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## SERVICE BULLETIN MAINTENANCE OF WAY EQUIPMENT

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**DATE:** 7-2017 **BULLETIN NO:** 17-009

**TITLE:** RIDE QUALITY PRODUCT IMPROVEMENTS

**RATING:**

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

**PRODUCT SERIES / MODEL:** 6700SJ2 TAMPER

**SERIAL NO:** See the List at the end of this Service Bulletin for applicable machine serial numbers and conversion kit numbers.

**SUMMARY:** Per a customer request, the Ride Quality longitudinal seat suspension and vertical seat air suspension will be removed from the machine and the foot rest will revert back to the standard design.

**OPERATIONAL IMPACT:** The longitudinal and vertical seat suspensions will revert back to traditional, fixed-longitudinal and mechanical-vertical systems.

**ACTION:** Remove the seat system per the conversion drawings included in this Service Bulletin. See the Serial Number List and associated Conversion Number at the end of this Service Bulletin. Directions depend on whether the longitudinal suspension is above or below the Cab floor.

**CONTACT:** To order the Ride Quality System Kit or if you have any questions, please contact:  
Harsco Rail Service Department  
Ludington, MI Facility  
(231) 843-7413

**SAFETY INFORMATION**

- **FOLLOW APPLICABLE RAILROAD LOCKOUT - TAGOUT PROCEDURE TO REMOVE MACHINE FROM ALL ENERGY SOURCES. FAILURE TO HEED THIS WARNING COULD RESULT IN SEVERE BODILY INJURY.**

**SERVICE BULLETIN INSTRUCTIONS**

1. See Serial Number / Conversion Drawing List in this Service Bulletin for the Conversion Drawing applicable to your machine.
  - a. 5075604 Conversion Drawing is for Machines with above-floor suspension.
  - b. 5075606 Conversion Drawing is for Machines with below-floor suspension.
2. Remove the seat system per the Directions listed on the Conversion Drawing included in this Service Bulletin. Directions depend on whether the longitudinal suspension is above or below the Cab floor. Install the Seat Conversion Kit components per the Directions listed on the Conversion Drawing. The basic steps are as follows.
  1. Remove the air and hydraulic seat suspension components from the inside of the cab.
  2. Install the standard foot rest platform.
  3. Bolt the standard seat post to floor.
  4. Replace the vertical air suspension with the mechanical suspension.
  5. Install the seat.
  6. Install the new Software to turn off the seat suspension functionality.

**SERIAL NUMBER / CONVERSION DRAWING LIST**

<b>PRODUCT SERIES / MODEL: 6700SJ2 - UPRR</b>				
<b>SERIAL NO:</b>	<b>MACHINE NO:</b>	<b>MACHINE ORIGIN</b>	<b>ABOVE / BELOW</b>	<b>CONVERSION</b>
153777	ATS1404	LUDINGTON	ABOVE	5075604
153778	ATS1401	LUDINGTON	ABOVE	5075604
153779	ATS1402	LUDINGTON	ABOVE	5075604
153780	ATS1403	LUDINGTON	ABOVE	5075604
153805	ATS1501	LUDINGTON	ABOVE	5075604
153806	ATS1502	LUDINGTON	ABOVE	5075604
153807	ATS1503	LUDINGTON	ABOVE	5075604
153062	ATS003 ATS1504	DENVER	ABOVE	5075604
153068	ATS009 ATS1509	DENVER	ABOVE	5075604
153831	ATS1601	LUDINGTON	BELOW	5075606
153832	ATS1602	LUDINGTON	BELOW	5075606
153833	ATS1603	LUDINGTON	BELOW	5075606
153834	ATS1604	LUDINGTON	BELOW	5075606
153835	ATS1605	LUDINGTON	BELOW	5075606
153066	ATS1606	DENVER	ABOVE	5075604
153061	ATS1607	DENVER	ABOVE	5075604
153490	ATS1608	DENVER	ABOVE	5075604
152907	ATS1609	DENVER	ABOVE	5075604
152982	ATS1610	DENVER	ABOVE	5075604
152983	ATS1611	DENVER	ABOVE	5075604
152989	ATS1612	DENVER	ABOVE	5075604
152757	ATS1613	DENVER	ABOVE	5075604
152987	ATS1614	DENVER	ABOVE	5075604
152761	ATS9707 ATS1704	DENVER	ABOVE	5075604
152762	ATS9708 ATS1705	DENVER	ABOVE	5075604

**NOTES:**

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 Tel: (231) 843-3431  
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Printed In U.S.A.

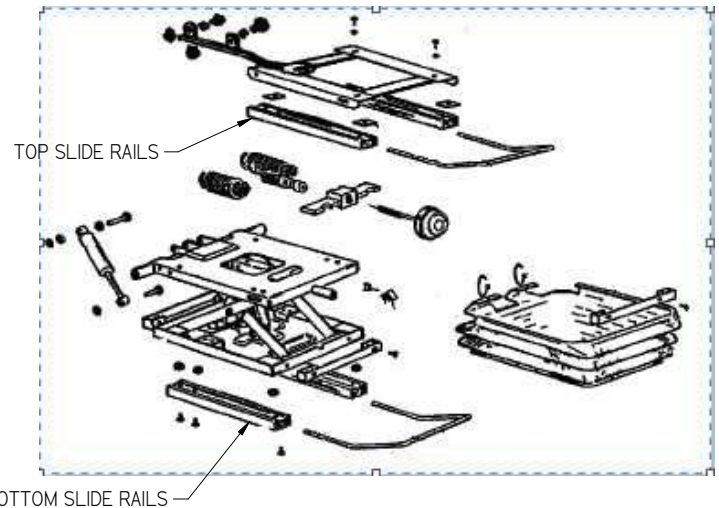
- READ AND UNDERSTAND INSTRUCTIONS BEFORE PROCEEDING.**
- 1) LABEL AND DISCONNECT ALL JUPITER CABLES FROM BACK OF OPERATORS SEAT ARM RESTS.
  - 2) REMOVE AND DISCARD PNEUMATIC LINES GOING TO THE SEAT.
  - 3) UNBOLT THE OPERATOR'S SEAT FROM THE SLIDING BASE AND SET ASIDE.
  - 4) REMOVE AND DISCARD ATTACHED FOOT REST ATTACHED TO SEAT POST.
  - 5) REMOVE AND DISCARD FRONT AND REAR SLIDING BASE COVERS.
  - 6) DISASSEMBLE AND DISCARD ALL MECHANICAL, HYDRAULIC AND PNEUMATIC SLIDING SEAT COMPONENTS, WHILE ENSURING ELECTRICAL CABLES FROM STEP 1 DO NOT GET DAMAGED.
  - 7) DISCONNECT AND DISCARD TRANSDUCER CABLE.
  - 8) REMOVE SWIVEL BASE FROM SEAT AND SET ASIDE, TAKE CARE TO MAINTAIN HARDWARE.
  - 9) REMOVE AND SET ASIDE BOTTOM SLIDE RAILS, TAKE CARE TO MAINTAIN HARDWARE.
  - 10) CAREFULLY REMOVE AND SET ASIDE RUBBER BELLOWS FROM SUSPENSION.
  - 11) REMOVE AND DISCARD AIR SUSPENSION PORTION OF THE SEAT, TAKE CARE TO MAINTAIN HARDWARE.
  - 12) INSTALL NEW MECHANICAL SUSPENSION.
  - 13) REINSTALL BOTTOM SLIDE RAILS.
  - 14) REINSTALL RUBBER BELLOWS.
  - 15) REINSTALL SWIVEL BASE.
  - 16) INSTALL AND WELD IN FOOT REST RAMPS PER DRAWING.
  - 17) INSTALL NEW FOOT REST.
  - 18) INSTALL NEW FOOT REST MAT.
  - 19) DRY FIT FLOOR MAT, TRIM IF NECESSARY.
  - 20) INSTALL NEW FLOOR MAT.
  - 21) REINSTALL SEAT TO FLOOR PLATE.
  - 22) RECONNECT JUPITER CABLES TO OPERATORS SEAT ARM RESTS.

