

Form WMSC-IR-1

Washington Metrorail Safety Commission

Agency/Department Information

Inspection Date	YYYY	MM	DD	Report Number	20200001 W/N	ASC NA	۸۱ ۲					
Inspection Date	2020	09	01	Report Number	20200901-001	20200901-WMSC-MAL-2						
Rail Agency Name	Washington Authority	Metropolitan	Area Transit	Rail Agency Department	CMNT	Sub- Departm	ient	Greenbelt Building H				
		Name		Email	Office Phone	e		Mobile Phone				
Rail Agency Department Contact Information												
Inspection Location	5801 Sunny			uilding H, E99								

Inspection Summary

Inspection Activity #	1	2	3	4	5	6
Activity Code	VM-WI-PI					
Inspection Units	1					
Inspection Subunits	1					
Defects (Number)	8					
Recommended Finding	No					
Remedial Action Required ¹	No					
Recommended Reinspection	No					

Activity Summaries

Inspection Activity #	1	Inspec	ction Sub	ject	Virtu	al inspect	ion				Activity Co	ode	VM	1	WI	PI
Job Briefing Employee Name/Title	WMA	ATA Insp	ection		Accompanied Inspector?				N/A	Out Brief Conducted	N/A	Virtu	Virtual		No	
Related Reports	N/A					Rela	ted CA	PS / F	indings							
	Ref				Rule	or SOP			Standard		Other / T	itle		Chec	klist Refer	ence
Related Rules, SOPs, Standards, or Other	and P Hand	rocedu book (N	ifety Rule res MSRPH). afety Rule													
I	Mai Trac		Yard	Stat	ion	осс	RT. Faci		WMSC Office	Touch Touc	At-grade	e Tu	nnel	Ele	vated	N/A
Inspection Location			X							Track Type						X
Line/a)	E99		Track		N/A		Chair	n Mai	rker		From				То	
Line(s)	E99		Numbe	er	N/A	·	and/	or Sta	ation(s)	N/A			N/A			
	Hea	nd Car N	lumber		Numbe	er of Cars										
Vehicles		N/A			N	N/A	•	quip	ment	N/A						



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		Number of Defects	8
	The WMSC Inspector conducted a virtual rules compliance inspection of the Greenbelt Commissioning Facility, Building H. The inspector requested numerous	Recommended Finding?	No
	documents from daily activities performed at this facility related to compliance	Remedial Action Required?	No
Description	with Metrorail Safety Rules and Procedures Handbook (MSRPH), as well as equipment maintenance activities, special tools, and documentation. The following document was reviewed: CENV's Consolidated PI Tools List Reviewed CENV's consolidated PI special tools list and compared those requirements to S&I shop submissions on special tools and the following information is provided (See Attachment #1). Review of CENV's and S&I Shops submissions show many missing special tools such as brake pad slack adjuster go/no-go gauge, coupler hook buff and pull go gauge, door height check gauge, coupler alignment tool, propulsion line contactor gauge, air spring height go/no-go gauge, door adjustment gauge, etc., which are specified in the Original Equipment Manufacturer (OEM) Periodic Inspections manuals provided to WMATA and are required to adhere to warranty requirements, reliability goals, and to ensure the safety of railcars. Special tools requirements are divided into fourteen tasks to match the corresponding periodic inspection being performed on a railcar. See attached list of special tools sorted by tasks, quantities on hand, and desired quantities, which were used to create the following list of missing special tools. Task 10 - Undercar Cleaning - Missing zero (0) special tool Task 20 - Trucks and Couplers - Missing fifteen (15) special tools Task 35 - Propulsion - Missing five (5) special tool Task 35 - Propulsion - Missing five (5) special tools Task 36 - Lubrication - Missing one (1) special tool Task 60 - Lubrication - Missing one (1) special tool Task 60 - Lubrication - Missing one (1) special tool Task 70 - Brake Rates - Missing zero (0) special tool Task 70 - Brake Rates - Missing zero (0) special tool Task 90 - Doors - Missing twenty-four (24) special tool Task 90 - Doors - Missing twenty-four (24) special tools Task 100 - Major Cleaning - Missing zero (0) special tool Task 90 - Doors - Missing twenty-four (24) special tools Task 100 - Major Cleaning - Missing zero (0) special tools Task 100 - Major Cleani	Recommended Reinspection?	No
Remedial Action	N/A		
	Effective Practices		
Effective Practices	Collaborating with other departments and tracking lessons learned is an experience.	xcellent approach to reduce railcar i	ncidents.



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Attachment 1 – CENV's Consolidated PI Tools List

