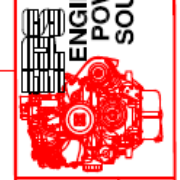
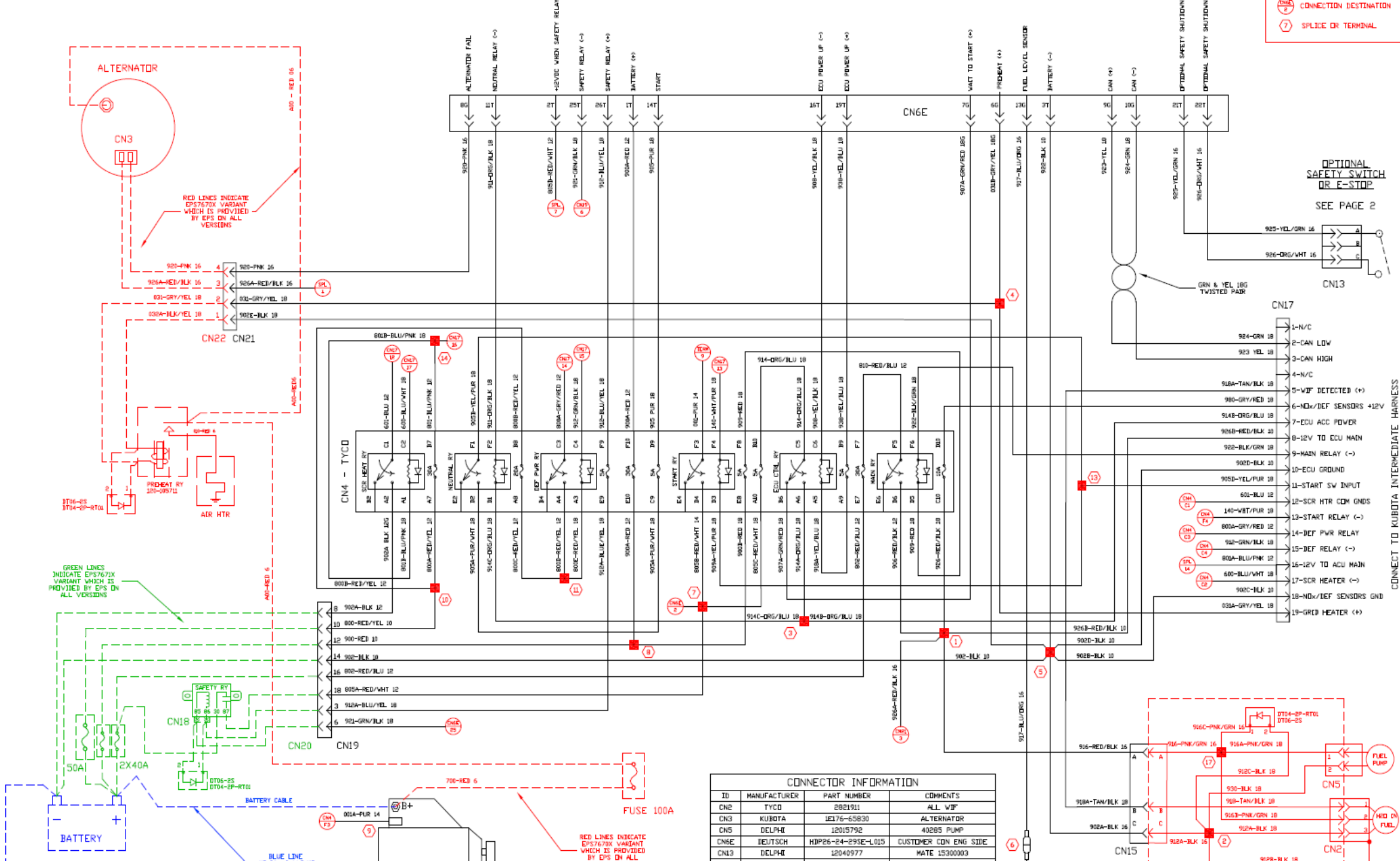




# 8520C Key Electrical Locations

February 2024



**POWER SOURCE**  
7669XS

348 Bryant Blvd, Rock Hill, SC, 29732  
Phone: 704-944-1999 Fax: 704-9441873

V3814F SCR IH Module Relay Assembly & Harness, (Busman TYCO Block)

REVISION B DESCRIPTION V3814F SCR IH Module Relay Assembly & Harness, (Busman TYCO Block)

SHEET NUMBER 1 OF 3

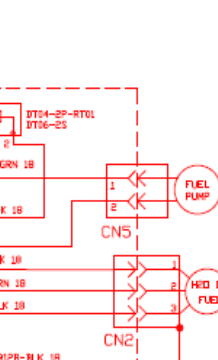
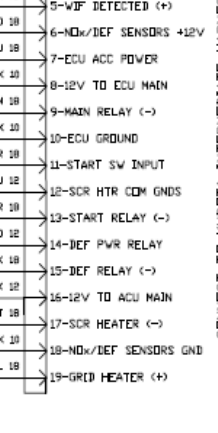
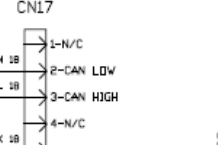
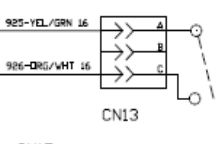
DATE 12-01-2015

