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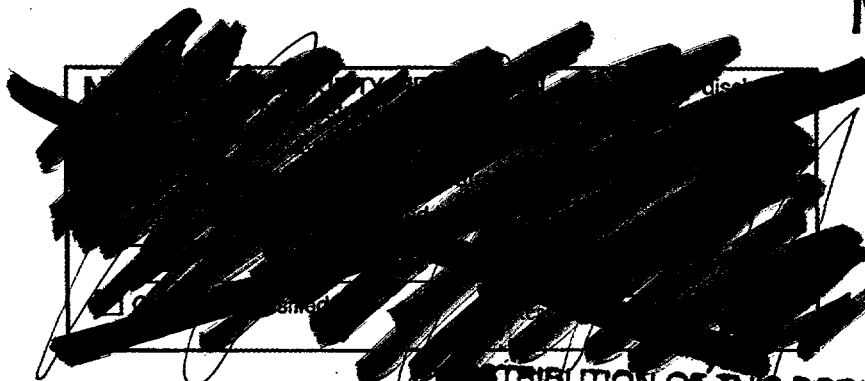
FUNCTIONAL TEST PROCEDURE, FIFTH WHEEL (U)

CHANGE HISTORY

<u>CONTROL NUMBER</u>	<u>ISSUE</u>	<u>RELEASE/CHANGE NO.</u>	<u>DATE</u>
SS-R42351-000	A	CER 931411SA	10/18/93
	B	FCO 940373SA	4/94
	C	FCO 940736SA	7/94
	D	FCO 940 941031 § A	

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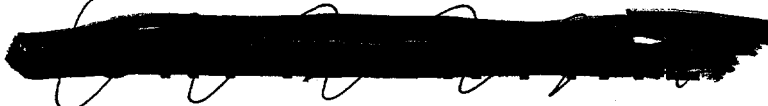


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Classification changed to "Unclassified" by authority of Bruce D. Green, Class. Analyst, and R. B. Craner, Class. Officer, Dept. 13214, by Carmela M. Gallegos: 11/28/94 (13214 NA 94/807).

Verification Witness: Teddie C. Bruce, 11/28/94
Teddie C. Bruce, 13214

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The following equipment is required for initial assembly/maintenance and inspection/resetting of the Fifth Wheel System.

- Training Tester Kit (Dwg R24985)
 - N₂ Gas Bottle
 1. For training configuration, use N₂ gas bottle per Dwg RO8664.
 2. For testing, use N₂ gas bottle of any size with minimum pressure of 1200 psig.
 3. For fleet operation, use N₂ Eager-Pac #1812-102-06.
 - Shorting Plug (Dwg R35887)
 - Pigtail, FW Tester, Gas Bottle (R37747)
 - Wrist Strap
- Verification of wrist strap prior to use.
- Use of a wrist strap is mandatory when working with the compressed gas bottle.
 - Use of the wrist strap shall be verified by the user prior to performing the procedure. Ensure that the instrument used for measuring resistance is calibrated as per your site requirements. Resistance between the wrist band and the alligator clip shall be between 800,000 Ω and 1,200,000 Ω .
 - Ensure the alligator clip is insulated and no bare metal is exposed. Contact with the metal clip and your fingers defeats the purpose of the high resistance wrist strap.
- Simpson Model 260 Voltmeter or equivalent (use on Test 4, Page 13; Step 7.19)
 - Valhalla 4314A Digital Igniter Tester (use on Test 3, Page 13, Step 7.41 or Step 6.5)
 - Weight measuring scale (certified to ± 1 gram accuracy)

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License Number _____ Date of Test _____

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- ### CAUTION

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7. Reset System/Eager-Pac Installation

