

Locomotive Release from Shop Form

To be completed on every engine released from the Shop

I have reviewed the work packet for locomotive <u>\$525</u> on this date <u>8-29-1/</u> and take no exception to applicable laws, rules and or MMA standards, policies and standards.

0-11 Sample - De Dong

B-23, B-39, C), GP-7 MO3 INSPECTION	\$
G. IF THE SEAT MOVEMENT IS IMPEDED, REMOVE SEAT CUSHION AND INSPECT SEAT PAN	
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	
I EVER 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.	
OF AT DART NUMBERS.	
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": 20422211 Seat Pedestal Rail Right Side 46": 20422221	
Seat Fedestal Mail Might Side 40 : 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	

B-23, B-39, C-30, GP-7 MO3 INSPECTION	Revision Date: 8/18/2010 Issued By: Tim Scalia
	WORKED BY:
Electrical in House	
SERVICE THE BATTERIES AND COMPLETE JSP-010	J. Man
VERIFY EVENT RECORDER IS WORKING	J. Hassil
CHECK & RECORD THE DATE ON HEAD END DEVICE 1-12-11	Jahanin
COMPLETE THE HEAD END DEVICE CONNECTOR SHEET	
CHECK THE FOLLOWING EQUIPMENT AND THEIR RELATED GUARDS AND LENSES FOR	
PROPER OPERATION:	et al and a second
CHECK ALL GROUND AND STEP LIGHTS, FRONT AND REAR HEADLIGHTS, DITCH LIGHTS,	idea
CAB LIGHTS, GAUGE LIGHTS, NUMBER PLATES, PLATFORM LIGHTS, ALL WARNING AND	J-1100
INDICATOR LIGHTS	
TRACTION MOTORS AND UNDERFRAME	
CHECK THE TRACTION MOTOR LEADS, VERIFY NO LEADS ARE RUBBING ON THE FRAME	Jellat
INSPECT TRACTION MOTOR COVERS AND ENSURE BOLTS ARE IN PLACE AND TIGHT	Julata
CHECK M.U. RECEPTACLE PINS AND LIDS. MAKE NECESSARY REPAIRS	J-Mats
MAKE SURE M.U. CABLES DO NOT FOUL COUPLERS	

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B-23, B-39, C-30, GP-7 MO3 INSPECTION	
Qut Bound Loadtest Electrical/Mechanical	WORKED BY:
ELECTRICAL - OUT bound	
VERIFY THE OPERATION OF THE GROUND RELAY	
CHECK FOR LOW VOLTAGE GROUNDS (7 watt bulb)	J-Wat
WHILE IN THROTTLE 3 LOAD TEST, CHECK FOR AC GROUNDS	J-Mat
CHECK OPERTION OF:	
A. HEATING	July
COMPLETE THE IN-BOUND LOAD TEST SHEETS	V C from
GROUND RELAY-(TEST THREE TIMES TO VERY LOCK-OUT)(DYNAMIC & POWER)	·
CHECK THE FOLLOWING FOR PROPER OPERATION:	
A. CREW ALERT	V. Hot
B. RADIO AND ANTENNA	J-NX
C. AXLE ALT. SPEEDO	J-Mi
D. MU ENGINE SHUTDOWN	J-UNS
E. FUEL CUT-OFF	
F. TEST WARNING DEVICES	JUE
MECHANICAL	
CLEAN AND SERVICE TOILET AND RESTROOM	B.B. K. Huster
DRAIN RETENTION TANK	NA NA
PROPER LUBRICATION? FUEL LEAKS? CAM ROLLER ROTATION? ETC.	Uß.
INSPECT FUEL SYSTEM HOSES AND PIPES FOR LEAKS	$\mathbb{D}^{\mathcal{D}}$
INSPECT COOLING SYSTEM:	
A: CHECK HOSES AND PIPES FOR LEAKS	DP0
CHECK OPERATION OF ENGINE PROTECTION DEVICES: A. CRANKCASE PRESSURE	WB
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:	1 .1/
A. MAIN RESERVOIR (130 - 140 PSI)	KHUMM
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	4
TEST OPERATION OF THE FOLLOWING DEVICES:	
A. BELL	
B. SANDERS (FORWARD, REVERSE, EMERGENCY)	
C. RADIATOR SHUTTERS	

