

mo-Ce

Locomotive Release from Shop Form
To be completed on every engine released from the Shop

I have reviewed the work packet for locomotive <u>5017</u> on this date <u>10-21-11</u> and take no exception to applicable laws, rules and or MMA standards, policies and standards.

Top DECK INSP - Iblack

BASE INSP - Iblack

FUEL GITEK - Iblack

Lube oil GITERS - Iblack - NEW ORING - JB.

AIR INTAKE GITER - OK

GOMPRESSOK INTAKE GITER 
Oil SAMPLE - JBlack.

COOLING WATER / COLOR - OK - JBlack

A THESE Things NBGO TO BE IN PACKET.

	Service	Operations THROTTLE 8 OUTBOUND LOAD TESTS	UNIT 5017 DATE 10 - 21-1)
Eng RPM (900) Fing RPM (1050) Horsepower Volts (5.3) Volts (7) Volts (720)	EMD GE B-23 C-30 B-39	Labe Oil Fres Water Femp Overspeed Setting RACK SETTING	
The second secon	de kronisa iz 2000 grandinos (1955 grandina) en	THROTTLE #1 STALL TEST	er Committee (or a sense from men color parte has reconstructed about a society construction of the color of
OP Mode AMPS MGA Charging Rate	(PWR) (300) (1220) (70v)	NOT APPLICABLE TO B-23 AND C-30	AND ARTICLES OF A COUNTY TO AN A PARTICLE OF ARTICLES OF A COUNTY

B-23, B-39, C-30, GP-7 MO3 INSPECTION		<del>-</del>	
In-Bound Loadtest Electrical/Mechanical		WORKED B	Y:
ELECTRICAL			
VERIFY THE OPERATION OF THE GROUND RELAY			
CHECK FOR LOW VOLTAGE GROUNDS (7 watt bulb)	<del></del>		
WHILE IN THROTTLE 3 LOAD TEST, CHECK FOR AC GROUNDS			
CHECK OPERTION OF:			
A. HEATING		<u> </u>	
COMPLETE THE IN-BOUND LOAD TEST SHEETS	· · · · · · · · · · · · · · · · · · ·		
GROUND RELAY-(TEST THREE TIMES TO VERY LOCK-OUT)(DYNAMIC &	POWER)		
CHECK THE FOLLOWING FOR PROPER OPERATION:		<del> </del>	
A. CREW ALERT	· · · · · · · · · · · · · · · · · · ·	<del> </del>	
B. RADIO AND ANTENNA			
C. AXLE ALT. SPEEDO			
D. MU ENGINE SHUTDOWN			
E. FUEL CUT-OFF			
F. TEST WARNING DEVICES			
MECHANICAL			
CLEAN AND SERVICE TOILET AND RESTROOM			
DRAIN RETENTION TANK		1 11	
PROPER LUBRICATION? FUEL LEAKS? CAM ROLLER ROTATION? ETC.		Us Bleck	
NSPECT FUEL SYSTEM HOSES AND PIPES FOR LEAKS		1 G Mark	
INSPECT COOLING SYSTEM:		600466	ch
A: CHECK HOSES AND PIPES FOR LEAKS		UNKECK	
CHECK OPERATION OF ENGINE PROTECTION DEVICES:			
A. CRANKCASE PRESSURE			
/ISUALLY INSPECT AIR COMPRESSOR FOR WATER, AIR OR OIL LEAKS		Iplack	
PERFORM MANUAL AIR BRAKE TEST		1	
/erify Flow Gauge	NOTE: 120-		:
30 main reservoir is 64 + or - 3,	130-140 main		ing.
eservoir is 60 + o			
PERFORM PENALTY BRAKE TEST		5. 345	
CHECK FOR CORRECT AIR PRESSURE SETTINGS:			
A. MAIN RESERVOIR (130 - 140 PSI)			
B. BRAKE PIPE (90 PSI)			
E EQUALIZING RESERVOIR (90 PSI)			
). BRAKE CYLINDER (72 - 74 PSI)			
COMPRESSOR CONTROL (130 - 140 PSI +/-5 PSI)			
HECK FLUID LEVELS BEFORE LOADING:			
: ENGINE OIL			
: COOLING WATER			
: AIR COMPRESSOR OIL			
EST OPERATION OF THE FOLLOWING DEVICES:		7°2	
BELL			
. SANDERS (FORWARD, REVERSE, EMERGENCY)			
RADIATOR SHUTTERS			

