

**FRONT DISCHARGE MIXER  
(2016 CUMMINS & GHG17 MTU ENGINES)  
ELECTRICAL SYSTEM  
CIRCUIT DIAGRAM MANUAL**

## FD MIXER (2016 CUMMINS & GHG17 MTU ENGINES)

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**\*NOTE:** *The harness maps show harness to harness connections & should be referenced for following circuits in troubleshooting.*

### Schematics (Reference Wiring Harness Maps):

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## FD MIXER (2016 CUMMINS & GHG17 MTU ENGINES)

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34998



RELAY L RELAY K RELAY J RELAY I RELAY H RELAY G

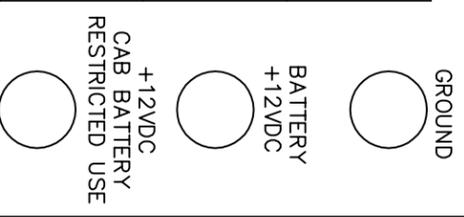
A/C	MARKER /DASH LIGHT	HEAD / TAIL LIGHT	IGN #1	TRACKING SYSTEM	TWO WAY RADIO
-----	--------------------	-------------------	--------	-----------------	---------------

- 1- 10AMP HEATED MIRROR PWR
- 2- 20AMP SIGNAL-STAT IGN
- 3- 25AMP HEATER/AC BLOWER
- 4- 10AMP ABS ECU IGN
- 5- 10AMP ALLISON TRANS IGN
- 6- 20AMP ELEC/HYD TO #31
- 7- 20AMP FRONT WORK LT SW PWR
- 8- 10AMP TAIL LIGHT PWR
- 9- 15AMP HEADLIGHT PWR
- 10- 10AMP SHIFTER/LOW AIR BZR/SPEEDO
- 11- 10AMP CIGARETTE LIGHTER
- 12- 20AMP BACKUP CAM/RAD PWR
- 13- 10AMP SLUMP/TYCO FB IGN
- 14- 20AMP STR/RR WORK LT PWR
- 15- 10AMP ABS ECU IGN
- 16- 15AMP CAB FAN
- 17- 15AMP FRONT & REAR MARKER LTS
- 18- 30AMP IGN BATTERY PWR
- 19- 15AMP WIPER/RAD MEM/FILTER LT
- 20- 10AMP HEADLIGHT SW/RELAY
- 21- 10AMP SPEEDO/9-PIN DIAG
- 22- 20AMP REVERSE/BACKUP
- 23- 10AMP REMOTE PENDANT PWR
- 24- 10AMP MARKER LIGHT SW/RELAY
- 25- 20AMP BRAKE/FLASHER
- 26- 10AMP HORN/DOME LIGHT
- 27- 10AMP ENG ECM IGN
- 28- 20AMP A/C COMP PWR
- 29- 20AMP TWO WAY RADIO
- 30- 10AMP TRACKING SYSTEM

ACCESSORY CONNECTOR TAPS

- 31- ELEC/HYD ( FUSED @ #6)
- 33- IGN KEY SW ( UNFUSED)
- 36- BACKUP ( FUSED @ #22)
- 39- ACC KEY SW ( UNFUSED)
- 44- BATT+ ( UNFUSED)
- 45- BATT+ ( UNFUSED)
- 34- GROUND
- 35- GROUND
- 40- GROUND
- 41- GROUND
- 42- GROUND
- 46- GROUND
- 47- GROUND
- 48- GROUND

48	47	46	30	29	28	27	26	25	24	23	22	21
45	44	43										
42	41	40	20	19	18	17	16	15	14	13	12	11
39	38	37										
36	35	34	10	09	08	07	06	05	04	03	02	01
33	32	31										



ABS LIGHT	IGN #2	NEUTRAL START	REVERSE SIGNAL	ACCESSORY	HORN
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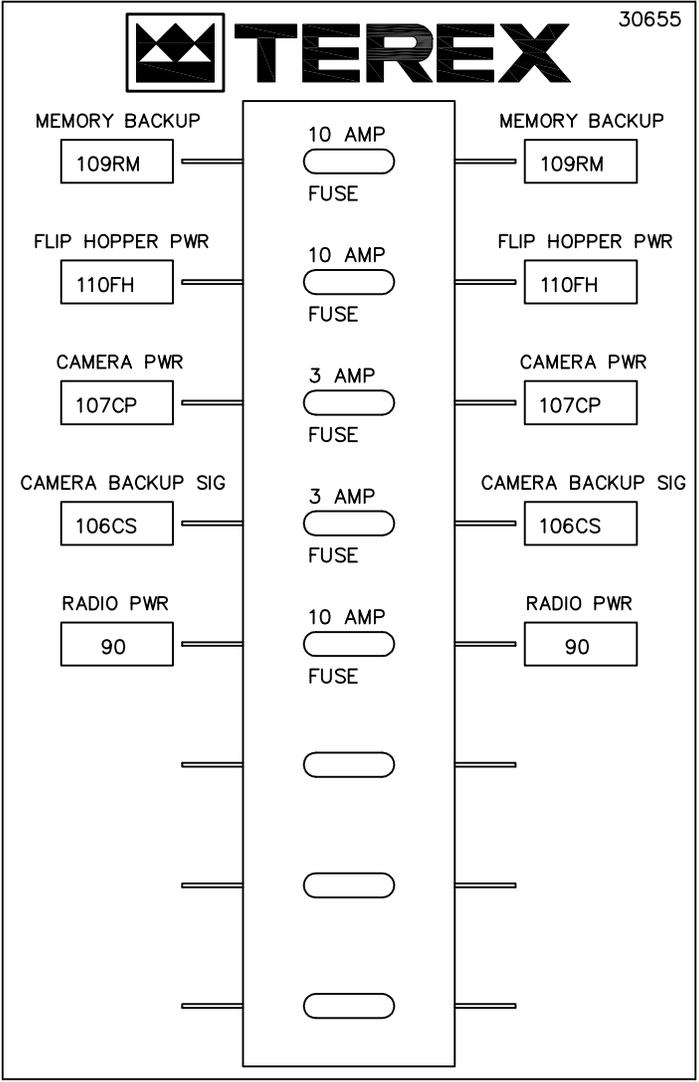
RELAY F RELAY E RELAY D RELAY C RELAY B RELAY A

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DRAWN BY: DCS  
 CHECKED BY: APPROVED BY:  
 DATE: 2015-03-12

TEREX | ADVANCE  
 FORT WAYNE, IN 46898

DECAL, FUSE/RELAY PANEL (GHG17)  
 SHEET OF  
 REV B  
 SCALE  
 DWG NO. PART NUMBER 34998

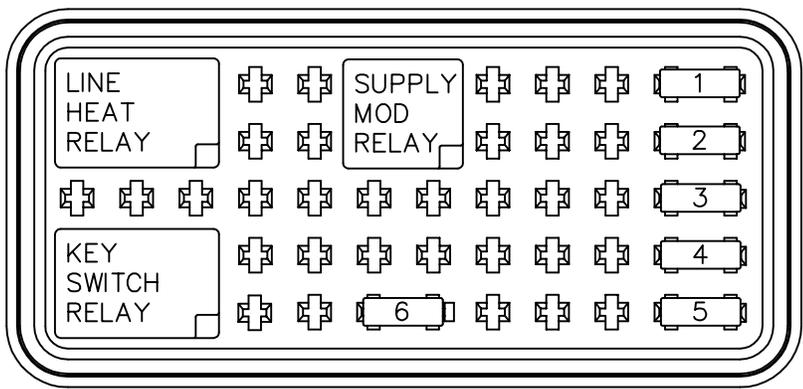


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DRAWN BY PKW	DRAWN DATE 2007/06/06	<b>TEREX   ADVANCE</b> FORT WAYNE, IN 46898	
CHECKED BY	APPROVED BY		
CAD SYSTEM	CAGE CODE	TITLE DECAL, AUXILIARY FUSE PANEL TIER 3 CABS	
ELECTRICAL TOLERANCE STANDARDS			
WIRE LENGTH < 100" (±1/4")			
WIRE LENGTH > 100" (±1/2")			
WIRE LENGTH > 250" (±1")			
WIRE LENGTH > 500" (±2")			
SHEET OF	REV NR	SCALE	
DWG NO.	PART NUMBER 30655		

Box= 32156  
 Lib = 32157



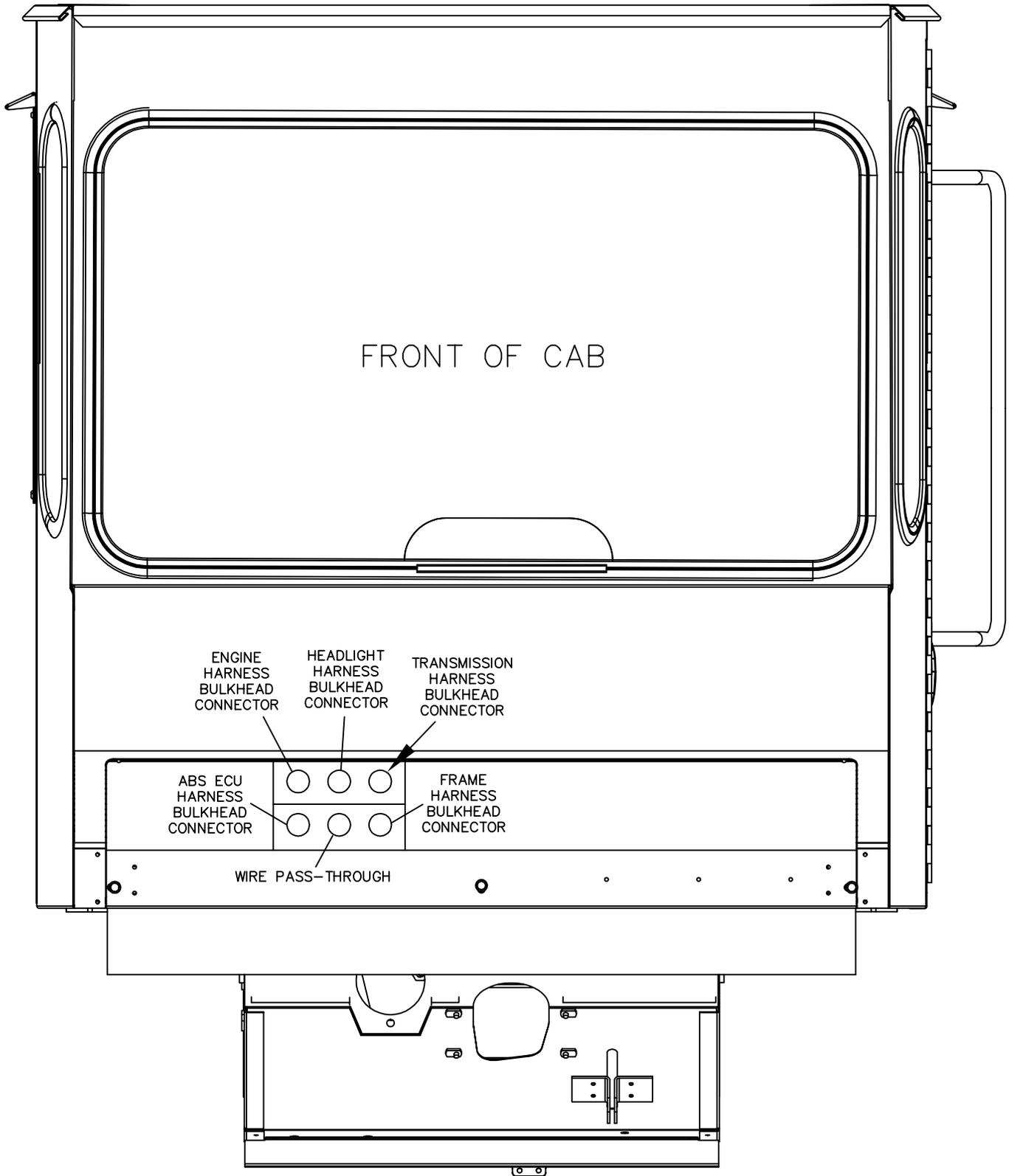
MINI FUSES



- 1 - ACM PWR/DEF LEVEL (5A)
- 2 - ECM POWER (5A)
- 3 - DEF SUPPLY MOD, ISX (10A)
- 4 - A/T IGN, ISX (15A)
- 5 - AIR DRYER (10A)
- 6 - DEF LINE HEATERS (20A)

35417

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CHECKED BY	APPROVED BY		
CAD SYSTEM	CAGE CODE	TITLE DECAL, FUSE/RELAY, MTU GHG17 & CUMMINS 2016	
ELECTRICAL TOLERANCE STANDARDS		SHEET	OF
WIRE LENGTH < 100" (±1/4")		REV	SCALE
WIRE LENGTH > 100" (±1/2")		DWG NO.	PART NUMBER
WIRE LENGTH > 250" (±1")		35417	
WIRE LENGTH > 500" (±2")			



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DRAWN BY DCS	DRAWN DATE 2014/09/25
CHECKED BY	APPROVED BY
CAD SYSTEM	CAGE CODE

