Mobility Management: Bus Acceptance

Community Relations Committee July 10, 2019 Item #7

samTrans

Bus Maintenance

- Staffing
- Fleet Inventory
- Preventive Maintenance Program
- Preventive Maintenance KPI's
- Bus Acceptance Program



Staffing

Fixed Route		Paratransit		<u>TVMs</u>
	FTEs	FTEs		FTEs
Mechanic A	33	2		1
Mechanic B	13	3		5
Mechanic C	6	2		
Utility Worker	23	6		
Storeskeeper	7			
			Total	101*

* Bus Maintenance Represented Employees Only. Excludes management and all other support staff from other internal departments

Fleet Inventory (Fixed Route)

Quantity	Year	Make	Length (ft.)	Avg. Miles (LTD)
55* 91 40 4 25 4 21 12 50 2	2002 2009 2009 2013 2013 2013 2014 2014 2014 2017 2019	NABI Gillig LF Gillig LF Gillig Hyb Gillig LF Gillig LF Gillig LF Gillig LF Proterra	60 40 35 29 40 29 40 29 40 29 40	404,000 261,000 245,000 308,000 164,000 195,000 145,000 78,000 50,000
*Pending 55 8	2019 2020	New Flyer Proterra	60 40	
4				samTr

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Preventive Maintenance Program

- SamTrans' Preventive Maintenance Program is outlined through Standard Operating Procedures (SOP):
 - M-17 Preventive Maintenance (per subfleet)
 - M-12 Minor "A" Inspection (safety and environmental)
 - M-10 Maintenance Calibration Procedures (tooling)
- On-time PMI completion
 - FTA's state of good repair on-time compliance requires 80% of scheduled PMIs



Bus Maintenance KPI's

- PMI's 95% On-time, Criteria +/- 500 miles of PMI interval (YTD 100%)
- Buses Out of Service Awaiting Parts less than 2% of the fleet (YTD 0.92%)
- Inventory Variance less than 2% (YTD 0.04% or \$634 on \$1.5M inventory)
- Average Miles Between Service Calls (MBSC) 25,000 miles/month (YTD 28,217 miles)

Bus Maintenance KPI's

Miles Between Service Calls

Fiscal		Service	Average Miles
Year	Miles	<u>Calls</u>	Between Calls
2015	5,637,449	223	25,280
2016	5,993,556	217	27,620
2017	5,961,779	204	29,224
2018	5,875,691	227	25,844
2019	5,699,767	202	28,217

* District serviced vehicles only. FY 2019 YTD as of May 31, 2019



Bus Maintenance KPI's

- Safety hours worked without industrial injury, i.e. NB 40,000 hrs/yr, SB 35,000 hrs/yr (NB 2 injuries, SB 0 injuries)
- Preventable Accidents (YTD 0 preventable accidents)
- CHP Terminal Inspection maintain Terminal Inspection Certification through compliance of California's Code of Regulations (CCR, Title 13)



- Bus Post Delivery Inspection (PDI):
 - Inspections and operational checks on the bus structure, systems, and sub-systems
 - Software and firmware (engines, transmission, HVAC, etc.)
 - Discrepancies are documented and repaired prior to acceptance.
 - Road tests and fluid changes (as required)
 - PDI's are performed by Bus Manufacturer Field Service Technicians (FSTs), System Vendors (i.e. Thermo King, Voith, Cummins, Apollo), and SamTrans' acceptance team

- Electronic Component Installation, Configuration, and Validation:
 - Remove existing electronic equipment such as radios, fareboxes, and Clipper; transfer to new bus
 - Other Intelligent Transportation System (ITS) that require configuration, activation, and operational checks – OrbStar, GPS, CAD/AVL, On board Cameras, Destination Signs, Wi-Fi, Doors, etc.
 - Determine placement of equipment to optimize passenger and operator ergonomics



- Integration Into District's Asset Management Systems:
 - Creation of a bus procurement folder for each bus
 - Acceptance Documentation (First article inspection, certificate of origin, resident inspector sign-off report, Buy America Certification, serialized component list)
 - Tariff Weight Slip
 - Title and Registration
 - Obtain DMV registration
 - Inclusion into asset inventory (Finance) and vehicle insurance (Risk Management)