Changes out oil fitters X thousand

				UNIT
	Ser	vice Operations THROTTLE 8 OU	TBOUND LOAD TESTS	DATE
Eng RPM (900) Eng RPM (1050) Horsepower Volts (5.3) Volts (7) Volts (720)	EMID GE B-23 C-30 B-39	1050 3722	Lube Oil Pres Water Temp Overspeed Setting RACK SETTING	165 1090 24/2
MANAGEMENT AND THE PROPERTY OF	THE CONTRACT OF THE PARTY OF TH	THROTTL	E #1 STALL TEST	
OP Mode AMPS MGA Charging Rate	(PWR) (300) (1220) (70v)	74 NOT APPLI	CABLE TO B-23 AND C-30	

	IN Bound			ì
_	SEH LOAD	1	, 1	
	Amps - 3762 .	X.	Har	y
	Hpower - 3701			
	VOHS - 688			

						LOCON	LOCOMOTIVE \$525				DATE	-//		
 	T	Start	Readings		На	s Shims		1	END RE	ADING	L	На	s Shims	OLD GAUGE
	Flange Height	Flange Thickness	Rim	Witness Grove	YES	NO		Flange Height	Flance	Rim Thickness	Witness Grove	YES	NO	FLANGE THICKNESS
L#1	0-18	00	46				L#1							MEASUREMENT 0 - on 0 - 1 17/64* 1 - on 0 - 1 15/64*
L#2	0-19	0-0	46				L#2							2 - on 0 - 1 - 7/32" 3 - on 0 - 1 - 5/32" 4 - on 9 - 1 - 7/64"
L#3	0-19	0.0	48				L#3							5 - on 0 - 1 - 3/64* 6 - on 0 - 1 - /32"
L#4	0-19	0-0	48				L#4					-		7 on 0 63/64° 8 on 0 15/16°
L#5							L#5							
L#6	<u> </u>						L#6							OLD GAUGE FLANGE
														HEIGHT
R#1	6-19	0-0	46				R#1							MEASUREMENT 0-on-01' 0-on-11/16"
R#2	0-19	6-0	146				R#2							0-on-21-1/8* 0-on-31-3/16"
R#3	0-19	0-0	48				R#3							0-on-41-5/16" 0-on-51-5/16"
R#4	19	0-0	118				R#4							0-on-61-3/8° 2-on-61-13/32"
R#5							R#5	3						4-on-61-7/16" 6-on-61-31/64"
R#6							R#6							
WEAR LI	MITS FOR R	OAD & SV	VITCH LOCO	MOTIVES -	MINIMUM	DAILY REQU	JIREMENTS							NEW GAUGE 0-on-171-1/16*
FRA 1 ½" FRA 7/8" FRA 1" FRA 5/16	MMA 15 MMA 1 ' MMA ¼'	ì16" 1/16" '	Flange Heig Flange Thick Rim Thickne Tread Wear	kness				45°					FLANGE HEIGHT MEASUREMENT	0-on-181-1/8" 0-on-191;3(46" 0-on-201-1/4" 0-on-211-5/16" 0-on-2215/8"
FLANGE Height FRA 1 1/2"	Flange THICKNESS FRA 7/8"	5	Rim THICKNESS FRA 1"	MIN. 92 DAY F	Tread WEAR FRA 5/16"	Flange HEIGHT FRA 1 1/2"	Flange THICKNESS FRA 7/8"	FRA 1"	Tread WEAR FRA 5/16"					2-on-221-7/16" 4-on-221-7/16" 6-on-221-15/32" 8-on-221-1/2"
	MMA 1 1/32		MMA 1 1/8"		MMA ¼"	MMA 1 7/16"	MMA 1"	MMA 1 1/4"	MMA 1/4"]				NEW GAUGE
CONVERS		T FOR WH 15=	EEL DIAME 37 7/8"	TER	22=	38 ¾"	29=	39 5/8"	36=	40 ½"				
9=		16= 17=	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"
10= 11=		18=	38 1/4"		25=	39 1/8"	32=	40"	39=	40 7/8"			FLANGÉ	2 - on 0 - 1 - 7/32*
12≃ 13=		19≂ 20 =	38 3/8" 38 ½"		26= 27=	39 1/4" 39 3/8"	33= 34=	40 1/8" 40 ¼"	40= 41=	41" 41 1/8"			THICKNESS	3 - on 0 - 1 - 5/32" . 4 - on 0 - 1 - 7/64"
