WELL
Oil Outer barrier latch pivot point	
Grease Outer barrier latch slot	Grease Inner/outer fold arms (2)
	Oil Platform pivot pin bearings (4)
Oil Outer barrier lever bearings (2)	Oil Outer fold arm bearings (8)
Oil Lift-Tite latches (tower pivot points - 2)	Oil Inner roll stop pivot bearings (2)
Oil Lift-Tite latch gas (dampening) spring pivot	Oil Inner roll stop lever bearings (2)
points (2 springs - 4 points)	Oil Inner roll stop lever slot (2)
Inspect Lift-Tite latches and gas springs for wear	Oil Saddle support bearings (8)
or damage (bent, deformed or misaligned), positive	Oil Inner fold arm roller pin bearings (4)
securement (lock nuts / external snap rings) and	Oil Inner fold arm cam followers (4)
proper operation	Oil Parallel arm pivot pin bearings (16)
Inspect outer barrier for proper operation Inspect outer barrier latch for proper Operation,	Oil Handrail pivot pin bearings (4)
positive securement, and detached or missing spring	Oil Hydraulic cylinder pivot bushings (8)
Adjust fold pressure and outer barrier fold	Outer barrier lever guide slot
pressure	Inspect Lift-Tite™ latch rollers for wear or damage,
Verify FMVSS 403/404 Certification Checklist	positive securement and proper Operation (2)
Inspect lift for wear, damage or any abnormal	Inspect inner roll stop for:
condition	Wear or damage
Inspect lift for rattles	• Proper operation. Roll stop should just rest on top surface
Check roll stop cylinder for leaks	of the threshold plate.
	Positive securement (both ends)
	Inspect handrail components for wear or Damage, and
	for proper operation
	Inspect microswitches for securement and proper
	adjustmentMake sure lift operates smoothly
	Make sure introperates smoothlyInspect external snap rings:
	• Outer fold arm (6)
	• Lift-Tite™ latch roller (2)
	• Lift-Tite™ latch gas (dampening) spring (4)
	• Inner fold arm cam followers (4)
	• Inner fold arm roller pins (4)
	 Outer barrier hydraulic cylinder mounting pin(2)
	 Inner roll stop lever bracket pins (2)
	Inspect inner roll stop locks (2) and torsion springs (2)
	for wear or damage and for proper operation.
	Inspect outer fold arm pins (2), axles (2) and
	bearings (8) for wear or damage and positive
	securementRemove pump module cover and inspect:
	Hydraulic hoses, fittings and connections for wear or
	leaks
	Harness cables, wires, terminals and connections for
	securement or damage
	Relays, fuses, power switch and lights for
	securement or damage Page 20
	CONTINUED ON BACK

INSPECTION # 4 CONTINUED... Inspect cotter pins on platform pivot pin (2) Inspect parallel arm pivot pin mounting bolts (8) Hydraulic Fluid (Pump) - Check level. Note: Fluid Inspect platform pivot pins, bearings and vertical should be changed if there is visible arms for wear, damage and positive securement contamination. _Inspect inner/outer fold arms, saddle, saddle support Inspect the hydraulic system (cylinder, hoses, and Associated pivot pins and bearings for visible wear fittings, seals, etc.) for leaks if fluid level is low. or damage _Inspect cylinders, fittings and hydraulic _Inspect gas springs (cylinders - 4) for wear or damage, proper operation and positive securement connections for wear, damage or leaks Inspect saddle bearing (UHMW - 2) _Inspect outer barrier cylinder hose assembly Inspect vertical arm plastic covers (hose. Inspect power cable fasteners, connections, etc.) for wear, damage or **Inspect Mounting** Inspect Decals and Antiskid leakage Inspect parallel arms, bearings and pivot pins for visible wear or damage

Maintenance and Lubrication

Lubrication Diagram



See the Maintenance/Lubrication Schedule for recommended applications per number of cycles.

Lubricant	Туре	Specified (recommended) Lubricant	Available Amount	Braun Part No.
LO - Light Oil	Light Penetrating Oil (30 Weight or equivalent)	LPS2, General Purpose Penetrating Oil	16 oz. Aerosol Can	15807
DE - Door-Ease	Stainless Stick Style (tube)	Door-Ease Stick (tube)	1.68 oz.	15806
LG - Light Grease	Light Grease (Multipurpose)	Lubriplate	14 oz. Can	15806

BRAUN LIFT INSPECTION

(#978, #979)

DATE:

BUS #: MILEAGE :	
General Appearance Check general appearance of lift	
Lift Mountings & Support Points Ensure that all lift mountings & support points are in proper order & free from damage Ensure that all mounting bolts are of appropriate grade & sufficiently tight	
Main Lifting Pivots Ensure all traveling frame pins are installed properly, free from damage & locked in position with proper fasteners	
Platform and Platform Attachment Points Ensure platform operates properly during lift "up/down" functions without obstructions Ensure that all welds on traveling frame are in proper order	
 Inner Rollstop and Inner Rollstop Operation Ensure that inner rollstop functions properly during "up/down" operations without obstructions Ensure that inner rollstop deploys fully as the platform stops at the proper vehicle floor level 	
Platform Rollstop and Rollstop Operation Ensure that rollstop operates properly on contact with the ground Ensure that rollstop opens, closes and locks properly without obstruction	
Handrail and Handrail Attachment Ensure that all fasteners are present and properly tightened	
Hydraulic Fluid Level Ensure that the hydraulic fluid level is maintained at the required "Full Level"	
Hydraulic Cylinders, Flow Control Valves and Hoses Inspect the hydraulic hoses, valves and seals for leaks Ensure that hydraulic hoses and lines are not damaged	
Clean and Lubricate Lubricate as per Manufactures' recommendations	
Occupant Restraining Belt & Check occupant restraining belt for proper operation & check condition of restraint Replace belt if needed	belt -

GILLIG LOW FLOOR - LIFT-U RAMP INSPECTION

DATE:

__ Prime area with primer paint

_ Finish paint area with high quality gloss black paint

BUS#:	MILEAGE :	
General Appearance		
Inspect ramp platform surface, stow	w guides & wear strip for wear	r, damage &/ overload characteristics
Inspect ramp pivoting lever arms, l	bearings & cam bolt heads for	wear, damage &/ overload characteristics
Inspect stow/deploy belt for wear, o	damage &/ overload character	istics
Inspect manual release wire rope(s)) for wear, damage &/ overloa	d characteristics
General Cleaning		
Ramp platform surface		
Ramp enclosure interior & closeout	t hinge	
-	these components, corrosi	terlock switch, relay junction box & cable on or electrical short-circuiting may damage
General Rust Prevention		
_ Grind or brush affected area to rem	ove exiting rust	

NOTE: Proper preventative maintenance requires that visible surface rust be addressed & corrected in a timely & appropriate manner. Failure to do so may cause irreversible damage to the ramp mechanism.

STEP LIFT PREVENTATIVE MAINTENANCE DATE :