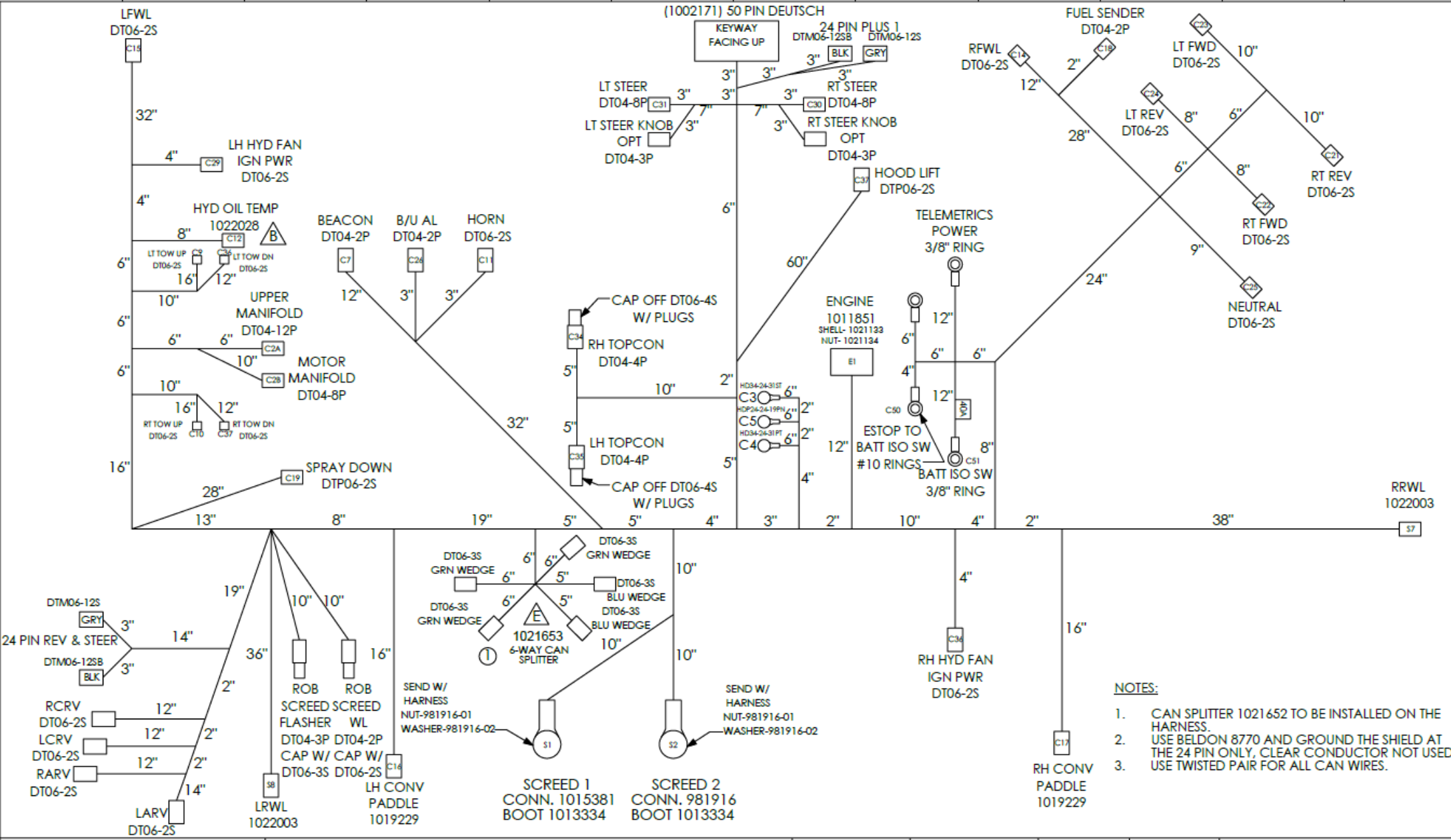
CD BY MCD

CONNECT TO KUBOTA INTERMEDIATE HARNESS

CONNECTION DESTINATION  
7 SPLICE OR TERMINAL

OPTIONAL SAFETY SWITCH OR E-STOP  
SEE PAGE 2





- NOTES:**
- CAN SPLITTER 1021652 TO BE INSTALLED ON THE HARNESS.
  - USE BELDON 8770 AND GROUND THE SHIELD AT THE 24 PIN ONLY, CLEAR CONDUCTOR NOT USED.
  - USE TWISTED PAIR FOR ALL CAN WIRES.

GENERAL FABRICATION TOLERANCE - INCH										SURFACE: 250				GENERAL MACHINING TOLERANCE				SURFACE: 125			
>	0.000	3.000	12.000	24.000	48.000	96.000	120.000	240.000	360.000	0.000	1.000	3.000	6.000	12.000	24.000	36.000	48.000	96.000	120.000		
≤	3.000	12.000	24.000	48.000	96.000	120.000	240.000	~	~	1.000	3.000	6.000	12.000	24.000	36.000	~	~	~	~		
±	0.015	0.031	0.063	0.094	0.125	0.188	0.250	0.500	0.005	0.010	0.015	0.031	0.063	0.094	0.125	0.188	0.250	0.500	0.005		
ANGLE	±0.5°		±1.0°		±2.0°		±3.0°		±0.1°		±0.3°		±0.5°								

**LEEBOY**  
FAYAT GROUP

500 LINCOLN COUNTY PARKWAY EXT  
LINCOLNTON, NC 28092

APPROVALS: JS 05/02/2023  
CHECKED BY: SDD 03/04/2026

INFORMATION CONTAINED ON THIS DRAWING IS THE SOLE PROPERTY OF LEEBOY. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF LEEBOY IS PROHIBITED.

THIRD ANGLE PROJECTION

**1027661**  
HARNESS, MAIN, 8520C DM-430

PAVER / MULTIPLE

SHT 2 OF 4 | PART WEIGHT: LBS

REV H



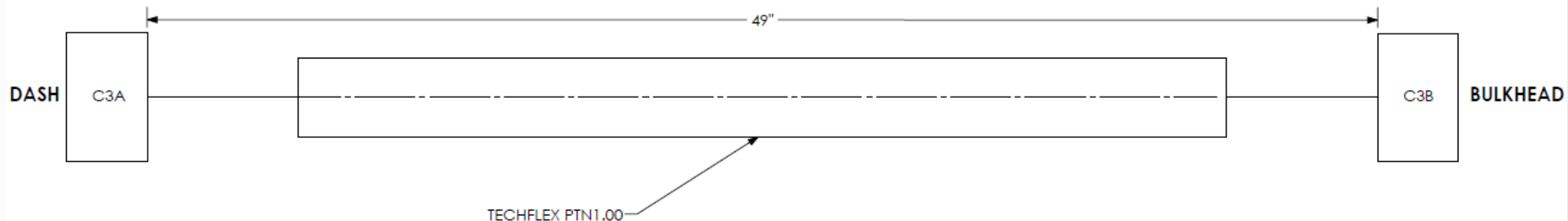
C3A & C3B

△ B

PIN	COLOR	FUNCTION
1	BLU	TRUCK HITCH IN
2	BLU/WHT	TRUCK HITCH OUT
3	WHT	SPARE
4	BLK/YEL	VIBRATOR
5	RED	12V TO PLUS 1
6	RED	24 PIN POWER
7	BLU	GENERATOR ON INPUT
8	BLK	LH AUG GND
9	BLK	RH AUG GND
10	WHT	HORN
11	YEL/RED	VIBRATOR COIL
12	WHT/BLK	HYDRAULIC TEMP
13	RED 14G	LH SCREED POWER
14	RED 14G	RH SCREED POWER
15	BLK/YEL	SCREED LIFT
16	GRN YEL	SCREED FLOAT
17	RED	SPARE
18	BRN	LH CUTOFF OPEN
19	BRN/YEL	LH CUTOFF CLOSE
20	ORN	RH CUTOFF OPEN
21	ORN/YEL	RH CUTOFF CLOSE
22	BLU/RED	HOPPER SELECT
23	BLU	HOPPER IN/OUT
24	RED	LH AUGER POWER
25	GRY	SPARE
26	RED	RH AUGER POWER
27	PRP/WHT	LH TOW UP OUTPUT
28	PRP	LH TOW DN OUTPUT
29	YEL/RED	RH TOW UP OUTPUT
30	YEL	RH TOW DN OUTPUT
31	RED	TELEMETRICS POWER

CONNECTOR- 1022249  
BOOT - 1030139

CONNECTOR - 1022249  
BOOT - 1022250



GENERAL FABRICATION TOLERANCE - INCH				SURFACE: 250				GENERAL MACHINING TOLERANCE				SURFACE: 125			
>	0.000	3.000	12.000	24.000	48.000	96.000	120.000	240.000	0.000	1.000	3.000	6.000	12.000	36.000	
≤	3.000	12.000	24.000	48.000	96.000	120.000	240.000	~	1.000	3.000	6.000	12.000	36.000	~	
±	0.015	0.031	0.063	0.094	0.125	0.188	0.250	0.500	0.005	0.010	0.015	0.031	0.063	0.094	
ANGLE	±0.5°		±1.0°		±2.0°		±3.0°		±0.1°		±0.3°		±0.5°		

DIMENSIONS ARE IN INCHES  
UNLESS OTHERWISE SPECIFIED  
DIMENSIONS APPLY TO FINISHED PART. ROUGH CUTS MUST INCLUDE APPROPRIATE STOCK ALLOWANCE FOR MACHINED PARTS.  
(REFERENCE DIMENSIONS)  
REFER TO TABLES FOR CENTRAL TOLERANCES