NOTE:  
 1. ALL PARTS TO BE BAGGED AND LABELED WITH HARSCO RAIL PART NUMBERS.  
 2. SHIPPING BOX TO BE LABELED WITH:  
 a. HARSCO RAIL KIT PART NUMBER, REVISION  
 b. P.O. NUMBER

**REFERENCE DRAWINGS**

INCLUDE A COPY OF EACH OF THE FOLLOWING DRAWINGS WITH EACH KIT	
DRAWING #	DESCRIPTION
5075604	CONV, RIDE QUALITY A/F REMOVAL

ITEM	PART NO	QTY	DESCRIPTION
1	222965-1	2	MOUNT-FOOT REST
2	2000031	1	PLATE WELDMENT-FOOT REST
3	150988-9	4	WASHER- LOCK, .25 REGULAR
4	250010-5	4	SCREW-HHC, .25-20 X 1.00 LG
5	252272-221	4	SCREW-HHC, GRADE 8, .50-13 X 1.50 LG
6	150988-13	4	WASHER, LOCK, 1/2", HIGH COLLAR
7	150973-6	4	WASHER, FLAT, 1/2", HARDENED
8	2014197	1	SUSPENSION ASSEMBLY KIT
9	F014165	1	DC-PLG 12SAE HH
10	F011529	2	DC-CAP 6F
11	F011480	1	DC-CAP 8F
12	8124	1	HOLE SEAL, OIL TIGHT, .50 CONDUIT
13	5027895	1	DUST CAP - M12, EXT THD
14	2011829	1	DUST CAP - M12, INT THD
15	5075644	1	FLOOR MAT- HOLE COVER
16	5075624	2	MAX STRENGTH ADHESIVE, AEROSOL
17	5075667	1	FOOT REST MAT
18	157679-4	2	HOLE SEAL, OIL TIGHT, 1.25 CONDUIT
19	155534-4	1	HOLE PLUG, PRONG, .50 DIA HOLE

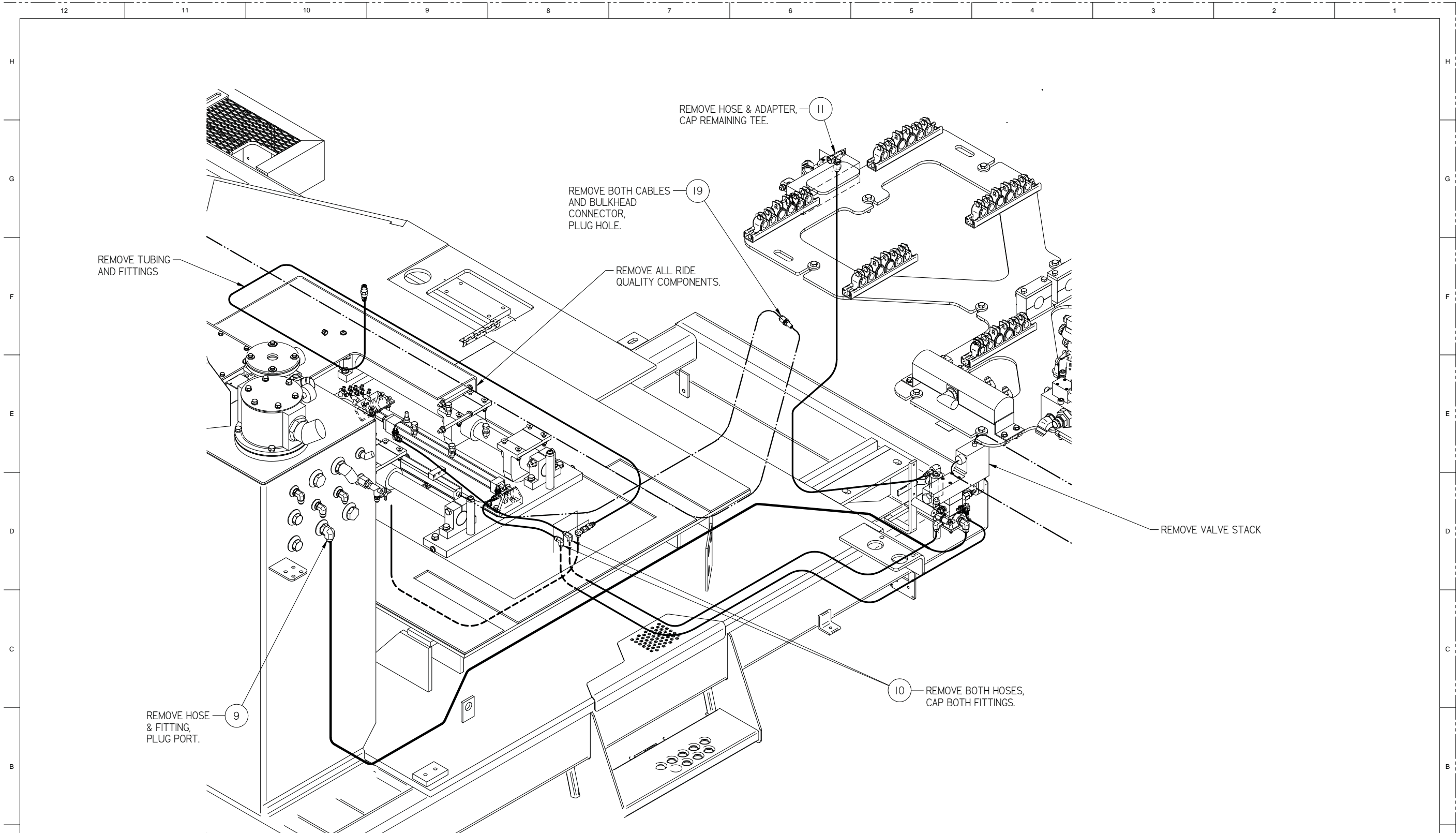


OPERATOR'S SEAT SUSPENSION  
REFERENCE ONLY

Inch  
[mm]

