# DRY SYSTEM® DIESEL ELECTRIC PACKAGE ELECTRICAL PERMISSIBILITY CHECKLIST M261-008-01

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# MODEL M261 MSHA CERTIFIED DIESEL ELECTRIC PACKAGE

MSHA DE- 18-DEA070001-0 18-DEA100001-0

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DO NOT CHANGE WITHOUT MSHA APPROVAL

REVISION 08 \* DATED JANUARY 2018

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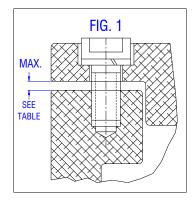
#### \* ELECTRICAL PERMISSIBILITY CHECKLIST \* M261-008-01 Page 2

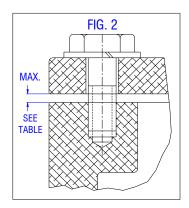
The component and function checks in this document that are identified as "weekly" must be performed

		mination in accorda area where permis		FR, Section 75.1914 is not required.	I. All checks
Machine Approva	l #	Se	rial #		
Examination Date		C	onducted By		
[WEEKLY] \				hat is clearly stampe must match the nun	
Enclosure	Quantity of Item Per Machine	Certification Number	Enclosure	Quantity of Item Per Machine	Certification Number
Alternator	1	07-JA040001-0	Camera	2 Optional	XP3938-0,-1
Headlight Switch	1	XP2456-2	Monitor	2 Optional	XP3844-1
Alt. Headlight Switch	1, Opt 2	XP3844-1	Strobelight	2 Optional	XP3938-0,-1
Alt. Headlight Switch	1	XP2166	Hourmeter	1 Optional	XP3938-0,-1
Alt. Headlight Switch	1	XP3846-0, -1		•	,
Alt. Headlight Switch	1	XP1683-2			
Alt. Headlight Switch	1	18-XPA050010-0			
Headlight	4, Opt 5, Opt 6, Upto 11 if 12W	XP3938-0, -1			
Alt. Headlight	4, Opt 5, Opt 6	XP3221-0			
Alt. Headlight	4, Opt 5, Opt 6	XP1468-16, -31			
Connection Box	1 Optional	XP3844-1			
Strobelight	1 Optional, Opt 2	XP3843-2			
2. [ ] A [WEEKLY] C  3. [ ] L [WEEKLY] e  4. [ ] N	all electrical enclose components are proceed occlosed as the control of the fastenir	ures are securely motected from physic rovided for all bolts, closures. All bolts,	al damage. screws, or stu- screws, and stu- on the explosion	vulnerable electrical ds that secure parts ids are in place and n-proof enclosures a	of the tightened.
5. [ ] L	Jse feeler gauges o	f the appropriate si between the enclo	ze to ensure tha	at clearances in all a corresponding cov	

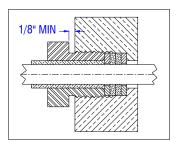
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Component	Cert. No.	Clearance (Inches)	
Alternator	07-JA040001-0	0.006 FIG 1	
Headlight Switch	XP2456-2	0.006 FIG 1	
Headlight Switch/Connection Box/Monitor	XP3844-1	0.002 FIG 2	
Headlight Switch	XP1683-2, XP2166, XP3846-0,-1	0.003 FIG 2	
Headlight Switch	18-XPA050010-0	0.004 FIG 2	
Headlight	XP3221-0	0.002 FIG 2	
Headlight	XP3938-0,-1, XP1468-16,-31	N/A	
Strobelight	XP3843-2, XP3938-0,-1	N/A	
Camera/Hourmeter/Dashlight	XP3938-0,-1	N/A	





- 6. [ ] Headlight enclosures are intact, not cracked or broken, and the lenses are not loose.
- 7. [ ] All lead entrances (packing glands) are tight and a 1/8" minimum clearance remains between the packing nut and stuffing box. (See Figure)



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8. [WEEKLY]	[	]	All packing nuts and stuffing boxes are secured from loosening by a locking screw, wire, or other means.	
9. [WEEKLY]	[	]	All unused lead entrances are closed with metal plugs, which are secured in place by spot welding, brazing, or equivalent. <b>(See Figure)</b>	
			MATERIAL STEEL  TACK WELD  LOCK SCREW	
10. ĮWEEKLYJ	[	]	Headlights are installed at each end of the machine.	
<b>11</b> . [WEEKLY]	[	]	Headlights are operable.	
12. [WEEKLY]	[	]	Headlight switches do not control or operate any electrical circuits other than the headlights.	
13. [WEEKLY]	[	]	Where required, electric cables outside of explosion proof enclosures are protected by flame resistant hose conduit. If hose conduit is used, it must be securely clamped at both ends and MSHA markings appear as Flame-Resistant", US MSHA.	
14. [WEEKLY]	[	]	Cables are clamped in place to prevent undue movement.	
<b>15.</b> [WEEKLY]	[	]	Cables are not subject to abrasion from sharp corners or edges.	
16. [WEEKLY]	[	]	Cables are protected from mechanical damage by position, flame resistant hose conduit, metal tubing, or troughs. Note: Flexible or threaded rigid metal conduit is not acceptable.	

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17. [WEEKLY]	[	]	Cables are isolated from hydraulic lines, hydraulic components and fuel lines.
		•	ecks should be performed whenever an explosion-proof electrical enclosure has been r service, repair, or inspection.
18.	[	]	All joints forming the flame arresting paths (flanges or covers) are smooth and free from rust, corrosion and pitting.
19.	[	]	Cables are flame resistant if not enclosed in hose conduit. This is indicated by "MSHA" markings on the cable.
20.	[	]	Fuses are installed inside the alternator housing for overload protection of each power conductor in the electrical system. The fuses are of the proper dimensions for the fuse holders and do not exceed the current rating listed on drawings M261-003-01 or M261-007-01 or M261-012-01 or M261-014-01 or M261-029-01 or M261-031-01 or M261-035-01 or M261-038-01 or M261-041-01. (16GA Wire-7.5A, 14GA Wire-15A, 12GA Wire-20A)
21.	[	]	All lead entrances (packing glands) are assembled so that the cable jacket penetrates into the enclosure.
22.	[	]	Electrical connections inside the electrical enclosures are secure and are insulated where space is limited. The ground conductors are not broken and are securely attached.
Metha If the r			tor nas an optional methane monitor system installed, then the following checks apply.
23. [WEEKLY]	[	]	The power supply enclosure has a MSHA plate attached that is clearly stamped with a MSHA certification number. The certification number is X/P 2133-13.
24. [WEEKLY]	[	]	All methane monitor components are securely mounted on the machine.
25.	[	]	All explosion-proof enclosures are assembled per checks 2, 3, and 4.

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26. [WEEKLY]	[	]	Use a 0.004in feeler gauge to ensure that clearance between the power supply enclosure and the cover is not exceeded.
27. [WEEKLY]	[	]	All packing glands are installed correctly per checks 7, 8, and 9.
28. [WEEKLY]	[	]	The vent holes and the filter on the sensor head are not clogged.
29. [WEEKLY]	[	]	The methane monitor is properly calibrated to indicate zero (0) percent methane when no methane is present.
30. [WEEKLY]	[	]	Test the methane monitor by activating the test button. When the test button is depressed it simulates a signal from the detector sufficient to actuate all alarms and de-energize the shutdown relay.
31.	[	]	The methane monitor shall be maintained in permissible and proper operating condition and shall be calibrated at least once every 31 days.