Highlight = updated						L							Z	AA	AB	AC
information 01/08/2020		SER	VICEABL	E TOOL	S ON HA	AND	Pl Shop Count	3 per fleet	Non PI Shop Count			QTY OR	DERED	3	SOURCE	
WMATA Drawing Number	Description	ALEX	GB	NC	sg	WFC	ALEX 2K/3K 7K	GB 6K 7K	NC 5K 7K	SG 2K/3k 7K	WFC 2K/3K 7K	Date Orde -	Qty Ord(-	Mach Shc +	Comm	Othe
TASK 10 - Undercar Clear	ning						110	78	/K	715	//					
TASK 20 - Trucks and Cou	unlawa.								0.							
	AAR Narrow Flange Steel Wheel Gauge	8	1	3	4	4	6	6	6	6	6				x	
	Calibrated Back-to-Back Gauge (Incremental)	3	3	3	3	3	6	6	6	6	6				X	
	Torque Wrench														x	
WDE000837	Brake Pad Slack Adjuster Go/No-Go Gauge	0	0	0	0	0	3	6	6	3	3			x		
WDE000634	Brake Pad Thickness Go/No-Go Gauge	0	0	0	0	0	6	6	6	6	6	10/5/2017	50	X		
WDE000548	Pin Gauge Set	0	0	2	o	0	6	6	6	6	6	10/5/2017	25	x		
-	Calipers	5	4	3	8	9	6	6	6	6	6		,		x	
	Pi Tape	7	1	5	6	2	6	6	6	6	6				x	
	Shoe Height Tool - 3.75"	1	1	1	1	1	3	3	3	3	3	10/5/2017	15	X		
		1	1	1	1	2	3	3	3	3	3	10/5/2017	14	×		
WDE000733	Shoe Height Tool - 3.5"	0	0	0	0	0	6	6	6	6	6	10/5/201/	14		×	
	Stopwatch 0.005 in Feeler Gauge (Extended)	4	1	0	1	0	6	6	6	6	6				×	
	Straight Edge	0	0	0	0	0	6	6	6	6	6	10/5/2017	35		x	
	Dial Indicator	0	0	2	2	2	6	6	6	6	6				x	
WDE000539	Rubber Compression Condemning Limit Gauge	0	0	1	0	0	1	3	3	1	1	10/5/2017	15	×		
WDE000554	Coupler Hook Buff and Pull Go Gauge	0	2	1	0	0	6	6	6	6	6		18	X		
WDE000619	Coupler Hook Buff and Pull No-Go Gauge	2	0	0	0	0	6	6	6	6	6		18	X		
WDE000620 WDE000553 or	Coupler Hook Height/Width "No-Go" Gauge Throat Opening No-Go Gauge(Welded)	2	,	,	1	^	4	4	4	-	4		15	Û		
WDE000553 or WDE000764	Throat Opening No-Go Gauge(Welded) Throat Opening No-Go Gauge(Bolted)	2	2	1	1	0	6	6	6	6	6		15	х		
WDE000555 or WDE000618	Throat Opening No-Go Gauge(Welded) Throat Opening No-Go Gauge(Welded) Throat Opening No-Go Gauge(Bolted)															Т
7K	Parallel Gauge Tool	0	0	0	0	0	3	3	3	3	3	1		X		+
WDE000552	Guide Pin Go/No-Go Gauges	0	0	0	0	0	6	6	6	6	6	10/5/2017	35	х		
WDE000695	Coupler Hook Extension Tool Calibrated Spring Scale (50 lbs range) for use	1	0	0	1	1	3	1	3	3	3	10/5/2017	15	X	-	8
ACK OF THE	with WDE000895	1	0	0	1	1	6	6	6	6	6				X	
FASK 25 - Ultrasonic Leak	Ultrasonic Diagnostic Tool	2	2	1	2	1	6	6	6	6	6				x	Т
FASK 30 - Undercar Elect				-												1
Silver can Elect	Torque Wrench					T		1		T				1	×	T
	The second secon						\vdash					-		\vdash	×	+
WDE000843	Digital Multimeter Handle for Electrical Couplers	0	0	0	0	0	3	3	3	3	3	-		X		+
VVDE000843	Pneumatic Horn Muffler	J	J	V	U	0	-	3	9	3	3			^		
	DC Power Supply	2	1	1	2	2	6	6	6	6	6				X	
WDE000550	Thermometer Glass Tube	0	0	0	0	0	6	6	6	6	6	10/5/2017			X	1