SIMILAR TO 5075606

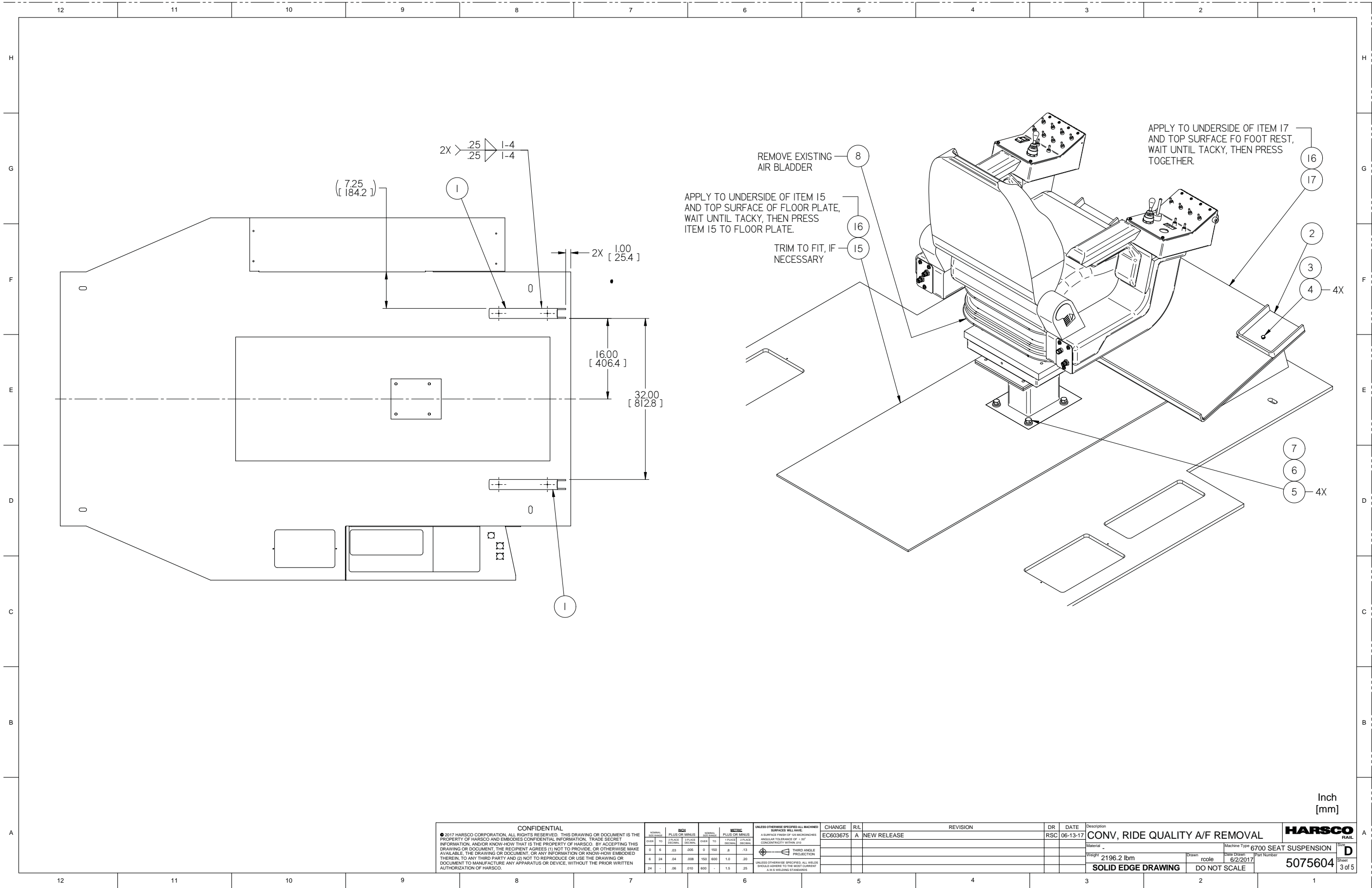
<b>CONFIDENTIAL</b>				<small>UNLESS OTHERWISE SPECIFIED ALL MACHINED SURFACES WILL HAVE A SURFACE FINISH OF 32 MICROINCHES ANGULAR TOLERANCE OF .20° CONCENTRICITY WITHIN .015</small>		CHANGE EC603675	R/L A	REVISION NEW RELEASE	DR RSC	DATE 06-13-17	Description CONV, RIDE QUALITY A/F REMOVAL	Machine Type 6700 SEAT SUSPENSION	Part Number 5075604	Sheet 1 of 5																														
<small>© 2017 HARSCO CORPORATION, ALL RIGHTS RESERVED. THIS DRAWING OR DOCUMENT IS THE PROPERTY OF HARSCO AND EMBODIES CONFIDENTIAL INFORMATION, TRADE SECRET INFORMATION, AND/OR KNOW-HOW THAT IS THE PROPERTY OF HARSCO. BY ACCEPTING THIS DRAWING OR DOCUMENT, THE RECIPIENT 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>	<table border="1"> <thead> <tr> <th rowspan="2">DIMENSION</th> <th colspan="2">BICH</th> <th colspan="2">MELC</th> </tr> <tr> <th>PLUS OR MINUS</th> <th>TOLERANCE</th> <th>PLUS OR MINUS</th> <th>TOLERANCE</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>6</td> <td>.03</td> <td>.005</td> <td>0</td> <td>150</td> <td>.8</td> <td>.13</td> </tr> <tr> <td>6</td> <td>24</td> <td>.04</td> <td>.008</td> <td>150</td> <td>600</td> <td>1.0</td> <td>.20</td> </tr> <tr> <td>24</td> <td>-</td> <td>.06</td> <td>.010</td> <td>600</td> <td>-</td> <td>1.5</td> <td>.25</td> </tr> </tbody> </table>	DIMENSION	BICH		MELC		PLUS OR MINUS	TOLERANCE	PLUS OR MINUS	TOLERANCE	0	6	.03	.005	0	150	.8	.13	6	24	.04	.008	150	600	1.0	.20	24	-	.06	.010	600	-	1.5	.25	<small>UNLESS OTHERWISE SPECIFIED ALL MACHINED SURFACES WILL HAVE A SURFACE FINISH OF 32 MICROINCHES ANGULAR TOLERANCE OF .20° CONCENTRICITY WITHIN .015</small>	THIRD ANGLE PROJECTION	<small>UNLESS OTHERWISE SPECIFIED ALL WELDS SHOULD ADHERE TO THE MOST CURRENT A.S.E. WELDING STANDARDS</small>	Weight 2196.2 lbm	Drawn roole	Date 6/2/2017	DO NOT SCALE	SOLID EDGE DRAWING	HARSCO RAIL	D
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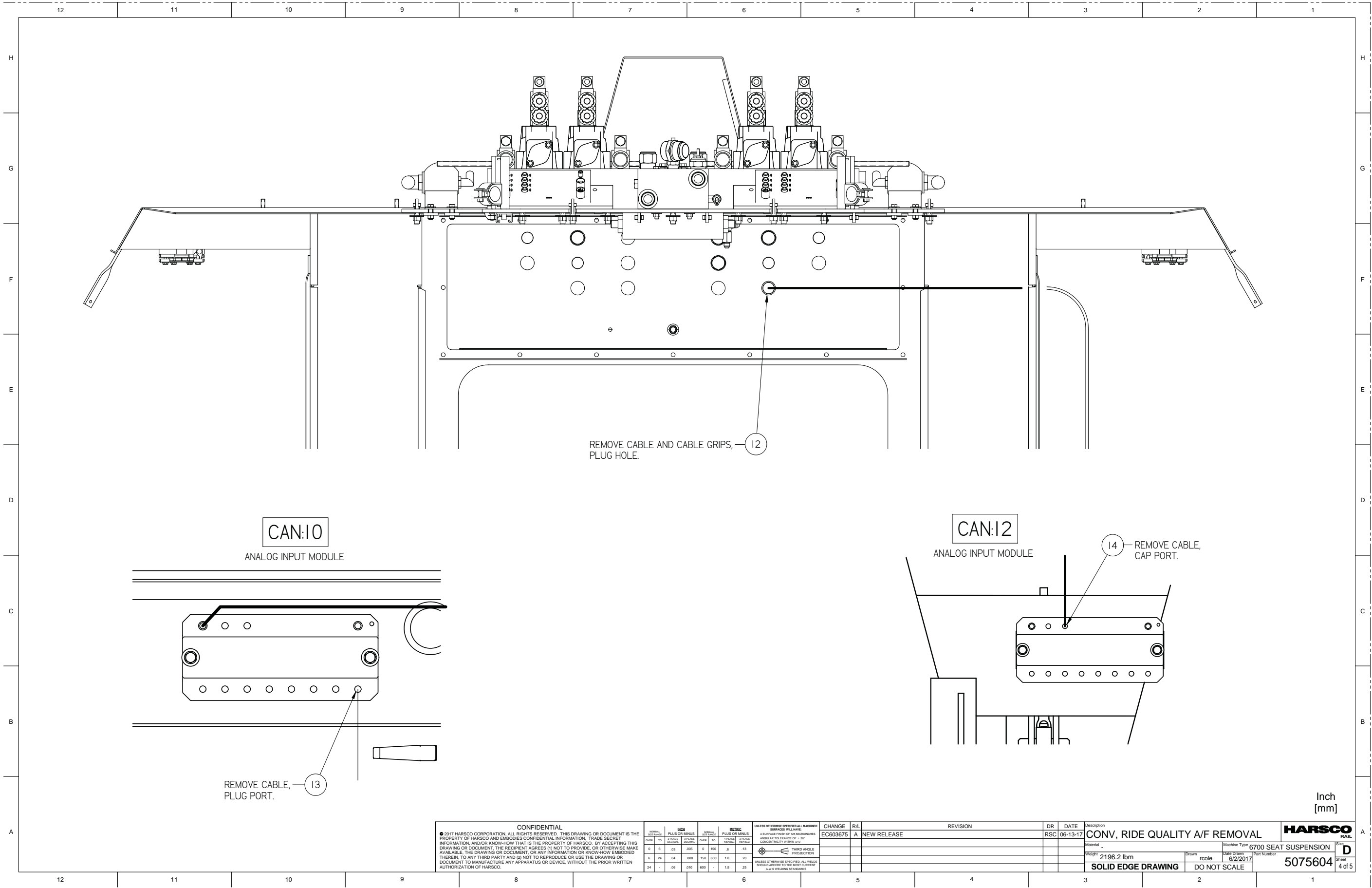
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**HARSCO**  
RAIL