B-23, B-39, C-29, GP-7 MO3 INSPECTION	•
	WORKED BY:
ME ANICAL IN HOUSE	
REVIEW LAB CODE AND PERFORM A COMPLETE AIRBOX/CRANKCASE INSPECTION IF A LAB	
CODE EXISTS	
WITH THE ENGINE WARM, PRESSURE TEST COOLING SYSTEM AT 20 PSI FOR 15 MINUTES AND IF	
THE PRESSURE ON THE GAUGE DOES NOT DROP, THEN NO FURTHER ACTION IS REQUIRED	
CHANGE THE FOLLOWING FILTERS AND ASSOCIATED GASKETS	
FUELSPIN ON FILTERS. EMD ONLY GR TUEL TILE / CHINING	Splach
SOAK BACK FILTER. EMD ONLY	
TURBO SPIN ON FILTER. EMD ONLY COMPLETE FRA INSPECTION (DAILY INSPECTION CHECKLIST)	
CARBODY	
INSURE SAND NOZZLES AND HOSES ARE IN PLACE AND SECURED. MAKE SURE THEY ARE	
ALIGNED WITH WHEEL AND TRACK. INSPECT SAND TRAPS AND REPAIR AS NEEDED.	
INSPECT COUPLERS & DRAFT GEARS. MAKE REPAIRS AS NECESSARY	
CHECK KNUCKLE CLEARANCE AND KNUCKLE THROWER, MAKE REPAIRS AS NEEDED AND APPLY	·
SPARE KNUCKLES (E AND F TYPE) (2.5")	
INSPECT PIN LIFTERS CHECKING FOR PROPER HAND CLEARANCE AND ANTI-CREEP CHECK SNOWPLOW (IF EQUIPPED) FOR HANDHOLDS AND PROPER DISTANCE	
CHECK SNOWFLOW (IF EQUIFFED) FOR HANDHOLDS AND FROPER DISTANCE  CHECK AUTO BLOWDOWNS FOR PROPER OPERATIONS IN AUTOMATIC MODE	
ENSURE SUMP DRAINS ARE OPEN AND FREE OF DEBRIS	
TRUCKS	
INSPECT WICK BOLT SECUREMENT AND REPAIR IF NECESSARY	
CHECK SUSPENSION BEARING OIL LEVEL	
CHECK JOURNAL BOX OIL LEVEL (FILL TO POINT OF OVERFLOW)	
CHECK GEAR CASES AND INSPECT BULL GEAR (ADD 6lbs. OF GEARCASE GREASE)	
CHECK OIL FILLED GEAR CASES AND FILL (RECORD USAGE BELOW)	
# 1 TRACTION MOTOR: OIL USED	
# 2 TRACTION MOTOR: OIL USED	
# 3 TRACTION MOTOR: OIL USED	
# 4 TRACTION MOTOR: OIL USED	
# 5 TRACTION MOTOR: OIL USED	
# 6 TRACTION MOTOR: OIL USED	
INSPECT ALL BRAKE HANGERS, HEADS, GUIDES AND STRAPS ENSURING BRAKE SHOES ARE IN	
LINE WITH WHEELS	
CAB	
CHECK FIRE EXTINGUISHERS, DATE AND TAG. REPLACE IF USED OR OUT OF DATE.	
CHECK CAB SEATS FOR PROPER OPERATION INSURING ALL BOLTS ARE IN PLACE AND TIGHT.  CHECK HANDBRAKE AND INSPECT DATE. MAKE REPAIRS AS NECESSARY	
MISC	
IN ACCORDANCE WITH FRA 229.23. VERIFY AIR GAUGES (+/- 3PSI) (CALIBRATE AT +/- 1PSI,	
REQUIRES 130 PSI MR)	011
CHECK ALL FLUID LEVELS, ENGINE OIL, COOLING WATER, AIR COMPRESSOR OIL	6/1/2/esh
DRAIN RETENTION TANK	N/A
TOILET MAINTENANCE: A. INSPECT/REPAIR AS NEEDED TOILET DRAIN VALVE & FLOOR SEALS	
Cab Seat Inspection:  A. INSPECT THE VERTICAL ADJUSTMENT LEVER. VERIFY THAT THE LEVER OPERATES AND THAT	
THE SEAT PAN ADJUSTS UP AND DOWN AND DOES NOT DROP SUDDENLY.	
B. LUBRICATE PIVOT POINTS	
C. INSPECT ROTATION ADJUSTMENT LOCKING PIN. VERIFY THAT THE LOCKING PIN OPERATES	
(PULL OUT TO RELEASE LOCK) AND THAT THE SEAT ROTATES WHEN UNLOCKED.	
D. LUBRICATE THE PIN MECHANISM.	
E. SEAT PAN COMPONENTS: INSPECT THE FORE-AFT FINE ADJUSTMENT LEVER.	
F. VERIFY THAT THE LEVER SLIDES SIDEWAYS TO UNLOCK SEAT FOR/AFT ADJUSTMENT AND	
SACTUMEST OF AMETHRASILY	