- Integration Into District's Asset Management Systems (continued):
 - Vehicle profile entered into SPEAR system
 - Vehicle and system's warranty tracking (SPEAR and PeopleSoft)
- Review the service check list for sign-off, acceptance, and payment



Sample Inspection Forms

		sa	mTra	ans	
BUS #		3,000 MILE	A-INSPECT	TION REPORT TIME STAMP	
		2012 EL DORA	DO AEROTE	ECH - 270 SERIES	
		2013 EL DORA	DO AEROTE	ECH - 240 SERIES W/O #	
HUB READIN	a	2015 EL DORADO	D AEROTEC	H - 219-239 SERIES	
		2017 EL DORA	2017 EL DORADO AEROTECH - 260 SERIES		
BASE			Α	MILES UNTIL INSPECTION	
* NOTE: PERFORM A-INSPECTION BETWEEN "300" MILES AND "0" MILES ONLY *					
CODES:	√= 0K	X = REPAIR REQUIRED	CODE	NOTE ANY DEFECTS AND DESCRIBE REPAIR MA	
COACH EXTE	RIOR				

MECHANIC'S SIGNATURE	DATE:
WCL CYCLE WHEELCHAIR LIFT. CK. W/C LIFT DOOR LIGHTS.CK. BRAKE INTERLOCK SYSTEM. CK. THRESHOLD WARNING PLATE & ALARM CK. OUTER BARRIER ALARM	
CK. W/C TIE DOWNS/TORSO BELT. (VERIFIY I.D. STAMP TO BUS#) ISSUED 8 TIE DOWNS & 3 TORSO BELTS.	TOTAL COUNT: TIE DOWNS TORSO BELT
COACH INTERIOR CHECK ALL INTERIOR LIGHTS	
ENGINE CHECK ENGINE ACC. DRIVE BELT	
VISUAL BRAKE INSPECTION, I.E. PADS, ROTORS, LINES, BRAKE FLUID, CHECK BRAKE OPERATION (SERVICE & PARKING)	
CHECK AND NOTE ALL BODY DAMAGE	
CK BATTERIES, LOAD TEST AND NOTE READINGS	
TORQUE ALL WHEEL NUTS (150 FT. LBS.)	
CHECK TIRE CONDITION & ADJUST TIRE PRESSURE. (FRONT B0 psi, REAR 80 psi)	
CHECK BACK-UP ALARM & RADAR	
COACH EXTERIOR	