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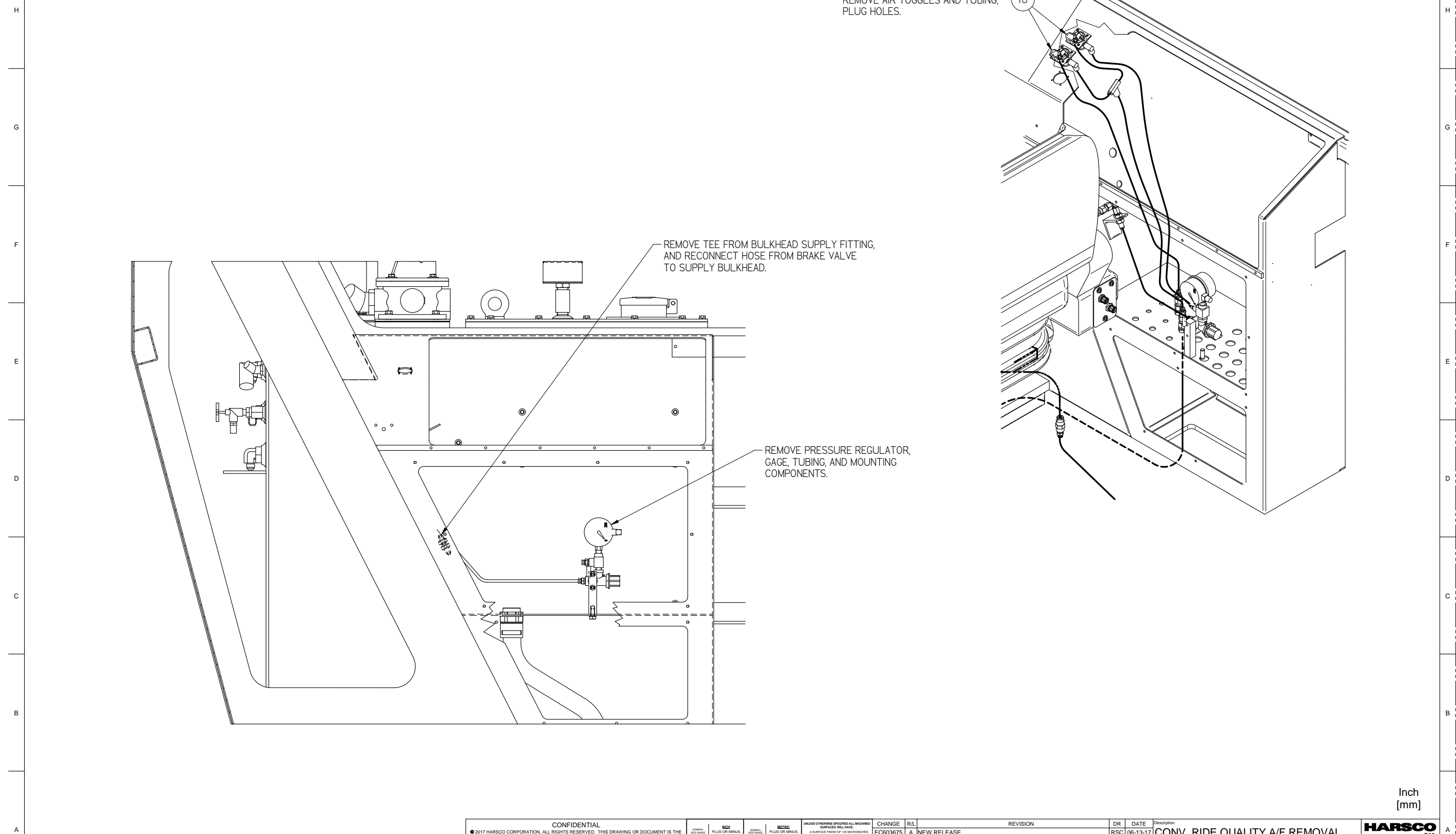
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Sheet	5 of 5																																																																																					