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AADBUG	20111	SAFT Filler Pistol	2	0	2	0	0	6	6	6	6	6	10/5/2017	15	×	X	
	00111	Coupler Pin Alignment Tool								- Carrier -			10/5/2017	15	X		
3		Universal Test Fitting	0	0	0	0	4	1	3	3	1	1	_	\vdash	\vdash		X
5		Air Pressure Gauge	0	2	0	0	0	1	3	3	1	1	_	\vdash	\vdash	X	X
TASK 35 - Proj		EPCU Drain Fitting	U		U	0	U	1	- 5	- 5	1	1					^
TASIC OU - FTO	puision	ı			Ī	ì	ř –	0									i
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		Digital Multimeter											l .				x
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7.																	
WDE00	00841	Armature Gap Gauge, Sécheron 4H3S2028	0	0	0	0	0	3	3	3	3	3			x		
WDEOO	00041	Annatore cap caage, secretori 411052020	- 6	- 6	- 5	8	ै	-					_	\vdash	<u></u>	-	
WDE00	00842	Main Contact Tip Gauge, Sécheron 4H3S2029	0	0	0	0	0	3	3	3	3	3			X	1	
WDLOO	3600000		52	170	452	. 57	. 66	1 70	10000	1 858	8550	62	_	\vdash	502		
7K	<	Interlock Overtravel Gauge, Sécheron 4H3S2030	0	0	0	0	0	3	3	3	3	3	l .		х		
) // //		Plastic Putty Knife	-						-		_		_	\vdash		x	
		Plastic Putty Knife							-		-	_	_	\vdash	\vdash		
2		3" Spiral Tube Brush											l .			X	
3		1/4" Nylon Tube Brush							-		_			\vdash	\vdash	x	
		174 TVylott Tube Brush															
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		5711											I .			1	
		PTU Laptop with Connecting Cables											I	1 !	1 1	i I	X
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														1			
		DTILLt with Consenting Cables												1			C.
		PTU Laptop with Connecting Cables												1 1			×
														1 1			
4															\Box		
5		0.090 in Feeler Gauge						1	1	3	1	1				X	
6 WDE00	00810	Line Contactor Special 0.8mm Gauge	0	0	0	0	0	3	3	3	3	3	10/5/2017	30	X	5 1	
		Dynamometer or Pull Gauge with Wire Loop, 20	0	0	0	0	0	3	3	1	3	3		1 7	I	X	
7		kg (44 lbs)	_														
B TASK 40 - Inte	erior																
9		Digital Multimeter												\square	\vdash		X
		The second secon															
														1			
		PTU Laptop with Connecting Cables												1			×
		A CONTRACT OF STANCE OF ST												1			
0														1			
1		ATC PTD Test Plug	3	1	1	1	2	3	3	3	3	3					X
2		RF Power Meter 3030	0	0	0	0	0	3	3	3	3	3		\vdash		χ	- 0
3		Radio Dummy RF Load w/ cables	-	-				3	3	3	3	3		-		X	
4			0	0	0	0	0	3	3	3	3	3		-		X	_
		Long Reach Aligner					U	9	- 0			,				Α	
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TASK 50 - HV							1										
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		PTU Laptop with Connecting Cables															x
5 TASK 50 - HV		PTU Laptop with Connecting Cables															x
6		PTU Laptop with Connecting Cables Thermal (Infrared) Gun	2	1	2	0	2	6	6	6	6	6				x	×
6		604-04-10557-6640_0866_08-15796645008-57-74-5850404	2	1	2	0	2	6	6	6	6	6				x	x
5 7 8 TASK 60 - Lub	brication	Thermal (Infrared) Gun			2.5	(4)		7 200	3877	C	100				v	x	x
6	brication	604-04-10557-6640_0866_08-15796645008-57-74-5850404	2	1 0	2	0	2	6	6	6	6	6			х	x	x
7 8 TASK 60 - Lub	brication	Thermal (Infrared) Gun			2.5	(4)		7 200	3877	C	100				х	x	×
7 8 TASK 60 - Lub	brication	Thermal (Infrared) Gun Dipstick Gauge	0	0	0	0	0	6	6	6	6	6			х		×
7 8 TASK 60 - Lub	brication	Thermal (Infrared) Gun			2.5	(4)		7 200	3877	C	100				x	x	x
7 8 TASK 60 - Lub	brication	Thermal (Infrared) Gun Dipstick Gauge	0	0	0	0	0	6	6	6	6	6			х		x
5 7 7 8 TASK 60 - Lub	brication	Thermal (Infrared) Gun Dipstick Gauge Grease Gun	0	0	0	0	0	6	6	6	6	6			x		×
7 7 3 TASK 60 - Lub	brication	Thermal (Infrared) Gun Dipstick Gauge Grease Gun Grease Brush	0 13	0 13 3	5	8	0 16 4	6	6	6	6	6			х	x	x
5 7 7 8 TASK 60 - Lub	brication	Thermal (Infrared) Gun Dipstick Gauge Grease Gun	0	0	5	0	0	6	6	6	6	6			x	x	x
7 7 3 TASK 60 - Lub	brication	Thermal (Infrared) Gun Dipstick Gauge Grease Gun Grease Brush Paint Brush	0 13 3 3	0 13 3 3	5	8	0 16 4 4	6	6	6	6	6			x	x x x	×
7 7 3 TASK 60 - Lub 9 WDE00	brication 00838	Thermal (Infrared) Gun Dipstick Gauge Grease Gun Grease Brush Paint Brush Torque Wrench	0 13	0 13 3	5	0 8 2 2	0 16 4	6	6	6	6	6			x	x	x
7 7 7 8 TASK 60 - Lub 9 WDE00	brication 00838	Thermal (Infrared) Gun Dipstick Gauge Grease Gun Grease Brush Paint Brush Torque Wrench	0 13 3 3 5	0 13 3 3 5	5 3 3 6	0 8 2 2 7	0 16 4 4 5	6	6	6	6	6			x	x x x	x
7 3 TASK 60 - Lub 9 WDE00	brication 00838 38 39 30 31 31 31 32 32 33 34 34 35 36 36 36 36 36 36 36 36 36 36 36 36 36	Thermal (Infrared) Gun Dipstick Gauge Grease Gun Grease Brush Paint Brush Torque Wrench	0 13 3 3	0 13 3 3	5	0 8 2 2	0 16 4 4	6	6	6	6	6			×	x x x	x
7 3 TASK 60 - Lub 9 WDE00	brication 00838 gh Speed Co ake Rates	Thermal (Infrared) Gun Dipstick Gauge Grease Gun Grease Brush Paint Brush Torque Wrench upler 1/8 in Grease Fitting	0 13 3 3 5	0 13 3 3 5	5 3 3 6	0 8 2 2 2 7	0 16 4 4 4 5	6	6	6	6	6			x	x x x x x x	×