**TEREX | ADVANCE**  
FORT WAYNE, IN 46898

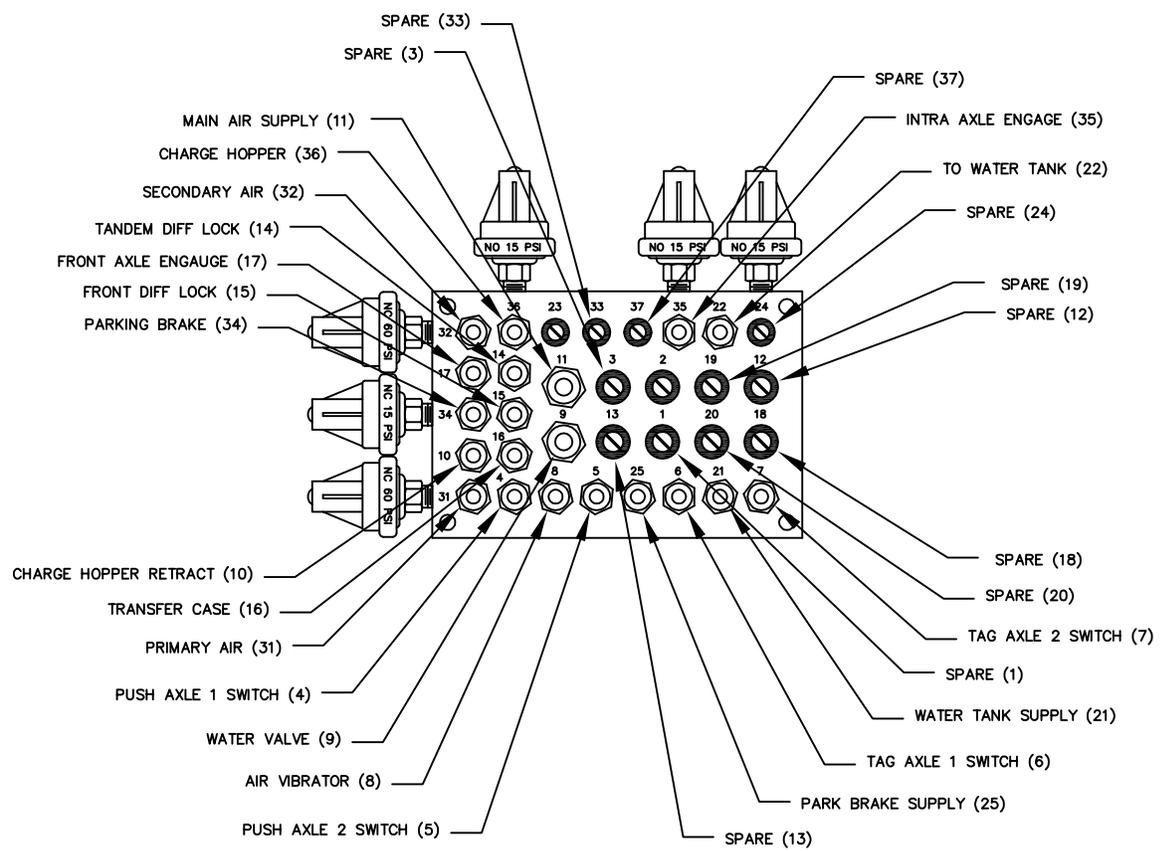
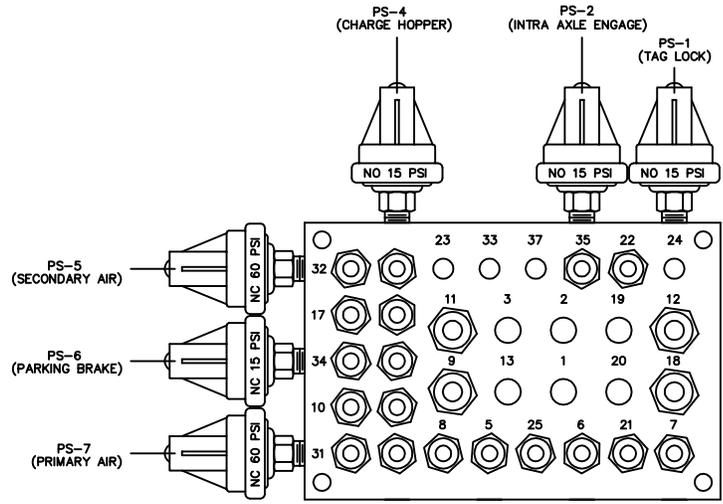
TITLE  
**CAB HARNESS BULKHEAD CONNECTIONS**

**ELECTRICAL TOLERANCE STANDARDS**

WIRE LENGTH < 100"	(±1/4")
WIRE LENGTH > 100"	(±1/2")
WIRE LENGTH > 250"	(±1")
WIRE LENGTH > 500"	(±2")

SHEET	OF	REV	SCALE
DWG NO.		NR	
		PART NUMBER	

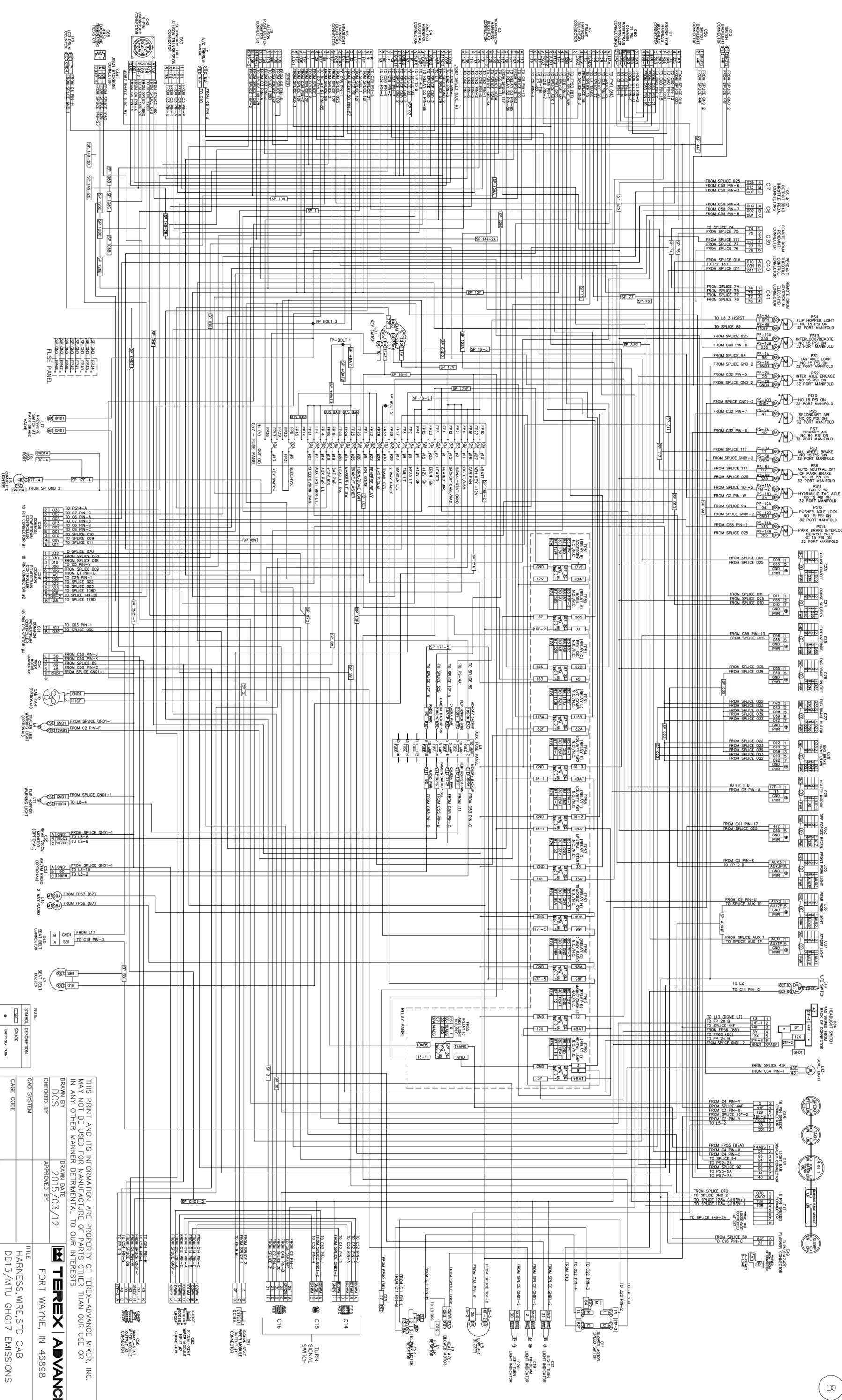
# CAB INSIDE VIEW (TYPICAL INSTALLATION)



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DRAWN BY DCS	DRAWN DATE 2016/03/14	<b>TEREX   ADVANCE</b> FORT WAYNE, IN 46898	
CHECKED BY	APPROVED BY		
CAD SYSTEM	CAGE CODE	TITLE MANIFOLD ASSY, AIR SWITCH, BULKHEAD, 32 PORT (REFERENCE)	
ELECTRICAL TOLERANCE STANDARDS			
WIRE LENGTH < 100" (±1/4") WIRE LENGTH > 100" (±1/2") WIRE LENGTH > 250" (±1") WIRE LENGTH > 500" (±2")			
SHEET OF	REV NR	SCALE	
DWG NO.	PART NUMBER		







NOTE:  
 [Symbol] SPICE  
 [Symbol] TAPPING POINT  
 [Symbol] BATTERY STUD  
 [Symbol] FUSE/BREAKER

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DRAWN BY: DOS  
 CHECKED BY: DOS  
 DATE: 2015/03/12

APPROVED BY: [Signature]

CAD SYSTEM: [Blank]  
 CAGE CODE: [Blank]  
 MATERIAL DESCRIPTION: [Blank]  
 FINISH: [Blank]

TITLE: HARNESS, WIRE, STD CAB  
 DD13/MTU GHG17 EMISSIONS

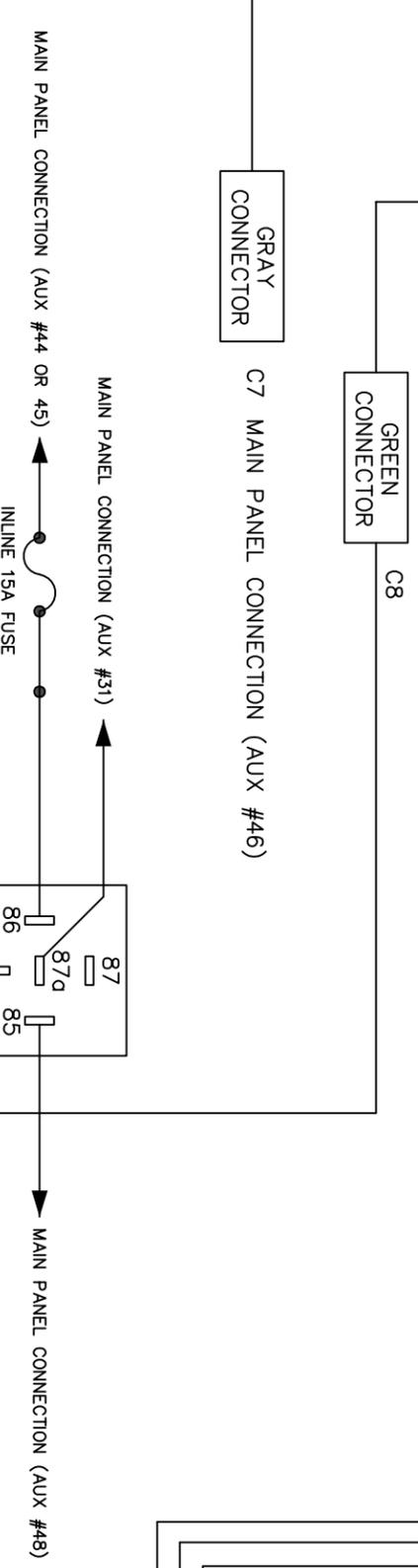
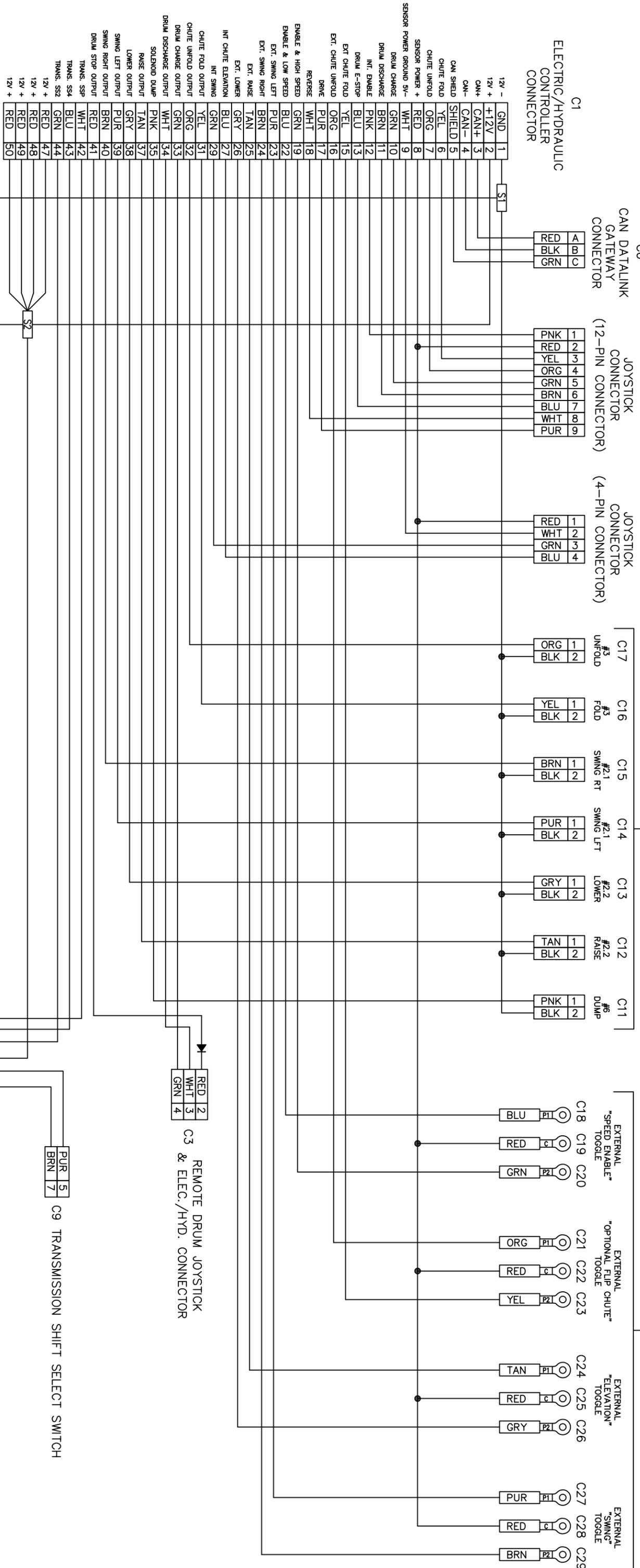
SCALE: DO NOT SCALE  
 PART NUMBER: 34995