14=	37 ¾"	21=	38 5/8"		28=	39 ½"	35=	40 3/8"	42=	41 ¼"			MEASUREMENT	
	/E RAIL CLEAR R HEIGHT	RANCE FRONT		ILOT HEIGHT		FRONT	HEIGHT OF H	ORIZONTAL END	HANDHOLD			LOCO RA	L CLEARANCE	6 - on 0 - 1 - 1/32" 7 - on 0 - 63/64"
			·····		MAX 6*	6	OR UNCOUPL	ING LEVER IF US		NTAL				8 – on 0 – 15/16"
FRA	MAX 34 1/3" MIN 31 1/3"	347			MIN 3*	1 2	HANDHOLD	FRA MIN 30"				FRA MIN 2 ½	7"	
			MMA		MAX 6"	REAR	1	MMA MIN 30"						
ММА	MAX 34 1/2" MIN 32 1/2"	33/2			MIN 3 1/2".	43		FRA MAX 50" MMA MAX 50"				MMA MIN 3"		
	AMETER MEAS TER WHEEL V			ROM THE TO	P OF THE WI	TNESS GROOV	/E 40" DIAMET	ER WHEELS WI	TNESS GROVE	= 36".				-
							S ARE THE SA							
1 1/4" JS THE	MAXIMUM V	ARIATION A	ALLOWED IN	WHEEL DIAM	AETER, BETY	NEEN ANY 2 \	WHEELS IN TH	SAME TRUCK HE SAME TRUC DIFFERENT TRU	K WITH SHIMS	VIS. APPLIED.	t.			
NOTE:		Suos u ····	- DIAMETER TO	DETERMINE IS 1	IIMO ADE BEO:	inch vou Niert	LICE THE AVEDAG	E WHEEL DIAMETER	FIGURES					
REMEMBER 0 TO 5 DIAM USE ONLY C	THIS RULE ETER DIFFERENC INE ½° SHIM EMD	E NO SHIMS R PART NUMBER		DIAMETER DIFFI D TREAD AND FL	ERENCE ADD AP AT SPOTS MUS	PROPRIATE SHIM TBE TRUED OR CI	S TO BOTH BOYES	E WHEEL DIAMETER S ON BOTH SIDES OF DUND ON PERIODIC	JER 10 IN DIAMETE	R DIFFERENCE RE MAINTENANCE, K	OUIRES WHEEL OS CONDEMNIN	. CHANGE OR TE IG LIMITS FOR S	RUED NOTE : ON HELLED TREAD ON A	EMD LOCOMOTIVES A SERVICE TRACK

SUPERVISORS SIGNATURE

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EMPLOYEES SIGNATURE

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

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

Overview: This job process sheet will assist with the maintenance and qualification of batteries.

SPECIAL TOOLS OR EQUIPMENT:	
SEQUENCE OF JOB STEPS	Please print your name, NO signatures
1. Ensure the locomotive is shutdown, discharged, all of the circuit breakers are open and the battery knife switch is open.	J. Haffi
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) Note 1: the sheet below is set up for 2 or 8 batteries as some units have 8 batteries. Note 2: accurate readings cannot be obtained if water has recently been added to cells. Differences of 50 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	
13. Add water as required (Add water to bottom of filler neck).	
Battery Cranking Voltage Test	
14. Close battery knife switch, and circuit breakers.	
15. Open the injector toggle switch, on EUI units to prevent unit from starting.	
NOTE: Battery cranking voltage readings do not need to be taken on Air Start Locomotives.	

