
SERVICE BULLETIN

MAINTENANCE OF WAY EQUIPMENT

DATE: 10 - 2021

BULLETIN NO: 21-006

TITLE: GOOSENECK LAMP MODIFICATION - 6700

RATING:

<input type="checkbox"/>	DIRECTIVE (Action Is Required)	<input checked="" type="checkbox"/>	ALERT (Potential Problem)
<input type="checkbox"/>	INFORMATION (Action Is Optional)	<input type="checkbox"/>	PRODUCT IMPROVEMENT (Enhance Product)

PRODUCT SERIES / MODEL: 6700 SJ Tampers

SERIAL NO: All Machines

SUMMARY: New models of Gooseneck Lamps' internal electronics have been modified by the lamp manufacturer and will not function properly at 24VDC with the dropping resistor. When a new replacement lamp is ordered, it must be rewired to a regulated 12VDC power source. Harsco Rail has created a new gooseneck lamp modification kit to complete this conversion.

OPERATIONAL IMPACT:

When a Gooseneck Lamp in a 6700 Tamper requires replacement, the Meter Box that it is wired to must be updated. The internal electronics of the gooseneck lamp has been modified by the lamp manufacturer. The gooseneck lamp will not function properly with the dropping resistor at 24 VDC. Lamp must now be rewired to a regulated 12 VDC power source.

ACTION: Order one 5126440 - Conversion, Gooseneck Lamp kit for each 6700 Tamper being reworked. Follow the instructions in this Service Bulletin to assemble and install the kit components. Refer to the supplied Harsco Rail drawing 5126440 - Conversion, Gooseneck Lamp, when installing the kit onto the 6700 Tamper.

CONTACT: Harsco Rail Service Department
(803) 822-7546

Harsco Rail Parts Department
(800) 800-6410

SAFETY INFORMATION



- Follow applicable railroad lockout - tagout procedures to disable energy sources when performing maintenance, making adjustments or repairs to the vehicle or equipment. Failure to heed this warning could result in severe bodily injury.

Before Installing Gooseneck Lamp Conversion Kit

1. Make sure all machine work components are in the stored position and locks are engaged.
2. Make sure the machine is shut down, parking brakes are applied, battery switch is turned off and the machine wheels are chocked.
3. Order one Conversion, Gooseneck Lamp kit Harsco Rail #5126440 for each machine.

ITEM	PART NO	DESCRIPTION	QTY
	5126440	Conversion, Gooseneck Lamp	1
1	F018858	Terminal	12
2	155623-1	In-Line Fuse Holder	1
3	157634-1	Fuse, Quick Acting	1
4	253069-2	Terminal Block	1
5	F018815	Terminal	8
6	253220-2	Jumper, 10Pos Term Block	1