B-23, B-39, C-30, GP-7 MO3 INSPECTION	Revision Date: 8/18/2010 Issued By: Tim Scalia
	WORKED BY:
Electrical in House	1
SERVICE THE BATTERIES AND COMPLETE JSP-010	sor Throper
VERIFY EVENT RECORDER IS WORKING	glor Stopokamy
CHECK & RECORD THE DATE ON HEAD END DEVICE 5 - DEC- 2010	sa) Thyskewicz
COMPLETE THE HEAD END DEVICE CONNECTOR SHEET	
CHECK THE FOLLOWING EQUIPMENT AND THEIR RELATED GUARDS AND LENSES FOR	
PROPER OPERATION:	
CHECK ALL GROUND AND STEP LIGHTS, FRONT AND REAR HEADLIGHTS, DITCH LIGHTS,	and I
CAB LIGHTS, GAUGE LIGHTS, NUMBER PLATES. PLATFORM LIGHTS, ALL WARNING AND	poper
INDICATOR LIGHTS	0
TRACTION MOTORS AND UNDERFRAME	
CHECK THE TRACTION MOTOR LEADS, VERIFY NO LEADS ARE RUBBING ON THE FRAME	Dog Styrity
INSPECT TRACTION MOTOR COVERS AND ENSURE BOLTS ARE IN PLACE AND TIGHT	2 thouse
CHECK M.U. RECEPTACLE PINS AND LIDS. MAKE NECESSARY REPAIRS	Later The presert
MAKE SURE M.U. CABLES DO NOT FOUL COUPLERS	

Fuelpurp brushless - Dft 
Checked brushes omn Gen - Dft,

1) 11 Aux Gen - Dft,

1) 11 Exc. Gen. Dft,

1) CAB-HEATER = Lityrher

B-23, B-39, C-30, GP-7 MO3 INSPECTION	4
G. IF THE SEAT MOVEMENT IS IMPEDEL REMOVE SEAT CUSHION AND INSPECT SEAT PAN	Lancing Control of the Control of th
ROLLER TRACK FOR DEBRIS, MALFUNCTION, OR LACK OF LUBRICATION.	
H. INSPECT SEAT RAILS AND REPLACE IF DAMAGED OR WORN BEYOND PROVIDING SECURE.	
STABLE MOUNTING OF SEAT.	
I. INSPECT THE FORE/AFT SEAT POSITIONING TRACK. INSPECT THE SEAT RAILS AND REPLACE	
IF DAMAGED OR WORN BEYOND PROVIDING SECURE, STABLE MOUNTING OF SEAT.	
J. LUBRICATE THE SEAT RAILS WITH SILICONE LUBRICANT.	
K. INSPECT THE BACKREST RAKE ADJUSTMENT KNOW. VERIFY THAT THE KNOB ROTATES	
EASILY TO ADJUST BACKREST ANGLE.	
L. INSPECT KNOB FOR CRACKS OR SPLITS AND THAT IT IS SECURELY FASTENED.	
M. INSPECT GEAR MECHANISM FOR ANY WEAR OR DAMAGE.	
N. ENSURE THAT THE BACKREST MECHANICAL STOP IS INTACT AND FUNCTIONS AS INTENDED-	
PREVENTS THE SEAT BACKREST FROM RECLINING BEYOND APPROXIMATELY 45 DEGREES	
BACKWARDS FROM A VERTICAL POSITION.	
O: INSPECT THE LUMBAR SUPPORT ADJUSTMENT LEVER. VERIFY THAT THE ADJUSTMENT	
LEVER OPERATES EASILY TO ADJUST THE LUMBAR SUPPORT.	
P: VERIFY ALL ARMREST FASTENERS ARE SECURE. REPLACE ANY MISSING OR STRIPPED OUT	
FASTENERS.	
Q: INSPECT ARMREST SWIVEL FASTENERS. ENSURE SWIVEL FASTENER IS SECURE ON EACH	
ARMREST SUCH THAT THE ARMREST IS WITHOUT SIDE TO SIDE MOVEMENT. ARMREST SHOULD	
SWIVEL TO VERTICAL. ARMREST SHOULD NOT DROP DOWN PAST IT'S ORIGINAL STOP.	
R: INSPECT SEAT FABRIC ON SEAT PAN AND BACKREST. INSPECT FOR RIPS, TEARS, OR HOLES.	
SEAT PAN OR BACKREST COMPONENT MAY BE REPLACED IF THERE IS AN EXCESSIVE RIP, TEAR,	
OR HOLE.	
SEAT PART NUMBERS:	
Cab Seat, Freight with arms: 2043511	
Cab Seat Mid Back: 20425731	
Wall Mounted Pedestal: 20435541	
Trunion Pedestal Assembly: 20425721 Seat Pedestal Rail Left Side 65": 20422211	
Seat Pedestal Rail Right Side 46": 20422221	
INSPECT AND REPAIR AS REQUIRED:	
A. CAB / CARBODY/DOORS/HINGES/WINDOWS/LATCH SEALS/WEATHER STRIPPING AND	
SEALS/MIRRORS. ALSO LUBRICATE/CHANGE AS NEEDED	
A. CLEAN THE CAB, WINDOWS, AND EQUIPMENT	
COMPLETE WINTERIZATION SHEET (AUGUST - APRIL)	
WASH LOCOMOTIVE ENGINE/ENGINE ROOM/AND AIR COMPRESSOR ROOM	
WASH THE LOCOMOTIVE	