**LeeBoy**  
ST ENGINEERING LEEBOY,  
dba LEEBOY  
500 LINCOLN COUNTY  
PARKWAY EXT  
LINCOLNTON, NC 28092

APPROVALS	DATE
DRAWN BY: DC	07/26/2024
CHECKED BY: MH	12/31/2024

<b>1030108</b>
HARNESS, C3 DASH TO BULKHEAD
PAVER / MULTIPLE
SHT 2 OF 2
PART WEIGHT: LBS

SHEET SCALE: 1:2

THIRD ANGLE PROJECTION SHT SIZE: B

**LeeBoy**

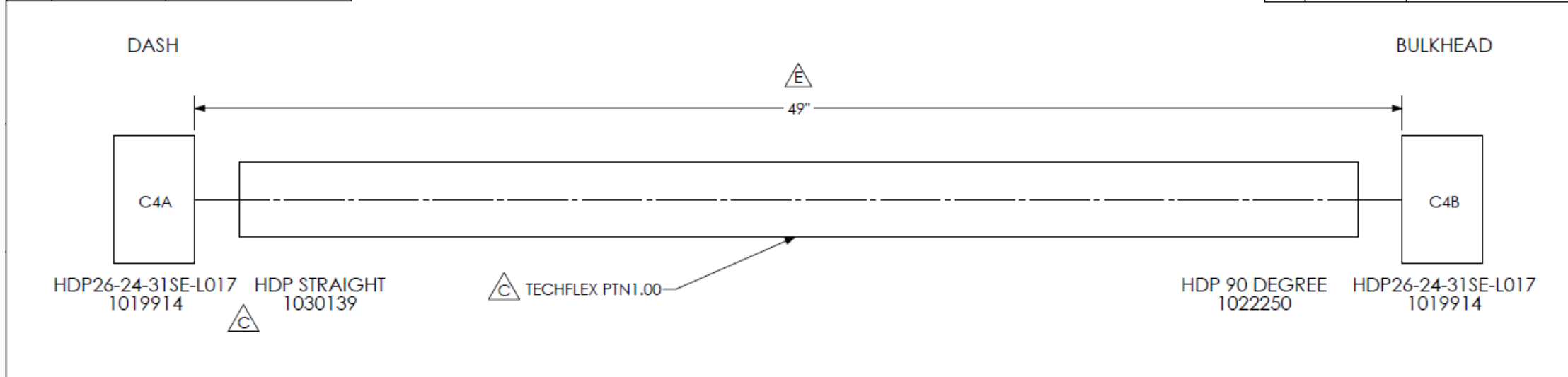
REV B

PIN	COLOR	FUNCTION
1	RED 14G	12V TO SCREED HEAT
2	RED	CONV CONTROL POWER
3	GRN 14	SPRAY DN
4	ORN 14G	SCREED ESTOP PWR
5	BLU/RED	LH CONV AUTO
6	BLU	LH CONV OVERRIDE
7	GRN/WHT	RH CONV AUTO
8	GRN	RH CONV OVERRIDE
9	ORG 14G	SCREED ESTOP IN
10	GRY	SPARE
11	ORG	CONV REVERSE
12	ORG/WHT	AUG REV
13	PRP/WHT	LH TOW UP
14	PURP	LH TOW DN
15	YEL/RED	RH TOW UP
16	YEL	RH TOW DN
17	RED	TOW POINT POWER
18	BLU/YEL	LH EXT OUT
19	BLU/WHT	LH EXT IN
20	LT BLU	RH EXT OUT
21	RED/BLK	RH EXT IN
22	N/A	N/A
23	WHT	WORK LIGHTS
24	BRN	BEACON/WORKLIGHTS
25	N/A	N/A
26	PRP	SPARE
27	PRP/WHT	SPARE
28	N/A	N/A
29	GRY/BLK	2 SPEED
30	BLU	CONV LIFT UP
31	BLU/WHT	CONV LIFT DN

△ D  
△ B  
△ B

PIN	COLOR	FUNCTION
1	RED 14G	12V TO SCREED HEAT
2	RED	CONV CONTROL POWER
3	GRN 14	SPRAY DN
4	ORG 14G	SCREED ESTOP PWR
5	BLU/RED	LH CONV AUTO
6	BLU	LH CONV OVERRIDE
7	GRN/WHT	RH CONV AUTO
8	GRN	RH CONV OVERRIDE
9	ORG 14G	SCREED ESTOP IN
10	GRY	SPARE
11	ORG	CONV REVERSE
12	ORG/WHT	AUG REV
13	PRP/WHT	LH TOW UP
14	PRP	LH TOW DN
15	YEL/RED	RH TOW UP
16	YEL	RH TOW DN
17	RED	TOW POINT POWER
18	BLU/YEL	LH EXT OUT
19	BLU/WHT	LH EXT IN
20	LT BLU	RH EXT OUT
21	RED/BLK	RH EXT IN
22	N/A	N/A
23	WHT	WORK LIGHTS
24	BRN	BEACON/WORKLIGHTS
25	N/A	N/A
26	PRP	SPARE
27	PRP/WHT	SPARE
28	N/A	N/A
29	GRY/BLK	2 SPEED
30	BLU	CONV LIFT UP
31	BLU/WHT	CONV LIFT DN

△ D  
△ B  
△ B



GENERAL FABRICATION TOLERANCE - INCH														SURFACE: 250		GENERAL MACHINING TOLERANCE						SURFACE: 125	
>	0.000	3.000	12.000	24.000	48.000	96.000	120.000	240.000	0.000	1.000	3.000	6.000	12.000	36.000	~	~							
≤	3.000	12.000	24.000	48.000	96.000	120.000	240.000	~	1.000	3.000	6.000	12.000	36.000	~	~								
±	0.015	0.031	0.063	0.094	0.125	0.188	0.250	0.500	0.005	0.010	0.015	0.031	0.063	0.094									
ANGLE	±0.5°			±1.0°			±2.0°																

**LeeBoy**

ST ENGINEERING LEEBOY,  
d/b/a LEEBOY  
500 LINCOLN COUNTY  
DARWIN, KY

APPROVALS

DATE

DRAWN BY: DC 03/11/2022

CHECKED BY: SDD 05/20/2025

1026022

HARNESS, C4 DASH TO BULKHEAD

PAVER / 8520C

REV E

DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED.

DIMENSIONS APPLY TO FINISHED PART. ROUGH CUTS MUST INCLUDE APPROPRIATE STOCK ALLOWANCE FOR MACHINED PARTS.

(REFERENCE DIMENSIONS)

REFER TO TABLES FOR GENERAL TOLERANCES

INFORMATION CONTAINED ON THIS DRAWING IS THE SOLE PROPERTY OF LEEBOY. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF LEEBOY IS PROHIBITED.