INSTALLATION INSTRUCTIONS: - See attached 5126440 print

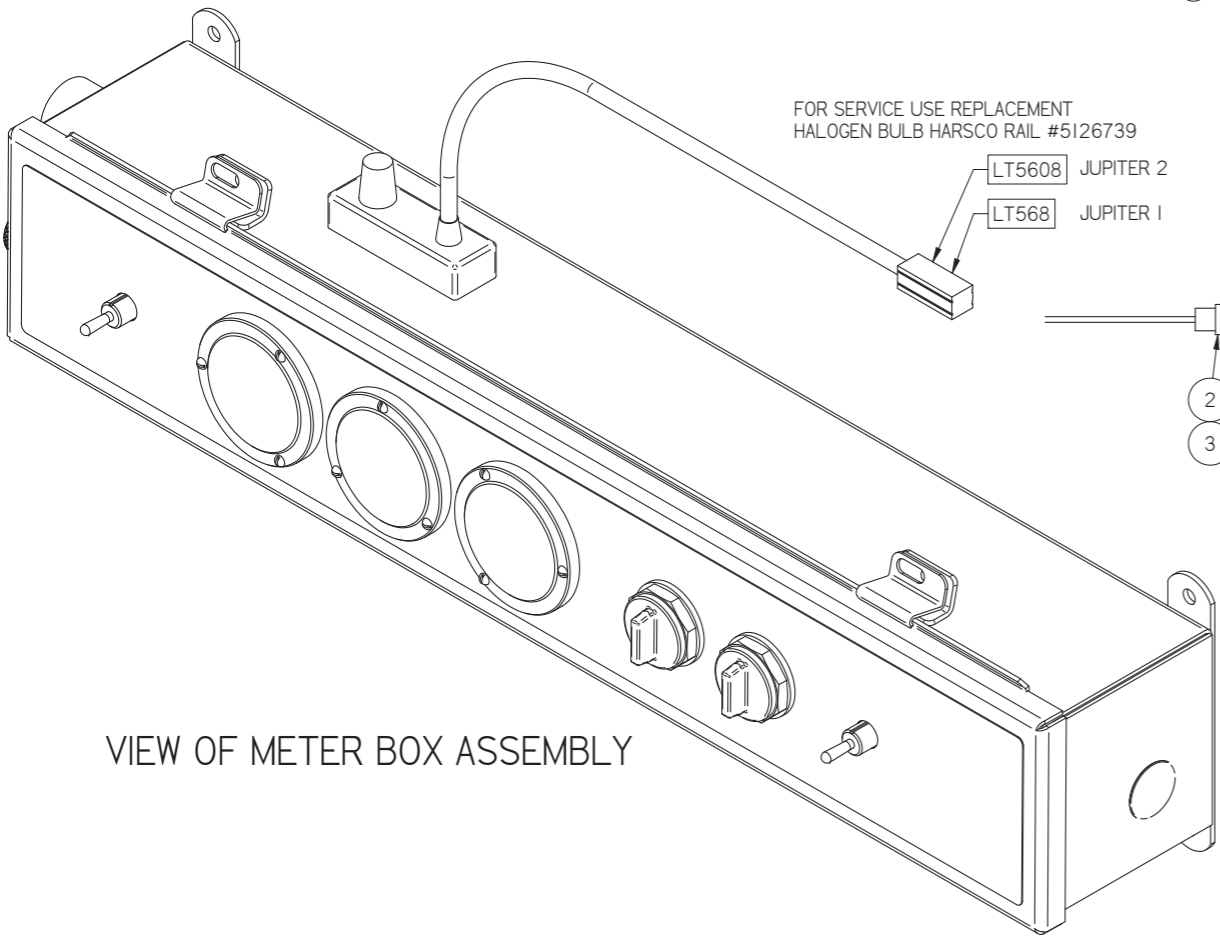
1. Locate Meter Box Assembly in Cab. Disconnect and discard dropping resistor (R5603 - Jupiter II) (RES568 - Jupiter I) and replace with (Item 2) 155623-1 - In-line Fuse Holder and (Item 3) 157634-1 - Fuse, Quick Acting.
2. Connect new (Item 2) 155623-1 - In-line Fuse Holder and reconnect Lamp (LT5608 - Jupiter II) (LT568 - Jupiter I) wires per Wire Chart 1.
3. Locate Cable C15 Conductors and update Conductors per Cable Chart 2.
4. Locate Cable C16 Conductors and add Conductors per Cable Chart 3.
5. Locate Overhead Assembly and add additional Jumpers per Jumper Chart 4.
6. Locate LH Panel Assembly and mount (Item 4) 253069-2 - Terminal Block to DIN Rail - position 11 (TB5A:11).

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306 West 4th Street
 Fairmont, MN
 56031-1837
 Tel: (507) 235-7376
 Parts: (800) 800-6410
 Fax: (507) 235-7372

2401 Edmund Road, Box 20
 Cayce-West Columbia, SC
 29171-0020
 Tel: (803) 822-7420
 Parts: (800) 800-6410
 Fax: (803) 822-7403

1200 Conrad Industrial Dr.
 Ludington, MI
 49431
 Tel: (231) 843-3431
 Parts: (800) 800-6410
 Fax: (231) 843-1644



VIEW OF METER BOX ASSEMBLY

REFERENCE DRAWINGS	
INCLUDE A COPY OF EACH OF THE FOLLOWING DRAWINGS WITH EACH KIT 11 x 17 SIZE	
DRAWING #	DESCRIPTION
5126440	CONVERSION, GOOSENECK LAMP

ITEM	PART NO	QTY	DESCRIPTION
1	F018858	12	DC-TERMINAL
2	I55623-1	1	IN-LINE FUSE HOLDER
3	I57634-1	1	FUSE, QUICK ACTING
4	253069-2	1	TERMINAL BLOCK
5	F018815	8	DC TERMINAL
6	253220-2	1	JUMPER, 10POS TERM BLOCK