PREVENTIVE MAINTEN/	TY TRANSIT DISTRICT
2017 LOW FLOOR GILLIG 7,000 MII	E INSPECTION
(600	SERIES)
BUS #:	CORRENT
BASE:	HUBODOMETER READING:
W/O:	MILES BETWEEN P.M.:
DATE STARTED:	
MECHANIC:	
✓ = O.K. O = ADJUSTMENT MADE	R = REPLACED X = REPAIR REQUIRED
COACH EXTERIOR	COACH INTERIOR (cont'd)
STEAM CLEAN: ENGINE, TRANS, BATTERIES	CK: AIR PRESSURE BUILD UP: 5 MIN MAX @ FAST IDLE FROM 90 TO 130 PSI.
PRESSURE WASH RADIATOR AND HYD. COOLER.	CK: LOW AIR WARNING BETWEEN 55 & 75 PSL
CK: HI-LO BEAMS, TURN SIGNALS, 4-WAY FLASHERS & BEEPER, CLEARANCE &	CK: SPRING BRAKE APPLIED BETWEEN 10 & 45 PSL
DOOR LIGHTS, TAIL, BACK-UP & LIC PLATE LIGHT, MIDDLE BRAKE LIGHTS.	CK: STATIC AIR PRESSURE LOSS 2 PSI (ONE MIN).
CK: ALL LENS CONDITION FOR CRACKS AND WATER. ALIGN BRAKE &	CK: APPLIED BRAKE PRESSURE LOSS 3 PSI (ONE MIN).
REAR TURN SIGNAL LENSES. CK BACK-UP LIGHTS AND ALARM	CK: PARKING BRAKE CONTROLS, OPERATION & DASH INDICATOR LIGHT,
CK: WIPER BLADE & ARM CONDITION & SECUREMENT, ALL WIPER OPERATION.	CK: VALVE FOR LEAKS. CK: PARK BRAKE ALARM & INTERLOCK OVERRIDES.
CK: ALL OUTSIDE BUS MIRROR CONDITION, SECUREMENT.	CK: STEERING WHEEL CONDITION FOR EXCESSIVE STEERING WHEEL
CN: OUTSIDE BUS NUMBERS & LOGOS FOR WHEELCHAIR RAMP& BATTERY	LASH (ENGINE OFF - 2* MAX) & VERTICAL MOVEMENT, CK: COLUMN
DISCONNECT, CHP NUMBERS, WALKMAN FOR	SECUREMENT & BOOT CONDITION. CK: TILT & TELESCOPE OPERATION.
LOCATION & CONDITION. CK: ALL DESTINATION SIGN OPERATION.	LUBE STEERING COLUMN & CK: HORN OPERATION.
CK: FRONT & REAR BUMPER SECUREMENT, ALIGNMENT & CONDITION.	INSPECT BRAKE TREADLE VALVE FOR INTEGRITY, WEAR & CORROSION,
CK: BIKE RACK FOR DAMAGE, ACTUATE ALL LATCHES, HANDLES,	LUBE ROLLER, PIN & HINGE PIN. APPLY 2 TO 4 DROPS OF OIL BETWEEN
AND BRACKETS FOR LOCKING & SMOOTH OPERATION, RESTING ON	PLENGER AND MOUNTING PLATE.
RUBBER BUMPER, WHEN IN UP POSITION. CK: LIGHT ON DASH.	CK: DRIVER'S CONTROLS, LIGHT, SHADES & VISORS, FAREBOX.
CK: FOR LOOSE OR DAMAGED WHEEL WELL SKIRTS CK: HUBODOMETER FOR LEGIBILITY, ACCURACY, CK SHIELD.	CK: AMDT CONTROLS, MOUNT AND BANDNET, CK: PA OPERATION, CK: ANNUNCIATOR AND P.A. SOUND LEVELS USING SIMPSON METER
	MODEL 484-2 AND RECORD FINDINGS
CK: THRE PRESSURE & CORRECT TO 120 PSI FRONT 120 PSI REAR CK: FRONT HUB OIL LEVEL ADJUST AS NECESSARY (85%146)	SEE SERVICE MANUAL FOR PROCEDURE AND SPECS.
CR: PRONT HUB OIL LEVEL, ADJUST AS NECESSARY (85%148) VISUALLY INSPECT ALL WHEELS TO HUB NUT FASTENERS FOR SECUREMENT	CK: DRIVER'S DASH & SIDE CONSOLE FOR CRACKS & SECUREMENT, CK
CK REAR AXLE FLANGE FOR MISSING STUDS & OIL LEAKS	CK: DRIVER'S DASH & SIDE CONSOLE FOR CRACKS & SECUREMENT, CK: FOR MISSING SCREWS, CK: DRIVER'S WINDOW LATCH.
CK: ALL ACCESS DOOR LATCHES, HINGES & PROPS.	CK: KNELLING & WARNING, CK: THROTTLE & INTERLOCK OPERATION
CK: BODY PANELS FOR CRACKS AND BUCKLING.	CK: DRIVER'S SEAT & SEATBELT OPERATION & CONDITION CK: ALL
CK: FUEL CAP OPERATION & SEAL CONDITION.	SEAT ADJUSTMENT MODES ARE OPERATIONAL (LUMBAR, FORE & AFT)
