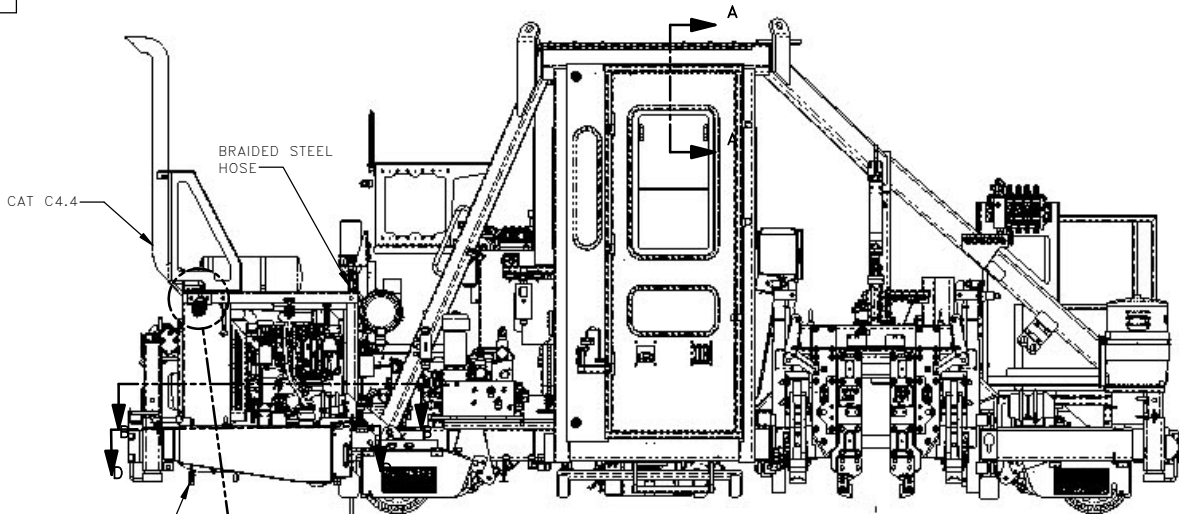
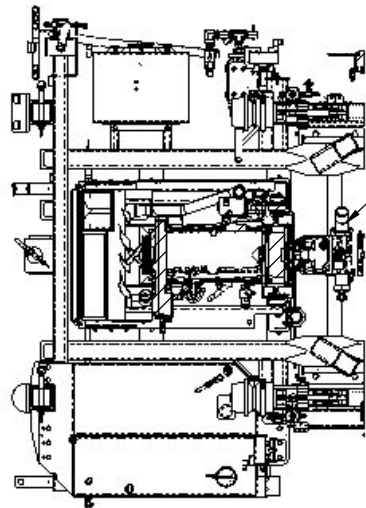
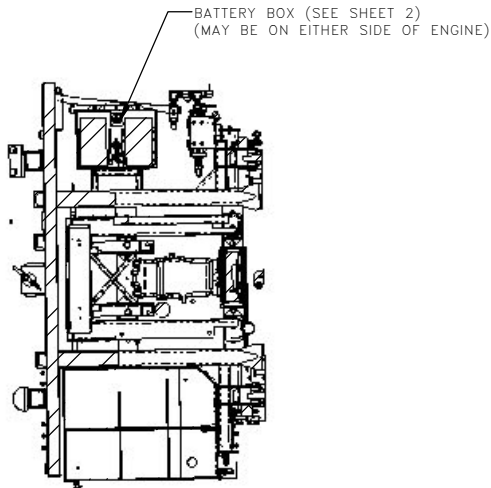


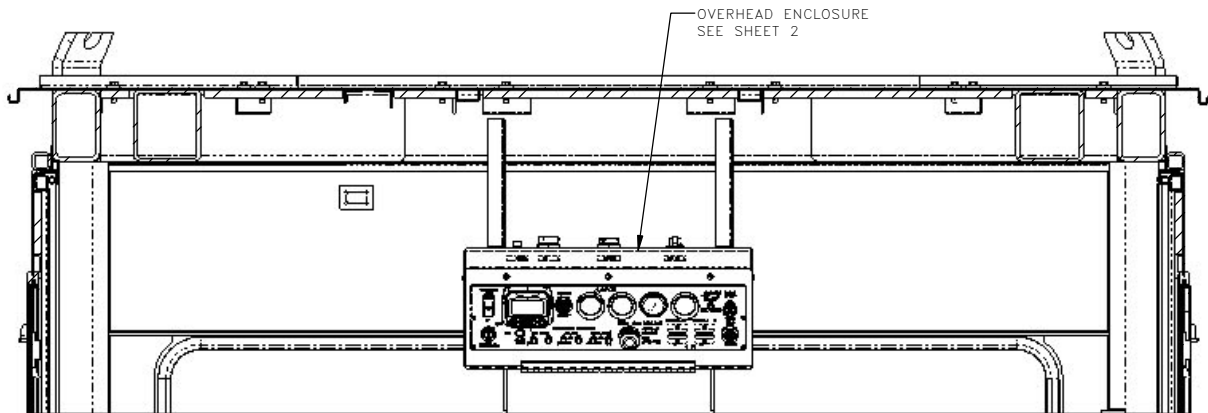
DETAIL C
PER SIDE
SCALE 1 : 8



SECTION B-B
SCALE 1 : 20



SECTION D-D
SCALE 1 : 24



SECTION A-A
SCALE 1 : 8

THESE INSTRUCTIONS ARE FOR KIT **793082.**

REMOVAL: (SHEET 1)