- INSTALLATION INSTRUCTIONS:**
1. LOCATE METER BOX ASSEMBLY IN CAB. DISCONNECT, AND DISCARD DROPPING. AND INSTALL IN-LINE FUSE HOLDER #I55623-1 AND FUSE #I57634-1.
 2. CONNECT NEW IN-LINE FUSE HOLDER AND RECONNECT LAMP WIRES PER WIRE CHART 1.
 3. LOCATE CABLE C15 CONDUCTORS AND UPDATE CONDUCTORS PER CABLE CHART 2.
 4. LOCATE CABLE C16 CONDUCTORS AND ADD CONDUCTORS PER CABLE CHART 3.
 5. LOCATE OVERHEAD ASSEMBLY AND ADD ADDITIONAL JUMPERS PER JUMPER CHART 4.
 6. LOCATE LH PANEL ASSEMBLY AND MOUNT ITEM 4 TERMINAL BLOCK #253069-2 TO DIN RAIL POSITION 11 (TB5A:11).
- OPERATIONAL IMPACT:**
1. THE INTERNAL ELECTRONICS OF THE GOOSENECK LAMP HAS BEEN MODIFIED BY THE LAMP MANUFACTURER.
 2. IT WILL NOT FUNCTION PROPERLY WITH THE DROPPING RESISTOR AT 24 VDC.
 3. IT MUST NOW BE REWIRED TO A REGULATED 12 VDC POWER SOURCE.

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 COPYRIGHT 2021 HARSCO CORPORATION. ALL RIGHTS RESERVED. THIS DRAWING OR DOCUMENT IS THE PROPERTY OF HARSCO AND EMPLOYES CONFIDENTIAL INFORMATION, TRADE SECRET INFORMATION, AND/OR KNOW-HOW THAT IS THE PROPERTY OF HARSCO. BY ACCEPTING THIS DRAWING OR DOCUMENT, THE REQUIRANT AGREES (1) NOT TO PROVIDE OR OTHERWISE MAKE AVAILABLE, THE DRAWING OR DOCUMENT, OR ANY INFORMATION OR KNOW-HOW EMPLOYED THEREIN, TO ANY THIRD PARTY AND (2) NOT TO REPRODUCE OR USE THE DRAWING OR DOCUMENT TO MANUFACTURE ANY APPARATUS OR DEVICE, WITHOUT THE PRIOR WRITTEN AUTHORIZATION OF HARSCO.

FEATURES ENCLOSED IN ARE KEY CHARACTERISTICS				UNLESS OTHERWISE SPECIFIED:			
UNLESS OTHERWISE SPECIFIED:	1. ALL DIMENSIONS UNLESS OTHERWISE SPECIFIED	2. ALL UNFINISHED SURFACES SHALL HAVE A SURFACE FINISH OF 125 MICROINCHES	3. ANGULAR TOLERANCE OF 1.0°	4. DIMENSIONS UNLESS OTHERWISE SPECIFIED	5. ALL DIMENSIONS SHALL BE TO THE UNLESS OTHERWISE SPECIFIED	6. ALL DIMENSIONS SHALL BE TO THE UNLESS OTHERWISE SPECIFIED	7. UNLESS OTHERWISE SPECIFIED
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CHANGE	R/L	REVISION	DR	DATE
EC0615659	A	NEW RELEASE	BAD	07/20/21
EC0615943	B	UPDATED TO INCLUDE JUPITER 1 SCHEMATICS AND LH PANELS, ADDED OPERATIONAL IMPACT NOTE, UPDATED ITEMS 1, 5	BAD	09/02/21

Description	CONVERSION, GOOSENECK LAMP	Machine	6700S JUPITER II	Size	D
Weight	0.2 lbm	Drawn	bdoucette	Date Drawn	7/19/2021
SOLID EDGE DRAWING		DO NOT SCALE		Part Number	5126440
				Sheet	1 of 5

Inch [mm]