OPEN WET TANK DRAIN VALVE & INSPECT AIR DRYER FOR PURGING AT 90ps	CK. DRIVER SEAT FOR AIR LEAKS & SECUREMENT, CK. WCL RAMP BANDLE.
TO HOMI, CLOSE VALVES CK- AIR DRVER PERGING AT GOVERNOR	CK. FRONT & SIDE WIPERS, WASHER, INTERMITTENT OPERATION
CUT-OUT DBpil MAX.	& ARM ADJUSTMENT.
REMOVE AND CLEAN BATTERY TERMINALS. (pg. 355) CK: BATTERIES FOR	CK. REGISTRATION SLIP, INSURANCE CERTIFICATE, ACCIDENT & E.Q. KIT
CRACKS. CK BATTERY TRAY SLIDES, LOCKS, CABLES & THE DOWNS.	CK: TRASH RECEPTACLE & BAG RING. CK: WARNING TRIANGLES,
LUBE TRAY SLIDES, CK BATTERY DISCONNECT SWITCH OPERATION &	TIRE THUMPER, SPARE THE AIR BAG.
CONDITION, CK VANNER BOX CONNECTION. (Bast term torque 200 (a/hs.)	CK: WINDSHIELD CONDITION
TAKE HYDROMETER READINGS OF EACH CELL, RECORD HILD READINGS	CK: FRONT BOOR, OPERATION, EMERGENCY AIR RELEASE PRESSURE SENSOR & A
"NOTE WATER LEVEL, ADD WATER AFTER READING TO ADJEST LEVEL."	DEMP CYL. CK: DOOR MOTOR, CONTROL RODS & LOCK NUTS. CK: PROXIMITY
BATT. #1 (TOP) BATT.#2 (BOTTOM)	SWITCH OPERATION, ELECT WIRING SECUREMENT. CK: DOOR HANDRAILS.
III III	LUBE DOOR ROLLERS RAILS & HINGES (SILICONE LUBE ONLY)
LOW	CN: DEFRT. & DRIVER'S HEAT OP'S. CLEAN AIR FILTER & COMPARTMENT.
CK: CHARGING VOLTAGE AT BATTERIES (2E# VOLTS +>- ,3VOLT)	REMOVE DEFROSTER COVER FOR PRESSURE CHECK INSPECTION. OPEN DEF VAL
AT FAST IDLE WITH HEADLIGHTS, MARKER LIGHTS & DOME LIGHTS "ON".	CK: SCHEDULE RACK, CONDITION & SECUREMENT.
PERFORM ALTERNATOR OUTPUT TEST AT FAST IDLE. APPLY 159 AMPS LOAD	CK. FRONT AND SIDE. DESTINATION SIGN SECTREMENT, WIRING, & OPERATION
TO CRG. SYSTEM FOR 5 SECONDS. OUTPUT VOLTAGE SHOULD BE (27.6-28.5v) LOAD TEST BATTERIES TO 301 AMPS FOR 15 SECONDS. MIN 54 VOLTS	CK: AIR TANK MOUNTS AND STRAPS, CK: AIR TANKS FOR LEAKS, CK:
LOAD TEST BATTERIES TO 300 AMPS FOR 15 SECONDS. MIN 5.4 VOLTS IF FAILED, NOTE VOLTAGE ON DEFECT CARD	SAFETY RELEASE VALVE OPERATION & CONDITION, PERFORM SR-1 TEST. DRAIN TANKS IN SEQUENCE TO INSPECT FOR PROPER CHECK VALVE
COACH INTERIOR	DRAIN TANKS IN SEQUENCE TO INSPECT FOR PROPER CHECK VALVE OPERATION, REPORT EXCESSIVE AIR SYSTEM CONTAMINATION.
CK: DASH INDICATOR LIGHTS AT IGNITION ON.	CK: ALL DO CONTROLS FOR SECUREMENT & WIRE ROUTING.
CK: ABS LIGHT - SHOULD ILLUMINATE MOMENTABILY WHEN BUS IS	CK. 5 MIN SLEEP MODE OPERATION
STARTED - IF LIGHT DOES NOT ILLUMINATE OR STAYS	CK: 5 MIN SEREP MODE OPERATION CK: DOME LIGHTS OPERATION. CK: DOME LIGHT ASSY. FOR SECUREMENT.
RLEMINATED NOTE AN DEFECT	CK: ALL STANCHIONS, GRAB RAILS & MODESTY PANELS.
CK: YELLOW & RED ENGINE WARNING LAMPS - SHOULD ILLUMINATE	CK: WHEELCHAIR SEAT LOCKS & BELT CONDITION.
MOMENTARILY BUT SHOULD NOT STAY ON OR FLASH CODES.	CK: PASSENGER SEATS, ANCHORS & UPHOLSTERY CONDITION.
CK: AIR GOVERNOR CUT OFF MAX 136 PSI.	CK: ALL SEAT BACKS FOR VANDALISM
2017 GECK-AUR GOVERNOR CUT IN MIN 90 PSL	CK- PASSENGER CHIME CORDS. CK: TOUCH PADS & SIDE WCL SEATS