7 3 TASK 60 - Lub 9 WDE00	brication 00838 gh Speed Co ake Rates	Thermal (Infrared) Gun Dipstick Gauge Grease Gun Grease Brush Paint Brush Torque Wrench	0 13 3 3 5	0 13 3 3 5	5 3 3 6	0 8 2 2 7	0 16 4 4 5	6	6	6	6	6			×	x x x	×
7 3 TASK 60 - Lub 9 WDE00	brication 00838 gh Speed Co ake Rates	Thermal (Infrared) Gun Dipstick Gauge Grease Gun Grease Brush Paint Brush Torque Wrench upler 1/8 in Grease Fitting	0 13 3 3 5	0 13 3 3 5	5 3 3 6	0 8 2 2 2 7	0 16 4 4 4 5	6	6	6	6	6			x	x x x x x x	×
7	brication 00838 sh Speed Co ake Rates	Thermal (Infrared) Gun Dipstick Gauge Grease Gun Grease Brush Paint Brush Torque Wrench upler 1/8 in Grease Fitting Direct Reading Gauges – Brake Rates	0 13 3 3 5	0 13 3 3 5	5 3 3 6	0 8 2 2 2 7	0 16 4 4 4 5	6	6	6	6	6			X	x x x x x x	
7 7 8 TASK 60 - Lub 9 WDE00 1 2 2 3 4 TASK 65 - High	prication 00838 gh Speed Co ake Rates	Thermal (Infrared) Gun Dipstick Gauge Grease Gun Grease Brush Paint Brush Torque Wrench upler 1/8 in Grease Fitting Direct Reading Gauges — Brake Rates	0 13 3 3 5	0 13 3 3 5	5 3 3 6	0 8 2 2 2 7	0 16 4 4 4 5	6	6	6	6	6			x	x x x x x x	x
7 3 TASK 60 - Lub 9 WDE00 11 22 34 TASK 65 - Higi 5 TASK 70 - Brai	prication 00838 gh Speed Co ake Rates Springs and	Thermal (Infrared) Gun Dipstick Gauge Grease Gun Grease Brush Paint Brush Torque Wrench upler 1/8 in Grease Fitting Direct Reading Gauges – Brake Rates PTU Laptop with Connecting Cables 1 Carbody Height Checks	0 13 3 3 5	3 3 3 5	5 3 3 6	0 8 2 2 2 7	0 16 4 4 4 5	3	3	3	3	3				x x x x x x	
7 7 8 TASK 60 - Lub WDE00 1 2 2 3 4 TASK 65 - High TASK 70 - Brail 7 TASK 80 - Air WEM190	brication 00838 sh Speed Co ake Rates Springs and	Thermal (Infrared) Gun Dipstick Gauge Grease Gun Grease Brush Paint Brush Torque Wrench upler 1/8 in Grease Fitting Direct Reading Gauges – Brake Rates PTU Laptop with Connecting Cables 3 Carbody Height Checks Go/No-Go Gauge, Air Spring Height	0 13 3 3 5 10	0 13 3 3 5 5 8 2 2	5 3 3 6 6	0 8 2 2 7 7	0 16 4 4 5 5 8 8 4	3	3	3	3	3	10/5/2017	12	x	x x x x x x	
7	brication 00838 sh Speed Co ake Rates Springs and 173-8-2 1140-8-2	Thermal (Infrared) Gun Dipstick Gauge Grease Gun Grease Brush Paint Brush Torque Wrench upler 1/8 in Grease Fitting Direct Reading Gauges — Brake Rates PTU Laptop with Connecting Cables 1 Carbody Height Checks GorNo-Go Gauge, Air Spring Height Breda Air Bag GorNo-Go Gauge	0 13 3 3 5	3 3 3 5	5 3 3 6	0 8 2 2 2 7	0 16 4 4 4 5	3	3 3 1	3	3	3	10/5/2017	12 16	x x	x x x x x x	
7 7 8 TASK 60 - Lub WDE00 1 2 2 3 4 TASK 65 - High TASK 70 - Brail 7 TASK 80 - Air WEM190	brication 00838 sh Speed Co ake Rates Springs and 173-8-2 1140-8-2	Thermal (Infrared) Gun Dipstick Gauge Grease Gun Grease Brush Paint Brush Torque Wrench upler 1/8 in Grease Fitting Direct Reading Gauges – Brake Rates PTU Laptop with Connecting Cables 3 Carbody Height Checks Go/No-Go Gauge, Air Spring Height	0 13 3 3 5 10	0 13 3 3 5 5 8 2 2	5 3 3 6 6	0 8 2 2 7 7	0 16 4 4 5 5 8 8 4	3	3	3	3	3			x	x x x x x x	
7 7 8 TASK 60 - Lub 9 WDE00 0 1 1 2 2 3 4 TASK 65 - High 6 TASK 70 - Brail 7 TASK 80 - Air 10 WEM190 11 WDM180 12 WDE000	ph Speed Co ake Rates Springs and	Thermal (Infrared) Gun Dipstick Gauge Grease Gun Grease Brush Paint Brush Torque Wrench upler 1/8 in Grease Fitting Direct Reading Gauges — Brake Rates PTU Laptop with Connecting Cables I Carbody Height Checks Go/No-Go Gauge, Arr Spring Height Breda Air Bag GofNo-Go Gauge Go/No-Go Gauge, Air Spring Height	0 13 3 3 5 10	3 3 3 5 8	5 3 3 6 6 2	0 8 2 2 7 7 6	0 16 4 4 4 5 8 4	1 3 3 3	3 3 1 3	3 3 1 1 1 3	1 3 3 3	3 3 1 3 3	10/5/2017	16	x x x	x x x x x x	
7	ph Speed Co ake Rates Springs and	Thermal (Infrared) Gun Dipstick Gauge Grease Gun Grease Brush Paint Brush Torque Wrench upler 1/8 in Grease Fitting Direct Reading Gauges — Brake Rates PTU Laptop with Connecting Cables 1 Carbody Height Checks GorNo-Go Gauge, Air Spring Height Breda Air Bag GorNo-Go Gauge	0 13 3 3 5 10	0 13 3 3 5 5 8 2 2	5 3 3 6 6	0 8 2 2 7 7	0 16 4 4 5 5 8 8 4	3	3 3 1	3	3	3			x x	x x x x x x	
7 7 8 TASK 60 - Lub 9 WDE00 0 1 1 2 2 3 3 4 TASK 65 - High 6 7 TASK 70 - Brai 7 WEM190 1 WDM180 2 WDE00 3 WDE00	brication 00838 gh Speed Co ake Rates Springs and 173-8-2 00819 00549	Thermal (Infrared) Gun Dipstick Gauge Grease Gun Grease Brush Paint Brush Torque Wrench upler 1/8 in. Grease Fitting Direct Reading Gauges — Brake Rates PTU Laptop with Connecting Cables 1 Carhody Height Checks GoNO-Go Gauge, Air Spring Height Breda Air Bag GoNo-Go Gauge GoNo-Go Gauge, Air Spring Height Threshold Height T-Square Gauge	0 13 3 3 5 10	3 3 3 5 8	5 3 3 6 6 2	0 8 2 2 7 7 6	0 16 4 4 4 5 8 4	1 3 3 3	3 3 1 3	3 3 1 1 1 3	1 3 3 3	3 3 1 3 3	10/5/2017	16	x x x	x x x x x x	