FOR SERVICE USE REPLACEMENT
HALOGEN BULB HARSCO RAIL #5126739

LT568 JUPITER I

PWR2603

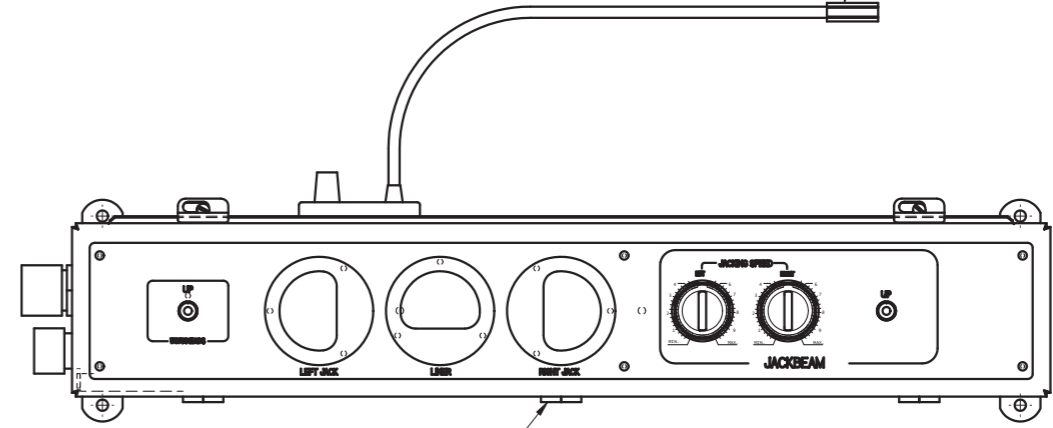
NOTE:
REFERENCE, THIS IS #2004737 12VDC, 50W POWER SUPPLY

C15

C14

VIEW OF OVERHEAD ASSEMBLY 12V POWER SUPPLY SOURCE