DOS DOS OD THOSE NODE OF TAKE		•
B-23, B-39, C-30, GP-7 MO3 INSPECTION		
Out Bound Loadtest Electrical/Mechanical		WORKED BY:
ELECTRICAL		/
VERIFY THE OPERATION OF THE GROUND RELAY		200 thousand
CHECK FOR LOW VOLTAGE GROUNDS (7 watt bulb)		for thoche
WHILE IN THROTTLE 3 LOAD TEST, CHECK FOR AC GROUNDS		2
CHECK OPERTION OF:		
A. HEATING		glas Stypus
COMPLETE THE BOUND LOAD TEST SHEETS		26 Troiling
GROUND RELAY-(TEST THREE TIMES TO VERY LOCK-OUT)(DYNAMIC &	POWER)	De Strown
CHECK THE FOLLOWING FOR PROPER OPERATION:		
A. CREW ALERT		So Showing
B. RADIO AND ANTENNA		Sof Superprise
C. AXLE ALT. SPEEDO		De Alipetra
D. MU ENGINE SHUTDOWN		Life & your
E. FUEL CUT-OFF		Deston
F. TEST WARNING DEVICES		dof y Super -
MECHANICAL		
CLEAN AND SERVICE TOILET AND RESTROOM		
DRAIN RETENTION TANK	•	
PROPER LUBRICATION? FUEL LEAKS? CAM ROLLER ROTATION? ETC.	•	
INSPECT FUEL SYSTEM HOSES AND PIPES FOR LEAKS		
INSPECT COOLING SYSTEM:		· · · · · · · · · · · · · · · · · · ·
A: CHECK HOSES AND PIPES FOR LEAKS		
CHECK OPERATION OF ENGINE PROTECTION DEVICES:		
A. CRANKCASE PRESSURE	<del>,</del>	
VISUALLY INSPECT AIR COMPRESSOR FOR WATER, AIR OR OIL LEAKS		
PERFORM MANUAL AIR BRAKE TEST		
Verify Flow Gauge	NOTE: 120-	
130 main reservoir is 64 + or - 3,	130-140 main	
reservoir is 60 + o		
PERFORM PENALTY BRAKE TEST		
CHECK FOR CORRECT AIR PRESSURE SETTINGS:	·	
A. MAIN RESERVOIR (130 - 140 PSI)		
B. BRAKE PIPE (90 PSI)		·
C. EQUALIZING RESERVOIR (90 PSI)		
D. BRAKE CYLINDER (72 - 74 PSI)		
E. COMPRESSOR CONTROL (130 - 140 PSI +/-5 PSI) CHECK FLUID LEVELS BEFORE LOADING:		
A: ENGINE OIL		
B: COOLING WATER		
C: AIR COMPRESSOR OIL		
TEST OPERATION OF THE FOLLOWING DEVICES:		
A. BELL		
B. SANDERS (FORWARD, REVERSE, EMERGENCY)		
C. RADIATOR SHUTTERS	<del>-</del>	
O. 10 CONTROL		

UNIT <u>5017</u> DATE <u>10 -21 - 1</u>1 Service Operations

THROTTLE 8 OUTBOUND LOAD TESTS Eng RPM (Otal) EMD Labe Oil Pres 100°F Hing RPM (1050) GE. Water Temp. 3172.5 Horsepower Overspeed Setting Volts (5.3) 13-23 RACK SETTING Volts (7) C-30 Volts (720) 13-39 THROTTLE #1 STALL (PWR) OP Mode AMPS (300)NOT APPLICABLE TO B-23 AND C-30 MGA (1220)Charging Rate (70v)