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**READ AND UNDERSTAND INSTRUCTIONS BEFORE PROCEEDING.**

- 1) LABEL AND DISCONNECT ALL JUPITER CABLES FROM BACK OF OPERATORS SEAT ARM RESTS.
- 2) REMOVE AND DISCARD PNEUMATIC LINES GOING TO THE SEAT.
- 3) UNBOLT THE OPERATOR'S SEAT FROM THE SLIDING BASE AND SET ASIDE.
- 4) REMOVE AND DISCARD ATTACHED FOOT REST.
- 5) REMOVE AND DISCARD FRONT AND REAR SLIDING BASE COVERS.
- 6) DISASSEMBLE AND DISCARD ALL MECHANICAL, HYDRAULIC AND PNEUMATIC SLIDING SEAT COMPONENTS, WHILE ENSURING ELECTRICAL CABLES FROM STEP 1 DO NOT GET DAMAGED.
- 7) DISCONNECT AND DISCARD TRANSDUCER CABLE.
- 8) ROUTE JUPITER CABLES FROM STEP 1 THROUGH NEW FLOOR PLATE AND GROMMET.
- 9) INSTALL FLOOR PLATE PER DRAWING.
- 10) REMOVE SWIVEL BASE FROM SEAT AND SET ASIDE.
- 11) CAREFULLY REMOVE AND SET ASIDE RUBBER BELLOWS FROM SUSPENSION.
- 12) REMOVE AND SET ASIDE BOTTOM SLIDE RAILS.
- 13) REMOVE AND DISCARD AIR SUSPENSION PORTION OF THE SEAT, TAKE CARE TO MAINTAIN HARDWARE.
- 14) INSTALL NEW MECHANICAL SUSPENSION.
- 15) REINSTALL BOTTOM SLIDE RAILS.
- 16) REINSTALL RUBBER BELLOWS.
- 17) REINSTALL SWIVEL BASE.
- 18) WELD IN FOOT REST RAMPS.
- 19) INSTALL NEW FOOT REST.
- 20) INSTALL NEW FOOT REST MAT.
- 21) DRY FIT FLOOR MAT, TRIM IF NECESSARY.
- 22) INSTALL FLOOR MAT.
- 23) ROUTE JUPITER CABLES (FOR SEAT ARM RESTS) THRU FLEXIBLE CONDUIT.
- 24) REINSTALL SEAT TO NEW FLOOR PLATE.
- 25) ATTACH FLEXIBLE CONDUIT TO OPERATOR'S SEAT AND FRONT-LEFT CORNER OF SEAT POST MOUNTING HARDWARE, USING SUPPORT CLAMPS.
- 26) RECONNECT JUPITER CABLES TO OPERATORS SEAT ARM RESTS.

**NOTE:**

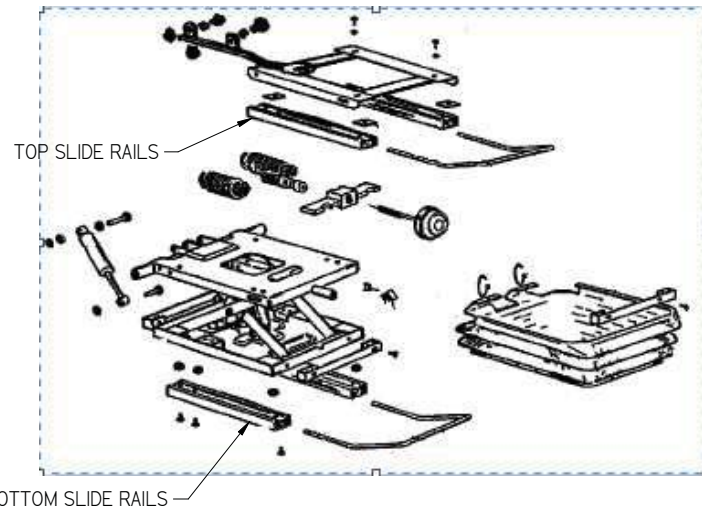
1. ALL PARTS TO BE BAGGED AND LABELED WITH HARSCO RAIL PART NUMBERS.
2. SHIPPING BOX TO BE LABELED WITH:
  - a. HARSCO RAIL KIT PART NUMBER, REVISION
  - b. P.O. NUMBER

**REFERENCE DRAWINGS**

INCLUDE A COPY OF EACH OF THE FOLLOWING DRAWINGS WITH EACH KIT

DRAWING #	DESCRIPTION
5075606	CONV, RIDE QUALITY U/F REMOVAL

ITEM	PART NO	QTY	DESCRIPTION
1	222965-1	2	MOUNT-FOOT REST
2	2000031	1	PLATE WELDMENT-FOOT REST
3	150988-9	4	WASHER- LOCK, .25 REGULAR
4	250010-5	4	SCREW-HHC, .25-20 X 1.00 LG
5	252272-221	4	SCREW-HHC, GRADE 8, .50-13 X 1.50 LG
6	150988-13	4	WASHER, LOCK, 1/2", HIGH COLLAR
7	150973-6	4	WASHER, FLAT, 1/2", HARDENED
8	2014197	1	SUSPENSION ASSEMBLY KIT
9	F014165	1	DC-PLG 12SAE HH
10	F011529	2	DC-CAP 6F
11	F011480	1	DC-CAP 8F
12	8124	1	HOLE SEAL, OIL TIGHT, .50 CONDUIT
13	5027895	1	DUST CAP - M12, EXT THD
14	2011829	1	DUST CAP - M12, INT THD
15	5075639	1	FLOOR MAT- HOLE COVER
16	5075624	2	MAX STRENGTH ADHESIVE, AEROSOL
17	5075667	1	FOOT REST MAT
18	5075601	1	COVER PLATE
19	5075632	1	COVER PLATE WELDMENT
20	5075634	1	COVER PLATE
21	5070029	1	CONDUIT, TRIFLEX 30
22	156026-18	2	SUPPORT CLAMP
23	250010-77	1	SCREW-HHC, .31-24 X .625 LG
24	150973-3	1	WASHER, FLAT, 5/16", HARDENED
25	F001100	1	WASHER, LOCK, 5/16", MEDIUM, ZP
26	157679-5	2	HOLE SEAL, OIL TIGHT
27	157426-1	12	MOUNT-CABLE TIE
28	6759	12	TY-RAP. 3.9 LG