7	brication 00838 gh Speed Co ake Rates Springs and 173-8-2 00819 00549	Thermal (Infrared) Gun Dipstick Gauge Grease Gun Grease Brush Paint Brush Torque Wrench upler 1/8 in Grease Fitting Direct Reading Gauges — Brake Rates PTU Laptop with Connecting Cables 3 Carbody Height Checks Go/No-Go Gauge, Air Spring Height Breda Air Bag Go/No-Go Gauge Go/No-Go Gauge, Air Spring Height Threshold Height T-Square Gauge Threshold Height Reference Bar	0 13 3 3 5 10 5	3 3 3 5 8 2	5 3 3 6 6 2	0 8 2 2 2 7 7 6	0 16 4 4 4 5 8 4	1 3 3 6	3 1 3 6	1 1 1 3 6	1 3 3 6	1 3 3 3 6	10/5/2017	16 20	x x x	x x x x x x x x x x x x x x x x x x x	
7 7 8 TASK 60 - Lub 9 WDE00 0 1 1 2 2 3 4 TASK 65 - High 6 TASK 70 - Brail 7 7 WEM190 1 WDM180 2 WDE00 3 WDE00 4 WDE00	brication 00838 gh Speed Co ake Rates Springs and 173-8-2 00819 00549	Thermal (Infrared) Gun Dipstick Gauge Grease Gun Grease Brush Paint Brush Torque Wrench upler 1/8 in Grease Fitting Direct Reading Gauges — Brake Rates PTU Laptop with Connecting Cables 3 Carbody Height Checks Go/No-Go Gauge, Air Spring Height Breda Air Bag Go/No-Go Gauge Go/No-Go Gauge, Air Spring Height Threshold Height /- Square Gauge Threshold Height Reference Bar Caliper & Ruler	0 13 3 3 5 10 5	0 13 3 3 5 8 2	0 3 3 6 6 2	0 8 2 2 7 7 6	0 16 4 4 4 5 8 4	1 3 3 6	3 1 3 6	1 1 1 3 6	1 3 3 6	1 3 3 3 6	10/5/2017	16 20	x x x	x x x x x x x x x x x x x x x x x x x	
7	ph Speed Co ake Rates Springs and 1773-8-2 00819 00640	Thermal (Infrared) Gun Dipstick Gauge Grease Gun Grease Brush Paint Brush Torque Wrench upler 1/8 in Grease Fitting Direct Reading Gauges — Brake Rates PTU Laptop with Connecting Cables 3 Carbody Height Checks Go/No-Go Gauge, Air Spring Height Breda Air Bag Go/No-Go Gauge Go/No-Go Gauge, Air Spring Height Threshold Height T-Square Gauge Threshold Height Reference Bar	0 13 3 3 5 10 5	3 3 3 5 8 2	5 3 3 6 6 2	0 8 2 2 2 7 7 6	0 16 4 4 4 5 8 4	1 3 3 6	3 1 3 6	1 1 1 3 6	1 3 3 6	1 3 3 3 6	10/5/2017	16 20	x x x	x x x x x x x x x x x x x x x x x x x	
TASK 60 - Lub WDE00 TASK 60 - Lub WDE00 TASK 65 - High TASK 70 - Brain TASK 70 - Brain WEM190 WDM180 WDM180 WDE00 WDE00 WDE00 TASK 90 - Doc	ph Speed Co ake Rates Springs and 1773-8-2 00819 00640	Thermal (Infrared) Gun Dipstick Gauge Grease Gun Grease Brush Paint Brush Torque Wrench upler 1/8 in Grease Fitting Direct Reading Gauges — Brake Rates PTU Laptop with Connecting Cables 1 Carbody Height Checks GorNo-Go Gauge, Air Spring Height Breda Air Bug GorNo-Go Gauge GorNo-Go Gauge, Air Spring Height Threshold Height T-Square Gauge Threshold Height Reference Bar Caliper & Ruler Digital Pressure Gauges	0 13 3 3 5 10 5	0 13 3 3 5 8 2 2	0 3 3 6 6 2 0 0	0 8 2 2 2 7 7 7 6 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 16 4 4 4 5 8 4 0 0 0	1 3 3 6	3 1 3 6	1 1 1 3 6	1 3 3 6	1 3 3 3 6	10/5/2017	16 20	x x x	x x x x x x x x x x x x x x x x x x x	
7 7 8 TASK 60 - Lub 9 WDE00 0 1 2 2 3 4 TASK 65 - High 16 7 TASK 70 - Brail 17 WDM180 2 WDE00 18 WDE00 19 WDE00 10 WDE00	brication 00838 Speed Co ake Rates Springs and 1173-8-2 1140-8-2 00819 00549 00640	Thermal (Infrared) Gun Dipstick Gauge Grease Gun Grease Brush Paint Brush Torque Wrench upler 1/8 in Grease Fitting Direct Reading Gauges – Brake Rates PTU Laptop with Connecting Cables 1 Carbody Height Checks GoNNo-Go Gauge, Arr Spring Height Breda Air Bag Go/No-Go Gauge GoNNo-Go Gauge, Arr Spring Height Threshold Height T-Square Gauge Threshold Height Reference Bar Caliper & Ruler Digital Pressure Gauges Starrett Depth Gauge 237M	0 13 3 3 3 5 10 5	0 13 3 3 5 5 8 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 3 3 6 6 2	0 8 2 2 7 7 7 6 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 16 4 4 4 4 5 8 8 4	1 3 3 6 6	3 3 1 3 6 6	1 1 1 3 6	1 3 3 3 6	1 3 3 6 6	10/5/2017	16 20 15	x x x	x x x x x x x x x x x x x x x x x x x	
TASK 60 - Lub 9 WDE00 11 22 2 3 4 TASK 65 - Higi 6 TASK 70 - Brail 7 TASK 80 - Air 9 WDM190 1 WDM190 2 WDM20 3 WDE00 4 WDE00 4 WDE00 6 TASK 90 - Doc 6 TASK 90 - Doc	brication 00838 gh Speed Co ake Rates Springs and 1173-8-2 00819 00549 00640 ors	Thermal (Infrared) Gun Dipstick Gauge Grease Gun Grease Brush Paint Brush Torque Wrench upler 1/8 in Grease Fitting Direct Reading Gauges — Brake Rates PTU Laptop with Connecting Cables 1 Garhody Height Checks GoNNo-Go Gauge, Air Spring Height Breda Air Bag GoNto-Go Gauge GoNNo-Go Gauge, Air Spring Height Threshold Height Reference Bar Caliper & Ruler Digital Pressure Gauges Starrett Depth Gauge 237M Door Adjustment Gauge SK-07-11	0 13 3 3 5 10 5	0 13 3 3 5 8 2 2	0 3 3 6 6 2 0 0	0 8 2 2 2 7 7 7 6 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 16 4 4 4 5 8 4 0 0 0	1 3 3 6 6	3 3 1 3 6 6	1 1 1 3 6	1 3 3 3 6 6	3 3 3 3 6 6	10/5/2017	16 20	x x x x x x	x x x x x x x x x x x x x x x x x x x	