						LOCON	MOTIVE					DATE		
<b> </b>	<del>'T</del>	Start	Readings	<del></del>	На	s Shims	1	<del></del>	END RE	ADING	L	Ha	s Shims	OLD GAUGE
	Flange Height	Flange Thickness	Rım Thickness	Witness Grove	YES	NO		Flange Height	Flange	Rim Thickness	Witness Grove	YES	NO	FLANGE THICKNESS MEASUREMENT
L#1							L#1							0 - cn 0 - 1 - 17/64*
L#2							L#2							2 - co 0 - 1 - 1/32 3 - co 0 - 1 - 5/32
L#3							L#3							4 - on 0 - 1 - 7/64° 5 - on 0 - 1 - 3/64° 6 - on 0 - 1 - /32°
L#4							L#4							7 - on 0 - 63/64" 8 - on 0 - 15/16"
L#5							L#5							
L#6							L#6							OLD GAUGE
														FLANGE HEIGHT
R#1							R#1							MEASUREMENT 0-on-01"
R#2							R#2							0-on-11-1/16" 0-on-21-1/8"
R#3							R#3							0-on-31-3/16" 0-on-41-1/4"
R#4							R#4							0-on-51-5/16" 0-on-61-3/8" <b>2-on-61-13/32</b> "
R#5							R#5					ļ		4-on-61-7/16" 6-on-61-31/64"
R#6							R#6						•	
FRA 5/16"  W FLANGE Height FRA 1 ½" MMA 1 7/16"	Flange THICKNES	- ROAD & SWI	Tread Wear TCH LOCOS - I Rim THICKNESS FRA 1" MMA 1 1/8"	MIN 92 DAY R	Tread WEAR FRA 5/16"	WEAR LIMITS Flange HEIGHT FRA 1 1/2" MMA 1 7/16"	- PASSENGER Flange THICKNESS FRA 7/8"	R LOCOS - MIN 92 Rim THICKNESS FRA 1" MMA 1 1/4"	DAY REQ Tread WEAR FRA 5/16"				HEIGHT MEASUREMENT	0-on-211-5/16" 0-on-221-3/8" <b>2-on-221-13/32"</b> 4-on-221-15/32" 6-on-221-1/2"
			EEL DIAMET	FR		•				J			+	NEW GAUGE
8=	37"	15=	37 7/8"	LIX	22=	38 ¾"	29=	39 5/8"	36=	40 ½"				<u> </u>
9= 10=	37 1/8" 37 ½"		38" 38 1/8"		23= 24=	38 7/8" 39	30= 31=	39 ¾" 39 7/8"	37= 38=	40 5/8" 40 ¾"				0 = on 0 = 1 - 17/64" 1 = on 0 = 1 - 15/64"
11=	37 3/8"	18=	38 ¼"		25=	39 1/8"	32=	40"	39=	40 7/8"				2 on 0 -1 - 7/32"
12=	37 ½" 37 5/8"		38 3/8" 38 ½"		26= 27=	39 ¼" 39 3/8"	33= 34=	40 1/8" 40 ¼"	40= 41=	41" 41 1/8"			FLANGE THICKNESS	3 - on 0 - 1 - 5/32" 4 - on 0 - 1 - 7/64"
13= 14=	37 3/6		36 72 38 5/8"		28=	39 1/2"	35=	40 3/8"	42=	41 1/4"			MEASUREMENT	5 - on 0 - 1 - 3/64"
LOCOMOTIV	E RAIL CLEA	RANCE -											OLEAGANGE	6 - on 0 - 1 - 1/32"
	MAX 34 1/5"	FRONT	FRA	ILOT HEIGHT	MAX 6" MIN 3"	FRONT		ORIZONTAL END ING LEVER IF US		NTAL.		<u> </u>	L CLEARANCE	7 - on 0 - 63/64° 8 - on 0 - 15/16°
	MIN 31 1/3"	REAR	MMA.		MAX 6"	REAR	1	FRA MIN 30" MMA MIN 30"				FRA MIN 2 ½	r	
	MAX 34 1/3" MIN 32 1/3"				MIN 3 %			FRA MAX 50° MMA MAX 50°			·	MMA MIN 3°		
WHEEL DIA	METER MEA	SUREMENTS	ARE TAKEN F	ROM THE TO	P OF THE WI	TNESS GROOV	/E 40" DIAMET	TER WHEELS WIT	NESS GROVE	= 36"	·			•
		WITNESS GRO			.55. 6 111.		C +DE THE O	we.						
IS THE M	AZIMUM VA MAXIMUM v	RIATION ALL ARIATION A	.OWED, IN WI	HEEL DIAME WHEEL DIAW	TER, BETWI	EÉN ANY 2 W WEEN ANY 2 Y	WHEELS IN Tr	SAME TRUCK SE SAME TRUCK SESENT TRU	VVIIH SHIMS					
REMEMBER T # 10 5 DIAME FOR ONLY ON	THIS RULE TER DIFFERENC IE 181 GHIM EMD	CE NO SHIMS RE PART HUMBER	GUIRED 6 TO 10 D	DIAMETER DIFFE TREAD AND FL	RENCE ADD API AT SPOTS MUST	PROPRIATE SHIM BE TRUES OF O	S TO BOTH BOXES	E WHEEL DIAMETER : ON BOTH SIDES OV DUND ON PERIODIC (	ER 10 IN DIAMETE	R DIFFERENCE RE MAINTENANCE RI	QUIRES WHEEL CS CONDEMNIN	CHANGE OR TR SUMITO FOR SI	UEO <b>NOTE</b> : ON E ELLED TREAD ON A	EMD LOCOMOTNES SERVICE TRAIX
EMPLOYEE	S SIGNAT	URE		<del></del>	/ <del>////////////////////////////////////</del>			SUPERVISOR	RS SIGNATU	RE				