1. ENSURE MACHINE IS POWERED OFF BEFORE PERFORMING THE CONVERSION.
2. REMOVE BATTERY CONNECTIONS ON THE EXISTING ENGINE (SEE SHT 2).
3. DRAIN ALL NECESSARY FLUIDS FOR ENGINE REMOVAL (HYD. OIL, FUEL, ECT.).
4. DETACH HYDRAULIC PUMP. KEEP ALONG WITH FASTENERS & HOSES 9SECT. B-B SHT 1).
5. REMOVE HIGH TEMPERATURE STAINLESS STEEL BRAIDED HOSE (AIR PLUMBING SHT4).
6. UNPLUG ENGINE WIRE HARNESS (WIRING INTERCONNECT, SH2).
7. DETACH ENGINE MOUNTED TRAVEL LIGHTS. KEEP ALONG WITH FASTENERS & WIRING (DETAIL C, SHT1).
8. REMOVE ENGINE AND ALL COUNTERBALANCE PLATE(SECT. G-G, SHT 3).
9. INSIDE CAB OVERHEAD DISPLAY BOX. DETACH AND KEEP PLUGS FROM ENGINE DISPLAY (SEE SECTION A-A & SHEET 2).
- 10.CAREFULLY DISCONNECT THE THROTTLE SWITCH WIRES (SEE SHT 2).
- 11.REMOVE THE POWER VIEW DISPLAY AND THE THROTTLE SWITCH (SEE SHT 2).

REWORK: (SHEET 3-4)

1. ADD CLEARANCE SLOTS IN THE 3 OF THE 4 COUNTER BALANCE PLATES (SHT 3, SECT. G-G).
2. ADD CLEARANCE SLOTS IN THE 2 ENGINE-MOUNTED LIGHT BRACKETS(SHT 4, SECT. K-K).
3. ADD CLEARANCES HOLES TO ENGINE DOORS (SHT4, SECT N-N).

INSTALLATION: (SHEET 3-4)

1. REINSTALL THE 3X REWORK COUNTERBALANCE PLATES & MOUNT THE NEW TOP COUNTERBALANCE PLATE USING EXISTING FASTENERS (SHT 3, DETAIL L).
2. INSTALL ENGINE (CUMMIN'S QSF3.8 24VDC) WITH FASTENER SUPPLIED, (SHT 3, SECT, G-G & DETAIL L).
3. BEFORE REMOUNTING OF THE EXISTING PUMP TO THE ENGINE, APPLY PERMATEX 80078 ANTI-SEIZE LUBRICANT OR EQUIVALENT TO SPLINE (SHT-3: SECT. M-M).
4. ADD TO THE BATTERY BOX NEW CABLES AND THE POWER DOWN LAMP, BRACKET BUTTON & DECAL TO BATTERY BOX AND NEW CABLES(SHT-3, SECT. H-H & SEE DWG. 720313).
5. REATTACH THE FUEL SUPPLY LINE AND RETURN LINE TO ENGINE.
6. REATTACH EXISTING DRAIN HOSE ASSEMBLY TO ENGINE.
7. ATTACH STAINLESS STEEL BRAIDED HOSE TO THE AIR DRYER AND THEN TO THE ENGINE COMPRESSOR (AIR PLUMBING, SHT4).
8. INSTALL ENGINE DOOR HANDLES (SEE SHT-4, SECT N-N).
9. INSTALL NEW ENGINE DISPLAY MODULE & THROTTLE SWITCH INTO OVERHEAD BOX, (SEE DWG. 720312).
10. PLUG EXISTING WIRE HARNESS INTO ENGINE (SEE DWG 720313).
11. FILL TANKS AS NECESSARY & PRIME ANY AIR AND/OR FLUID LINES AS NEEDED.
12. POWER ON MACHINE.