TEREX ADVANCE  
 FORT WAYNE, IN 46898



CURBSIDE TOGGLE SWITCHES  
(OUTSIDE FRONT OF CAB)

MANIFOLD SPOOL VALVE ASSEMBLY



35613 REV-A

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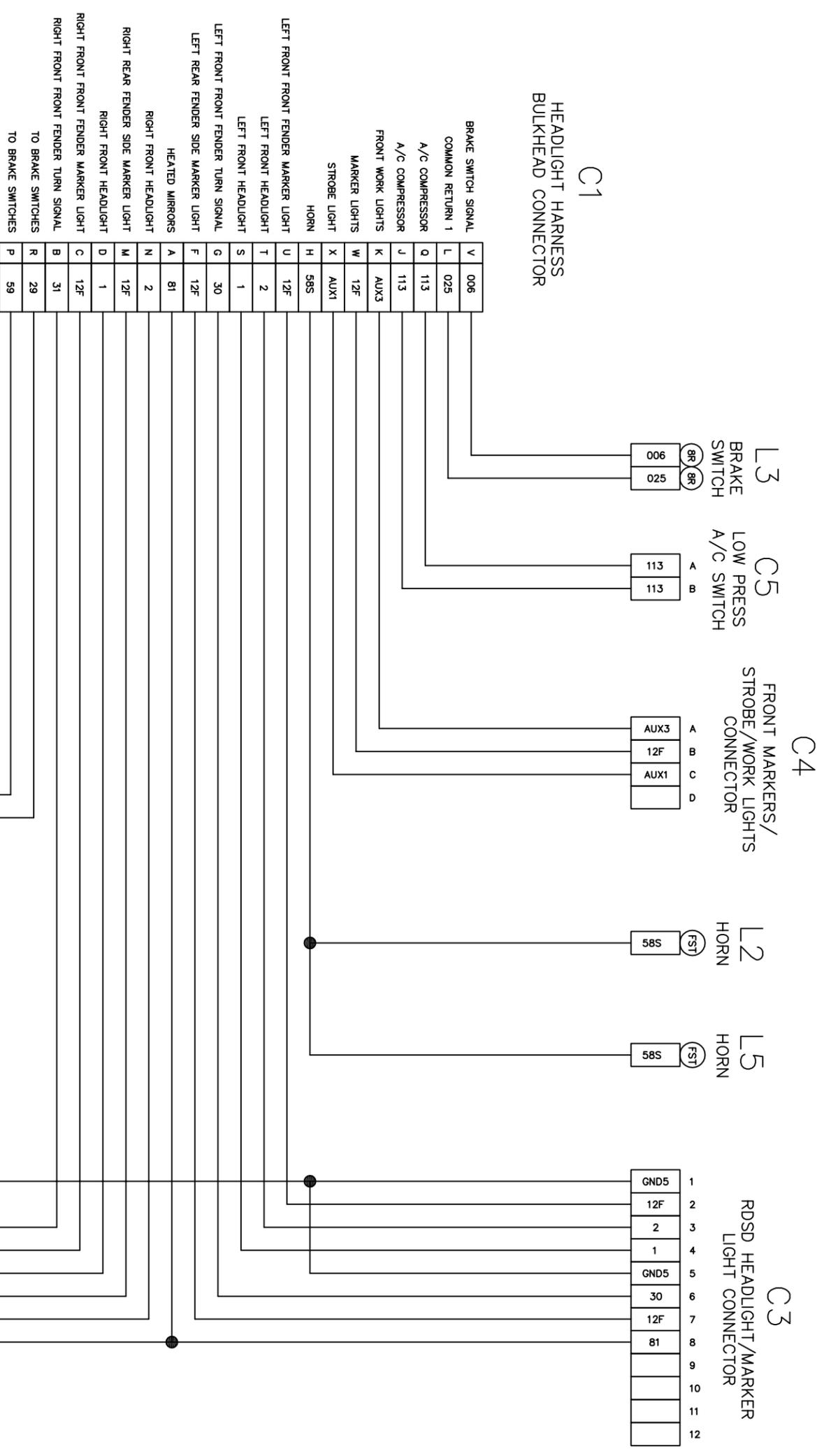
DRAWN BY: MIKE JOHNSON  
 CHECKED BY: MIKE JOHNSON  
 DATE: 04 SEPT 2007  
 APPROVED BY: FORT WAYNE, IN 46898

TITLE: HARNESS, ELECT/HYD, TRANS

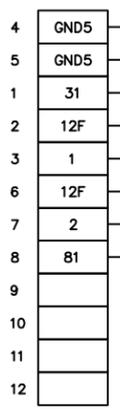
ELECTRICAL TOLERANCE STANDARDS:  
 WIRE LENGTH < 100" (±1/4")  
 WIRE LENGTH > 100" (±1/2")  
 WIRE LENGTH > 250" (±1")  
 WIRE LENGTH > 500" (±2")