	TY TRANSIT DISTRICT		
	ANCE INSPECTION REPORT		
2017 LOW FLOOR GILLIG 14,000 MH	LE INSPECTION		
	SERIES) CURRENT		
BUS #:	CURRENT		
BASE:	HUBODOMETER READING:		
W/O:	MILES BETWEEN P.M.:		
DATE STARTED:			
MECHANIC:			
✓ = O.K. O = ADJUSTMENT MADE	R = REPLACED X = REPAIR REQUIRED		
O ADJESTINE I MADE	R - REFERENCED A - REFAIR REQUIRED		
COACH EXTERIOR	COACH INTERIOR (cont'd)		
STEAM CLEAN ENGINE, TRANS, BATTERIES	CK: AIR PRESSURE BUILD UP: 5 MIN MAX & FAST IDLE FROM 90 TO 130 PSL		
PRESSURE WASH RADIATOR AND HYD. COOLER.	CK: LOW AIR WARNING BETWEEN 55 & '5 F51 CK: SPRING BRAKE APPLIED BETWEEN 50 & 45 F51		
CK. HI-LO BEAMS, TURN SIGNALS, 4-WAY FLASHERS & BEEFER, CLEARANCE & 20008 LEGHTS, TAIL, BACK-UP & LIC PLATE LIGHT, MIDDLE BRAXE LIGHTS.	TA: MINING BRAKE APPLIED BETWEEN 10 & 49 PM		
CR: ALL LENS CONDITION FOR CRACKS AND WATER, ALIGN BEAKE &	CK. APTUED BRAKE PRESSURE LONG 2 PS (ONE ADA).		
REAR TURN SIGNAL LENSES. CK RACK-UP LIGHTS AND ALARM	CR. PARKING BRAKE CONTROLS, OPERATION & DASH INDICATOR LIGHT,		
CK. WIPER BLADE & ARM CONDITION & SECUREMENT, ALL WIPER OPERATION.	CK: YALVE FOR LEAKS, CK: PARK BRAKE ALARM & INTERLINCE OVERRIDES.		
CK: ALL OUTSIDE BUS MIRROR CONDITION, SECUREMENT.	CK: STEERING WHEEL COMBITION FOR EXCESSIVE STEERING WHEEL		
CK. OUTSIDE ELS NUMBERS & LOGOS FOR WHEELCHAIR RANDA RATTERY DISCONNECT, CHTNEMBERS, WALAMAN, FOR	LASH (ENGINE OFF - 2" MAX) & VERTICAL MOVEMENT, CR: COLEMN		
DISCONNECT, CHI SUMBERS, WALKNEN, FOR LOCATION & CONDITION, CK. ALL BESTINATION SIGN OPERATION.	SECREMENT & BOOT CONDITION. CK. THAT & TELESCOPE OPERATION. LEBE STEERING COLEMN & CK. HORN OPERATION.		
CK. FRONT & KLAR BUMPER SECURIDIENT, ALIGNMENT & CONDITION.	INSPECT BRAKE TREADLE VALVE FOR INTEGRITY, WEAR & CORROSSON.		
CK: BIKE BACK FOR DAMAGE, ACTUATE ALL LATCHES, HANDLES,	LEBE FOLLER, FIN & HINGE FIN. APPLY 1 TO 4 DROPS OF OIL BETWEEN		
AND BRACKETS FOR LOCKING & SMOOTH OPERATION, RENTING ON	PLUNCER AND MOENTING PLATE.		
RUBBER BENPER, WHEN IN UP POSITION, CK: LIGHT ON BASH.	CK: DRIVER'S CONTROLS, LIGHT, SHADES & VISORS, FAREBOX.		
CN. FOR LOOSE OR DAMAGED WHETL WILL SKIRTS	CK. AMDT CONTROLS, MOUNT AND BANDSET, CK. PA OPERATION.		