JUPITER I MACHINES

C16



TB8 LOCATED ON BOTTOM OF BOX

VIEW OF METER PANEL ASSEMBLY
JUPITER I MACHINES

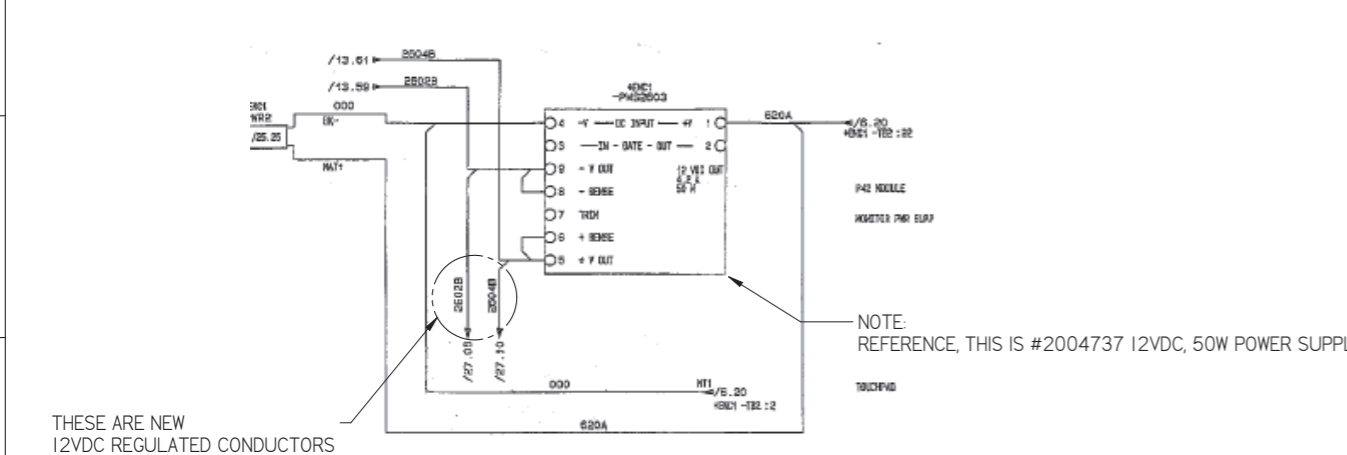
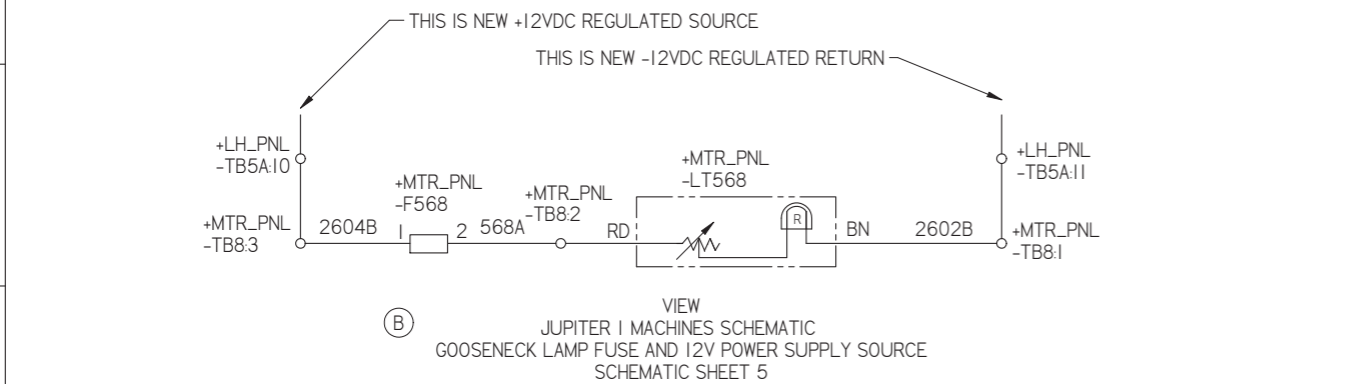
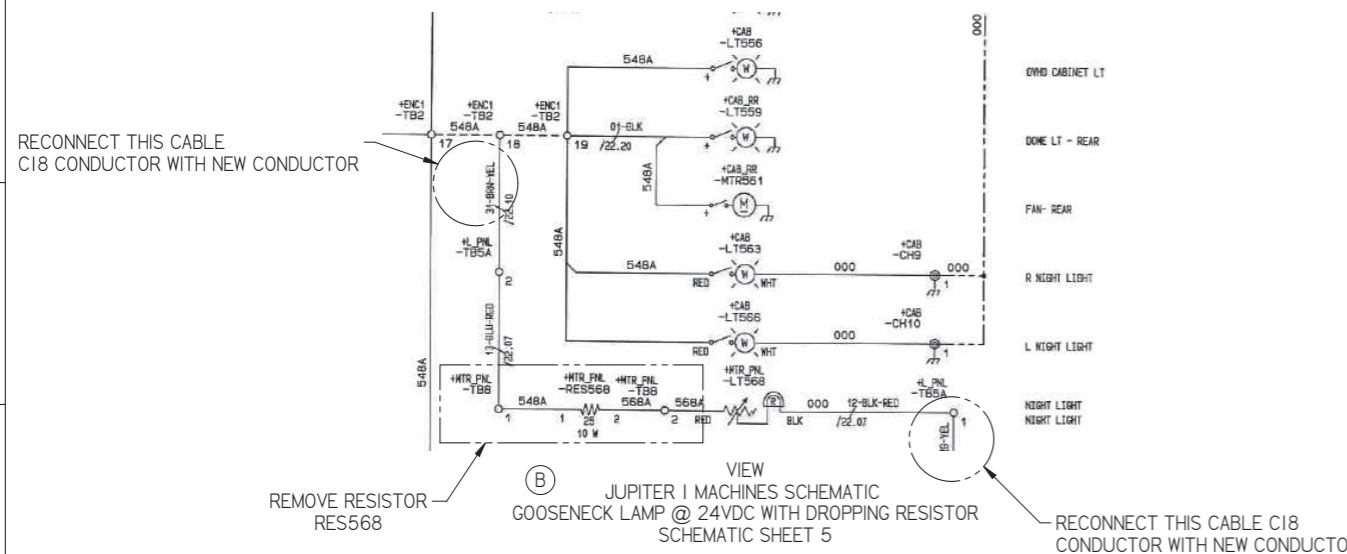
TB5A