7 7 8 TASK 60 - Lub 9 WDE00 1 1 2 2 3 4 TASK 65 - High 1 7 7 7 7	brication 000838 Springs and 1173-9-2 1140-8-2 000849 000840 ors 000398 000392	Thermal (Infrared) Gun Dipstick Gauge Grease Gun Grease Brush Paint Brush Torque Wrench upler 1/8 in Grease Fitting Direct Reading Gauges — Brake Rates PTU Laptop with Connecting Cables GorNo-Go Gauge, Air Spring Height Breda Air Bag GorNo-Go Gauge GoNo-Go Gauge, Air Spring Height Threshold Height Reference Bar Caliper & Ruler Digital Pressure Gauges Starrett Depth Gauge 237M Door Adjustment Gauge SK-07-11 Door Height Gauge	0 13 3 3 3 5 10 5	0 13 3 3 5 5 8 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 3 3 6 6 2	0 8 2 2 7 7 7 6 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 16 4 4 4 4 5 8 8 4	1 3 3 6 6	3 3 1 3 6 6	1 1 1 3 6 6	1 3 3 6 6	1 3 3 6 6	10/5/2017	16 20 15	x x x x x x x x x x x x x x x x x x x	x x x x x x x x x x x x x x x x x x x	
TASK 60 - Lub WDE00 TASK 60 - Lub WDE00 TASK 60 - Lub WDE00 TASK 70 - Brain WEM190 WWM180 WDM180 WDE00 WDE00 TASK 90 - Doc WDE00 WDE00 WDE00 WDE00 TASK 90 - Doc WDE00	brication 00838 gh Speed Co ake Rates Springs and 173-8-2 00819 00549 00840	Thermal (Infrared) Gun Dipstick Gauge Grease Gun Grease Brush Paint Brush Torque Wrench upler 1/8 in Grease Fitting Direct Reading Gauges — Brake Rates PTU Laptop with Connecting Cables Carbody Height Checks GoNNo-Go Gauge, Air Spring Height Breda Air Bag GolNo-Go Gauge GolNo-Go Gauge, Air Spring Height Threshold Height TSquare Gauge Threshold Height Reference Bar Caliper & Ruler Digital Pressure Gauges Starrett Depth Gauge 237M Door Adjustment Gauge SK-07-11 Door Height Gauge Door Gude Thickness Gauge	0 13 3 3 3 5 10 5	0 13 3 3 5 5 8 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 3 3 6 6 2	0 8 2 2 7 7 7 6 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 16 4 4 4 4 5 8 8 4	1 3 3 6 6	3 3 1 3 6 6	1 1 1 3 6	1 3 3 3 6 6	1 3 3 3 6 6	10/5/2017	16 20 15	x x x x	x x x x x x x x x x x x x x x x x x x	
7	brication 00838 spin Speed Co ake Rates Springs and 1173-8-2 1040-8-2 00849 00549 00549 00594 00398 00398 00392	Thermal (Infrared) Gun Dipetick Gauge Grease Gun Grease Brush Paint Brush Torque Wrench upler 1/18 in Grease Fitting Direct Reading Gauges — Brake Rates PTU Laptop with Connecting Cables Garbody Height Checks GoNNo-Go Gauge, Air Spring Height Breda Air Bag GoNo-Go Gauge GoNNo-Go Gauge, Air Spring Height Threshold Height T-Square Gauge Threshold Height Reference Bar Caliper & Ruler Digital Pressure Gauges Starrett Depth Gauge 27IM Door Adjustment Gauge SK-07-11 Door Height Gauge Door Godos Gouge Door Godos Gauge Door Godos Gouge Door Godos Gouge Door Godos Gouge Imm Smm Door GoNbo Go Gauge	0 13 3 3 3 5 10 5	0 13 3 3 5 5 8 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 3 3 6 6 2	0 8 2 2 7 7 7 6 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 16 4 4 4 4 5 8 8 4	1 3 3 3 6 6	3 1 3 6 6	1 1 1 3 6 6	1 3 3 3 6 6	1 3 3 3 6 6	10/5/2017	16 20 15	x x x x x x x x x x x x x x x x x x x	x x x x x x x x x x x x x x x x x x x	
TASK 60 - Lub WDE00 TASK 60 - Lub WDE00 TASK 60 - Lub WDE00 TASK 70 - Brain WEM190 WWM180 WDE00 WDE00 TASK 90 - Doc WDE00 WDE00 WDE00 TASK 90 - Doc WDE00	brication 00838 spin Speed Co ake Rates Springs and 1173-8-2 1040-8-2 00849 00549 00549 00594 00398 00398 00392	Thermal (Infrared) Gun Dipstick Gauge Grease Gun Grease Brush Paint Brush Torque Wrench upler 1/8 in Grease Fitting Direct Reading Gauges — Brake Rates PTU Laptop with Connecting Cables Carbody Height Checks GoNNo-Go Gauge, Air Spring Height Breda Air Bag GolNo-Go Gauge GolNo-Go Gauge, Air Spring Height Threshold Height TSquare Gauge Threshold Height Reference Bar Caliper & Ruler Digital Pressure Gauges Starrett Depth Gauge 237M Door Adjustment Gauge SK-07-11 Door Height Gauge Door Gude Thickness Gauge	0 13 3 3 3 5 10 5	0 13 3 3 5 5 8 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 3 3 6 6 2	0 8 2 2 7 7 7 6 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 16 4 4 4 4 5 8 8 4	1 3 3 6 6	3 3 1 3 6 6	1 1 1 3 6	1 3 3 3 6 6	1 3 3 3 6 6	10/5/2017	16 20 15	x x x x	x x x x x x x x x x x x x x x x x x x	
7	brication 000838 sh Speed Co ake Rates Springs and 0173-8-2 1140-8-2 00849 00640 oors 00398 00392 00394 00401	Thermal (Infrared) Gun Dipstick Gauge Grease Gun Grease Brush Paint Brush Torque Wrench upler 1/8 in. Grease Fitting Direct Reading Gauges — Brake Rates PTU Laptop with Connecting Cables Garbody Height Checks GoNlo-Go Gauge, Air Spring Height Breda Air Bag GoNlo-Go Gauge GoNlo-Go Gauge, Air Spring Height Threshold Height T-Square Gauge Threshold Height Reference Bar Caliper & Ruler Digital Pressure Gauges Starrett Depth Gauge 237M Door Adjustment Gauge SK-07-11 Door Height Gauge Door Gude Thickness Gauge Imm 3mm Door Go/No Go Gauge Door Spindle Nut Tool Door 17mm Spanner Wrench	0 13 3 3 3 5 10 5	0 13 3 3 5 5 8 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 3 3 6 6 2	0 8 2 2 7 7 7 6 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 16 4 4 4 4 5 8 8 4	1 3 3 3 6 6	3 1 3 6 6	1 1 1 3 6 6	1 3 3 3 6 6	1 3 3 3 6 6	10/5/2017	16 20 15	x x x x x x x x x x x x x x x x x x x	x x x x x x x x x x x x x x x x x x x	