SHEET OF  
 DWG NO. PART NUMBER  
 30871

C1  
HEADLIGHT HARNESS  
BULKHEAD CONNECTOR

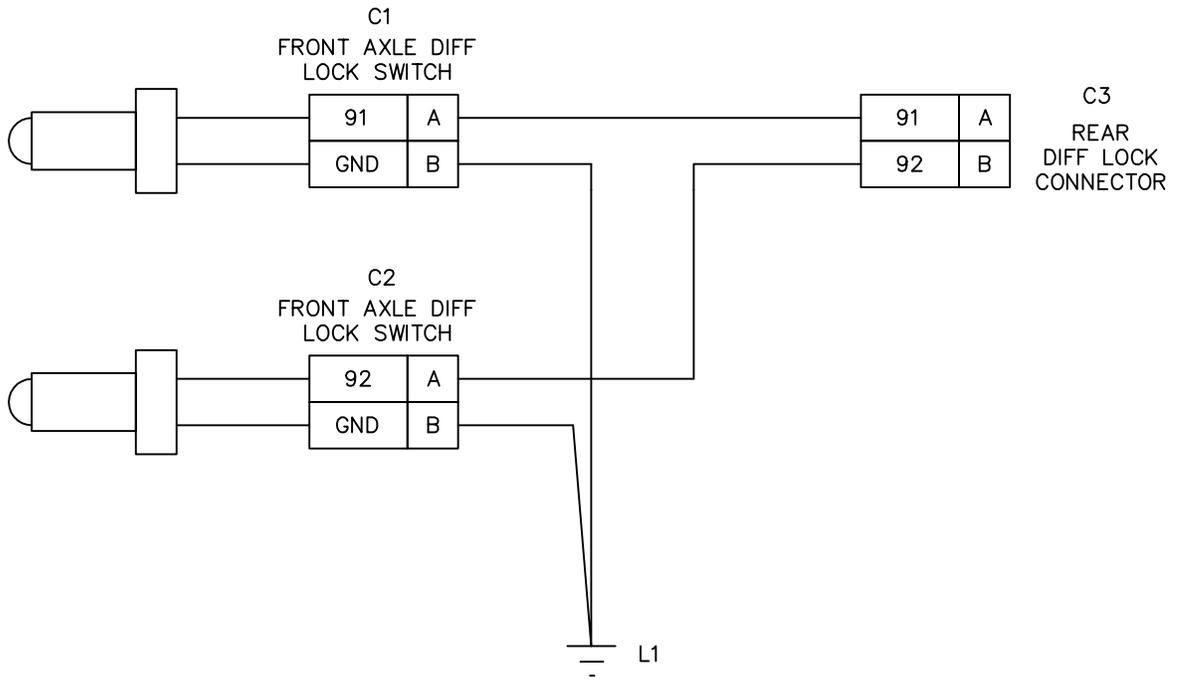


C2  
CBSD HEADLIGHT/MARKER  
LIGHT CONNECTOR

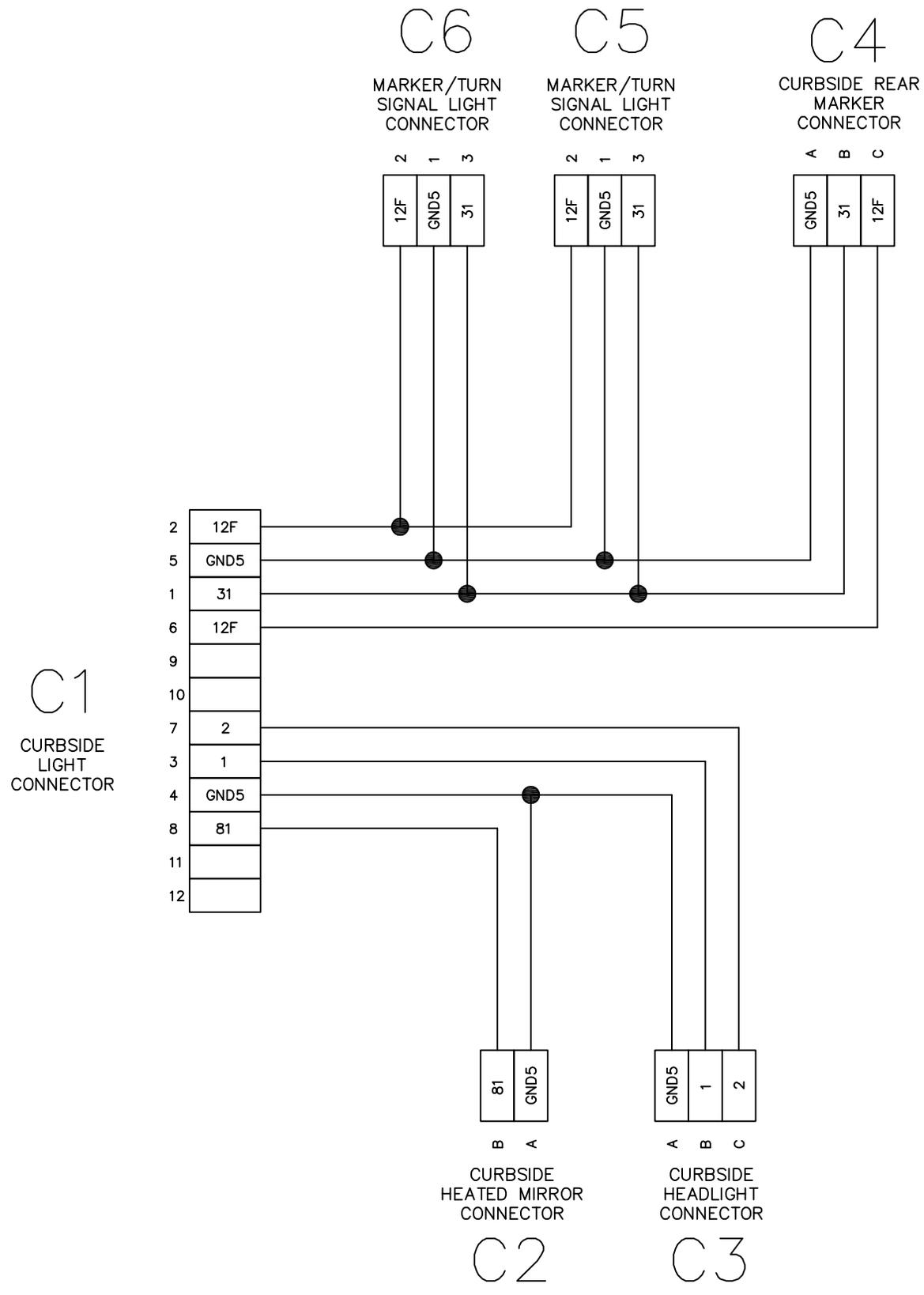


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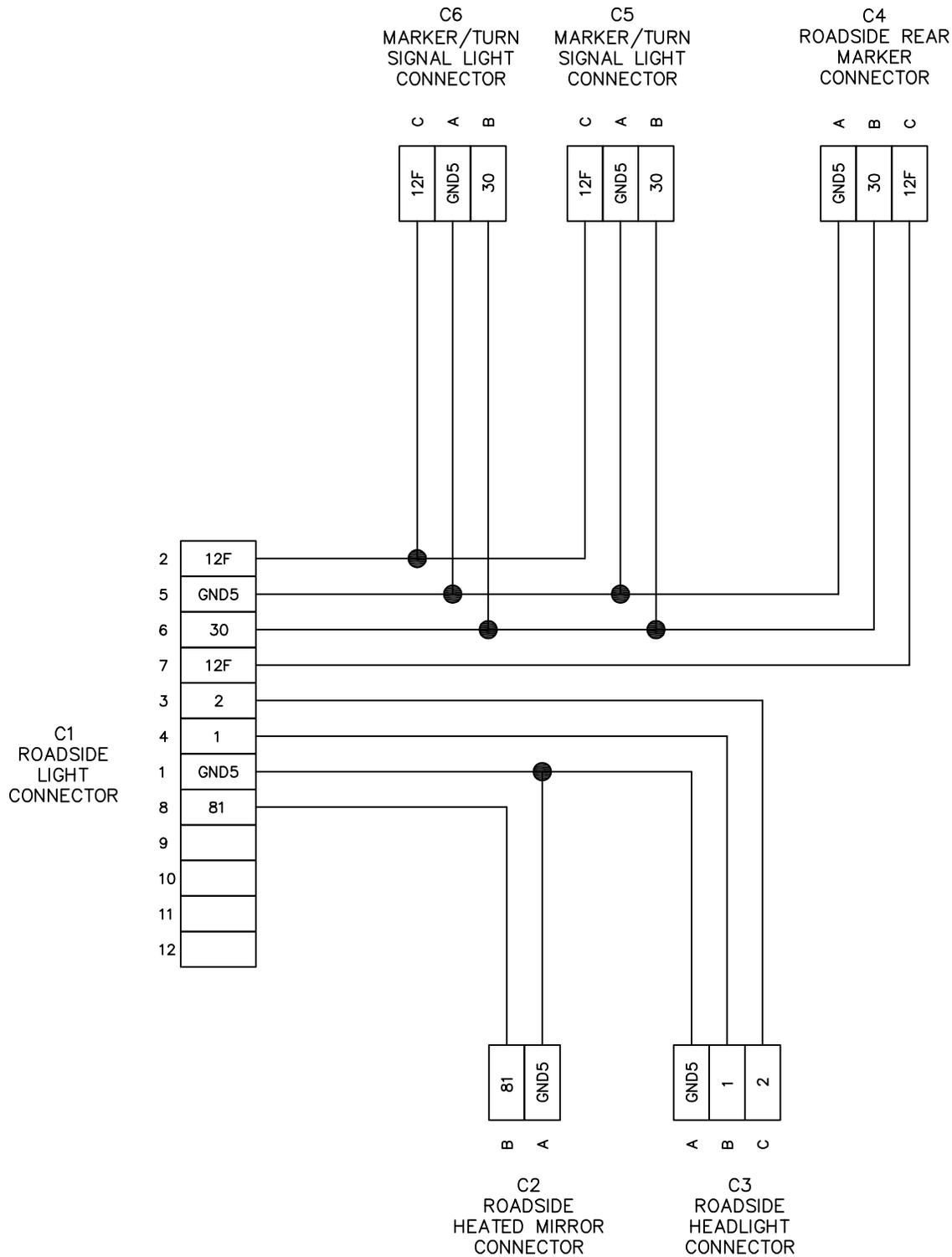
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CHECKED BY	APPROVED BY	TITLE HARNES S, HEADLIGHT/MARKER LIGHT 2007 TRUCK
CAD SYSTEM	CAGE CODE	SHEET OF
ELECTRICAL TOLERANCE STANDARDS		REV. SCALE
WIRE LENGTH < 100" (±1/4")		PART NUMBER
WIRE LENGTH > 100" (±1/2")		29962
WIRE LENGTH > 250" (±1")		
WIRE LENGTH > 500" (±2")		



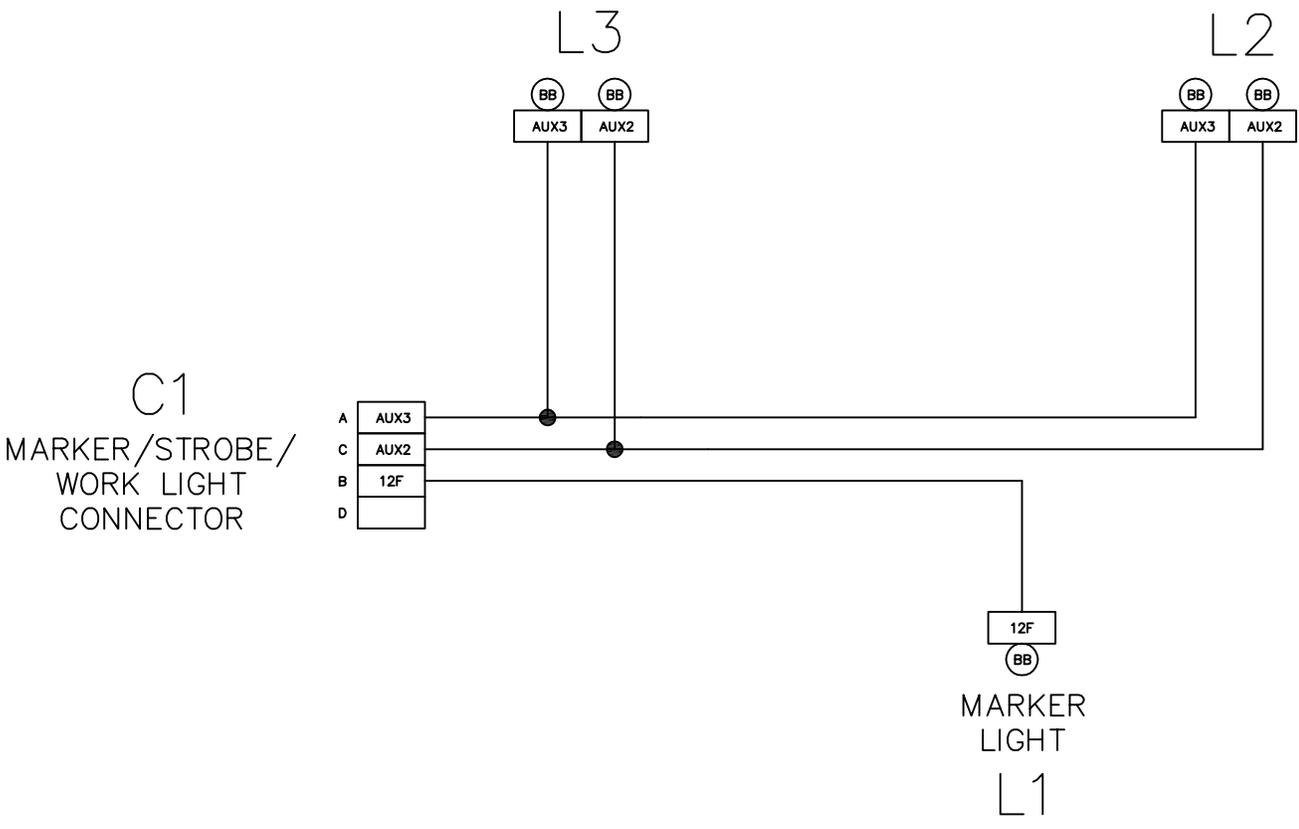
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DRAWN BY MAT	DRAWN DATE 1995/05/06	<b>TEREX   ADVANCE</b> FORT WAYNE, IN 46898	
CHECKED BY	APPROVED BY		
CAD SYSTEM	CAGE CODE	TITLE HARNES, TANDEM DIFF. LOCK	
ELECTRICAL TOLERANCE STANDARDS			
WIRE LENGTH < 100" (±1/4")			
WIRE LENGTH > 100" (±1/2")			
WIRE LENGTH > 250" (±1")			
WIRE LENGTH > 500" (±2")			
SHEET	OF	REV F	SCALE
DWG NO.	PART NUMBER 14435		



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DRAWN BY PKW	DRAWN DATE 2005/07/25	<b>TEREX   ADVANCE</b> FORT WAYNE, IN 46898	
CHECKED BY	APPROVED BY		
CAD SYSTEM	CAGE CODE	TITLE HARNESS, CBSD HEADLIGHT/ MARKER LIGHT	
ELECTRICAL TOLERANCE STANDARDS			
WIRE LENGTH < 100" (±1/4")			
WIRE LENGTH > 100" (±1/2")			
WIRE LENGTH > 250" (±1")			
WIRE LENGTH > 500" (±2")			
SHEET OF	REV C	SCALE	
DWG NO.	PART NUMBER 28279		

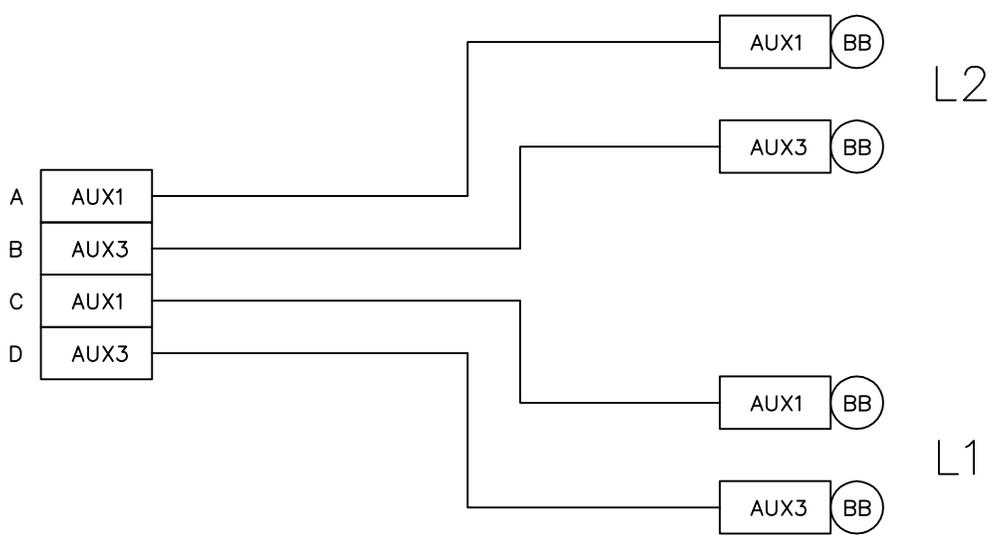


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CHECKED BY	APPROVED BY		
CAD SYSTEM	CAGE CODE	TITLE HARNES, RDS D HEADLIGHT/ MARKER LIGHT	
ELECTRICAL TOLERANCE STANDARDS			
WIRE LENGTH < 100" (±1/4")			
WIRE LENGTH > 100" (±1/2")			
WIRE LENGTH > 250" (±1")			
WIRE LENGTH > 500" (±2")			
SHEET OF	REV C	SCALE	
DWG NO.	PART NUMBER 28280		



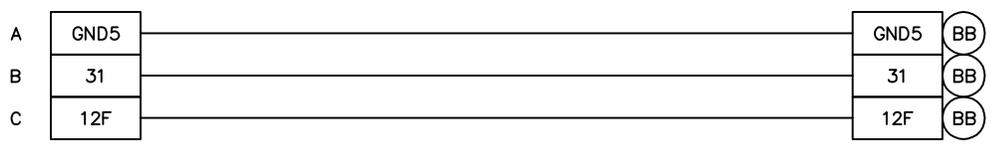
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CHECKED BY	APPROVED BY		
CAD SYSTEM	CAGE CODE	TITLE HARNES, FRONT MARKER/ STROBE/WORK LIGHTS	
ELECTRICAL TOLERANCE STANDARDS		SHEET	OF
WIRE LENGTH < 100" (±1/4")		REV	SCALE
WIRE LENGTH > 100" (±1/2")		A	
WIRE LENGTH > 250" (±1")		DWG NO.	PART NUMBER
WIRE LENGTH > 500" (±2")			28289

C1  
 FRONT MARKER/  
 STROBE/WORK  
 LIGHT CONNECTOR



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CHECKED BY	APPROVED BY		
CAD SYSTEM	CAGE CODE	TITLE HARNESS, FRONT STROBE/ WORKLIGHT	
ELECTRICAL TOLERANCE STANDARDS			
WIRE LENGTH < 100" (±1/4")			
WIRE LENGTH > 100" (±1/2")			
WIRE LENGTH > 250" (±1")			
WIRE LENGTH > 500" (±2")			
SHEET	OF	REV NR	SCALE
DWG NO.		PART NUMBER 28880	

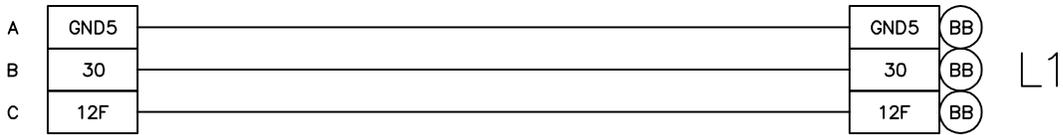
C1  
 CURBSIDE  
 REAR MARKER  
 CONNECTOR