## Monareau Maine, & Atlantic Raliwey

111.	i kac
_	3 Month Legent. Vir Work.
: .	Inspect and repair air piping and valves for leaks
<u> </u>	Test all air gauges with gauge tester and set if required
3.	With full brake pipe pressure, make a 20lb. reduction, move the cutoff valve to "OUT" position and move the lead – dead valve to "DEAD" position. Brakes must remain applied for 5 minutes.
4.	Cover each trainline hose coupling with hand and test for leakage through valve, then apply blank dummy couplings to the trainline hoses on each end of the unit and open trainline valves. Make a 20lb. reduction with the Automatic, move the cutoff valve to "OUT" position and check for brake pipe leakage. Leakage shall not exceed 5 lb. per minute.
Ch Lea	Reduce main reservoir pressure to 85 lbs. by draining #2 main reservoir.(*) eck cab gauge for leakage from main reservoirs and piping for 3 minutes. akage must not exceed an average of 3 lb. per minute during the
Pre	Drain #1 main reservoir (*) completely and test check valve between reservoirs. ssure should remain on the main reservoir gauge in the cab as #1 main reservoir is ined.
/); <sup>*</sup> ;*	Check all Muralize handles to ensure the locking devices work properly. Labiticate replace as sessary.
	Check handlie thrower porable sure it opens the imachief Labricase or repubasesessary
<u>.</u> No	i

## JSP-010 (BATTERY MAINTENANCE AND QUALIFICATION) JOB SPECIFIC PROCESS

Locomotive Type: ALL MODELS Valid for Road Numbers: (All Models)

SPECIAL TOOLS OR EQUIPMENT: MMA 5017	
SEQUENCE OF JOB STEPS	Please print your nam NO signatures
1. Ensure the locomotive is shutdown, discharged, all of the circuit breakers are open and the battery knife switch is open.	DAVID
Battery Qualification/Maintenance	
2. NOTE: If batteries are dead, connect the charger until the charge rate falls below 10 amps to determine state of charge. Readings under 20 V are suspect for units with just 2 batteries.	
3. Insert hose stem into battery cell and squeeze bulb.	
4. Release pressure until enough acid solution is drawn into the tube allowing the float to float freely. Be sure float does not touch rubber stopper at the top of the tube.	
5. The float reading at the water line is the uncorrected charge level of the battery.	
6. Read and record the specific gravity of all 16 pilot cells. "record readings below": acceptable range is 1.225 – 1.300 ( if out of this range notify tech support)  ote 1: the sheet below is set up for 2 or 8 batteries as some units have 8 batteries.  ote 2: accurate readings cannot be obtained if water has recently been added to cells. Differences of points or more between readings in battery cells may indicate pending battery failure.	
7. Based on the above specific gravity readings, do any batteries need replaced? Remember, if the unit came in with already dead batteries, an attempt to charge the batteries must be made before taking the specific gravity readings. YES	
8. Return acid to cell from which it was drawn.	
9. Be sure all vent plugs are replaced and tight.	
10. With Unit shut down measure the voltage reading across each battery at the terminals, record readings on the chart below.	
11. Make a general check of the battery as to proper blocking, clean and tight connections at all points, and any unusual appearance or condition. If any unusual appearance or conditions exit, like corrosion, clean with scotch-brite buffer or wire br	
12. Apply approved protective coating to connections after terminals are cleaned and dried	V
13. Add water as required (Add water to bottom of filler neck).	DAVID STUPAKEWS
Battery Cranking Voltage Test	
<ul><li>14. Close battery knife switch, and circuit breakers.</li><li>15. Open the injector toggle switch, on EUI units to prevent unit from starting.</li></ul>	
OTE: Battery cranking voltage readings do not need to be taken on Air Start	