7 7 8 TASK 60 - Lub 9 WDE00 0 1 1 2 2 3 3 4 TASK 65 - High 6 TASK 70 - Brail 7 7 WEM190 1 WDE00 3 WDE00 4 WDE00 4 WDE00 6 7 TASK 90 - Doc 6 7 TASK 90 - Doc 7 WDE00 9 WDE00 1 WDE00 1 WDE00 1 WDE00 1 WDE00 1 WDE00 2 WDE00	brication 00838 gh Speed Co ake Rates Springs and 1173-8-2 00819 00549 00640 0075 00392 00392 00394 00401	Thermal (Infrared) Gun Dipetick Gauge Grease Gun Grease Brush Paint Brush Torque Wrench upler 1/18 in Grease Fitting Direct Reading Gauges — Brake Rates PTU Laptop with Connecting Cables Garbody Height Checks GoNNo-Go Gauge, Air Spring Height Breda Air Bag GoNo-Go Gauge GoNNo-Go Gauge, Air Spring Height Threshold Height T-Square Gauge Threshold Height Reference Bar Caliper & Ruler Digital Pressure Gauges Starrett Depth Gauge 27IM Door Adjustment Gauge SK-07-11 Door Height Gauge Door Godos Gouge Door Godos Gauge Door Godos Gouge Door Godos Gouge Door Godos Gouge Imm Smm Door GoNbo Go Gauge	0 13 3 3 3 5 10 5	0 13 3 3 5 5 8 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 3 3 6 6 2	0 8 2 2 7 7 7 6 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 16 4 4 4 4 5 8 8 4	1 3 3 6 6	3 3 1 3 6 6 6	1 1 1 3 6 6	1 3 3 6 6	1 3 3 6 6	10/5/2017	16 20 15	x x x x x x x x x x x x x x x x x x x	x x x x x x x x x x x x x x x x x x x	
TASK 60 - Lub MDE00 TASK 60 - Lub MDE00 TASK 65 - High TASK 80 - Air TASK 90 - Brain MDE00 MDE00 TASK 90 - Doc MDE00 MDE	brication 000838	Thermal (Infrared) Gun Dipstick Gauge Grease Gun Grease Brush Paint Brush Torque Wrench upler 1/8 in Grease Fitting Direct Reading Gauges — Brake Rates PTU Laptop with Connecting Cables Garbody Height Checks GorNo-Go Gauge, Air Spring Height Breda Air Baig GorNo-Go Gauge GorNo-Go Gauge, Air Spring Height Threshold Height Reference Bar Caliper & Ruler Digital Pressure Gauges Starrett Depth Gaune 237M Door Adjustment Gauge SK-07-11 Door Height Gauge Door GorNo Go Gauge Imm 3mm Door GorNo Go Gauge Door Spindle Nut Tool Door Jrimm Spanner Wernch Bulkhead Door Pivot Wrench	0 13 3 3 3 5 10 5	0 13 3 3 5 5 8 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 3 3 6 6 2	0 8 2 2 7 7 7 6 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 16 4 4 4 4 5 8 8 4	1 3 3 3 6 6	3 3 1 3 6 6	1 1 1 3 6 6	1 3 3 3 6 6	1 3 3 3 6 6	10/5/2017	16 20 15	X X X X X X X X	x x x x x x x x x x x x x x x x x x x	
TASK 60 - Lub MDE00 TASK 60 - Lub MDE00 TASK 65 - High TASK 80 - Air TASK 90 - Brain MDE00 MDE00 TASK 90 - Doc MDE00 MDE	brication 00838 sh Speed Co ake Rates Springs and 1173-8-2 1140-8-2 00840 00640 oos 98 00392 00394 00401 00403 00403	Thermal (Infrared) Gun Dipstick Gauge Grease Gun Grease Brush Paint Brush Torque Wrench upler 1/8 in. Grease Fitting Direct Reading Gauges — Brake Rates PTU Laptop with Connecting Cables Garbody Height Checks GoNlo-Go Gauge, Air Spring Height Breda Air Bag GoNlo-Go Gauge GoNlo-Go Gauge, Air Spring Height Threshold Height T-Square Gauge Threshold Height Reference Bar Caliper & Ruler Digital Pressure Gauges Starrett Depth Gauge 237M Door Adjustment Gauge SK-07-11 Door Height Gauge Door Gude Thickness Gauge Imm 3mm Door Go/No Go Gauge Door Spindle Nut Tool Door 17mm Spanner Wrench	0 13 3 3 3 5 10 5	0 13 3 3 5 5 8 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 3 3 6 6 2	0 8 2 2 7 7 7 6 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 16 4 4 4 4 5 8 8 4	1 3 3 6 6 G 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	3 3 1 3 6 6 6	1 1 1 3 6 6	1 3 3 6 6 6	1 3 3 6 6 6	10/5/2017	16 20 15	x x x x x x x x x x x x x x x x x x x	x x x x x x x x x x x x x x x x x x x	
7 7 8 TASK 60 - Lub 9 WDE00 0 1 1 2 2 3 3 4 TASK 65 - High 16 7 7 7 TASK 80 - Air: 17 WDM180: 2 WDE00 18 WDE00 19 WDE00 10 WDE00 10 WDE00 11 WDE00 11 WDE00 11 WDE00 12 WDE00 13 WDE00 14 WDE00 15 WDE00 16 WDE00 17 WDE00 18 WDE00 18 WDE00 19 WDE00 19 WDE00 10 WDE00	brication 00838 gh Speed Co ake Rates Springs and 1173-8-2 00819 00549 00549 00392 00392 00392 00392 00403 00406	Thermal (Infrared) Gun Dipstick Gauge Grease Gun Grease Brush Paint Brush Torque Wrench upler 1/8 in Grease Fitting Direct Reading Gauges – Brake Rates PTU Laptop with Connecting Cables Carbody Height Checks GoNNo-Go Gauge, Ar Spring Height Breda Ar Bag Go/No-Go Gauge GoNNo-Go Gauge, Ar Spring Height Breda Ar Bag Go/No-Go Gauge GoNNo-Go Gauge, Ar Spring Height Threshold Height T-Square Gauge Threshold Height Reference Bar Caliper & Ruler Digital Pressure Gauges Starrett Depth Gauge 237M Door Adjustment Gauge SK-07-11 Door Height Gauge Door Guide Thickness Gauge Imm Samm Door Go/No Go Gauge Door Spindle Nut Tool Door 17mm Spanner Wrench Bullchead Door Pivot Wrench Bullchead Door Pivot Wrench	0 13 3 3 3 5 10 5	0 13 3 3 5 5 8 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 3 3 6 6 2	0 8 2 2 7 7 7 6 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 16 4 4 4 4 5 8 8 4	1 3 3 3 6 6	3 3 1 3 6 6	1 1 1 3 6 6	1 3 3 3 6 6	1 3 3 3 6 6	10/5/2017	16 20 15	x x x x x x x x x x x x x x x x x x x	x x x x x x x x x x x x x x x x x x x	