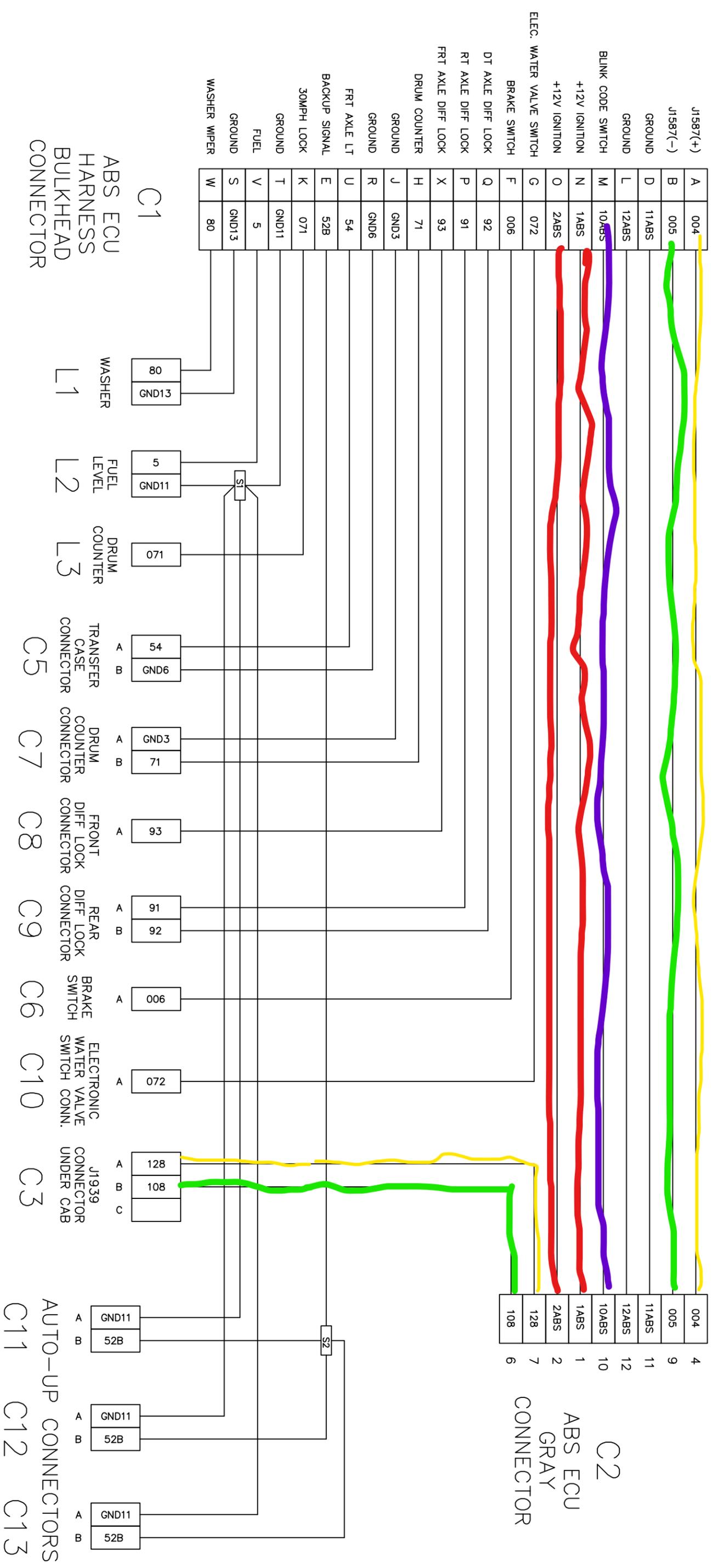
L1

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DRAWN BY PKW	DRAWN DATE 2005/07/25	<b>TEREX   ADVANCE</b> FORT WAYNE, IN 46898	
CHECKED BY	APPROVED BY		
CAD SYSTEM	CAGE CODE	TITLE HARNESS, CBSD REAR FENDER MARKER LIGHT	
ELECTRICAL TOLERANCE STANDARDS		REV C SCALE	
WIRE LENGTH < 100" (±1/4")		SHEET OF	
WIRE LENGTH > 100" (±1/2")		DWG NO.	
WIRE LENGTH > 250" (±1")		PART NUMBER	
WIRE LENGTH > 500" (±2")		28287	

C1  
ROADSIDE  
REAR MARKER  
CONNECTOR



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DRAWN BY PKW	DRAWN DATE 2005/07/25	<b>TEREX   ADVANCE</b> FORT WAYNE, IN 46898	
CHECKED BY	APPROVED BY		
CAD SYSTEM	CAGE CODE	TITLE HARNES, RSD REAR FENDER MARKER LIGHT	
ELECTRICAL TOLERANCE STANDARDS		SHEET	OF
WIRE LENGTH < 100" (±1/4")		REV	SCALE
WIRE LENGTH > 100" (±1/2")		A	
WIRE LENGTH > 250" (±1")		DWG NO.	PART NUMBER
WIRE LENGTH > 500" (±2")			28288



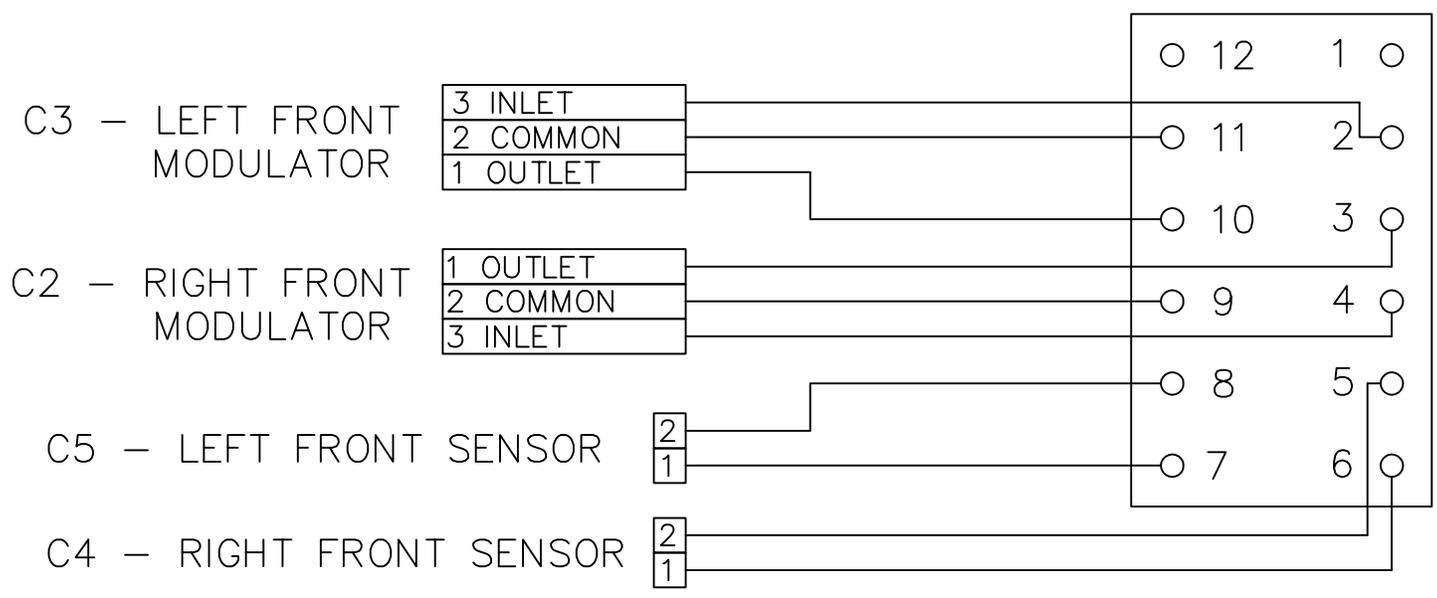
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DRAWN BY PKW	DATE 2006/09/28	TEREX ADVANCE	TITLE HARNES, WASHER/FUEL/FRT AXLE TRANSFER CASE
CHECKED BY	APPROVED BY	FORT WAYNE, IN 46898	SHEET OF
ELECTRICAL TOLERANCE STANDARDS		REV D	SCALE
WIRE LENGTH < 100" (±1/4")			
WIRE LENGTH > 100" (±1/2")			
WIRE LENGTH > 250" (±1")			
WIRE LENGTH > 500" (±2")			

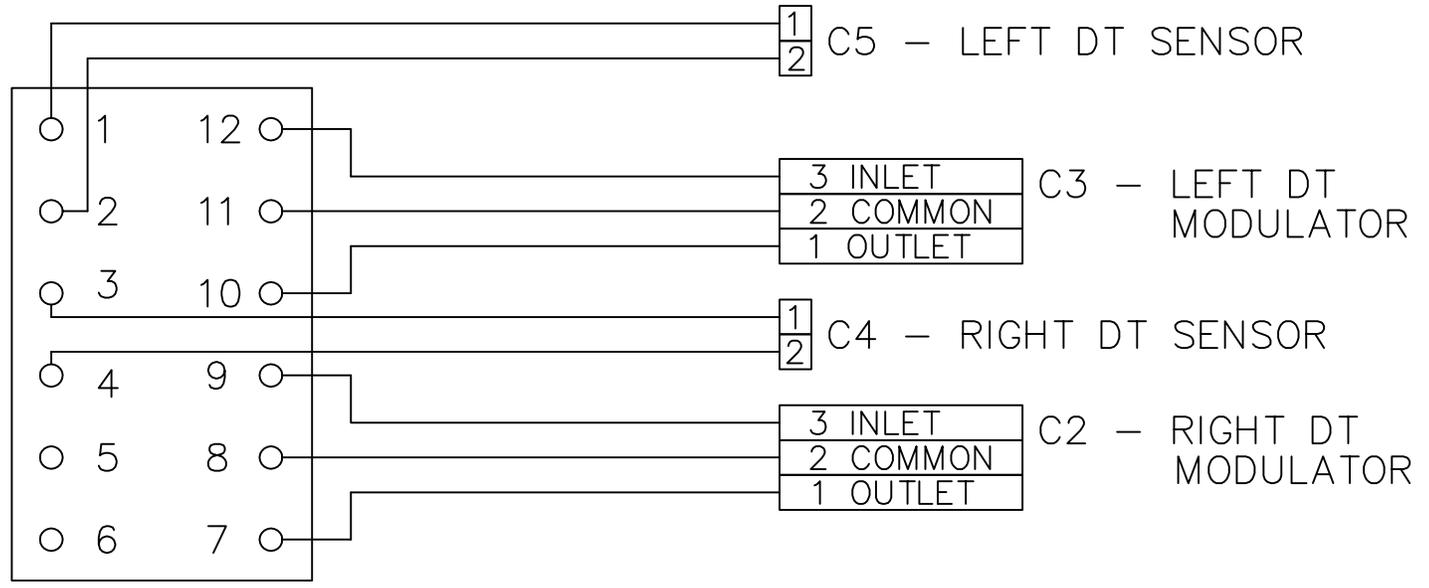
35613 REV-A

29963

C1  
 ABS ECU  
 BLACK  
 CONNECTOR

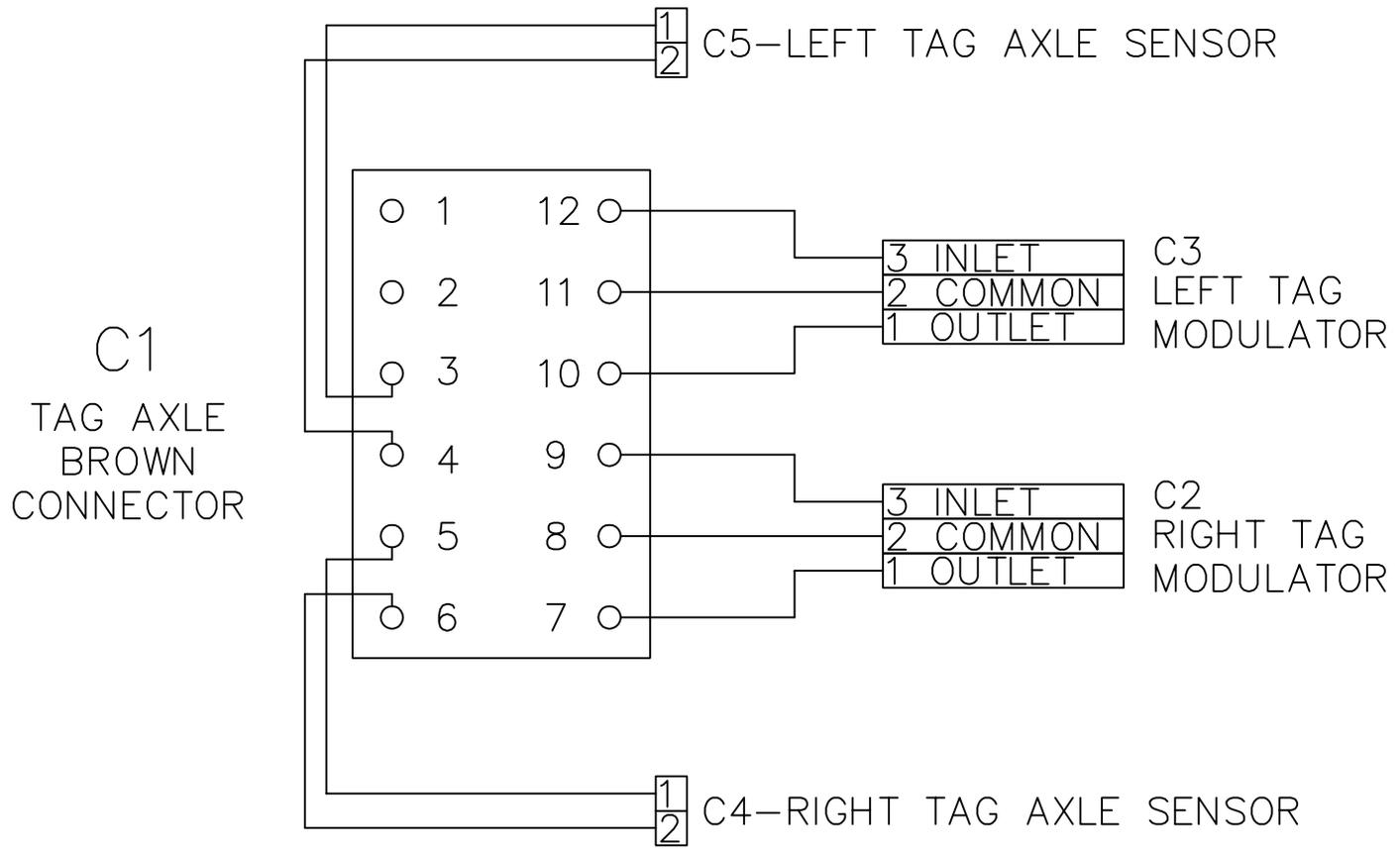


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DRAWN BY MIKE JOHNSON	DRAWN DATE 22 MAY 2012	<b>TEREX   ADVANCE</b> FORT WAYNE, IN 46898	
CHECKED BY	APPROVED BY		
CAD SYSTEM	CAGE CODE	TITLE HARNESS, WIRE, ABS FRONT AXLE, MY12	
ELECTRICAL TOLERANCE STANDARDS			
WIRE LENGTH < 100" (±1/4")			
WIRE LENGTH > 100" (±1/2")			
WIRE LENGTH > 250" (±1")			
WIRE LENGTH > 500" (±2")			
SHEET	OF	REV B	SCALE
DWG NO.		PART NUMBER 33502	