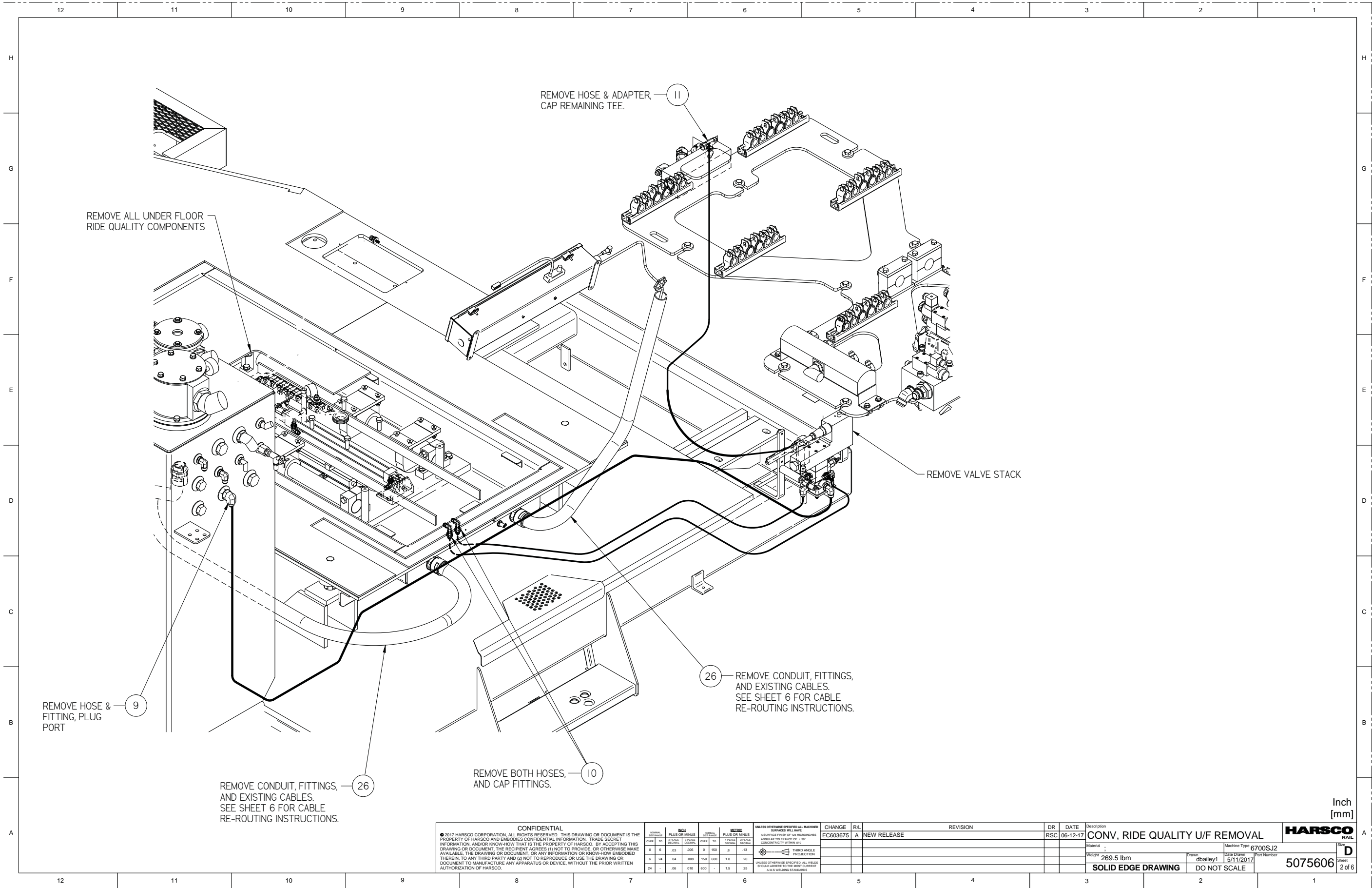


**OPERATOR'S SEAT SUSPENSION  
REFERENCE ONLY**

SIMILAR TO 5075604.

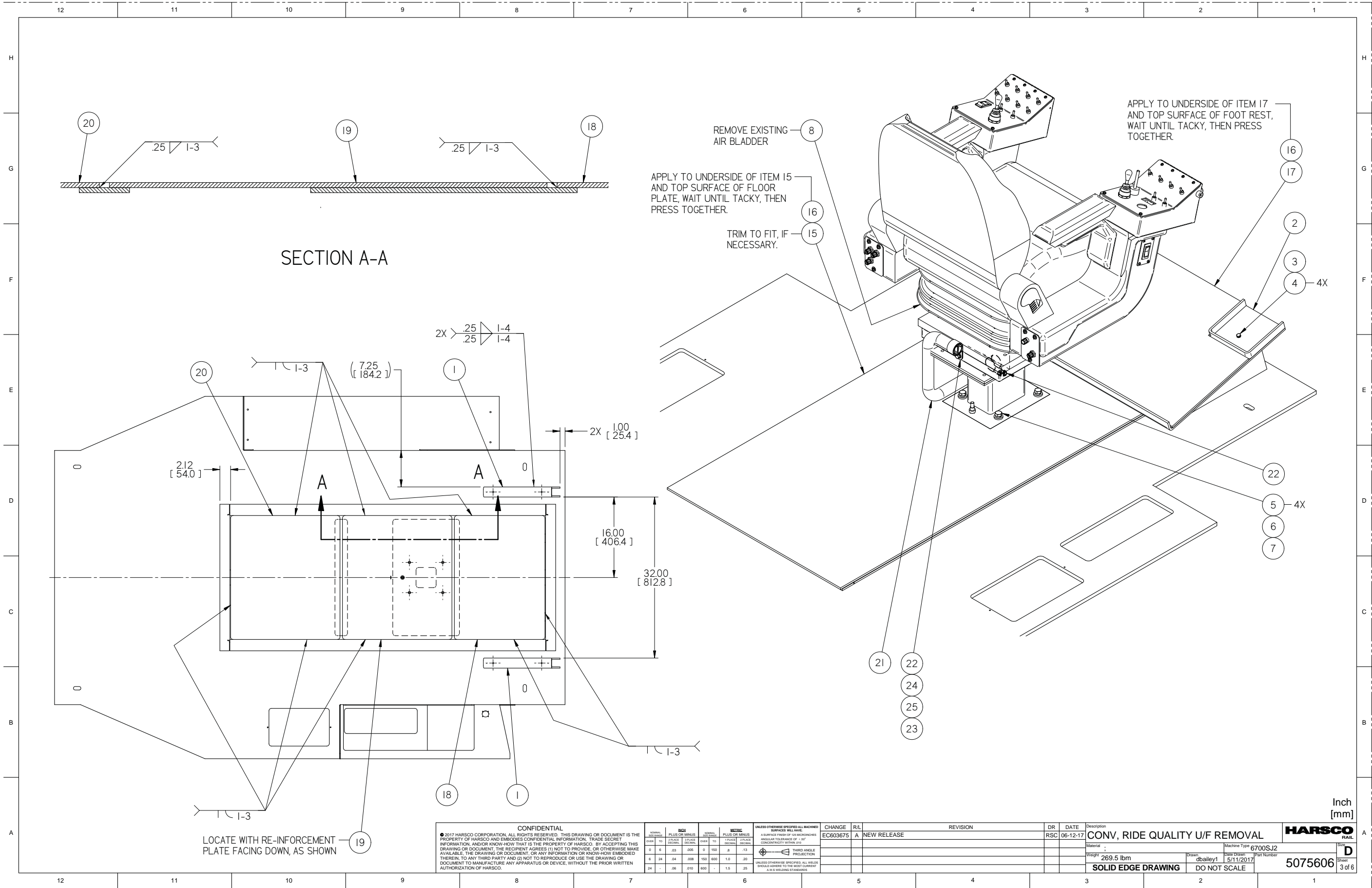
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LOCATE WITH RE-INFORCEMENT PLATE FACING DOWN, AS SHOWN