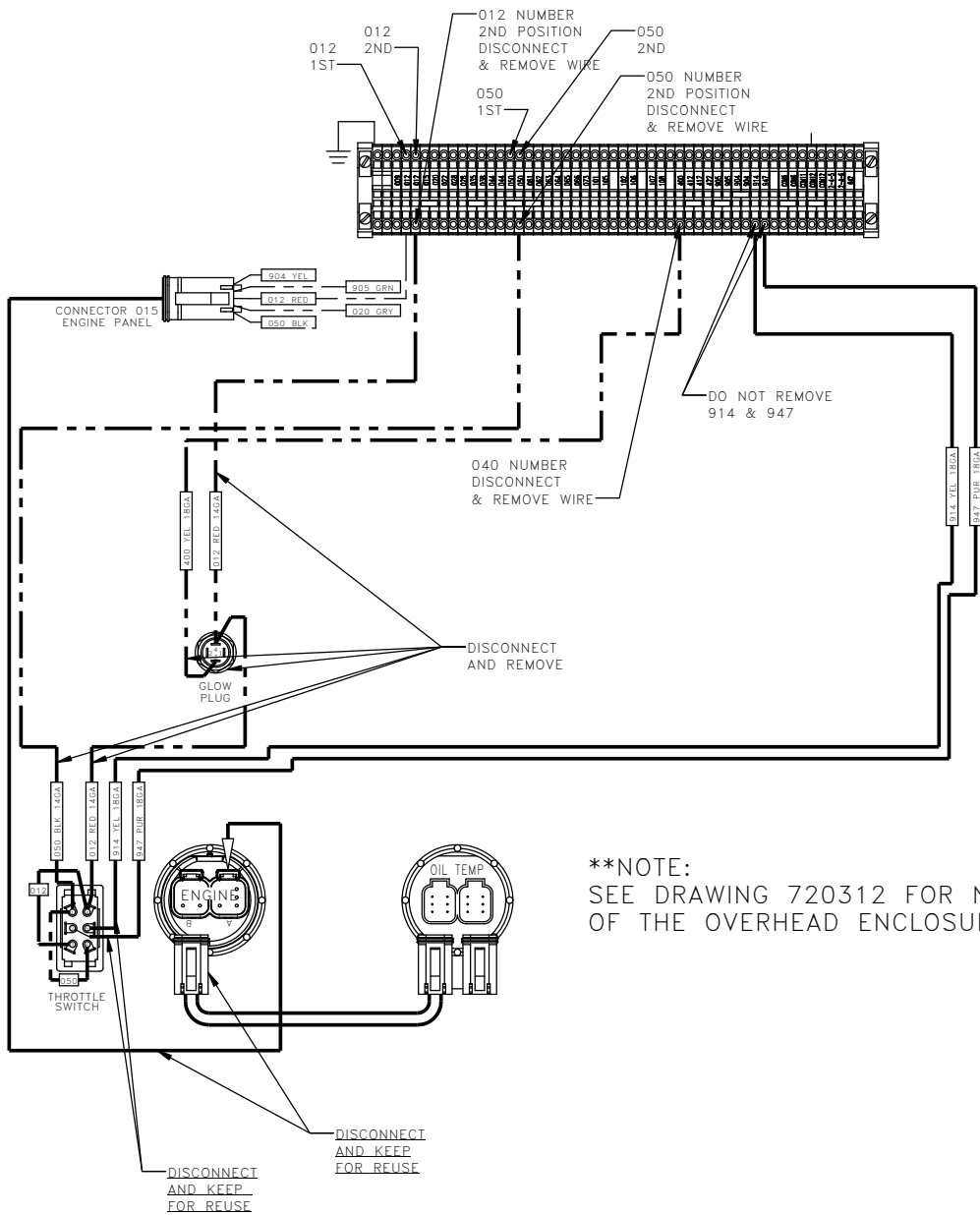
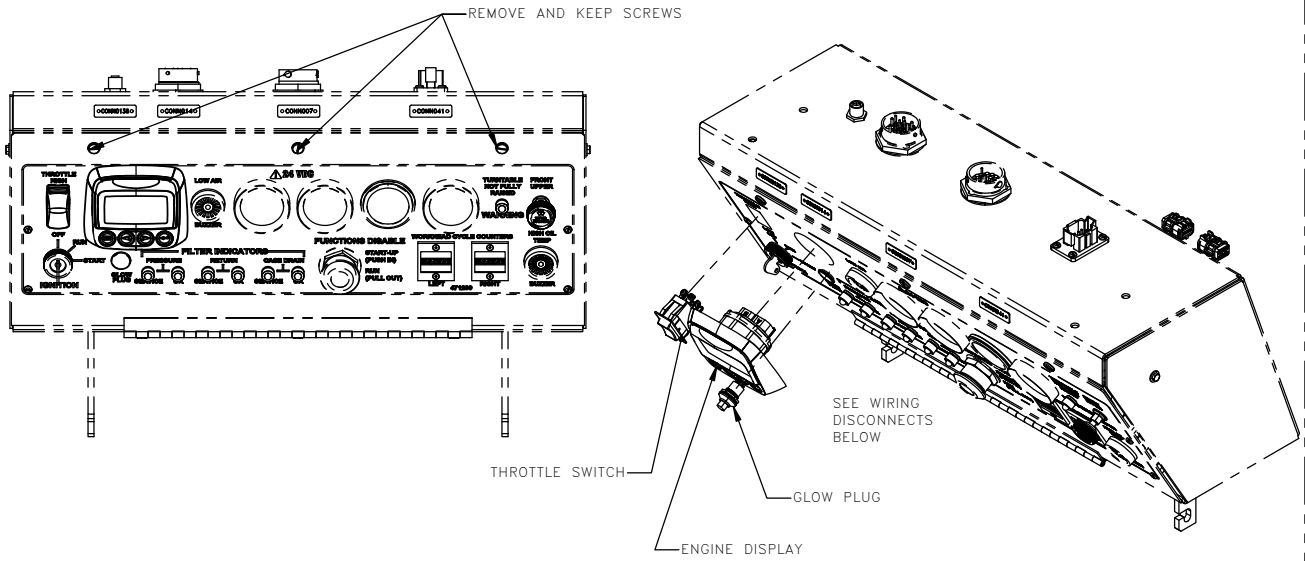
****NOTE 1:**

SHEET 1: REMOVAL
SHEET 2: REMOVAL
SHEET 3: REWORK & INSTALLATION VIEWS FOR NEW ENGINE (REF. BOM)
SHEET 4: REWORK & INSTALLATION VIEWS FOR NEW ENGINE & AIR PLUMBING