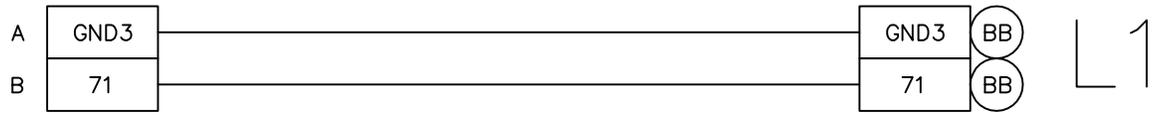
C1  
ABS ECU  
GREEN  
CONNECTOR

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DRAWN BY MIKE JOHNSON	DRAWN DATE 22 MAY 2012	<b>TEREX   ADVANCE</b> FORT WAYNE, IN 46898	
CHECKED BY	APPROVED BY		
CAD SYSTEM	CAGE CODE	TITLE HARNESS, WIRE, ABS DT AXLE, MY12	
ELECTRICAL TOLERANCE STANDARDS			
WIRE LENGTH < 100" (±1/4")			
WIRE LENGTH > 100" (±1/2")			
WIRE LENGTH > 250" (±1")			
WIRE LENGTH > 500" (±2")			
SHEET	OF	REV NR	SCALE
DWG NO.		PART NUMBER 33503	

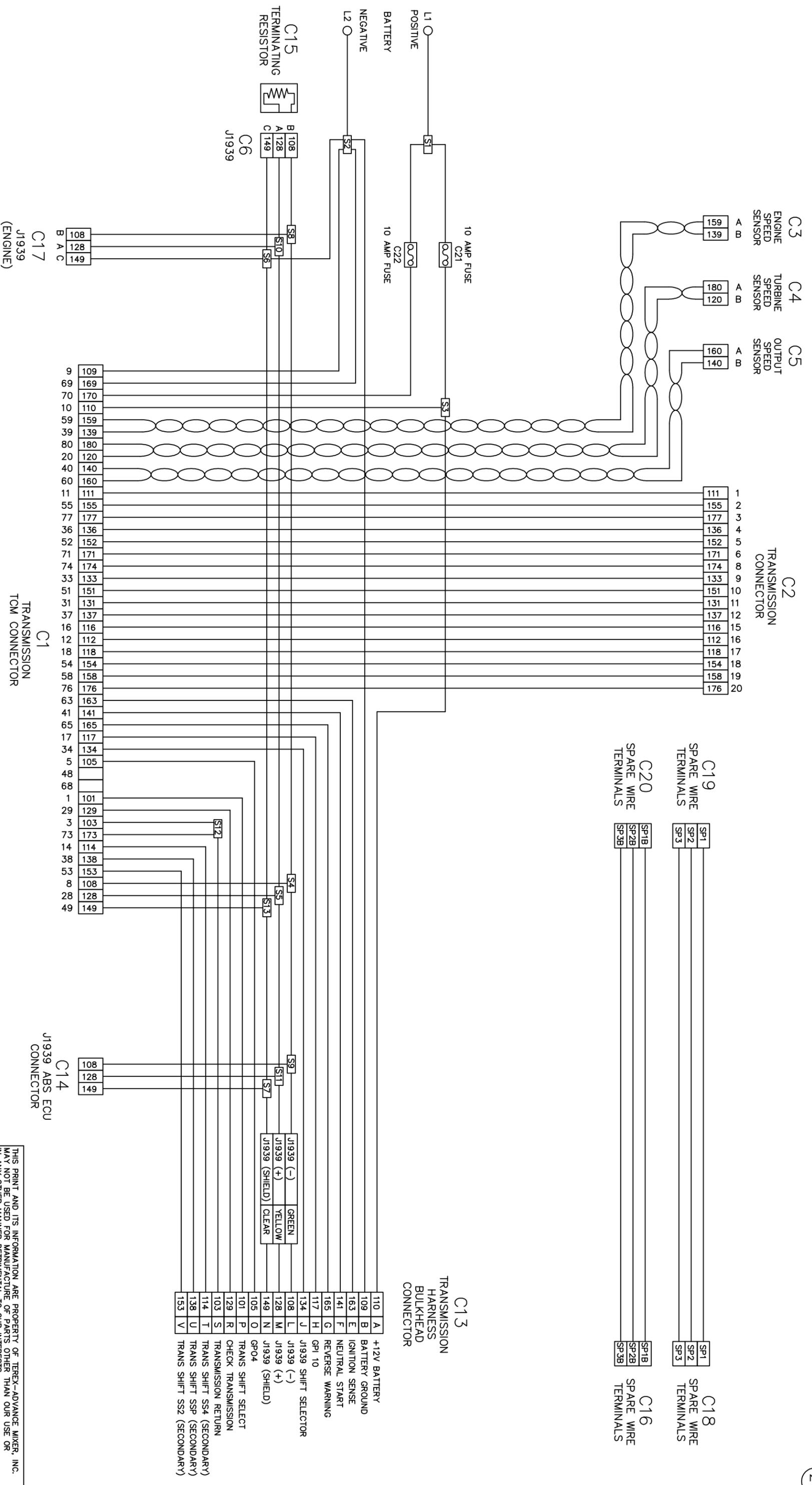


THIS PRINT AND ITS INFORMATION ARE PROPERTY OF TEREX-ADVANCE MIXER, INC. MAY NOT BE USED FOR MANUFACTURE OF PARTS OTHER THAN OUR USE OR IN ANY OTHER MANNER DETRIMENTAL TO OUR INTERESTS			
DRAWN BY DCS	DRAWN DATE 1 MAY 2014	<b>TEREX   ADVANCE</b> FORT WAYNE, IN 46898	
CHECKED BY	APPROVED BY		
CAD SYSTEM	CAGE CODE	TITLE HARNESS, WIRE, ABS TAG AXLE	
ELECTRICAL TOLERANCE STANDARDS			
WIRE LENGTH < 100" (±1/4")			
WIRE LENGTH > 100" (±1/2")			
WIRE LENGTH > 250" (±1")			
WIRE LENGTH > 500" (±2")			
SHEET	OF	REV	SCALE
DWG NO.		NR	
		PART NUMBER	34709

C1  
 DRUM  
 COUNTER  
 CONNECTOR



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DRAWN BY PKW	DRAWN DATE 2005/08/11	<b>TEREX   ADVANCE</b> FORT WAYNE, IN 46898	
CHECKED BY	APPROVED BY		
CAD SYSTEM	CAGE CODE	TITLE HARNES, DRUM COUNTER	
ELECTRICAL TOLERANCE STANDARDS			
WIRE LENGTH < 100" (±1/4")			
WIRE LENGTH > 100" (±1/2")			
WIRE LENGTH > 250" (±1")			
WIRE LENGTH > 500" (±2")			
SHEET	OF	REV A	SCALE
DWG NO.		PART NUMBER 28342	



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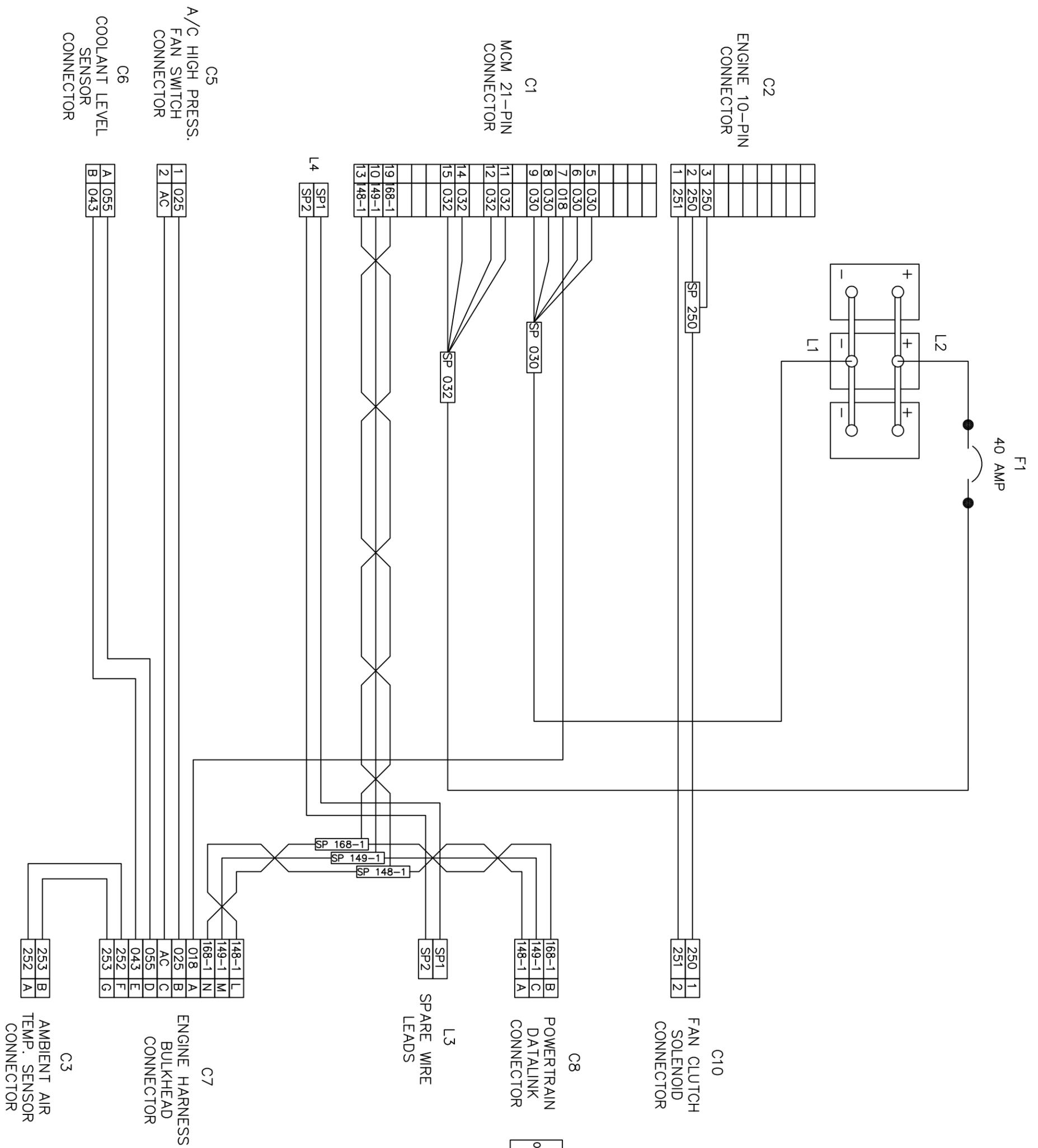
DRAWN BY: MIKE JOHNSON  
 CHECKED BY: MIKE JOHNSON  
 DATE: 15 MAY 2012