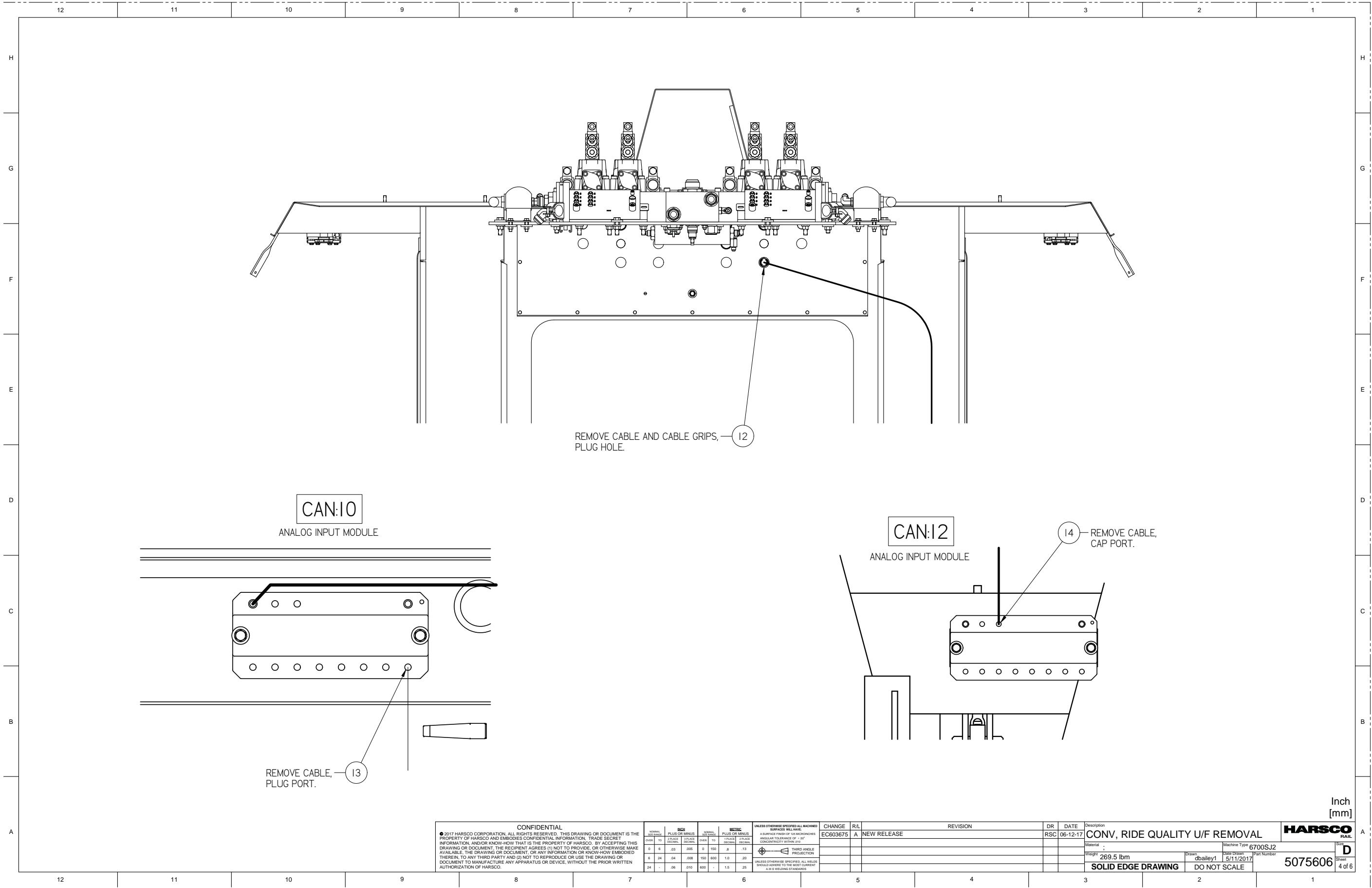
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REV	DATE	DESCRIPTION	MISC		MISC	
			OVER	TO	OVER	TO
0	6	.03	.005	0	150	.13
6	24	.04	.008	150	600	1.0
24	-	.06	.010	600	-	1.5

CHANGE	R/L	REVISION	DR	DATE	Description
EC603675	A	NEW RELEASE	RSC	06-12-17	CONV, RIDE QUALITY U/F REMOVAL

Material	Machine Type	Part Number	Scale
Weight: 269.5 lbm	6700SJ2	5075606	D
SOLID EDGE DRAWING	DO NOT SCALE	3 of 6	

Inch [mm]



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OVER	TO	SIZE		OVER	TO	MEAS.	
		PLUS OR MINUS	3 PLACE DECIMAL			PLUS OR MINUS	1 PLACE DECIMAL
0	.03	.005	0	150	.5	.13	
6	.24	.04	.008	150	600	1.0	.20
24	-	.06	.010	600	-	1.5	.25