CK. III.BODOMETER FOR LEGIBILITY, ACCURACY, CK SHIELD. CK. TIRE PRESSUR & CORRECT TO 129 PSI FRONTIZI PSI REAR	CK. ANNUNCIATOR AND F.A. SOUND LEVELS USING SIMPSON METER MODEL 1884-2 AND RECORD ENDINGS.		
CK. FRONT ILLE OIL LEVEL, ADJUST AS NECESSARY (25-140)	SEE SERVICE MANUAL FOR PROCEDURE AND SPECS.		
VISUALLY INSPECT ALL WRITES TO BE BILT PASTENERS FOR SECUREMENT	CK: DRIVERS DASH & SIDE CONSOLE FOR CRACKS & SECUREMENT, CK:		
CK REAR AXLE PLANGE FOR MISSING STUDS & OIL LEAKS	FOR MINING SCREWS, CK. BRIVER'S WINDOW LATCH.		
CN: ALL ACCESS DOOR LATCHES, HINGES & PROPS	CK. KNIELING & WARNING, CK: THROTTLE & INTERLOCK OPERATION		
CK: BODY FANELS FOR CRACKS AND BUCKLING.	CK: DRIVER'S SEAT & SEATBELT OPERATION & CONDITION, CK: ALL		
CK: FUEL CAP OPERATION & SEAL CONDITION. OPEN WET TANK DRAIN VALVE & INSPECT AIR DRYLE FOR PERCENC AT 1004	SEAT ADJUSTMENT MODES ARE OPERATIONAL (LUMBAR, FORE & AFT)		
TO 100pm, CLOSE VALVES CK. AIR DRVER PERCING AT GOVERNOR	CK. DRIVERSEAT FOR AIR LEAKS & MCCREMENT, CK. WEL RAMP HANDLE. CK. FRONT & SIDE WIPERS, WASHER, INTERMITIENT OPERATION		
CUT-OUT IPpu MAX	A ARM ADJUSTMENT		
REMOVE AND CLEAN BATTERY TERMINALS. (pp. 355) CK. BATTERIES FOR	CK. RECENTRATION SLIP, INSURANCE CERTIFICATE, ACCIDENT & LQ. KIT		
CRACKS, CK BATTERY TRAY SLIDES, LOCKS, CABLES & THE DOWNS.	CK: TRASH RECEPTACLE & BAG RING, CK: WARNING TRANGLES,		
LEBE TRAY SLIDES, CK BATTERY DISCONNECT SWITCH OPERATION &	THE DIUMPER, SPARE THE AIR BAG		
CONDITION, CK VANNER BOX CONNECTION, (Rattiers hope 20 mills) TAKE HYDROMETER READINGS OF EACH CELL, RECORD HILLD READINGS	CK: WISDSHELD CONDITION		
"NOTE WATER LEVEL, AND WATER AFTER READING TO ADJUNCT LEVEL"	CK. FRONT BOOR, OPERATION, EMERGENCY AIR RELEASE PRESSURE SENSOR & AIR INFO CYL, CK. DOOR MOTOR, CONTROL RODS & LOCK NUTS, CK. PROXIMITY		
BATT AT (TOP) BATT AT (BOTTON)	SWITCH OPERATION, ELECT WIRING SECUREMENT: CK: BOOR BANDRAILS		
NI III	LUBE DOOR ROLLERS BAILS & HINGES (SILICONE LEBE ONLY)		
LOW	CK: DEFRT. & DRIVER'S NEAT OP'S, CLEAN AIR FILTER & COMPARTMENT.		
CR: CHARGING VOLTAGE AT BATTERIES (260 VOLTS 45 JVOLT)	REMOVE BURGSTER COVER FOR PRESSURE CHECK INSPECTION, OPEN DEF VALVE WHEN DONE		