VIEW OF LH PANEL ASSEMBLY
JUPITER I MACHINES

THIS SHEET FOR JUPITER I MACHINES.

Inch
[mm]

<p>CONFIDENTIAL</p> <p><small>COPYRIGHT 2021 HARSCO CORPORATION. ALL RIGHTS RESERVED. THIS DRAWING OR DOCUMENT IS THE PROPERTY OF HARSCO AND EMPLOYES CONFIDENTIAL INFORMATION, TRADE SECRET INFORMATION, AND/OR KNOW-HOW THAT IS THE PROPERTY OF HARSCO. BY ACCEPTING THIS DRAWING OR DOCUMENT, THE REQUIRANT AGREES (1) NOT TO PROVIDE OR OTHERWISE MAKE AVAILABLE, THE DRAWING OR DOCUMENT, OR ANY INFORMATION OR KNOW-HOW EMBODIED THEREIN, TO ANY THIRD PARTY AND (2) NOT TO REPRODUCE OR USE THE DRAWING OR DOCUMENT TO MANUFACTURE ANY APPARATUS OR DEVICE, WITHOUT THE PRIOR WRITTEN AUTHORIZATION OF HARSCO.</small></p>		<p>FEATURES ENCLOSED IN □ ARE KEY CHARACTERISTICS</p> <table border="1"> <thead> <tr> <th>NO.</th> <th>DATE</th> <th>BY</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>01</td> <td>03</td> <td>005</td> </tr> <tr> <td>1</td> <td>04</td> <td>04</td> <td>100</td> </tr> <tr> <td>2</td> <td>04</td> <td>04</td> <td>150</td> </tr> <tr> <td>3</td> <td>04</td> <td>04</td> <td>200</td> </tr> <tr> <td>4</td> <td>06</td> <td>06</td> <td>210</td> </tr> </tbody> </table>	NO.	DATE	BY	DESCRIPTION	0	01	03	005	1	04	04	100	2	04	04	150	3	04	04	200	4	06	06	210	<p>UNLESS OTHERWISE SPECIFIED:</p> <p>1. SURFACE FINISH AND BREAK SLOPE (S2002)</p> <p>2. ALL UNFINISHED SURFACES SHALL HAVE A SURFACE FINISH OF 16 MICROINCHES</p> <p>3. ANGULAR TOLERANCE OF 1.5°</p> <p>4. DIMENSIONS UNLESS OTHERWISE SPECIFIED ARE IN INCHES</p> <p>5. ALL DIMENSIONS SHALL ADHERE TO THE MOST CURRENT A.S.M.E. WELDING STANDARDS UNLESS OTHERWISE SPECIFIED</p> <p>6. THIRD ANGLE PROJECTION</p> <p>7. UNLESS OTHERWISE SPECIFIED, STANDARD: STD-1691D</p>	<table border="1"> <thead> <tr> <th>CHANGE</th> <th>R/L</th> <th>REVISION</th> <th>DR</th> <th>DATE</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>EC015659</td> <td>A</td> <td>NEW RELEASE</td> <td>BAD</td> <td>07/20/21</td> <td>CONVERSION, GOOSENECK LAMP</td> </tr> <tr> <td>EC015943</td> <td>B</td> <td>UPDATED TO INCLUDE JUPITER I SCHEMATICS AND LH PANELS, ADDED OPERATIONAL IMPACT NOTE, UPDATED ITEMS 1, 5</td> <td>BAD</td> <td>09/02/21</td> <td></td> </tr> </tbody> </table>	CHANGE	R/L	REVISION	DR	DATE	Description	EC015659	A	NEW RELEASE	BAD	07/20/21	CONVERSION, GOOSENECK LAMP	EC015943	B	UPDATED TO INCLUDE JUPITER I SCHEMATICS AND LH PANELS, ADDED OPERATIONAL IMPACT NOTE, UPDATED ITEMS 1, 5	BAD	09/02/21		<table border="1"> <tr> <td>Weight</td> <td>0.2 lbm</td> <td>Drawn</td> <td>bdoucette</td> <td>Date Drawn</td> <td>7/19/2021</td> </tr> <tr> <td colspan="2">SOLID EDGE DRAWING</td> <td colspan="2">DO NOT SCALE</td> <td colspan="2"></td> </tr> </table>	Weight	0.2 lbm	Drawn	bdoucette	Date Drawn	7/19/2021	SOLID EDGE DRAWING		DO NOT SCALE				<table border="1"> <tr> <td>Machine Type</td> <td>6700S JUPITER II</td> <td>Sheet</td> <td>2 of 5</td> </tr> <tr> <td>Part Number</td> <td>5126440</td> <td colspan="2"></td> </tr> </table>	Machine Type	6700S JUPITER II	Sheet	2 of 5	Part Number	5126440		
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VIEW JUPITER I MACHINES SCHEMATIC GOOSENECK LAMP @ 24VDC WITH DROPPING RESISTOR SCHEMATIC SHEET 5

VIEW JUPITER I MACHINES SCHEMATIC GOOSENECK LAMP FUSE AND 12V POWER SUPPLY SOURCE SCHEMATIC SHEET 5

VIEW JUPITER I MACHINES SCHEMATIC 2V POWER SUPPLY SOURCE SCHEMATIC SHEET 26

WIRE CHART 1
NEW WIRES REQUIRED FOR CONVERSION

WIRING CHART							
RUN	WIRE	SIZE	COLOR	FROM	TERM NO.	TO	TERM NO. PART NO
* 1	2602B	16 AWG	Black	LT568:BN	-	TB8:1	F018858 EXISTS
* 2	568A	16 AWG	Black	LT568:RD	-	TB8:2	F018858 EXISTS
* 3	2604B	14 AWG	Black	F568:1	-	TB8:3	F018858 EXISTS
* 4	568A	14 AWG	Black	F568:2	-	TB8:2	F018858 EXISTS

CABLE CHART 2
NEW CONDUCTORS REQUIRED FOR CONVERSION

LH PANEL TO METER PANEL C15 157503-24 20 FT +LH_PNL +MTR_PNL					
RUN	COLOR	WIRE #	FROM	TERM NO.	TO TERM NO.
* 12	BK/RD	2602B	TB8:15	F018815	TB5A:1 F018815
* 13	BU/RD	2604B	TB8:1	F018815	TB5A:2 F018815

CABLE CHART 3
NEW CONDUCTORS REQUIRED FOR CONVERSION

OVERHEAD TO LEFT ENCLOSURE C16 156510-17 20 FT +ENC1 +L_PNL					
RUN	COLOR	WIRE #	FROM	TERM NO.	TO TERM NO.
* 30	OR/YE	2604B	PWS2603:5	-	TB5A:10 F018858
* 31	BN/YE	2602B	PWS2603:9	-	TB5A:11 F018858

INSTALL IN-LINE FUSE HOLDER BETWEEN TB8:1 AND TB8:2

FUSE CHART				
RUN	DEVICE	FROM	TO	PART NO.
1	F568	TB8:1	TB8:2	157634-1

NOTE:

- * I. DENOTES NEW WIRES, CONDUCTORS, AND JUMPERS.