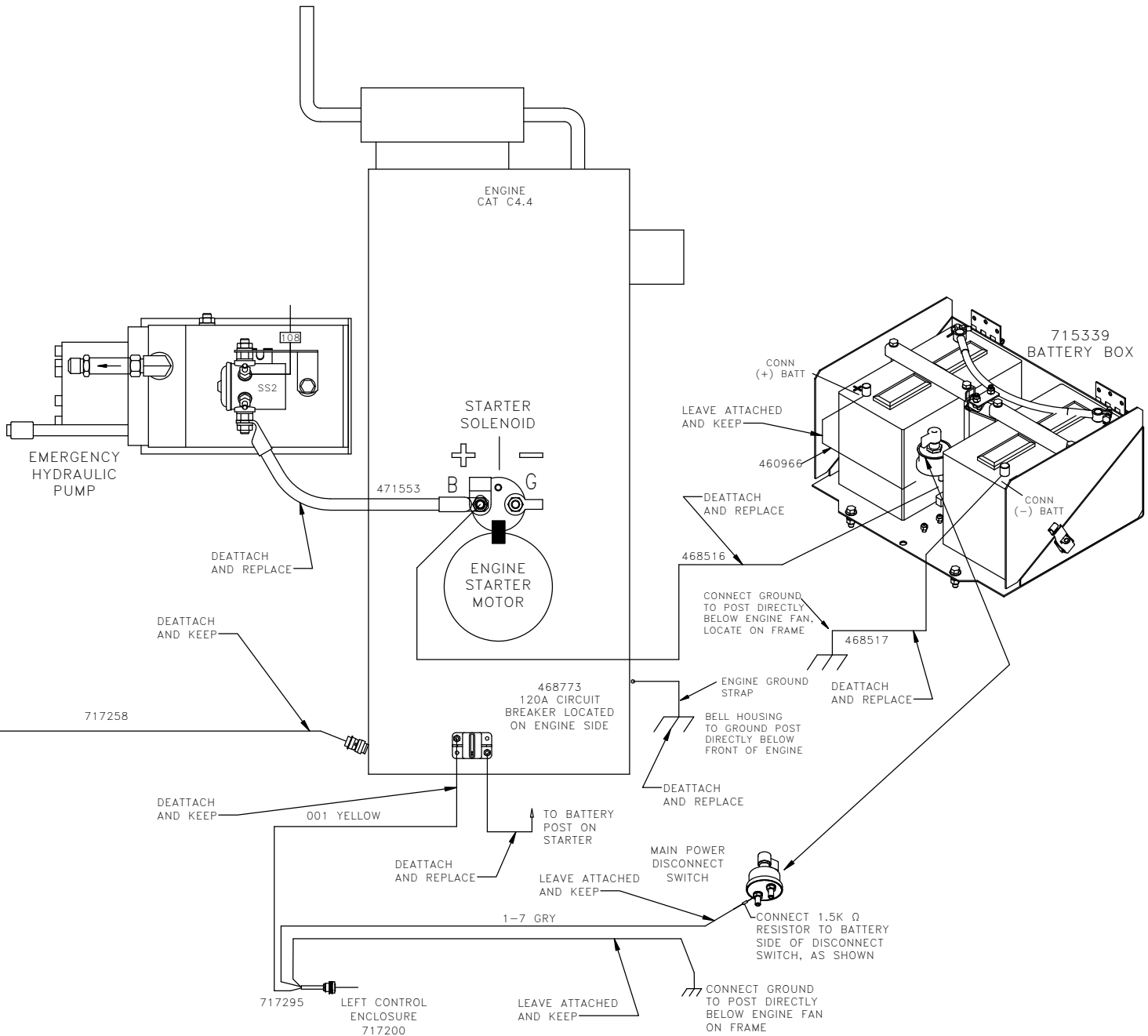
****NOTE 2:**

SEE 793082: KIT DRAWING BOM FOR 720310, 720312 & 720313 B SIZE DRAWING
TO BE PLACED INTO THE EXISTING MANUAL: MAINTENANCE SECTION.

REV	EN	DESCRIPTION	DATE	DRN
1	6258	NEW RELEASE	6-22	PR
DIMENSION TOLERANCES UNLESS OTHERWISE SPECIFIED				
LINEAR		.XX=±.03	.XXX=±.010	
ANGULAR		X°=±1°	X.X°=±.5°	
SURFACE FINISH NOT TO EXCEED			125/✓	SMOOTH ALL SHARP EDGES CLEAN ALL WELDS
THIS PRINT AND ALL INFORMATION WITHIN BELONGS TO RACINE RAILROAD PRODUCTS				
RACINE RAILROAD PRODUCTS RACINE, WISCONSIN USA				
DESCRIPTION INSTRUCTIONS, CUMMINS QSF3.8 REPOWER KIT				
MATERIAL SEE BOM				
USED ON 793082		SCALE 8:1	DATE 06-16-22	
DRN PR	CHK	APP	JOB NO RD140001	SHEET 1 OF 4
DWG SIZE D	CATALOG A	DWG NO	800396	