TEREX ADVANCE  
 FORT WAYNE, IN 46898

HARNESS, WIRE, ALLISON  
 GEN 5 M113

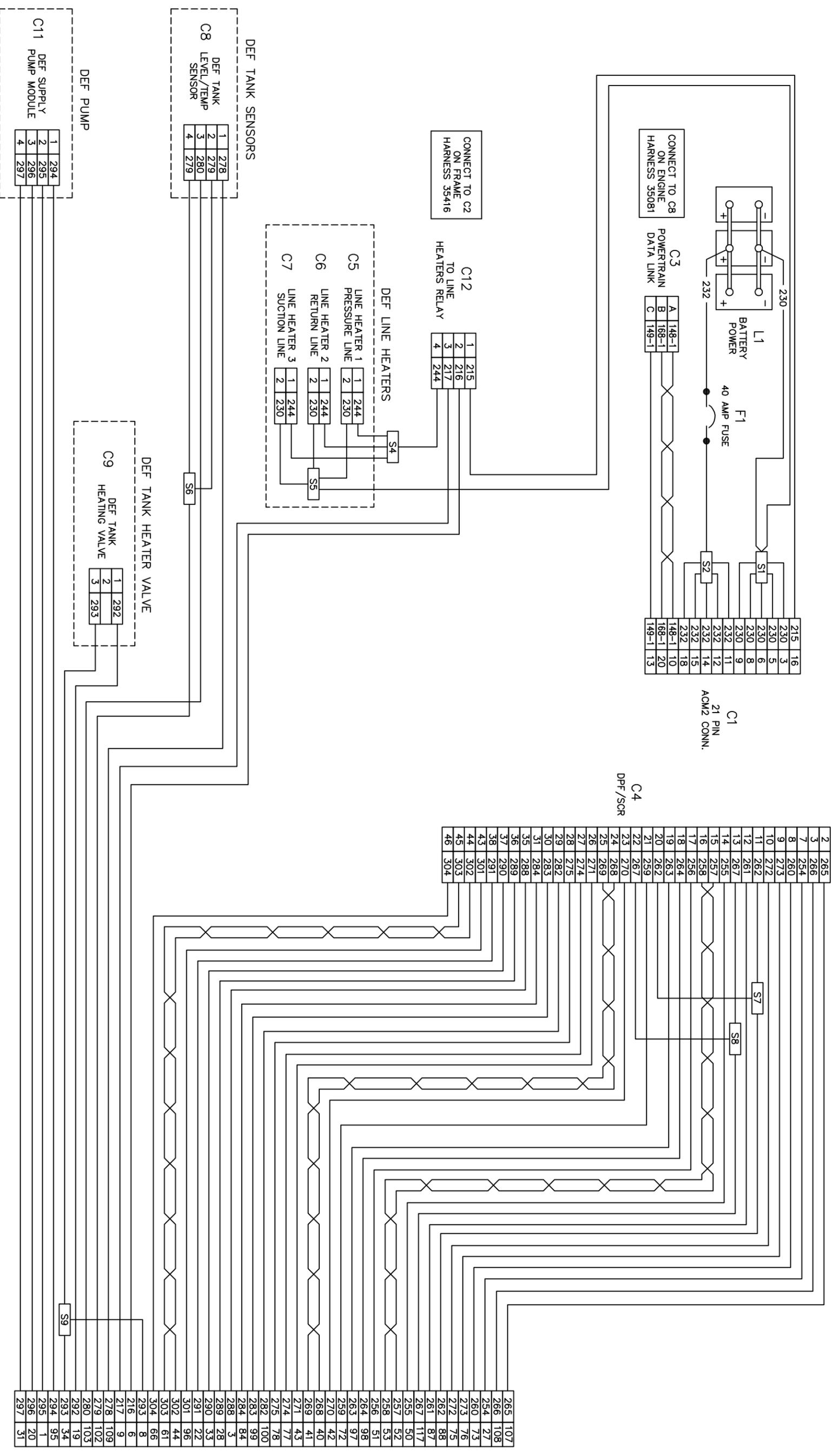
WIRE LENGTH < 100" (±1/4")  
 WIRE LENGTH > 100" (±1/2")  
 WIRE LENGTH > 250" (±1")  
 WIRE LENGTH > 500" (±2")

SHEET OF  
 REV B  
 SCALE  
 PART NUMBER 33491



CONNECT TO C3  
ON AFTERTREATMENT  
HARNESS 35080

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DRAWN BY DCS	DRAWN DATE 2015/04/13
CHECKED BY	APPROVED BY
CAOS SYSTEM	CAGE CODE
<p>ELECTRICAL TOLERANCE STANDARDS          WIRE LENGTH &lt; 100" (±1/4")          WIRE LENGTH &gt; 100" (±1/2")          WIRE LENGTH &gt; 250" (±1")          WIRE LENGTH &gt; 500" (±2")</p>	
<p><b>TEREX   ADVANCE</b>          FORT WAYNE, IN 46898</p>	
<p>TITLE          HARNESS, ENGINE          DD13/MTU (GHG17)</p>	
SHEET 1	OF 1
REV B	SCALE
DWG NO.	PART NUMBER 35081



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DRAWN BY: DCS  
 CHECKED BY: DCS  
 CAD SYSTEM: DCS  
 DATE: 2016/03/11  
 APPROVED BY: FORT WAYNE, IN 46898

**TEREX ADVANCE**  
 HARNESSES, AFTER TREATMENT  
 DD13/MTU (GHG17)

ELECTRICAL TOLERANCE STANDARDS  
 WIRE LENGTH < 100" (±1/4")  
 WIRE LENGTH > 100" (±1/2")  
 WIRE LENGTH > 250" (±1")  
 WIRE LENGTH > 500" (±2")

SHEET OF  
 REV A  
 SCALE  
 PART NUMBER 35080

C1  
COOLANT  
LEVEL SWITCH  
CONNECTOR

A	055
B	043

SP 1

R1  
(1200 OHM)



R2  
(150 OHM)



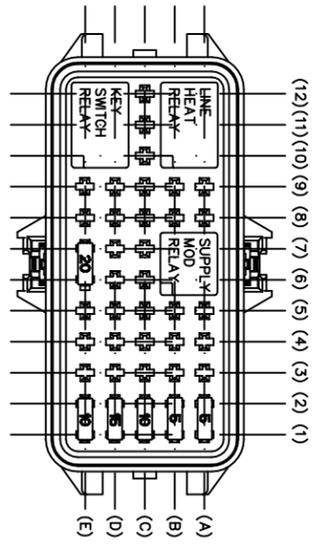
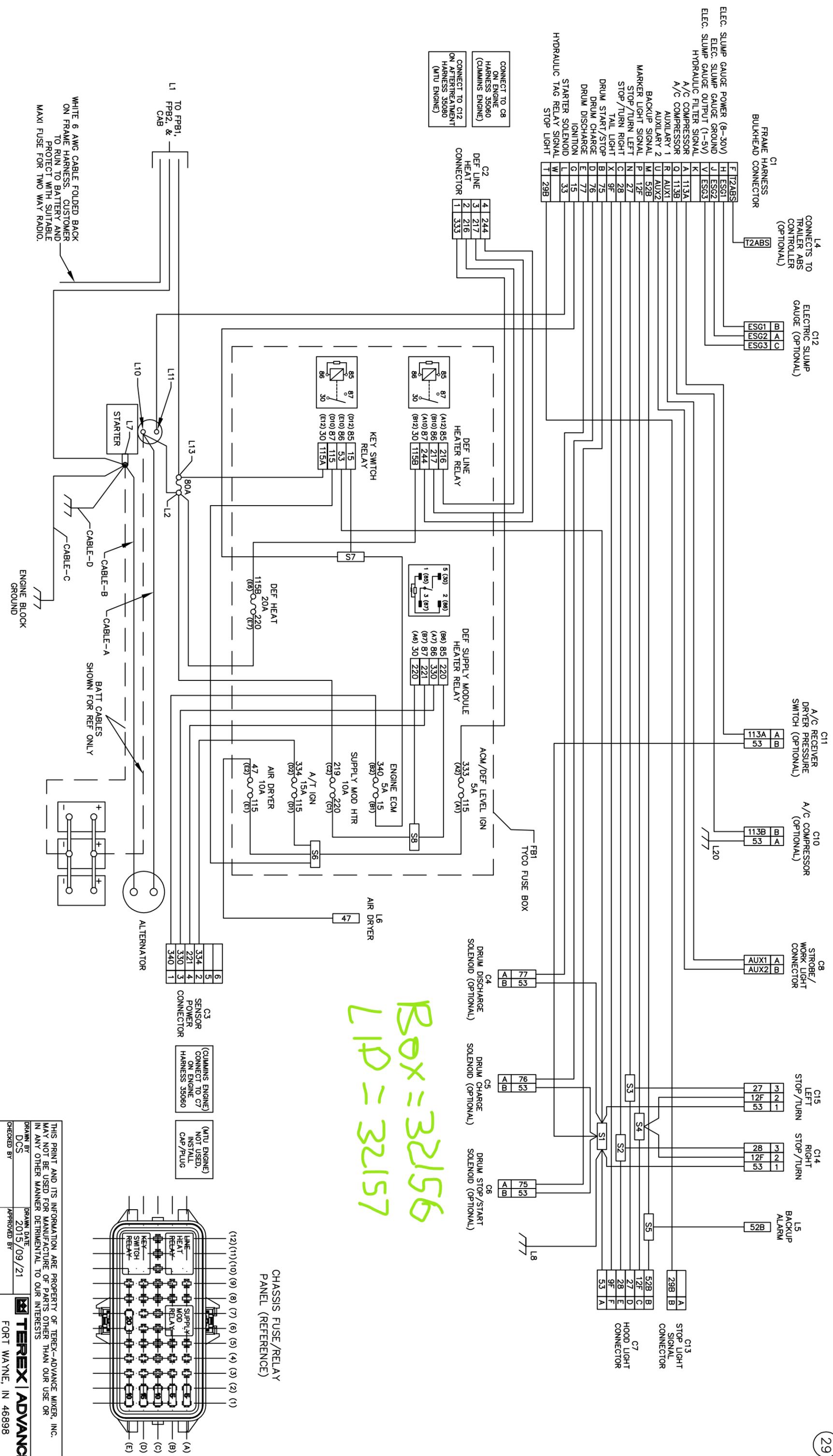
SP 2

055	A
043	B

C2  
COOLANT LEVEL  
CONNECTOR  
(ENGINE HARNESS)

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DRAWN BY DCS	DRAWN DATE 2015/05/05	<b>TEREX   ADVANCE</b> FORT WAYNE, IN 46898	
CHECKED BY	APPROVED BY		
CAD SYSTEM	CAGE CODE	TITLE HARNESS, COOLANT LEVEL RESISTOR, DD13/MTU (GHG17)	
ELECTRICAL TOLERANCE STANDARDS		SHEET OF	REV NR SCALE
WIRE LENGTH < 100" (±1/4")		DWG NO.	PART NUMBER 35104
WIRE LENGTH > 100" (±1/2")			
WIRE LENGTH > 250" (±1")			
WIRE LENGTH > 500" (±2")			





35613 REV-A

WHITE 6 AWG CABLE FOLDED BACK ON FRAME HARNESS. CUSTOMER TO RUN TO BATTERY AND PROTECT WITH SUITABLE MAXI FUSE FOR TWO WAY RADIO.

CHASSIS GROUND

ENGINE BLOCK GROUND

CONNECT TO C8 ON ENGINE HARNESS 35060 (CUMMINS ENGINE)

CONNECT TO C12 ON AFTERINSTALLMENT HARNESS 36090 (MTU ENGINE)

CONNECT TO C8 ON ENGINE HARNESS 35060 (CUMMINS ENGINE)

CONNECT TO C12 ON AFTERINSTALLMENT HARNESS 36090 (MTU ENGINE)

CONNECT TO C7 ON ENGINE HARNESS 35060 (CUMMINS ENGINE)

NOT USED. INSTALL CAP/PLUG (MTU ENGINE)

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DRAWN BY: DCS  
 CHECKED BY: DCS  
 CAD SYSTEM: DCS  
 DATE: 2015/09/21

TEREX ADVANCE  
 FORT WAYNE, IN 46898

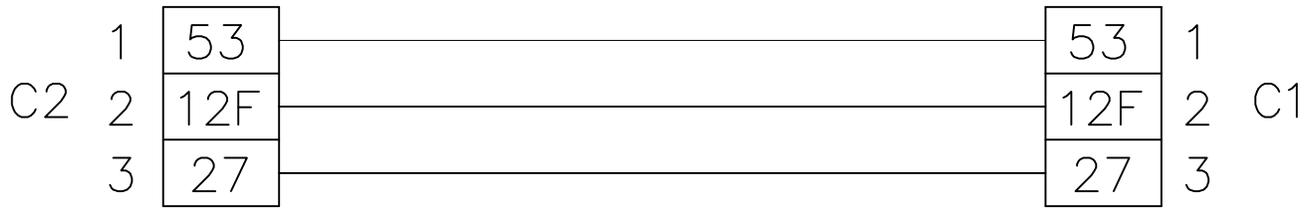
TITLE: HARNESS, FRAME  
 MTU GHG17 & CUMMINS 2016

ELECTRICAL TOLERANCE STANDARDS:  
 WIRE LENGTH < 100" (+1/4")  
 WIRE LENGTH > 100" (+1/2")  
 WIRE LENGTH > 250" (+1")  
 WIRE LENGTH > 500" (+2")