SHT SIZE: B SHT 2 OF 2 PART WEIGHT: LBS

C5A & C5B

PIN	COLOR	FUNCTION
1	YEL/BLK	SPARE
2	BRN/YEL	SPARE
3	BLU/RED	480-20 TO CN6E-13 FUEL
4	BLU/YEL	LOCKOUT TO CN6E-26
5	YEL	CAN (+)
6	GRN	CAN (-)
7	SHIELD	CAN SHIELD
8	RED 10G	12V FROM E2-1
9	YEL	SPARE
10	BLK 10G	GND FROM E2-3
11	GRN/WHT	SPARE
12	BLK 12G	HOOD LIFT GND
13	ORN/BLK	ENGINE ENABLE
14	N/A	N/A
15	RED	SPARE
16	RED 12G	HOOD UP
17	BLK	SPARE
18	BLK 12G	HOOD DN
19	BLK	SPARE

△B

△B

△B

△C

CONNECTOR- 1022248  
BOOT - 1030139

CONNECTOR - 1022248  
BOOT - 1022250

DASH

C5A

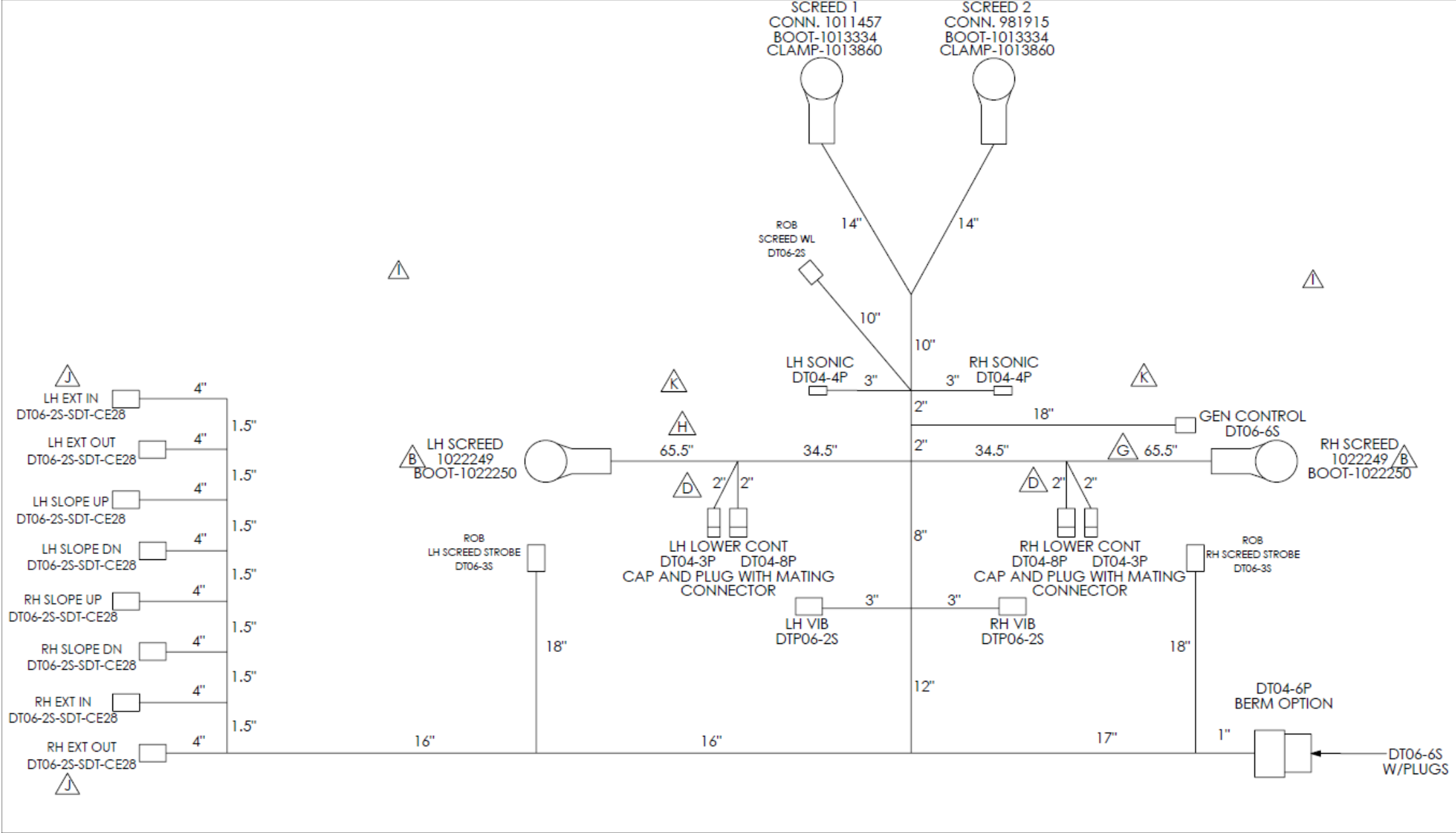
49"

C5B

BULKHEAD

TECHFLEX PTN1.00

<p>GENERAL FABRICATION TOLERANCE - INCH</p> <table border="1"> <tr> <td>&gt;</td> <td>0.000</td> <td>3.000</td> <td>12.000</td> <td>24.000</td> <td>48.000</td> <td>96.000</td> <td>120.000</td> <td>240.000</td> <td>360.000</td> </tr> <tr> <td>≤</td> <td>3.000</td> <td>12.000</td> <td>24.000</td> <td>48.000</td> <td>96.000</td> <td>120.000</td> <td>240.000</td> <td>~</td> <td>360.000</td> </tr> <tr> <td>±</td> <td>0.015</td> <td>0.031</td> <td>0.063</td> <td>0.094</td> <td>0.125</td> <td>0.188</td> <td>0.250</td> <td>0.500</td> <td>0.005</td> </tr> </table>										>	0.000	3.000	12.000	24.000	48.000	96.000	120.000	240.000	360.000	≤	3.000	12.000	24.000	48.000	96.000	120.000	240.000	~	360.000	±	0.015	0.031	0.063	0.094	0.125	0.188	0.250	0.500	0.005	<p>SURFACE: 250</p> <p>GENERAL MACHINING TOLERANCE</p> <table border="1"> <tr> <td>0.000</td> <td>1.000</td> <td>3.000</td> <td>6.000</td> <td>12.000</td> <td>36.000</td> </tr> <tr> <td>~</td> <td>1.000</td> <td>3.000</td> <td>6.000</td> <td>12.000</td> <td>36.000</td> </tr> <tr> <td>0.005</td> <td>0.010</td> <td>0.015</td> <td>0.031</td> <td>0.063</td> <td>0.094</td> </tr> </table>					0.000	1.000	3.000	6.000	12.000	36.000	~	1.000	3.000	6.000	12.000	36.000	0.005	0.010	0.015	0.031	0.063	0.094	<p>SURFACE: 125</p> <p>TECHFLEX PTN1.00</p>				
>	0.000	3.000	12.000	24.000	48.000	96.000	120.000	240.000	360.000																																																										
≤	3.000	12.000	24.000	48.000	96.000	120.000	240.000	~	360.000																																																										
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0.000	1.000	3.000	6.000	12.000	36.000																																																														
~	1.000	3.000	6.000	12.000	36.000																																																														
0.005	0.010	0.015	0.031	0.063	0.094																																																														
<p>APPROVALS</p> <table border="1"> <tr> <td>DRAWN BY</td> <td>CJL</td> <td>DATE</td> <td>07/26/2024</td> </tr> <tr> <td>CHECKED BY</td> <td>SDD</td> <td>DATE</td> <td>03/20/2025</td> </tr> </table>										DRAWN BY	CJL	DATE	07/26/2024	CHECKED BY	SDD	DATE	03/20/2025	<p>1030109</p> <p>HARNES, C5 DASH TO BULKHEAD</p>					<p>PAVER / MULTIPLE</p>																																												
DRAWN BY	CJL	DATE	07/26/2024																																																																
CHECKED BY	SDD	DATE	03/20/2025																																																																
<p>ST ENGINEERING LEEBOY, d/b/a LEEBOY 500 LINCOLN COUNTY PARKWAY, SUITE 100 DAKOTA, SD 57013</p>										<p>INFORMATION CONTAINED ON THIS DRAWING IS THE SOLE PROPERTY OF LEEBOY. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF LEEBOY IS PROHIBITED.</p>					<p>REV C</p>																																																				
<p>ANGLE ±0.5° ±1.0° ±2.0°</p>										<p>SHIT SIZE: 8</p>					<p>SHIT 2 OF 2 PART WEIGHT: LBS</p>																																																				