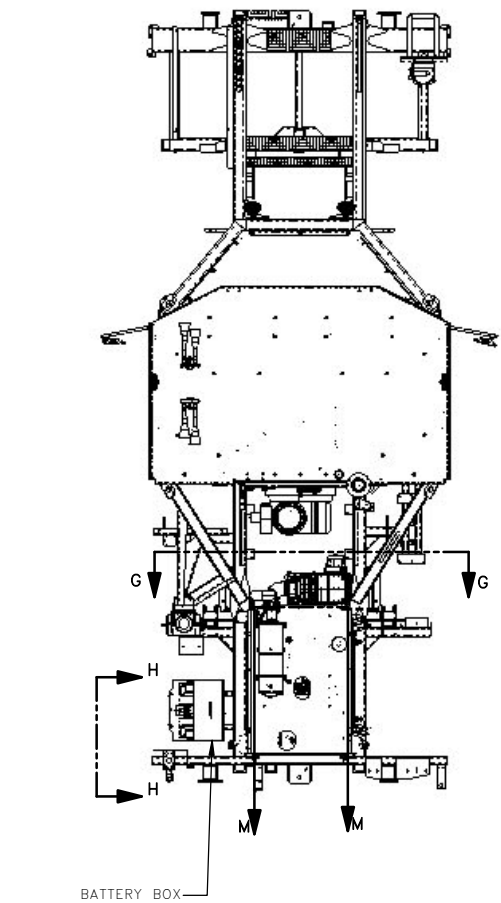


****NOTE:**
SEE DRAWING 720312 FOR NEW WIRING
OF THE OVERHEAD ENCLOSURE.

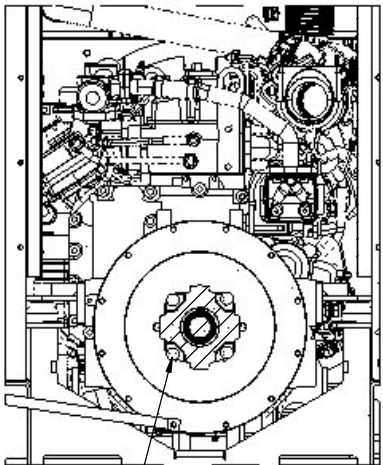


****NOTE:**
SEE DRAWING 720313 FOR NEW WIRING
INTERCONNECT.

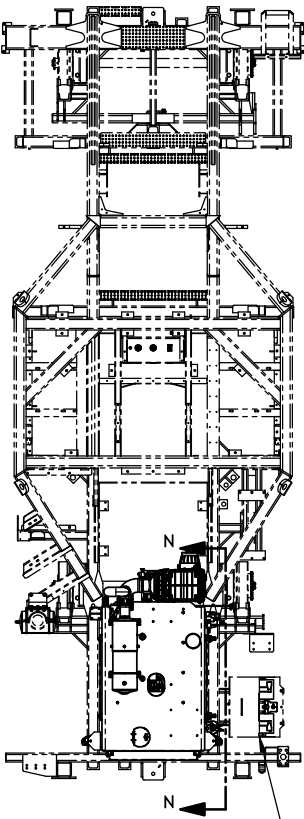
REV	EN	DESCRIPTION	DATE	DRN
1	6258	NEW RELEASE	6-22	PR
DIMENSION TOLERANCES UNLESS OTHERWISE SPECIFIED				
LINEAR		.XX=±.03	.XXX=±.010	
ANGULAR		X°=±1°	X.X°=±.5°	
SURFACE FINISH		125/	SMOOTH ALL SHARP EDGES	
NOT TO EXCEED			CLEAN ALL WELDS	
THIS PRINT AND ALL INFORMATION WITHIN BELONGS TO RACINE RAILROAD PRODUCTS				
RACINE RAILROAD PRODUCTS				
RACINE, WISCONSIN USA				
DESCRIPTION INSTRUCTIONS, CUMMINS QSF3.8 REPOWER KIT				
MATERIAL SEE BOM				
USED ON		793082	SCALE 1:4	DATE 06-16-22
DRN	CHK	APP	JOB NO	SHEET
PR			RD140001	2 OF 4
DWG SIZE	CATALOG	DWG NO		
D	A			800396



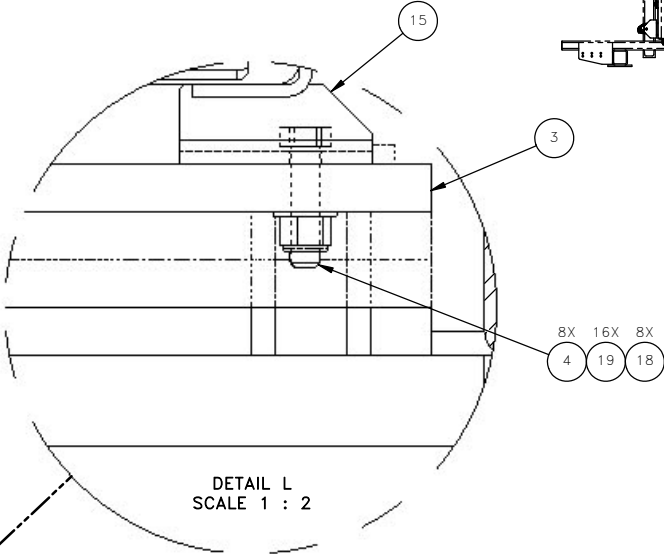
APPLY PERMATEX 80078 ANTI-SEIZE LUBRICANT OR EQUIVALENT TO SPLINE REMOUNT HYD. PUMP CIR 7.93 WITH EXISTING FASTENERS AND HOSE ATTACHMENTS