5, 000 MILE INSPECTION	BUS # :	20,000 MILE INSPECTION
	MILEAGE:	
TOP OF STEP TREAD - 14"		
INSPECT HANDRAILS STRUCTURAL INTEGRITY CRACKS IN TUBING		(INCLUDE 5,000 MILE INSPECTION WHEN DOING 20,000 MILE INSPECTION)
INSPECT RAMP/BARRIER LINKAGE & C STRUCTURAL INTEGRITY OF BARRIER	<u>YLINDER</u>	INSPECT RAMP/BARRIER LINKAGE & CYLINDER LUBRICATION (LUBE WITH ANTI-SEIZE COMPOUND)
BARRIER ANGLEPIVOT POINTS FOR DAMAGE OR WEARSTRUCTURAL INTEGRITY OF LINKAGECYLINDER ATTACHMENT BOLTS		LINKAGE AND LINKAGE PINS
HYDRAULIC HOSES/FITTINGS FOR LEAKS BARRIER LATCH PIN FOR DAMAGE SPRAY LUBE		
_		
INSPECT SUPPORT ARM STRUCTURAL INTEGRITY OF SUPPORT ARM		INSPECT LEAF CHAIN RUST & CORROSION
MOUNTING BOLTS	1	ABSENCE OF COTTER PIN/KEEPERS
DOWEL PINS		PROPER ADJUSTMENT
INSPECT HINGES		LUBRICATION (LUBE WITH P/N P515-0012) ADJUSTMENT NUTS SECURED
RUST/CORROSION		ADJUSTNIENT NUTS SECURED
BINDING		
DAMAGE STEP HEATER & WIRING		
STEI TIEATER & WIKING		
INSPECT HYDRAULIC HOSE/ELECTRICA	L CABLE BUNDLE	INSPECT ROLLER CHAIN
PROPER ROUTING LEAKS		RUST & CORROSION ABSENCE OF COTTER PINS/KEEPERS
CHAFING		LUBRICATION (LUBE WITH P/N P515-0012)
		ADJUSTMENT NUTS SECURED
INSPECT STEP ACTUATION CYLINDER CYLINDER PINS FOR FREE MOVEMENT		INSPECT CONTROL ENCLOSURE
HYDRAULIC HOSES/FITTINGS FOR LEAKS		FITTINGS FOR LEAKS
SET SCREW IN PIVOT PINS		HARD LINES FOR LEAKS
INSPECT BARRIER LATCH LIMIT SWITC	au .	INSPECT STEP ACTUATION CYLINDER
LOOSE LIMIT SWITCH ARM	11	RUST & CORROSION
INSPECT ULTRASONIC SENSING DEVICE SENSING FACE	<u> E(PASSENGER SENSOR</u>	R) INSPECT BARRIER LATCH LIMIT SWITCH SWITCH MUST ACTIVATE WHEN THE BARRIER
SENSING FACE		IS IN THE BARRIER POSITION
INSPECT PROXIMITY SWITCHES		
DAMAGE TO THE SENSOR END	G (GAD 20 000)	INSPECT HYDRAULIC FLUID
GAP BETWEEN SENSING END AND TARGETS	3 (GAP .30000)	CONTAMINATION
INSPECT HYDRAULIC POWER SOURCE		INSPECT HYDRAULIC POWER SOURCE
FLUID LEVEL AT FLOOR LEVEL		RELIEF VALVE PRESSURE (1250 PSI)
MANUAL OPERATION OF HYDRAULIC S	SYSTEM	CHANGE FILTER ELEMENT
STOW & DEPLOY		INSPECT LIFT MOUNTING BOLTS
RAISE & LOWER	A.T.	REFER TO BUS MFG TORQUE SPECS
RAMP/BARRIER UP & RAMP BARRIER DOWN	V	INSPECT TOWER ASSEMBLY
INSPECT MAIN LIFT CYLINDER		TOWERS ARE VERTICAL
CYL SWIVEL BEARINGS MUST BE FREE OF F	RUST & CORROSION	TOWERS ARE PERPENDICULAR TO THE ROADSIDE CLOSEOUT
CYL SWIVEL BEARINGS MUST MOVE FREEL CYL PIN KEEPERS	ΣY	INSPECT SLIDE BEARING ON SLIDING PLATFORM ASSEMBLY
JAM NUT MUST BE TIGHT AGAINST THE CLI	EVIS	WEAR & DAMAGE
		MIGDEOGRAE A DINIG CORDED ON MEDITICAL VIDAS COMPANIES
<u>INSPECT EMERGENCY CYLINDER</u> CYL SWIVEL BEARINGS MUST BE FREE OF F	RIIST & CODDOSION	INSPECT BEARING STRIP ON VERTICAL FRAME ASSEMBLY WEAR & DAMAGE
CYL SWIVEL BEARINGS MUST BE FREE OF F	Y CORRUSION	WEAR & DAMAGE
CYLINDER PIN KEEPERS		_ INSPECT FOR MANUAL OPERATING PROCEDURE DECAL
JAM NUT MUST BE TIGHT AGAINST THE CLI CHECK FLUID LEVEL WITH LIFT AT FLOOR		_ CHECK BOTTOM CLOSE-OUT HINGE FOR FREE OPERATION INSPECT ALL FASTENERS FOR TORQUE
CHECK I LUID LEVEL WITH LIFT AT FLOOR.	LL Y L'L	HIGHECT ALL PAGIENERS FUR TURVUE

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PLATFORM LIFT PREVENTATIVE MAINTENANCE DATE:

5,000 MILE INSPECTION BUS # : _ 20,000 **MILE INSPECTION** MILEAGE: (INCLUDE 5,000 MILE INSPECTION WHEN TEST SAFETY FEATURES DOING 20,000 MILE INSPECTION) __PRESSURE SENSITIVE MATS PRESSURE SENSITIVE EDGES INSPECT STOW/DEPLOY LIMIT SWITCH INSPECT CURBSIDE BARRIER/LINKAGE & BARRIER __STOW SWITCH MUST ACTIVATE 1/2" BEFORE FULLY STOWED __STRUCTURAL INTEGRITY OF BARRIER DEPLOY SWITCH MUST ACTIVATE 1/2" BEFORE FULLY STOWED ___BARRIER ANGLE _ _LOOSE LIMIT SWITCH PIVOT POINTS FOR DAMAGE OR WEAR _CYLINDER ATTACHMENT BOLTS INSPECT CHAIN LIMIT SWITCH (SLACK CHAIN) __LINKAGE SET SCREWS/JAM NUTS (20,000) __ADJUSTMENT BETWEEN LIMIT SWITCH ARM & TRIP (20,000) __LOOSE LIMIT SWITCH ARM HYDRAULIC HOSES/FITTINGS FOR LEAKS ______FORWARD LIFT CYL MUST OPERATE FREELY UP & DOWN WHICH LUBRICATION (LUBE WITH ANTI-SEIZE COMPOUND): ALLOWS THE CHAIN SWITCH TO OPERATE PROPERLY SLIDE LINK & ROD GUIDE - LUBE SHOULDER BOLT & LINKAGE PINS - LUBE (20,000) LIFT CYL CHAIN MUST BE FLEXIBLE WHICH ALLOWS THE CHAIN SWITCH TO OPERATE PROPERLY INSPECT ROADSIDE BARRIER/LINKAGE/CYLINDER __STRUCTURAL INTEGRITY OF BARRIER INSPECT HYDRAULIC POWER SOURCE _ _FLUID LEVEL BARRIER ANGLE __ PIVOT POINTS FOR DAMAGE OR WEAR ___FLUID PRESSURE (1150 - 1200 PSI) (20,000) __LINKAGE/CYLINDER JAM NUTS __CHANGE FILTER ELEMENT (20,000) __ HYDRAULIC HOSES/FITTINGS FOR LEAKS __CYL CLEVIS PINS - REMOVE, INSPECT & LUBE INSPECT LIFT MOUNTING BOLTS REFER TO BUS MFG TORQUE SPECS (20,000) INSPECT LIFT MASTER CHAINS & CONN LINKS __RUST & CORROSION **INSPECT CLUTCH BEARING** __ABSENCE OF COTTER PIN/KEEPERS __PROPER ADJUSTMENT __GALLING - TRANSFERRING OF BRASS CLUTCH BEARING __ PROPER ADJUSTMENT LUBRICATION (LUBE WITH P/N P515-0005) PARTICLES TO TORQUE SHAFT COUPLING LUBRICATION (MULTI-PURPOSE GREASE) INSPECT SLAVE CHAINS AND CONN LINKS __RUST & CORROSION **INSPECT TORQUE SHAFT COUPLING SET SCREWS (20,000)** ___ABSENCE OF COTTER PIN/KEEPERS INSPECT SLIDE CHANNEL BEARING BLOCKS (20,000) _ _PROPER ADJUSTMENT __LUBRICATION (LUBE WITH P/N P515-0005) MANUAL OPERATION OF HYDRAULIC SYSTEM JAM NUTS SECURED STOW & DEPLOY ___RAISE & LOWER __ROADSIDE BARRIER UP & DOWN INSPECT STOW & DEPLOY CHAINS & CONN LINKS _ __RUST & CORROSION __ CURBSIDE BARRIER UP & DOWN ABSENCE OF COTTER PIN/KEEPERS __PROPER ADJUSTMENT INSPECT FOR MANUAL OPERATING PROCEDURE DECAL __LUBRICATION (LUBE WITH P/N P515-0005) __ JAM NUTS SECURED INSPECT MAIN LIFT CYLINDERS, FORWARD/REAR CYL CLEVIS PINS MUST BE FREE OF RUST & CORROSION INSPECT STOW MOTOR CHAIN & CONN LINK & MUST MOVE FREELY __RUST & CORROSION CYL CLEVIS PINS - REMOVE, INSPECT & LUBE (20,000) ___ABSENCE OF COTTER PIN/KEEPERS ___CYL CLEVIS PIN KEEPERS _ _JAM NUTS MUST BE TIGHT AGAINST CYL ROD _ __PROPER ADJUSTMENT __LUBRICATION (LUBE WITH P/N P515-0005) ___MIN THREAD ENGAGEMENT OF 1" ON TURNBUCKLE BOLTS __JAM NUTS SECURED SPEED OF LIFT IN CUSHION AREA APPLY LUBRICANT TO CUSHION ADJUSTMENT SCREW CAVITIES INSPECT HYDRAULIC HOSE/ELECTRICAL CABLE BUNDLE ___PROPER ROUTING INSPECT STOW LATCH/CYLINDER __ LEAKS (HOSES) PROPER STOW LATCH ENGAGEMENT (20,000) __ CHAFING _HYDRAULIC HOSE/FITTINGS FOR LEAKS LUBRICATION ON STOW LATCH FACE (LUBE W/DOOR-EASE) INSPECT STOW MOTOR & STOW SHAFT INSPECT ALL FASTENERS FOR TORQUE (20,000) __SPROCKET ALIGNMENT (20,000) SET SCREW IN SPROCKETS (20,000) __ <u>INSPECT PUSH-OFF SPRINGS</u>)

- HYDRAULIC HOSES/FITTINGS FOR LEAKS
- __SET SCREW IN BEARINGS (20,000)
- __SPROCKETS FOR WEAR & DAMAGE (20,000)

INSPECT PROXIMITY SWITCHES

- _ __DAMAGE TO THE SENSING END
- GAP BETWEEN SENSING END & TARGETS (GAP .030 TO .060)

(REPLACE SPRINGS EVERY 6 YEARS OR 8,000 CYCLES)