GENERAL FABRICATION TOLERANCE - INCH										SURFACE: 250				GENERAL MACHINING TOLERANCE				SURFACE: 125			
>	0.000	3.000	12.000	24.000	48.000	96.000	120.000	240.000	0.000	1.000	3.000	6.000	12.000	36.000	0.000	1.000	3.000	6.000	12.000	36.000	
±	3.000	12.000	24.000	48.000	96.000	120.000	240.000	~	1.000	3.000	6.000	12.000	36.000	~	1.000	3.000	6.000	12.000	36.000	~	
±	0.015	0.031	0.063	0.094	0.125	0.188	0.250	0.500	0.005	0.010	0.015	0.031	0.063	0.094	0.005	0.010	0.015	0.031	0.063	0.094	
ANGLE	±0.5°		±1.0°		±2.0°		±3.0°		±0.1°		±0.3°		±0.5°		±0.1°		±0.3°		±0.5°		

DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED

DIMENSIONS APPLY TO FINISHED PART. ROUGH CUTS MUST INCLUDE APPROPRIATE STOCK ALLOWANCE FOR MACHINED PARTS.

(REFERENCE DIMENSIONS)

REFER TO TABLES FOR GENERAL TOLERANCES

SHEET SCALE: 1:1

**LeeBoy**

LEEBOY  
500 LINCOLN COUNTY  
PARKWAY EXT  
LINCOLNTON, NC 28092

APPROVALS	DATE
DRAWN BY: DC	01/06/2022
CHECKED BY: TWJ	11/14/2025

INFORMATION CONTAINED ON THIS DRAWING IS THE SOLE PROPERTY OF LEEBOY. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF LEEBOY IS PROHIBITED.

THIRD ANGLE PROJECTION

**1025751**

HARNESS, SCREED, 8520C

PAVER / MULTIPLE

SHT 2 OF 3

PART WEIGHT: LBS

REV: **K**



Intermediate Harness

CN-17(Back Left Grey Ring)

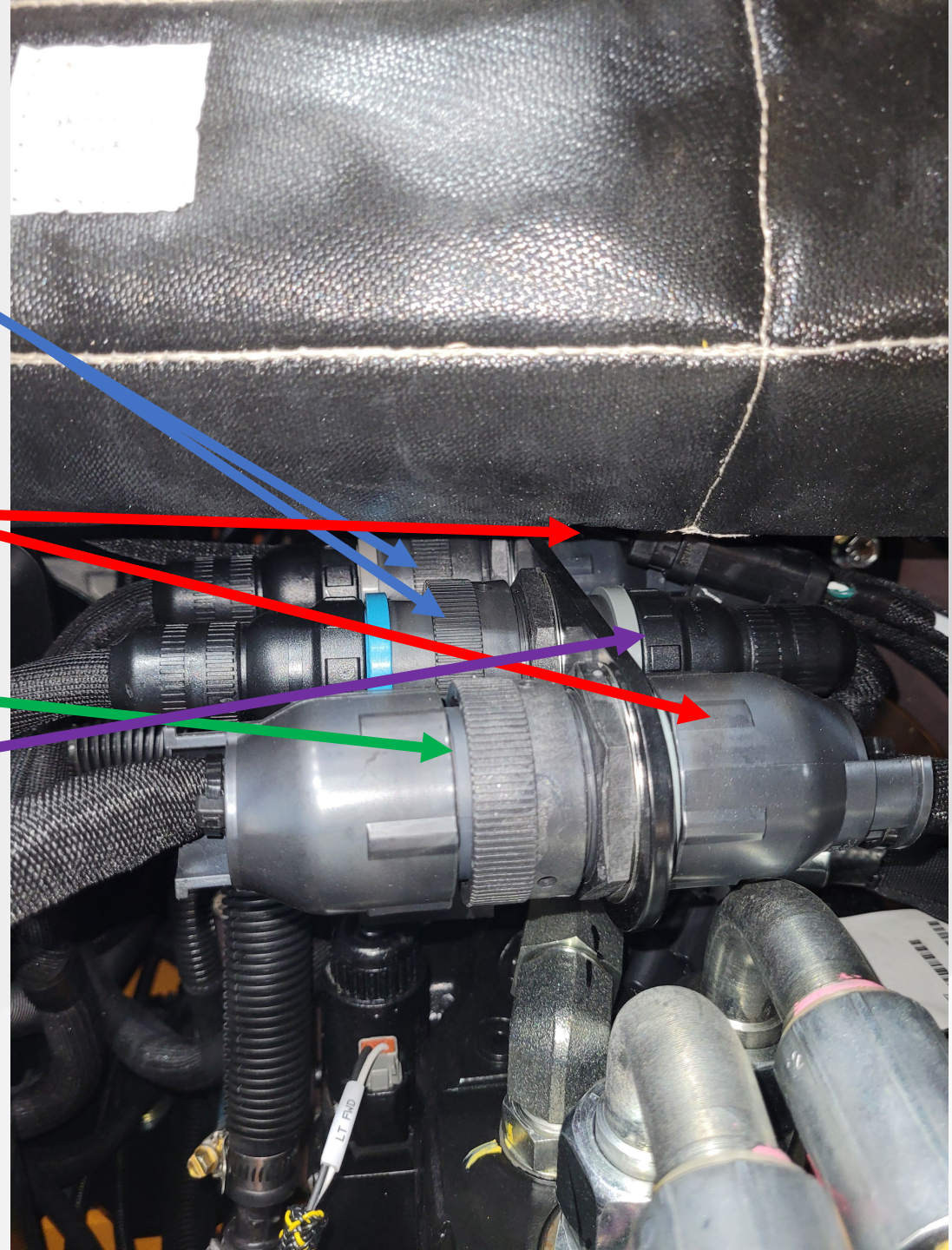
CN-19(Middle Left Blue Ring)

Vehicle Interface Harness

SCR Harness

ECU Homerun to Battery-  
CN20

(Shown from RH access door above pump)



ECM Location from RH access door on front fire wall.