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16. O	n MUI e	engines, pull	the Governo	or button an	d hold ba	ck tł	e Lay-shafi	while cranki	ng	
1	16. On MUI engines, pull the Governor button and hold back the Lay-shaft while cranking the engine over to prevent unit from starting.									
18 Ray	sed on th	ne cranking v	oltages, is any	/ battery sust	ect of nee	dino	replaced?	ES NO		
10. Da	sed on a	ic cranking v	onages, is any	outtery susp	occi or nec	حی	replaced.		-	
									Potton	Replaced-
2 Battery		Specific Gra	vity		. W	/ater	Added			eason
Units		•						Var		203011
Battery 1	Cell 1	Cell 2	Cell 3	Cell 4	Yes		No	Yes	0	
Spotion A	125	100	11150	1250		L				
Section A Section B	1250		1250	1250		<u>''</u>				
Section C	1250		1252	1250						
Section D	1250		1250	1250			7			
	1200	11220	10-12	105 - 10		-				
2 Battery		Caracifia Car			18	latar	Added			Replaced-
Units		Specific Gra								eason
Battery 2	Cell 1	Cell 2	Cell 3	Cell 4	Yes	1	Vo	Yes	0	
		1					ľ			
Caption A	12.00	1120.	n a	1250			/			
Section A Section B	12-50		1250	1250		1/	_			
Section C	1250	12.50	1250	1250		レ	_			
Section D	1251		1250	1250		1/				
000	1 st al	7 16-011	1200	7020						
8 Battery		Canadilia Cra	vita		W	later	Added		1 -	Replaced-
Units		Specific Gra								eason
	Cell 1	Cell 2	Cell 3	Cell 4	Yes	ſ	Vo .	Yes	0	
							İ			
Battery 1			4						_	
Battery 2										***
Battery 3 Battery 4			+							
Battery 5										
Battery 6										
Battery 7										
Battery 8										
BATTER	Y CRA	NKING VO	LTAGE C	HART						
		Battery 1	Battery 2	Battery 3	Battery	_/ 4	Battery 5	Battery 6	Battery 7	Battery 8
Battery Vi	oltane	34.0	34.0							
Liaitely Y	onago	Battery 1	Battery 2	Battery 3	Battery	4	. Battery 5	Battery 6	Battery 7	Battery 8
Battery Vo	oltage	Dattery	Battery 2	Dunio.j D						
Dattory V.	3 1								-	
		Battery 1	Battery 2	Battery 3	Battery	4	Battery 5	Battery 6	Battery 7	Battery 8
CrankingB										
Voltag										
Battery V	orrage				<u> </u>					
		Battery 1	Battery 2	Battery 3	Battery	/ 4	Battery 5	Battery 6	Battery 7	Battery 6
CrankingB Voltag					-					

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Jnit: DEFECTS FOUND DURING IN	Date:
DEFECT Tollet real Pirty	INSPECTED BY:
	KI NE
REPAIR	CORRECTED Dandy flo
Pump o washer	H- H
	INSPECTED BY:
DEFECT	INSPECTED BY
REPAIR	CORRECTED
	BY:
DEFECT	INSPECTED BY:
REPAIR	CORRECTED BY:
DEFECT	INSPECTED BY:
REPAIR	CORRECTED BY:
DEFECT	INSPECTED BY:
REPAIR	CORRECTED
	BY:

DEFECT COLUMN CO	
REPAIR CC DEFECT IN REPAIR CC CC THE COLUMN TO THE COL	
REPAIR CCC DEFECT IN THE PROPERTY OF THE PROP	NSPECTED BY
REPAIR CO DEFECT	
DEFECT IN THE PROPERTY OF THE	
DEFECT	ORRECTED
DEFECT	BY:
DEFECT IN THE PROPERTY OF THE	· · · · · · · · · · · · · · · · · · ·
DEFECT	
REPAIR CCC DEFECT IN REPAIR CCC THE COLUMN TO THE COLUMN THE CO	NSPECTED BY
DEFECT IN COLUMN TO THE PROPERTY OF THE PROPER	
DEFECT IN THE SECOND SE	
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DEFECT COLUMN CO	ORRECTED
DEFECT	BY:
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DEFECT	
REPAIRCC	NSPECTED E
DEFECT	
DEFECT	
DEFECT	CORRECTED
DEFECT	BY:
DEFECT	
DEFECT	
DEFECT	INSPECTED E
	MOFECTED
REPAIRC	CORRECTED
	BY:

De			
Locomotive ID	Time Started	Time Finished	

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Description of Work Performed					
Locomotive ID	Time Started	Time Finis	ned		
	<u> </u>				
V.					
Employee Signature	Form to fill out	completely and Signatu	re must be legible.		



Manufacturer is QEI Version # S45E Serial Number is 0204110402 Customer is MMAR

Data was removed on
Last Downloaded on
- 07:34:16 on 08/30/11
- 12:42:00 on 08/04/11

Battery was installed on - 11/12/04 Locomotive Number is - 8525

Downloaded by - jh
Location - derby
Train - 234
Wheel Size Entry - 39
Wheel Size used by program:

Circumference = 122.5 Diameter = 39.0

No memo present.

Wheel size used for printout is 122.52

QDP Version V



Quantum Desktop Playback Data Scan Report

Report Date: 08-30-2011 Locomotive 8525

Data Removed on 08-30-11

SPEED (MPH) OK
TRACTION MOTOR CURRENT OK
BRAKE PIPE PRESSURE OK
INDEPENDENT BRAKE OK

END-OF-TRAIN PSI

EP BRAKE REQUESTED

THROTTLE

Never above 20.

Never ON/ACTIVE

Low Idle never reported.

REVERSE OK
EIE OK
PCS OK
HORN OK

EOT MOVING
EOT MSG. JUST RX
Never ON/ACTIVE
EOT LIGHT
Never ON/ACTIVE
EP OPERATING MODE
EP PENALTY BRAKE
Never ON/ACTIVE
EP ENGINEER EMERGENCY
Never ON/ACTIVE

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Montreal, Maine, & Atlantic Railway Locomotive

Unit_		Date 🖇	-30-11	1
	3 Month Fede	eral Air Work	Sign	2/1174 /
1.	. Inspect and repair air piping and valves	for leaks	PI	- Bory
2.	. Test all air gauges with gauge tester and	d set if required		they
3.	With full brake pipe pressure, make a 2 "OUT" position and move the lead – de remain applied for 5 minutes	ead valve to "DEAl	ve the cutoff va D" position. Bra	lve to akes must
4.	Cover each trainline hose coupling with then apply blank dummy couplings to to open trainline valves. Make a 20lb. red valve to "OUT" position and check for exceed 5 lb. per minute.	h hand and test for the trainline hoses of the duction with the Aubrake pipe leakage	on each end of the tomatic, move to	he unit and the cutoff
Ch Le	. Reduce main reservoir pressure to 85 lbs Theck cab gauge for leakage from main rest eakage must not exceed an average of 3 lbsest	servoirs and piping o. per minute durin	for 3 minutes.	ng j
Pre	Drain #1 main reservoir (*) completely ressure should remain on the main reservo	oir gauge in the cal	ve between rèse o as #1 main res	rvoits.
_				
	. Check all MU valve handles to ensure to replace as ecessary	•	work properly.	Lubricate
	. Check knuckle thrower to make sure it necessary		Lubricate or re	Mosy 1
Ŋ	Note (*) #1 reservoir is without the check	valve.#2 is with the	e check yalve.	May

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