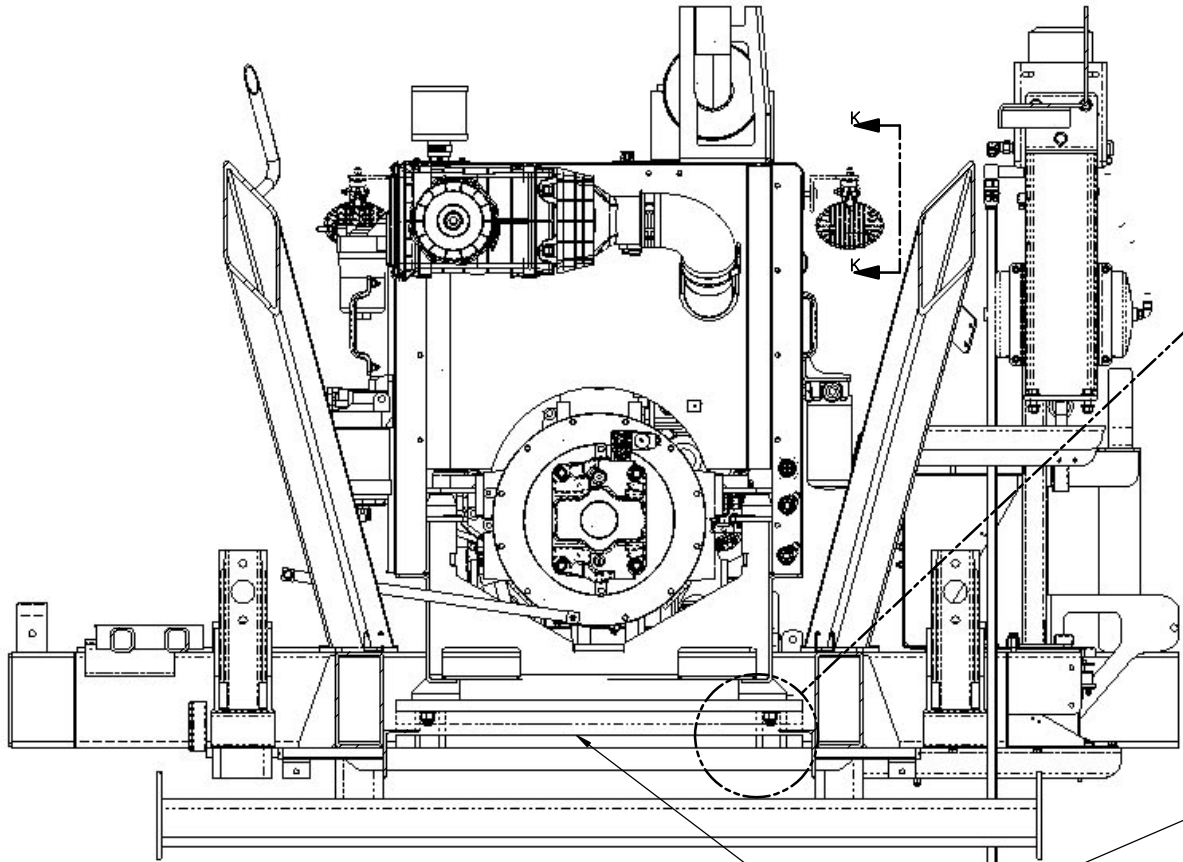
SECTION M-M
SCALE 1 : 8



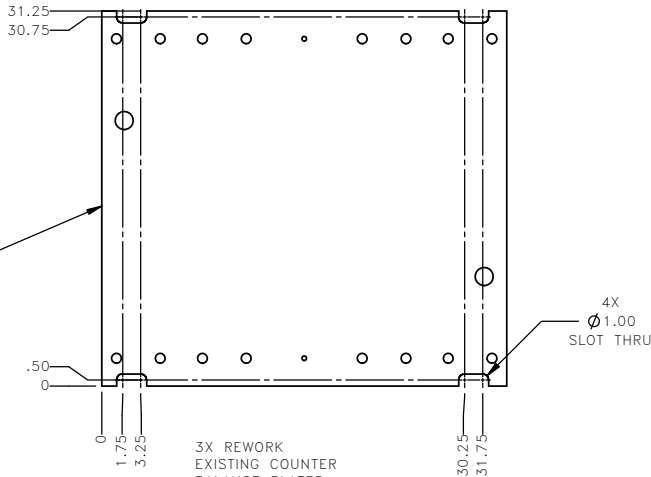
BATTERY BOX



DETAIL L
SCALE 1 : 2



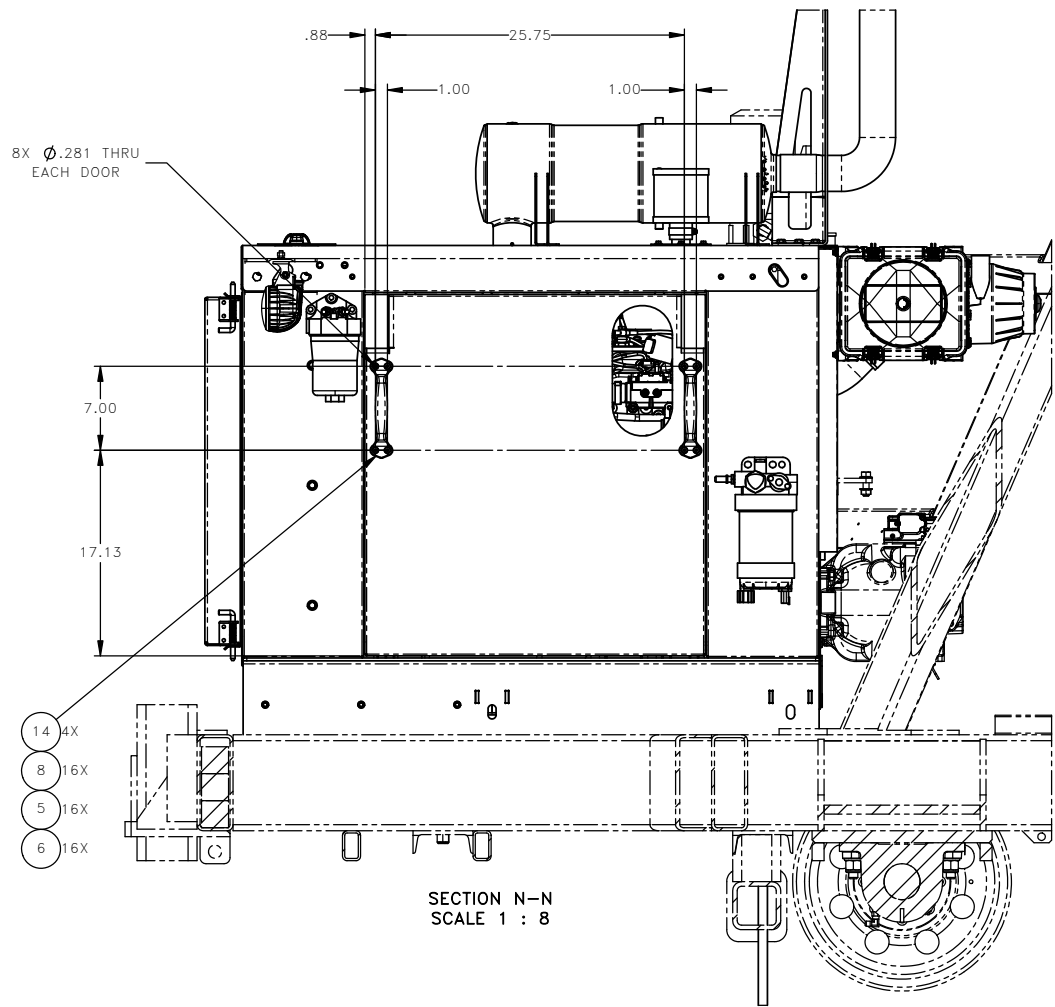
SECTION G-G
SCALE 1 : 8



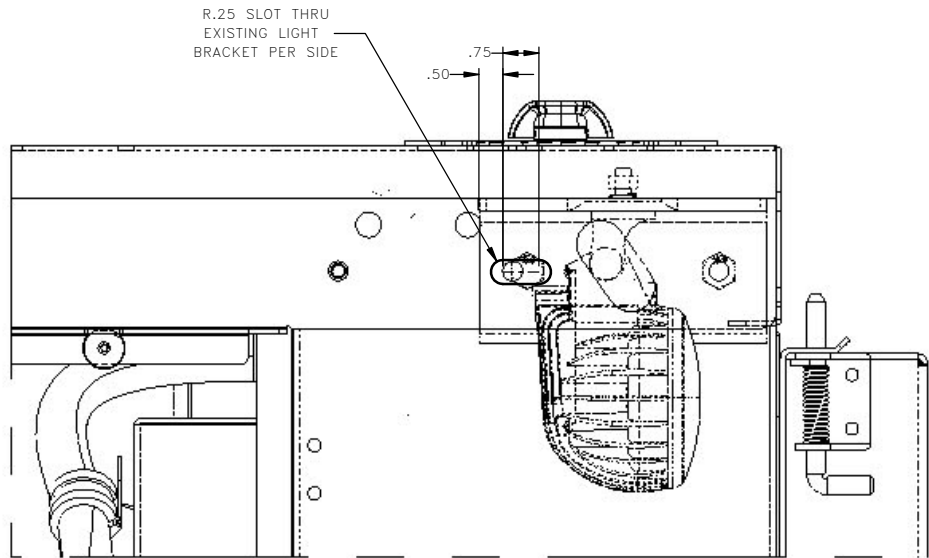
3X REWORK EXISTING COUNTER BALANCE PLATES DISREGARD THE 4TH FOR THE NEW TOP COUNTERBALANCE PLATE

NO.	QTY	DESCRIPTION	PART NO.
1	REF	LOCTITE, 271	008826
2	REF	PLATE	319434
3	REF	COUNTERWEIGHT, TOP	323397
4	REF	SCR, HEX: .62-11 X 2.5	400762
5	REF	SCR, SOC FLT: .25-20 X 1	400847
6	REF	WASHER, FLT: .25	401619
7	REF	NUT, HEX ES: .38-16 HVY	404401
8	REF	NUT, HEX ES: .25-20 HVY	404549
9	REF	ELBOW, 90°: #10 JIC(M) X #10 JIC(F)	459994
10	REF	HOSE END, #10 HOSE X #10 JIC(F) BRASS	460353
11	REF	ADAPTER, .38 NPT(M) X #10 JIC(M)	461592
12	REF	STRAP, GROUNDING: 24 LG	465429
13	REF	HOSE ASSY, #12 X 72 HIGH TEMP	472028
14	REF	HANDLE, GRAB	473046
15	REF	ENGINE, CUMMINS QSF3.8	473291
16	REF	DECAL, WARNING: POWER DOWN LAMP	473911
17	REF	LIGHT, YELLOW	473912
18	REF	NUT, HEX ES: .62-11 LT	491356
19	REF	WASHER, FLT: .62	491415
20	REF	SCR, HEX FLG: .38-16 X 1.25	491672
21	REF	WASHER, FLT: .38	492022
22	REF	SCHEMATIC, ELECTRICAL REPOWER	720310
23	REF	ENCLOSURE, OVERHEAD ELECTRICAL: 793082	720312
24	REF	WIRING, INTERCONNECT REPOWER	720313