MMASOIT

16. Oi	n MUI ei	ngines, pull	the Govern	or button a	nd hold ba	ack t	he Lay-s	shaft	wnile crank	ing	4.
the engine over to prevent unit from starting.											
18. Bas	sed on the	e cranking vo	oltages, is an	ıy battery sus	spect of ne	eding	g replace	d? Y	ES NO		
2 Battery Units	Specific Gravity			654V Coswstah	Water Added			1	ry Replaced- Reason		
Battery 1	Cell 1	Cell 2	Cell 3	Cell 4	Yes	1	No		Yes	0	
Section A	1.18	1-78	1.18	1.22		v	/				
Section B	1.18	1,22	1,22	1,22		1					
Section C	1.22	1722	1.22	1.22		V		-			
Section D	1.18	1,22	1.22	1.18		V	1				
			<u> </u>	.,	so)	th	poken	7			
2 Battery Units	9	Specific Gra	vity			Nate	r Added	,		i	ry Replaced- Reason
Battery 2	Cell 1	Cell 2	Cell 3	Cell 4	Yes	Π	No		Yes	0	
,											
Section A	1.18	1.22	1,77	1-22		/	-				
Section B	1,22	1,22	リンマー	ルマン		V					
Section C	1.22	11.22	1.72	1・22		V					
Section D	1.22	トンフ	1.18	1.22		$\nu$					
					alo) 2	typ	her)				
8 Battery Units	S	pecific Gra	vity		Water Added				ry Replaced- Reason		
	Cell 1	Cell 2	Cell 3	Cell 4	Yes		No		Yes	0	
Battery 1											
Battery 2											
Battery 3	<del></del>										
Battery 4	·										
Battery 5											
Battery 6											
Battery 7											
Battery 8											
BATTERY	CRAN	KING VO	LTAGE C	CHART							•
		Battery 1	Battery 2	Battery 3	Batter	y 4	Batter	y 5	Battery 6	Battery 7	Battery 8
Battery Vo	ltage	32.6V								<u> </u>	<del>                                     </del>
		Battery 1	Battery 2	Battery 3	Batter	y 4	Batter	y 5	Battery 6	Battery 7	Battery 8
Battery Vo	Itage		<u> 32.7 V</u>								
		Battery 1	Battery 2	Battery 3	Batter	y 4	Batter	y 5	Battery 6	Battery 7	Battery 8
CrankingBa Voltage	- 1	65.4V							•		
Battery Vo											
	<del></del>	Data and I	D-44	Dett?	Batter	5 A	Batter	JE I	Battery 6	Battery 7	Battery 8
CrankingBa Voltag	attery	Battery 1	Battery 2	Battery 3	Datter	<u>y 4</u>	Datter	د ر	Dallely U	Danery	- attery O

Un	it:	
-		

5017

Date:

m-21-11

## **DEFECTS FOUND DURING INSPECTION**

DEFECTS FOUND DURING INSPECTION	
DEFECT#6 TM - Botton brush holder falling away from	INSPECTED BY:
REPAIR Re-alighned + tightened - 90 brushes	CORRECTED
DEFECT Forward rund, eletrical cab door latch to high to clear fram-	INSPECTED BY:
	23
REPAIR Gourd Groun with flapper wheel	CORRECTED
	9
DEFECT CAB HEATER Blower-Motor + squirl conge has a loose shaft - Heater has to be-pulled out of the nose tofix GE part#41A241532-PS Prime # PM 5098 Ser.#1294-041	INSPECTED BY:
REPAIR	CORRECTED BY:
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DEFECT	INSPECTED BY:
REPAIR	CORRECTED BY:
DEFECT	INSPECTED BY:
REPAIR	CORRECTED BY:

Unit:	Date: DEFECTS FOUND DURING INSPECTION	
DEFECT		INSPECTED BY:
REPAIR		CORRECTED BY:
DEFECT		INSPECTED BY:
REPAIR		CORRECTED BY:
DEFECT		INSPECTED BY:
		CORRECTED BY:
DEFECT		INSPECTED BY:
REPAIR		CORRECTED BY:
DEFECT		INSPECTED BY:
REPAIR		CORRECTED BY:

	Desc	Desc ption of Work Perfor red						
Locomotive ID		Time Started		Time	Finished	đ		
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				LOCOMOTIVE					DATE 10-21-17				
	Start	Readings		Has	Snats			END RE	ADING		rias	Shoos	OLD GAUGE
:	Flance Flange Height Thinkness	Rim Fhickness	Witness Grove	Y63.	. 40		Flange Height	Flunge Thickness	Ran Thickness	Witness Grove	YES	NO .	FLAÑGE - THICKNESS TO MEASUREMENT TO LE
£#1	04/000	44				L#1		į.					
L#2	0-19 00	3 A				L#2							
L#3	ort on	48		<u>.</u>		L#3							4 x x 1 x 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 L#4	10-101 10-0	HP				L#4	<del> </del>					<b>.</b>	5 - on 0 - 1 - /32" " - on 0 - 1 - /32" 6 - on 0 - 1 - 1004
L#5	1-1/4/1	22	11-0	0-4	30	L#5							Service supp
L#6	17-11-1111	16/2				L#6				2.1	ļ		OLD CALLOSS
Y.	0 1/1 00	10-				<del>                                     </del>		1	1				OLD GAUGE FLANGE HEIGHT
R#1	0-17 0-0	44				· R#1		:					MEASUREMENT
R#2	0-18-0-0	30.			4.77.4	R#2							0-an-11 1/161 0-an-21-1/81
R#3	0-17 00	41				R#3					-		0-on-31-0161 6-on-41-016
R#4	0-12 0-0	MA		**		R#4							0-cm6 - 1-346 0-cm6 - 1-38 2-cm-61-13/32**
R#5	0-19 00	12	<u> </u>		*	R#5							4 cn 6 - 1.7/16"
R#6 WEAR LIN	J-13 C 7	VITCH LOCON	10TH (5.0		V V	R#6							NEW GAUGE
	/EAR LIMITS - ROAD & SW		iess is in 92 day Re				LOCOS – MIN 92					FLANGE HEIGHT MEASUREMENT	6-3-13-3-9-5-9-5-5-5-5-5-5-5-5-5-5-5-5-5-5-5-
	ERA 7/8"	Rim THICKNESS FRA 1" MMA 1 1/8"		WEAR FRA 5/16"	Flange HEIGHT FRA T ½" MMA 1 7/16"	FRA 7/8"	FRA 1"	Tread WEAR FRA 5/16" MMA ¼"					4-on-221-7/16* 5-on-221-15/22* 8-on-221-127
CONVE 8= 9= 10= 11= 12= 13= 14=	37 1/8" 16= 37 ½" 17= 37 3/8" 18= 37 ½" 19= 37 5/8" 20=	EEL DIAMETI 37 7/8" 38" 38" 1/8" 38" 3/8" 38 3/8" 38 5/8"		23= 24= 25≛ 26=↓ 27	38 % 1 98 7/8" 39 39 <b>1/8</b> 39 <b>3/</b> 6 39 3/8	30= 31= 32= 33= 34=	39 5/8 39 7/8 39 7/8 40 1/8 40 1/8 40 3/8	36= 37= 38= 39= 40= 41= 42=	40.4%" -40.5/8" -40.5/8" -40.7/8" -41.7/8" -41.1/8" -41.1/8"			FLANGE THICKNESS MEASUREMENT	NEW GAUGE  17.03 - 17.04  2 - 909 - 17.52  3 - 409 - 17.52  3 - 409 - 17.53
	E RAIL CLEARANCE		LOT HEIGHT	W.	FRONT /	An. 5	RIZONTAL END				LOCO RAIL	CLEARANCE.	6 - on 0 - 1 - 1/32
re-a	MAX 34 17 34 2	FRA		MAX 5" Y	A	HANDHOLD	NG LEVER IF US	ED AS HORIZO	VTAL	·	FRA MIN 2 1/	z*	
	MAX 34 17 3 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	MMA		7A ( 3 ) VIN 3 1 /	50		MMA MIN 301 FPA MAX 501 MMA MAX 50		and Annual Company	Mary Name of the Control of the Cont	MMA MIN 3"		
42" DIAMET Fir MAC	METER MEASUREMENTS TER WHEEL WITNESS GROOTS STADE AROS FO	DOVE = 38" DE 6 AZLE LOC	OMOTIVES:	=P- 2 MOX	5144	LASTHE SA	ие) <sub>ј</sub> у <sup>ст</sup>	ė		·			
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HI MEMBER D	iganiga sa sagaran Kasar HIS POLE		reporting a dis-	r West				Service Control					
1 + 1 9488 1 A1 94	rge Jahanes Villing Jahan da King Tahan di Jahin Mega Jida Sing Dalah dan Silah Milan	Maria Para Para Salah	tegati wasi tuli	randria era	r te di Le V	概点(Hotal) 特別、Alexan 1 Alexan					earl ar joint Jacobski	er i <b>NOTÊ</b> 1649 Lija ENEZ 1143	
WPLOYEE	S SIGNATURE		· · · · · · · · · · · · · · · · · · ·				SUPERVISOR	S SIGNATUR	?E.				
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