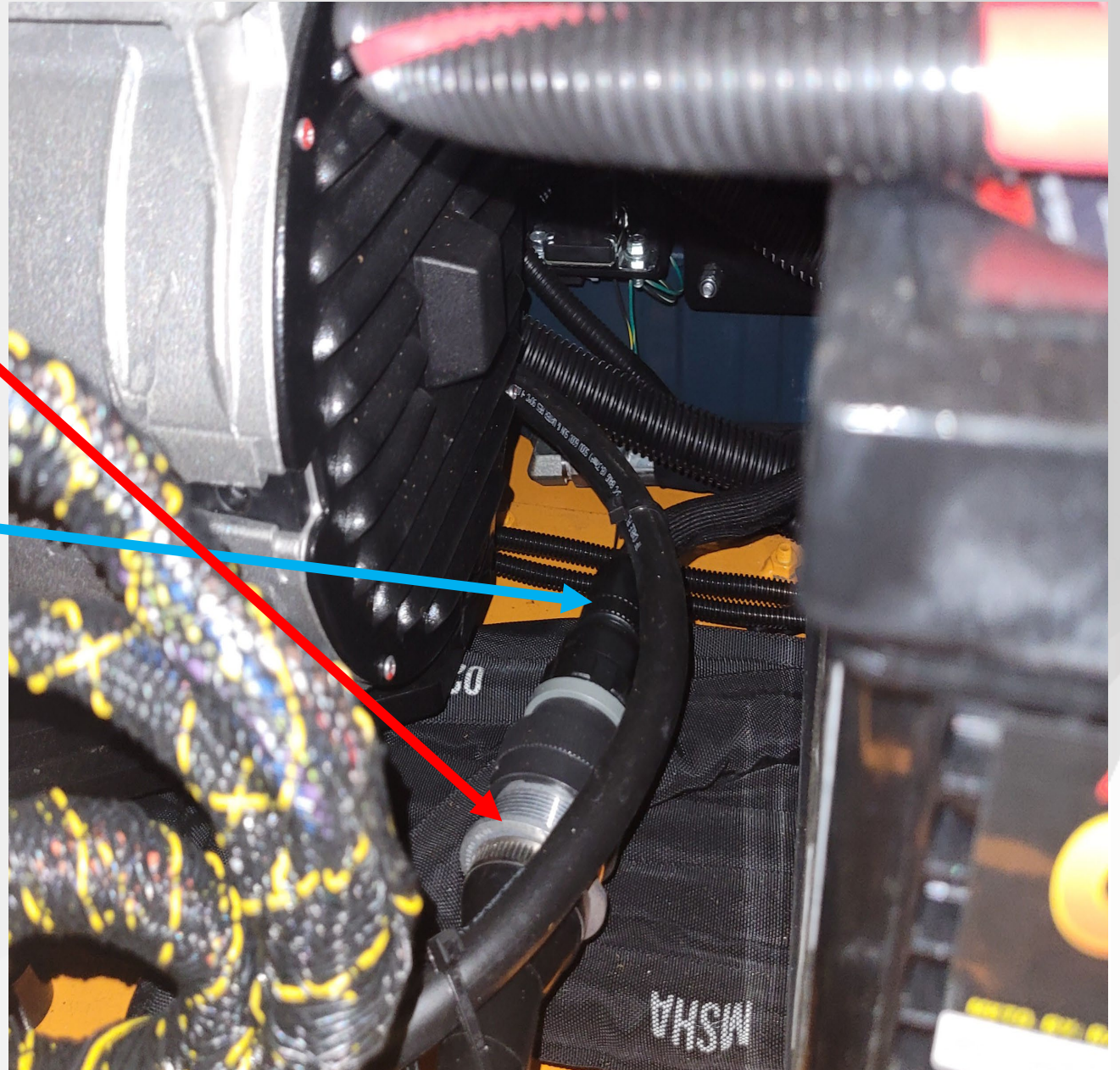
Kubota Fuse block location from RH rear access door is to the right of the battery. Relay for hydraulic fan is bolted to base of block.



E1 connector (Leeboy side)

CN6E (Kubota side)

Located from RH rear access door between battery and generator.

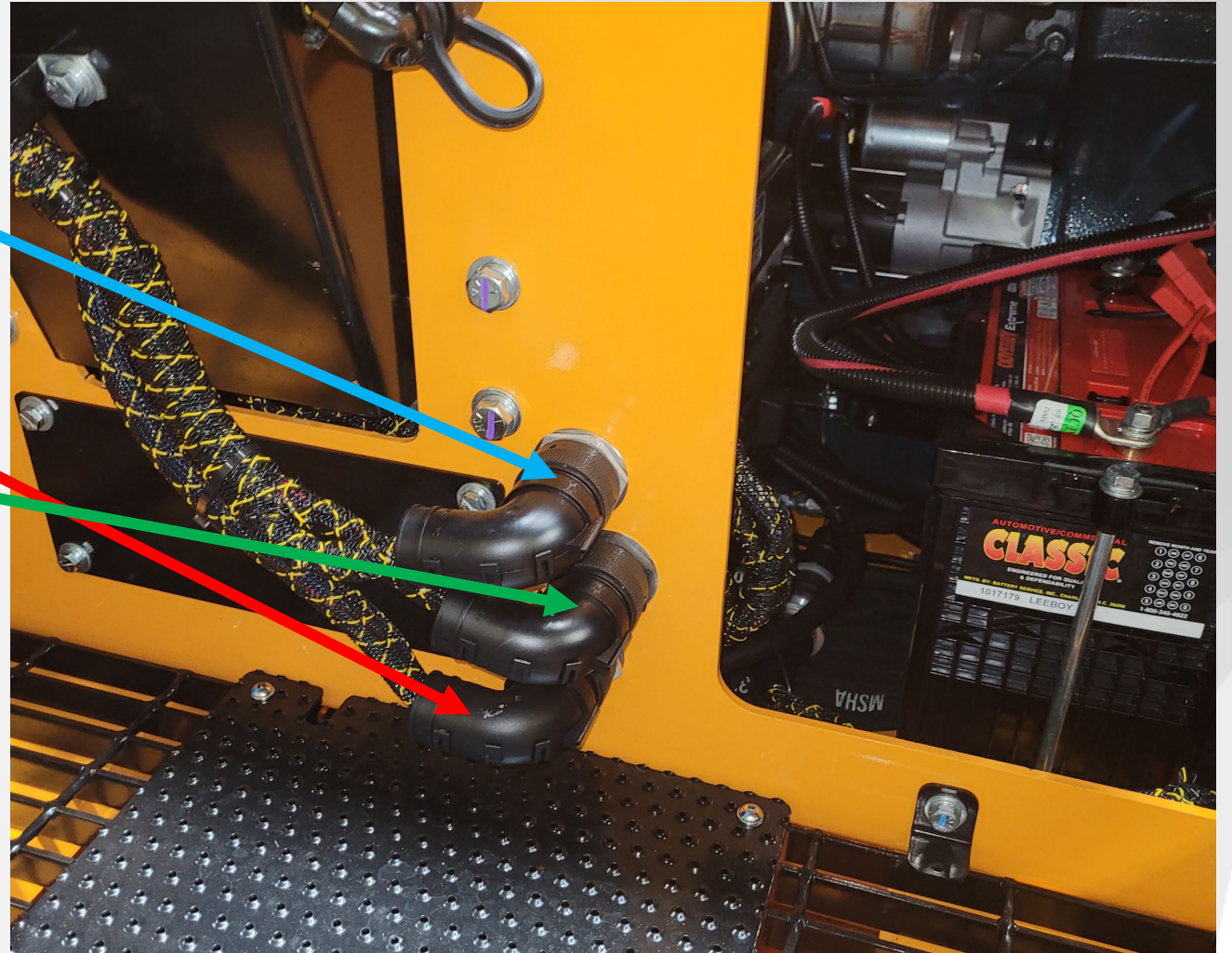


C3 Jumper

C4 Jumper

C5 Jumper

Bulkhead pass through located to left of RH rear access door.