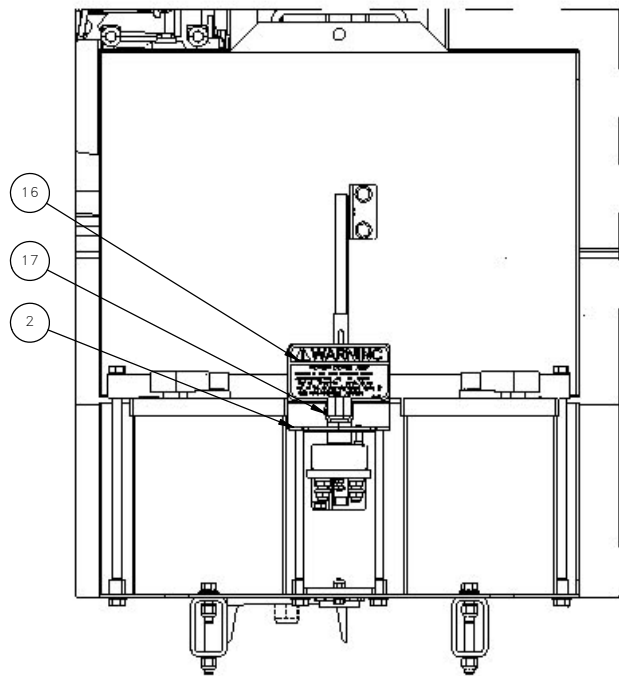
REV	EN	DESCRIPTION	DATE	DRN
1	6258	NEW RELEASE	6-22	PR
DIMENSION TOLERANCES UNLESS OTHERWISE SPECIFIED				
LINEAR		.XX=±.03	.XXX=±.010	
ANGULAR		X°=±1°	X.X°=±.5°	
SURFACE FINISH		125/	SMOOTH ALL SHARP EDGES	
NOT TO EXCEED			CLEAN ALL WELDS	
THIS PRINT AND ALL INFORMATION WITHIN BELONGS TO RACINE RAILROAD PRODUCTS				
RACINE RAILROAD PRODUCTS				
RACINE, WISCONSIN USA				
DESCRIPTION INSTRUCTIONS, CUMMINS QSF3.8 REPOWER KIT				
MATERIAL SEE BOM				
USED ON		793082	SCALE 1:32	DATE 06-16-22
DRN	CHK	APP	JOB NO	SHEET
PR			RD140001	3 OF 4
DWG SIZE	CATALOG	DWG NO	800396	
D	A			



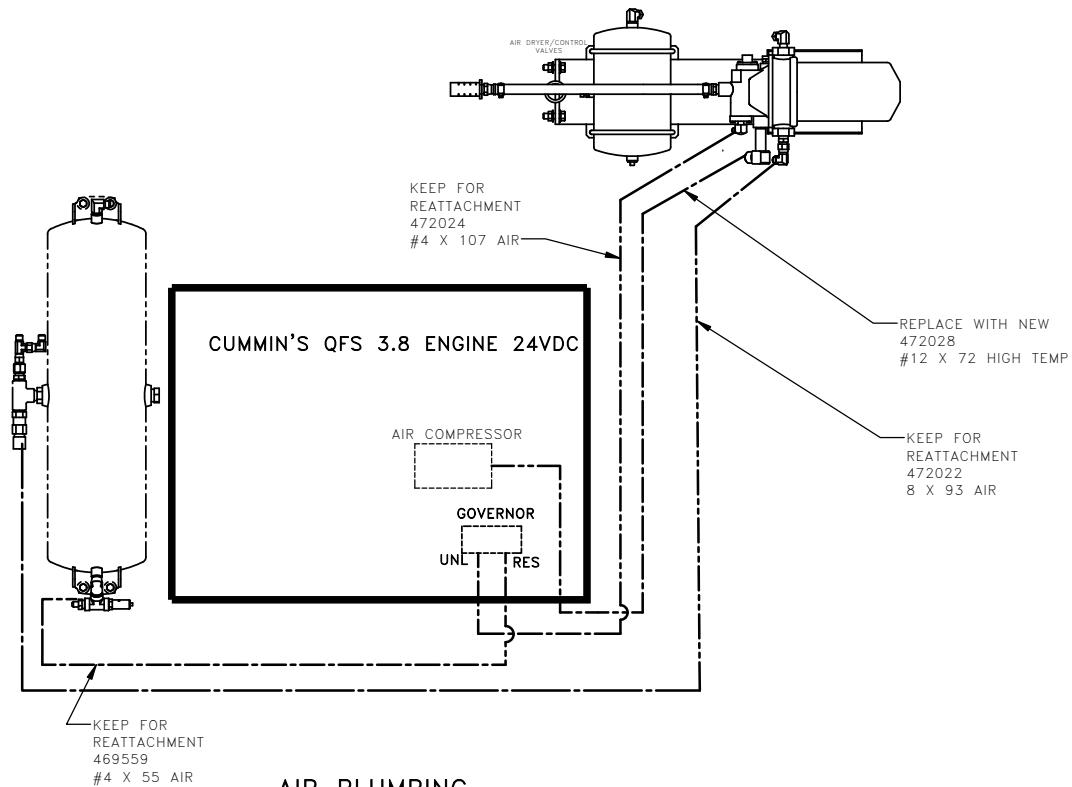
SECTION N-N
SCALE 1 : 8



SECTION K-K
SCALE 1 : 2



SECTION H-H
SCALE 1 : 4



AIR PLUMBING

REV	EN	DESCRIPTION	DATE	DRN
1	6258	NEW RELEASE	6-22	PR
DIMENSION TOLERANCES UNLESS OTHERWISE SPECIFIED				
LINEAR		.XX=±.03	.XXX=±.010	
ANGULAR		X°=±1°	X.X°=±.5°	
SURFACE FINISH NOT TO EXCEED			125/✓	SMOOTH ALL SHARP EDGES CLEAN ALL WELDS
THIS PRINT AND ALL INFORMATION WITHIN BELONGS TO RACINE RAILROAD PRODUCTS				
RACINE RAILROAD PRODUCTS RACINE, WISCONSIN USA				
DESCRIPTION INSTRUCTIONS, CUMMINS QSF3.8 REPOWER KIT				
MATERIAL SEE BOM				
USED ON		SCALE	DATE	
793082		1:32	06-16-22	
DRN	CHK	APP	JOB NO	SHEET
PR			RD140001	4 OF 4
DWG SIZE	CATALOG	DWG NO		
D	A		800396	