THIS SHEET FOR JUPITER I MACHINES.

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09/02/21	EC615943	B UPDATED TO INCLUDE JUPITER I SCHEMATICS AND LH PANELS, ADDED OPERATIONAL IMPACT NOTE, UPDATED ITEMS 1, 5

CHANGE R/L REVISION DR DATE Description

Weight 0.2 lbm Drawn bdoucette Date Drawn 7/19/2021

SOLID EDGE DRAWING DO NOT SCALE

Machine Type 6700S JUPITER II Part Number 5126440 Sheet 3 of 5

FOR SERVICE USE REPLACEMENT
HALOGEN BULB HARSCO RAIL #5126739

LT5608 JUPITER 2

PS6558

C15

C14

(B) VIEW OF OVERHEAD ASSEMBLY JUPITER 2 MACHINES

(B) VIEW OF METER PANEL ASSEMBLY JUPITER 2 MACHINES

TB8 LOCATED ON BOTTOM OF BOX

TB5A

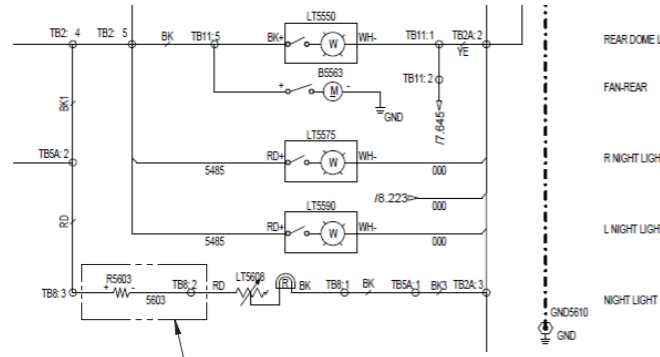
C16

(B) VIEW OF LH PANEL ASSEMBLY JUPITER 2 MACHINES

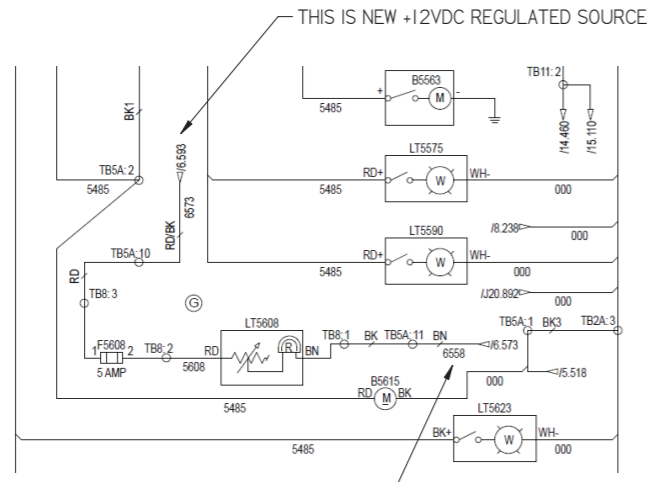
THIS SHEET FOR JUPITER 2 MACHINES.

Inch
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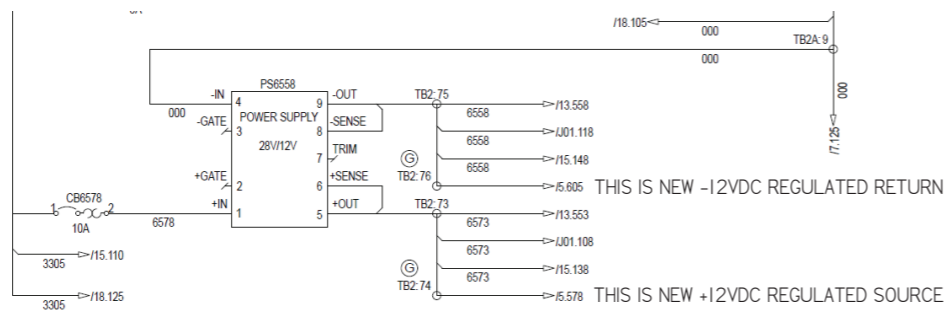
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REMOVE RESISTOR R5603
 (B) VIEW
 JUPITER 2 MACHINES SCHEMATIC
 GOOSENECK LAMP FUSE AND 12V POWER SUPPLY SOURCE
 SCHEMATIC SHEET 5