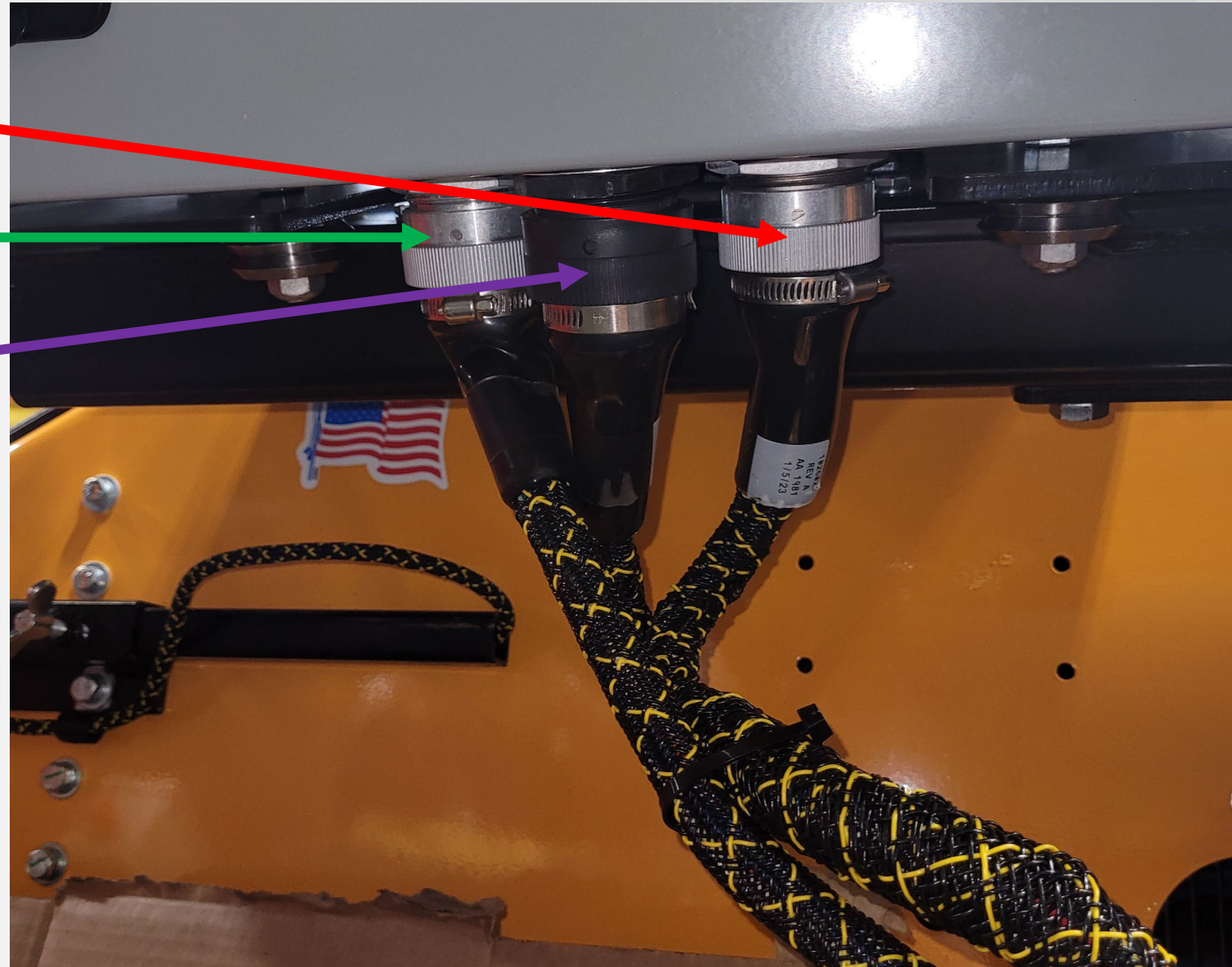


C3 Jumper

C4 Jumper

C5 Jumper

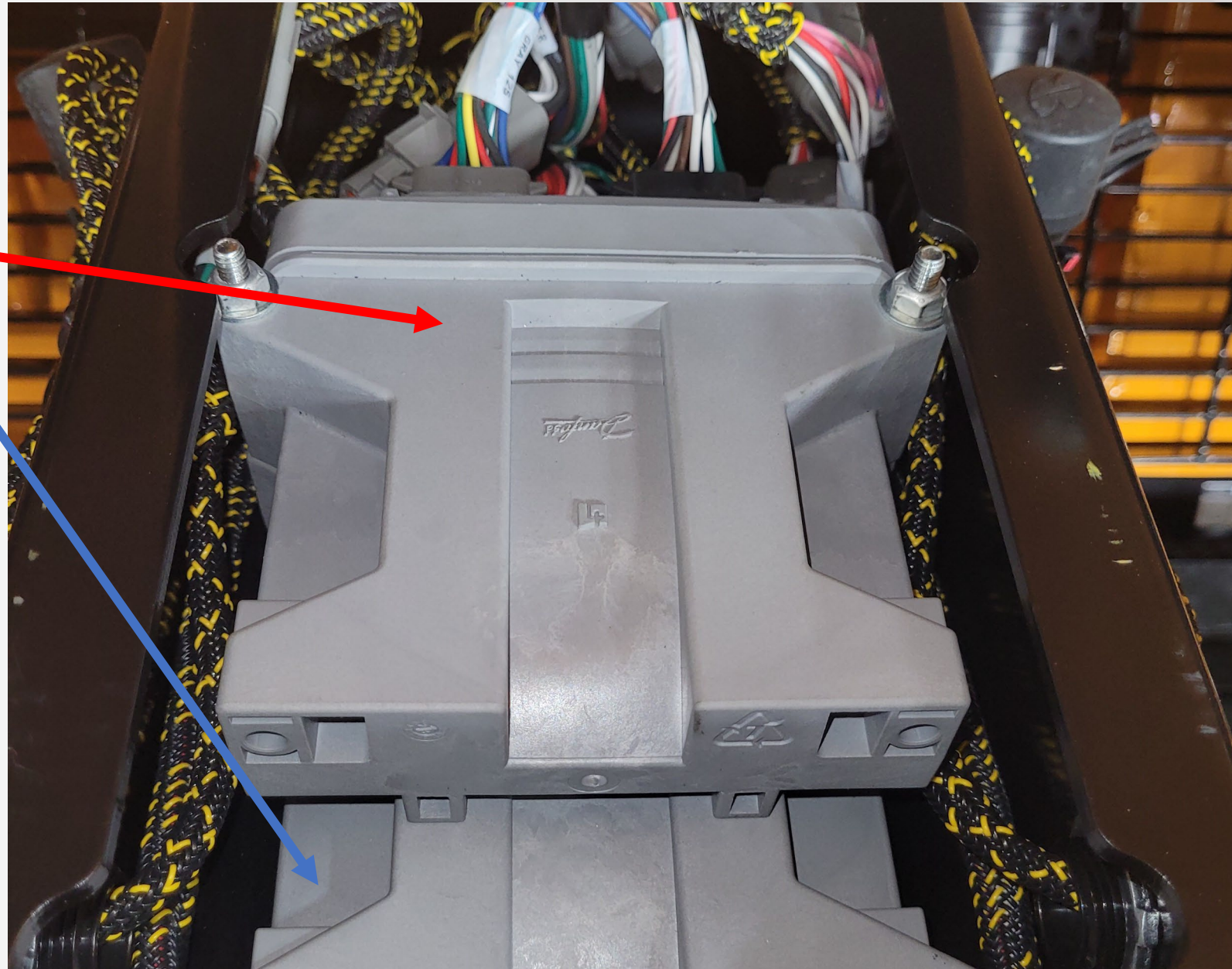
Jumpers located on back of control box.