License Number _____ Date of Test _____

- 7.1 Turn ignition switch to "ON" position.
(Do not start engine.)
- "Fired" light comes "ON."
 - Valve handle (V1) must be in UP position. _____
- 7.2 Remove cap from front of gas manifold
(Dwg S97581, Item 30). _____
- 7.3 Reset pressure switch (S7) (Dwg S97581, Item 1).
• "FIRED" light goes "OFF." _____
- 7.4 Install cap on gas manifold (Dwg S97581, Item 30). _____
- 7.5 Press reset switch (S5) (Dwg S97581, Item 25).
• "CMD 1-2" light comes "ON." _____
- 7.6 Close valve on N₂ cylinder. _____
- 7.7 Disconnect Fifth Wheel training valve, air hose,
and air regulator, and remove training valve.
Disconnect J4 connector. _____
- 7.8 Install cover over valve (V1).
• "CMD 1-2" light goes "OFF." _____
- 7.9 Turn ignition switch to "OFF" position. _____
- 7.10 Install seal on valve cover and "CMD 1-2" switch. _____

CAUTION

Do not remove shorting plug when weighing
Eager-Pac gas bottle.

- 7.11 Weigh Eager-Pac gas bottle and record weight on
Eager-Pac Data Sheet (Page 13). (New or Yearly)
- If the weight of the Eager-Pac gas bottle has
decreased by more than 40 grams (from original
weight marked on the bottle) the bottle shall
be replaced. _____

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7. Reset System/Eager-Pac Installation (continued)

License Number _____ Date of Test _____

- 7.18 Connect air line from manifold to Eager-Pac gas bottle. _____
- 7.19 Perform a pin to pin and a pin to ground "STRAY VOLTAGE CHECK" on P4 cable and record on Eager-Pac Data Sheet. (Test #4, Page 13.) _____
- Limits: 0 to 0.10 V. (Use Simpson meter or equivalent.) _____

CAUTION

- Before connecting J4 electrical connector to Eager-Pac gas bottle, verify that Step 7.19 has been performed.
- Bonding required during Steps 7.20 through 7.22.
- Verify that wrist strap has continuity. (see Para 4).

- 7.20 Attach wrist strap to wrist and clip end to fill valve of Eager-Pac gas bottle. _____
- 7.21 Remove shorting plug (Part #R35887) from Eager-Pac valve. _____
- 7.22 Connect J4 electrical connector to Eager-Pac valve. _____
- Remove wrist strap. _____
- 7.23 Install cover over gas bottle. _____
- 7.24 Install witness wire on Fifth Wheel Assembly. _____
- 7.25 Start tractor and test "SERVICE BRAKES." _____
- 7.26 Open Fifth Wheel jaws manually. _____
- 7.27 Complete Data Sheet on Page 13. _____
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EAGER-PAC DATA SHEET

TRACTOR LICENSE _____ DATE OF TEST _____

1. Eager-Pac Serial Number _____
Original Bottle Weight _____ Grams
_____ minus _____ = _____ Grams
(Total Weight) (Shorting Plug)
WEIGHT LOSS _____ Grams
Weight Scale Serial No. _____ Calibration Exp. Date: _____
Weight Number (if used) _____ Calibration Exp. Date: _____
2. New Bottle Required? YES _____ NO _____
New Bottle Serial No. (if applicable) _____
New Bottle Weight _____ Grams
_____ minus _____ = _____ Grams
(Total Weight) (Shorting Plug)
WEIGHT LOSS _____ Grams
3. Bridgewire Resistance Check: (Valhalla 4314A Digital Igniter Tester)
Ohms Limits: 0.90 to 1.20 Ω Resistance Reading _____ Ω
Tester Serial No. _____ Tester Model _____
Calibration Exp. Date: _____
4. Stray Voltage Check: (Limit 0 to 0.10 V) (Simpson meter, Model 260 or equiv.)
Pin to Pin Voltge Reading _____ Volts
Pin to Ground Voltage Reading _____ Volts
Tester Serial No. _____ Tester Model _____
Calibration Exp. Date _____

Technician Signature

Technician Signature

Supervisor Signature

Date

Facility Location

Copy to: Sandia National Laboratories/NM, MS 0790, Org 9613, Attn: Charles Arning

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