THIS IS NEW +12VDC REGULATED SOURCE
 (B) VIEW
 JUPITER 2 MACHINES SCHEMATIC
 GOOSENECK LAMP FUSE AND 12V POWER SUPPLY SOURCE
 SCHEMATIC SHEET 5



(B) VIEW
 JUPITER 2 MACHINES
 12VDC POWER SUPPLY IN OVERHEAD ASSEMBLY
 SCHEMATIC SHEET 6

WIRE CHART I
 NEW WIRES REQUIRED FOR CONVERSION

WIRING CHART								
RUN	WIRE	SIZE	COLOR	FROM	TERM NO.	TO	TERM NO.	PART NO
*	1	6558	16 AWG	Black	LT5608:BN	-	TB8:1	F018858 EXISTS
*	2	5608	16 AWG	Black	LT5608:RD	-	TB8:2	F018858 EXISTS
*	3	6573	14 AWG	Black	F5608:1	-	TB8:3	F018858 EXISTS
*	4	5608	14 AWG	Black	F5608:2	-	TB8:2	F018858 EXISTS

CABLE CHART 2
 NEW CONDUCTORS REQUIRED FOR CONVERSION

MTR PANEL TO LH PANEL							C15	20 FT
+MTR_PNL							157503-24	+L_PNL
RUN	COLOR	WIRE #	FROM	TERM NO.	TO	TERM NO.		
*	1	BK	6558	TB8:1	F018815	TB5A:11	F018815	
*	2	RD	6573	TB8:3	F018815	TB5A:10	F018815	

CABLE CHART 3
 NEW CONDUCTORS REQUIRED FOR CONVERSION

OVERHEAD TO LEFT ENCLOSURE							C16	20 FT
+ENC1							156510-17	+L_PNL
RUN	COLOR	WIRE #	FROM	TERM NO.	TO	TERM NO.		
*	29	BU/YE	6573	TB2:74	-	TB5A:10	F018858	
*	30	OR/YE	6558	TB2:76	-	TB5A:11	F018858	

JUMPER CHART 4
 NEW JUMPERS REQUIRED AT OVERHEAD ASSEMBLY FOR CONVERSION

JUMPER CHART				
RUN	FROM	TO	PART NO.	
*	1	TB2:73	TB2:74	253220-2
*	2	TB2:75	TB2:76	253220-2

INSTALL IN-LINE FUSE HOLDER BETWEEN TB8:3 AND TB8:2

FUSE CHART				
RUN	DEVICE	FROM	TO	PART NO.
1	F5608	TB8:3	TB8:2	157634-1

NOTE:
 * I. DENOTES NEW WIRES, CONDUCTORS, AND JUMPERS.

THIS SHEET FOR JUPITER 2 MACHINES.

CONFIDENTIAL

UNLESS OTHERWISE SPECIFIED: 1. ALL DIMENSIONS UNLESS OTHERWISE SPECIFIED ARE IN INCHES. 2. ALL DIMENSIONS UNLESS OTHERWISE SPECIFIED ARE TO FACE UNLESS INDICATED OTHERWISE. 3. ALL DIMENSIONS UNLESS OTHERWISE SPECIFIED ARE TO CENTER UNLESS INDICATED OTHERWISE. 4. ALL DIMENSIONS UNLESS OTHERWISE SPECIFIED ARE TO CENTER UNLESS INDICATED OTHERWISE. 5. ALL DIMENSIONS UNLESS OTHERWISE SPECIFIED ARE TO CENTER UNLESS INDICATED OTHERWISE.

DATE	BY	DESCRIPTION	DR	DATE	DESCRIPTION
07/20/21	EC615659	A NEW RELEASE	BAD	07/20/21	CONVERSION, GOOSENECK LAMP
09/02/21	EC615943	B UPDATED TO INCLUDE JUPITER 1 SCHEMATICS AND LH PANELS, ADDED OPERATIONAL IMPACT NOTE, UPDATED ITEMS 1, 5	BAD	09/02/21	

Weight 0.2 lbm Drawn bduocette Date Drawn 7/19/2021 Part Number 5126440

SOLID EDGE DRAWING DO NOT SCALE

HARSCO RAIL

Machine Type 6700S JUPITER II Size D

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