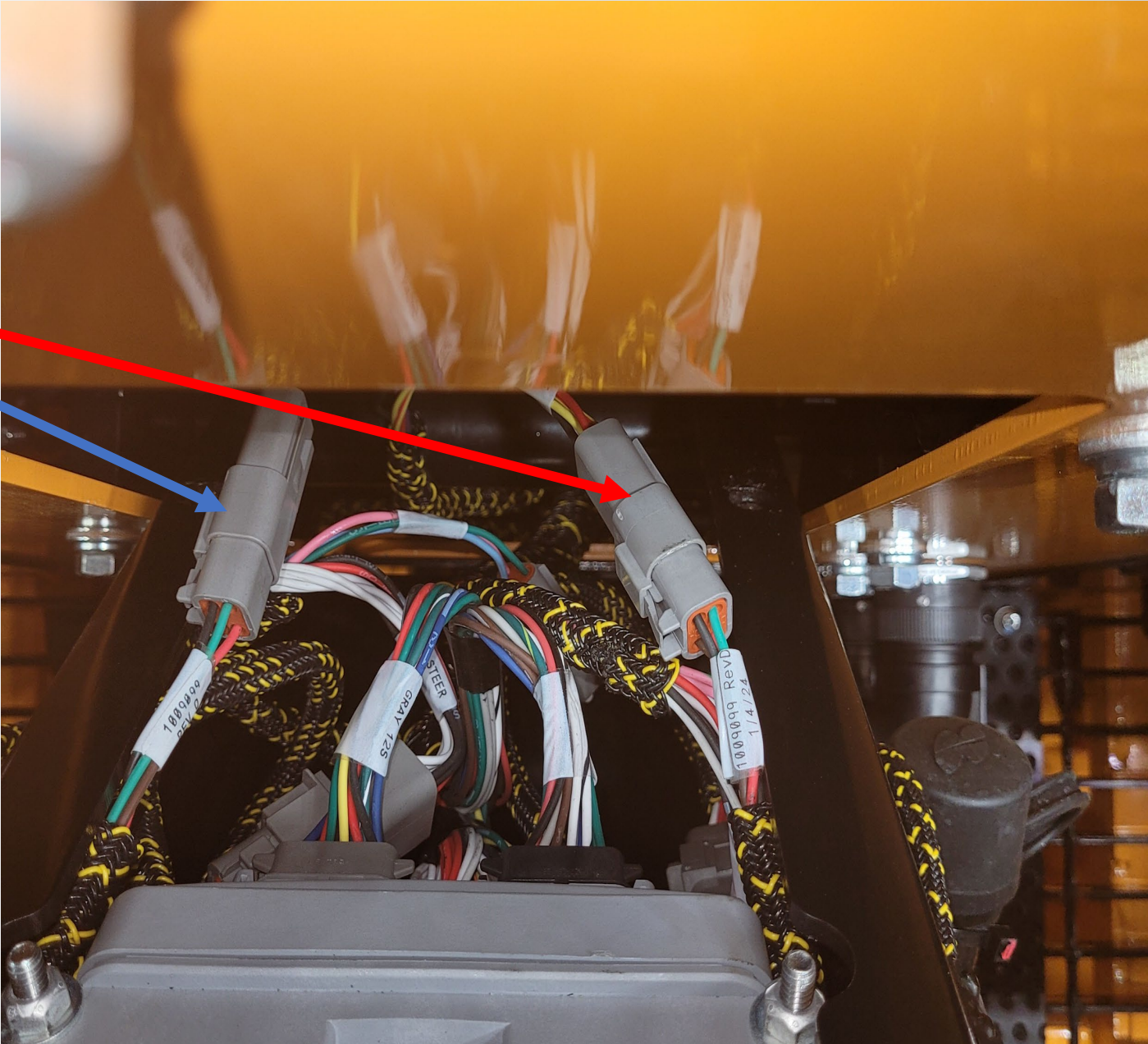
24 Pin Auger/Conveyor controller

50 Pin Propel controller

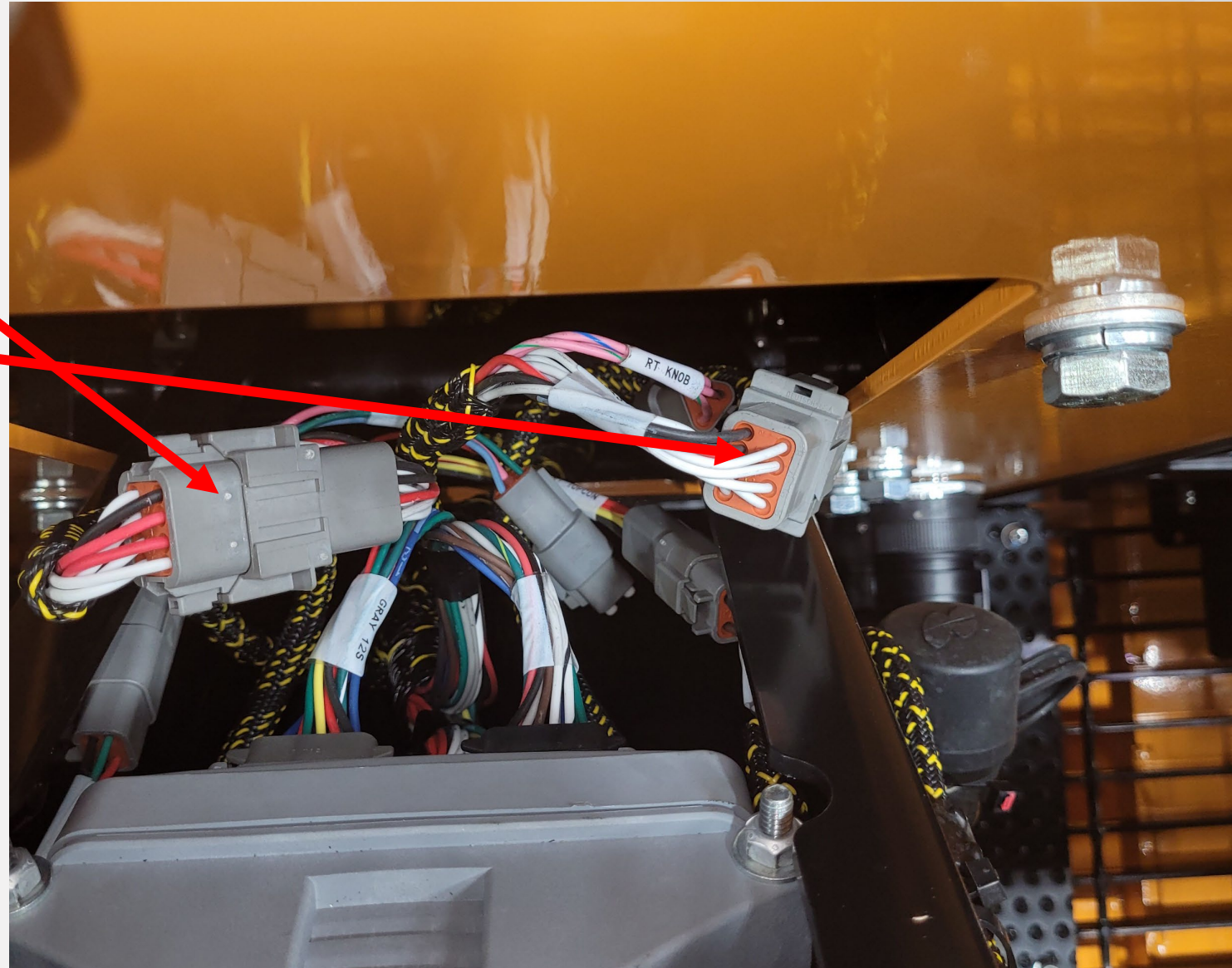
Located behind plate on center pedestal.  
Remove 4 bolts on top of plate to remove plate.



Topcon connectors located below controllers in center pedestal.



Left and Right steering control box connectors located below controllers in center pedestal.



Screed 1 Connector

Screed 2 Connector

Generator Bulkhead

Located at rear of machine between screed and tractor below the foot plate.