AT FAST IDLE WITH HEADLIGHTS, MARKER LIGHTS & DOME LIGHTS 'ON'. PERFORM ALTERNATOR OUTPUT TEST AT FAST IDLE. APPLY 106 AND A LOAD	CK SCHEDULE RACK, CONDITION & SECUREMENT.		
TO CHG, SYSTEM FOR SSECONDS, OCTIVET YOLTAGE SHOELD BE (2246-28-5)	CK. FRONT AND SIDE. BENTRATION SIEN SECTIONS OF A OFFICIATION OK: AIR TANK MOLINTS AND STRAPS. OK: AIR TANKS FOR LEAKS. CK.		
LOAD TEST BATTERIES TO ME AMPS FOR 15 SECONDS, SIN 9,6 VOLTS	ANTEL VALUE AND STRAPS OF AN ADDITION A CONDITION. PERFORM SET TEST.		
IF FAILED, NOTE VOLTAGE ON DEFECT CARD	DRAIN TANKS IN SEQUENCE TO INSPECT FOR PROPER CHECK VALVE		
COACH INTERIOR	OPERATION, REPORT EXCENSIVE AIR STATEM CONTAMINATION.		
CK: DASH INDICATOR LIGHTS AT IGNITION ON	CR: ALL 1/G CONTROLS FOR SECUREMENT & WIRE BOLTING.		
CK: AIN LIGHT - SHOULD ILLUMINATE MOMENTARILY WHEN BIS IS STARTED - IF LIGHT DOES NOT ILLUMINATE OR STAYS	CK. 5 MIN SLEEP MODE OPERATION		
RELEVENATED NOTE AS DEPICT	CK: BOME LIGHTS OPERATION: CK: BOME LIGHT ASSY FOR SECUREMENT. CK: ALL STANCHONS, GRAF BAILS & MODESTY PANELS.		
CK: VILLOW & RED ENGINE WARNING LAMPS - SHOULD ILLUMENATE	CK. WHELCHARK SEAT LOCKS & BELT CONDITION.		
NOMENTABLY BUT SHOULD NOT STAY ON OR PLASH CODES.	CK. PASSENCER SEATS, ANCHORS & UPHOLSTERY CONDITION.		
CK- AIR GOVERNOR CUT OFF MAX 130 PSI.	CK: ALL SEAT BACKS FOR VANDALISM		
CK. AIR GOVERNOE CET IN MIN 40 PSL COACH INTERIOR	CK: PASSENGER CHINE CORDS: CK: TOUCH PADS # SIDE WCL SEATS		
COACH INTERIOR CK. STOP REQUESTED: SIGN & LIGHT ON DAME, CHIME AND RESET SWITCH	FILL ENGINE WITH 22 qs. OIL 15w-46 OIL START &C RUN FOR INFE THEN		
CK. WINDOWS WEATHER-STREPPING EMERGE WINDOW LATCH OPERA-	RECHECK ENGINE OR LEVEL (ADJUST AS NEEDED)		
TOLIG PARA C DE	E		

A - FORM M17-70 (rvsd 7/2015) '12-'13-'15 El Dorado A

'12-'13-'15 El Dorado All PM Forms 219-239_240_ 270 SERIES

M12

samTrans

- Prior to Revenue Service
 - Complete equipment familiarization for maintenance and transportation
 - Training provided by bus manufacturer, and sub-system OEMs
 - Finalize Preventive Maintenance Inspection (PMIs) schedules and documents
 - Vehicle serviced, detailed, and made ready for revenue service
 - Add cards, placards, and route schedules
 - Release 5-10 buses into revenue service