Form WMSC-IR-1

Washington Metrorail Safety Commission

0	WDE000408	Door Offset Spanner Wrench					1	3	3	1	3	3			X		
1	WDE000408	Door Lower Bump Stop Wrench	-				-	3	3	1	3	3		-	×		-
	VVDE000409	Feeler Gauge (1.2mm to 2.2mm)					_	3	3	3	3	3			X		-
	9245260022909																
	WDE000818	Anti Rattle Block Gauge / Door Height Gauge						3	3	3	3	3			×		
		Straight Edge	8 8					3	3	3	3	3		5 8		X	0
5	WDE000817	Nose Seal Gauge	9	-				3	3	3	3	3			X		
1	WDE000752	D -1-10-11-5	0	1	0	12		6	6	3	6	6	****	20	×		
6	WDE000752	Push/Pull Force Gauge Adapter	0	1	0	1	1	6	6	3	6	6	10/5/2017	20	×		
7	WDE000388	3/8" Flat Plate Obstruction	1	0	0	5	0	6	6	3	6	6	10/5/2017	7	X		
		Steel Rule	0	0	0	0	0									x	
9	WDE000548	Pin Gauge Set	3	2	0	3	0						-		x		_
1	***************************************	I ili Gauge Set															
		Feeler Gauge	2	0	0	2	2	3	3	1	3	3				x	
0		Feeler Gauge	2	0	0	2	2	3	3	1	3	3				x	
		Torque Wrench	3	3	2	1	3	3	3	1	3	3				x	
2		PTU Laptop with Connecting Cables	24	9	10	23	18	24	9	10	23	18					
3		Dynamometer	0	0	0	0	0	1	1	3	1	1				X	
4		0.040 in. Feeler Gauge	0	0	0	0	0	1	1	3	1	1				X	
TASE	K 100 - Level III - N	Major Cleaning		211	0												
		Plastic Putty Knife	0	0	9	0	0									x	
7		Swiffer™ type mop	0	0	0	0	0	-	-			-	-		-	V	-
8		Swiffer™ type mop Swiffer™ type mop pads	0	0	0	0	0	-	_		_	-	+		_	X	-
		Steam Cleaner	0	0	0	0	0						_			X	
1		Steam steamer															
		Microfiber Cloth	o	o	0	o	o									x	
1		Monitor Safe Cloth	0	0	0	0	0									Х	
		Vacuum	3	3	3	3	3					4				X	
3		Shampoo	0	0	0	6	3									X	_
1		Mop with Plastic Frame	0	0	0	0	0									x	
5		Brushes	0	0	0	0	0									X	
5		Mop Head (Large)	0	0	0	0	0					_		_		x	_
,		Mop Head (Small)	5	5	5	5	5									X	
	K 110 - Pre-Reveni																
-		Seal Press	25	20	22	20	20	3	3	3	3	3					
		VMS Seal Press, McMaster-Carr P/N 2012T1	2			571											
		with "VMS" engraved on dies	2	1	2	1	1	3	3	3	3	3					

¹ The rail transit agency must provide WMSC with the necessary evidence (e.g. maintenance work order system records, photos, documentation, records, data, or	
other evidence) to close out the Remedial Action. Closeout of Remedial Actions may also be subject to ongoing WMSC verification inspections to ensure correctio	ns
are sufficient and effective.	

Inspector in Charge - Signature		Date 09/01/2020
Inspector in Charge – Name	Inspection Team	
Manuel Lopez	Manuel Lopez	