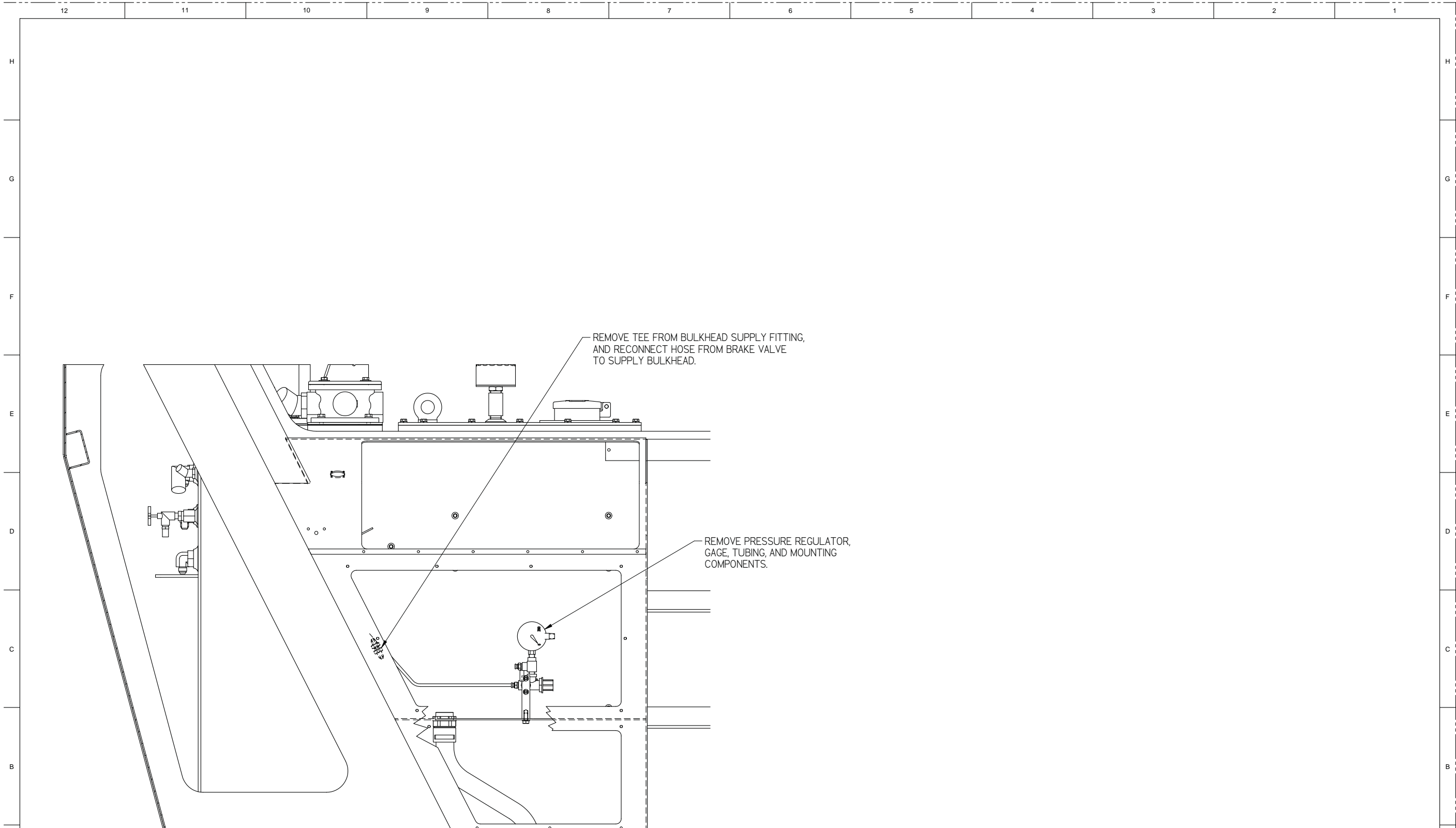
UNLESS OTHERWISE SPECIFIED ALL MACHINED SURFACES WILL HAVE:  
 A SURFACE FINISH OF 125 MICROINCHES ANGLULAR TOLERANCE OF  $\pm 30^\circ$  CONCENTRICITY SYSTEM JIS  
 THIRD ANGLE PROJECTION  
 UNLESS OTHERWISE SPECIFIED, ALL WELDES SHOULD ADHERE TO THE MOST CURRENT A.S.E. WELDING STANDARDS

CHANGE	R/L	REVISION	DR	DATE	Description
EC603675	A	NEW RELEASE	RSC	06-12-17	CONV, RIDE QUALITY U/F REMOVAL

Material	Machine Type	Part Number
Weight	6700SJ2	5075606
269.5 lbm	Drawn	5/11/2017
SOLID EDGE DRAWING	DO NOT SCALE	

**HARSCO RAIL**  
 5075606  
 Sheet 4 of 6

Inch [mm]



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REV	DATE	DESCRIPTION	DIMS		TOLERANCES	
			PLUS OR MINUS	PLACE DECIMALS	PLUS OR MINUS	PLACE DECIMALS
0	6		.03	.005	150	.13
6	24		.04	.008	150	1.0 .20
24			.06	.010	600	1.5 .25

UNLESS OTHERWISE SPECIFIED ALL MACHINED SURFACES WILL HAVE:  
 A SURFACE FINISH OF 125 MICROINCHES ANGLULAR TOLERANCE OF ± 30°  
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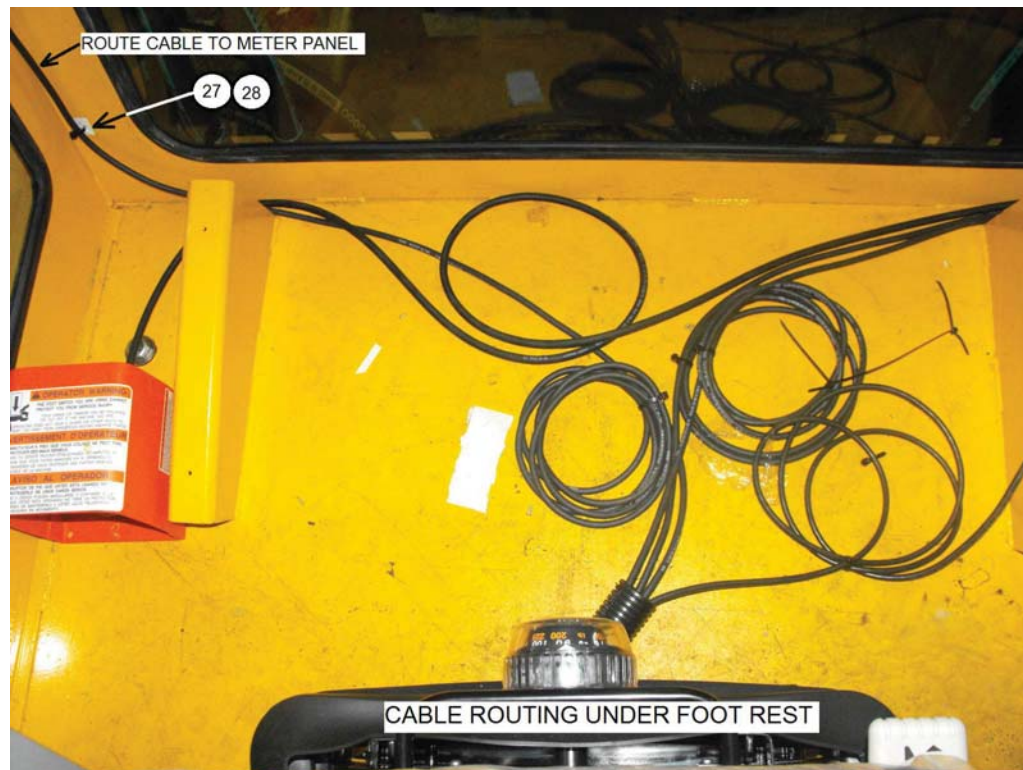
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EC603675	A	NEW RELEASE	RSC	06-12-17	

Material		Machine Type	6700SJ2
Weight	269.5 lbm	Drawn	dballey1
		Date Drawn	5/11/2017
		Part Number	5075606

**HARSCO RAIL**  
**5075606**  
 Sheet 5 of 6

Inch [mm]





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DIMENSION	SIZE		TOLERANCE		FINISH	
	OVER	TO	PLUS OR MINUS	OVER	TO	PLACE
0	6	.03	.005	0	150	.8
6	24	.04	.008	150	600	1.0
24	-	.06	.010	600	-	1.5

UNLESS OTHERWISE SPECIFIED ALL MACHINED SURFACES WILL HAVE A SURFACE FINISH OF 125 MICROINCHES ANGULAR TOLERANCE OF .50° CONCENTRICITY WITHIN .010

THIRD ANGLE PROJECTION

UNLESS OTHERWISE SPECIFIED, ALL WELDS SHOULD ADHERE TO THE MOST CURRENT A.S.M.E. WELDING STANDARDS

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Weight	6700SJ2	5075606
269.5 lbm	Drawn	6 of 6
SOLID EDGE DRAWING	dballey1	5/11/2017
DO NOT SCALE		

**HARSCO**  
**RAIL**

Inch [mm]

Sheet 6 of 6