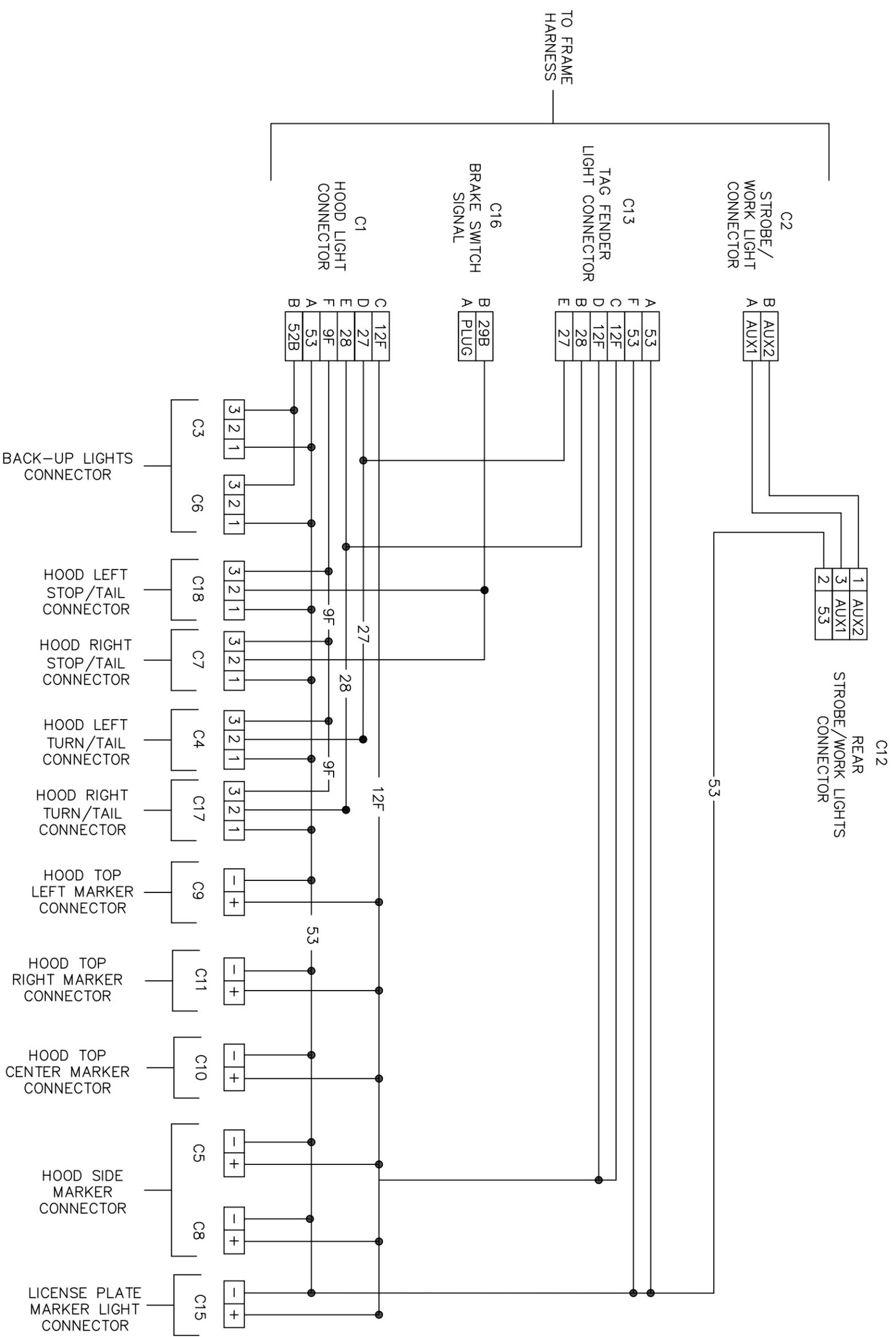
SHEET OF  
 REV NR  
 SCALE  
 DWG NO. PART NUMBER 35416



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DRAWN BY PKW	DRAWN DATE 2005/04/27	<b>TEREX   ADVANCE</b> FORT WAYNE, IN 46898	
CHECKED BY	APPROVED BY		
CAD SYSTEM	CAGE CODE	TITLE HARNES, CBSD REAR LIGHT STOP/TAI/TURN	
ELECTRICAL TOLERANCE STANDARDS		SHEET OF	
WIRE LENGTH < 100" (±1/4")		REV B SCALE	
WIRE LENGTH > 100" (±1/2")		DWG NO.	
WIRE LENGTH > 250" (±1")		PART NUMBER	
WIRE LENGTH > 500" (±2")		27753	



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DRAWN BY PKW	DRAWN DATE 2005/04/27	<b>TEREX   ADVANCE</b> FORT WAYNE, IN 46898	
CHECKED BY	APPROVED BY		
CAD SYSTEM	CAGE CODE	TITLE HARNES, RSD REAR LIGHT STOP/TAI/TURN	
ELECTRICAL TOLERANCE STANDARDS			
WIRE LENGTH < 100" (±1/4")			
WIRE LENGTH > 100" (±1/2")			
WIRE LENGTH > 250" (±1")			
WIRE LENGTH > 500" (±2")			
SHEET	OF	REV A	SCALE
DWG NO.	PART NUMBER 27752		

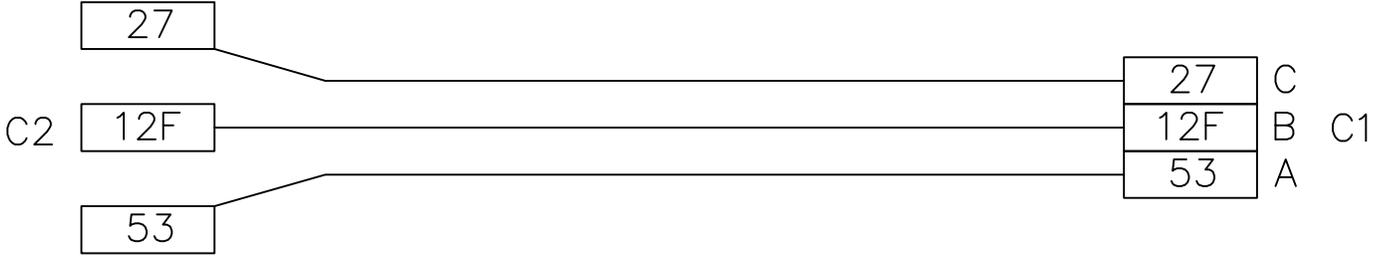


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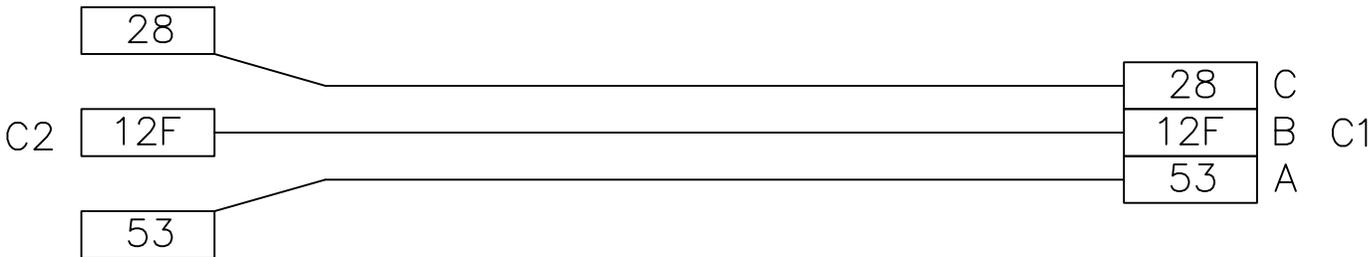
DRAWN BY: RAW  
 CHECKED BY: RAW  
 CAD SYSTEM:   
 DATE: 2012/08/06  
 APPROVED BY:   
 CAGE CODE:   
 TITLE: HARNNESS, HOOD

TEREX ADVANCE  
 FORT WAYNE, IN 46898

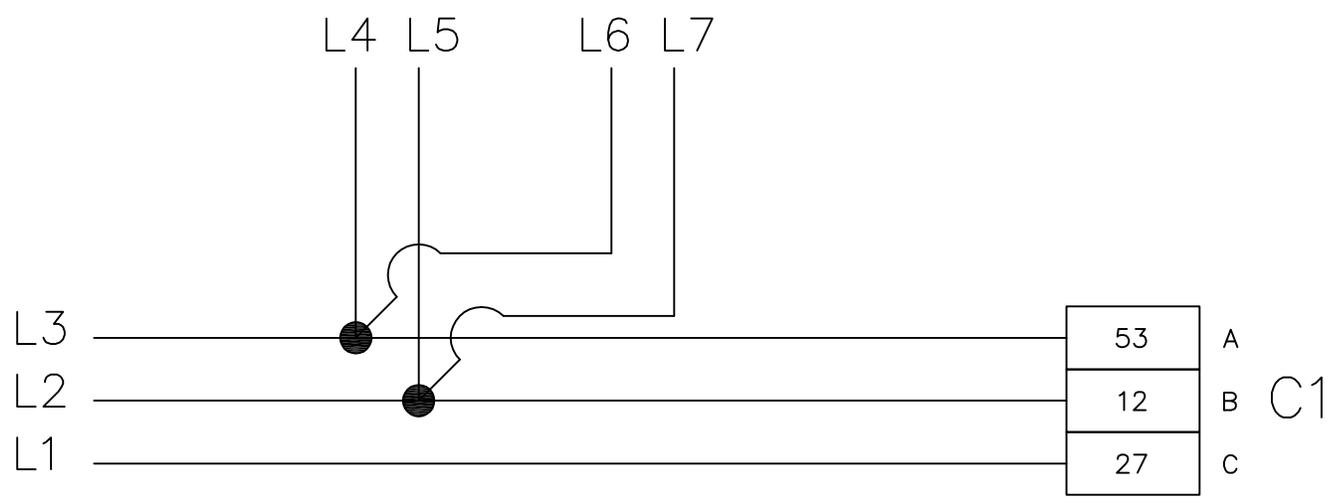
ELECTRICAL TOLERANCE STANDARDS  
 WIRE LENGTH < 100" (±1/4")  
 WIRE LENGTH > 100" (±1/2")  
 WIRE LENGTH > 250" (±1")  
 WIRE LENGTH > 500" (±2")



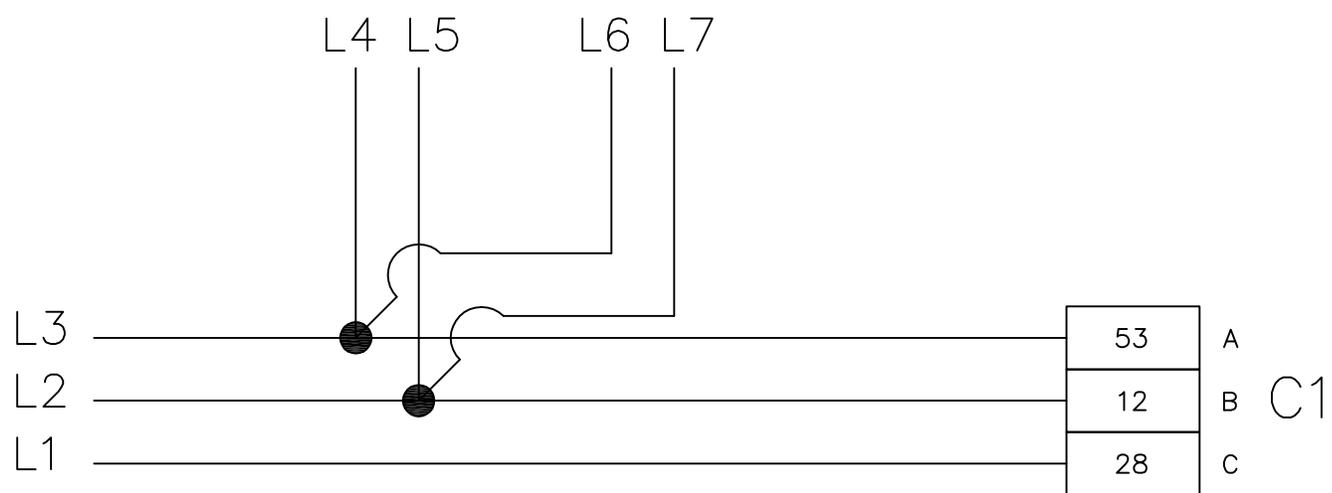
THIS PRINT AND ITS INFORMATION ARE PROPERTY OF TEREX-ADVANCE MIXER, INC. MAY NOT BE USED FOR MANUFACTURE OF PARTS OTHER THAN OUR USE OR IN ANY OTHER MANNER DETRIMENTAL TO OUR INTERESTS			
DRAWN BY PKW	DRAWN DATE 2007/03/06	<b>TEREX   ADVANCE</b> FORT WAYNE, IN 46898	
CHECKED BY	APPROVED BY		
CAD SYSTEM	CAGE CODE	TITLE HARNESS, LEFT STOP/TURN LIGHT TAG FENDER	
ELECTRICAL TOLERANCE STANDARDS		SHEET OF	
WIRE LENGTH < 100" (±1/4")		REV B SCALE	
WIRE LENGTH > 100" (±1/2")		DWG NO.	
WIRE LENGTH > 250" (±1")		PART NUMBER	
WIRE LENGTH > 500" (±2")		30420	



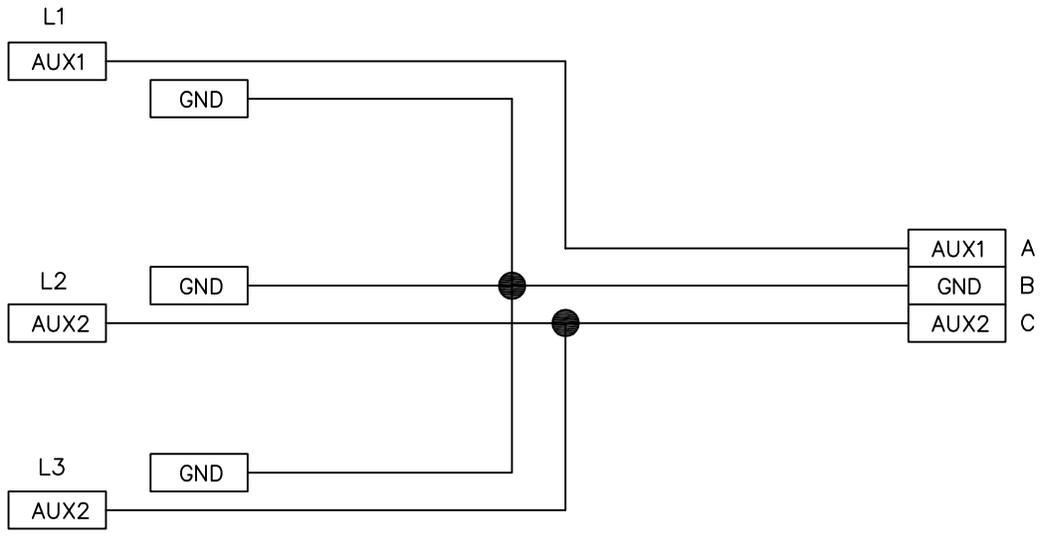
THIS PRINT AND ITS INFORMATION ARE PROPERTY OF TEREX-ADVANCE MIXER, INC. MAY NOT BE USED FOR MANUFACTURE OF PARTS OTHER THAN OUR USE OR IN ANY OTHER MANNER DETRIMENTAL TO OUR INTERESTS			
DRAWN BY PKW	DRAWN DATE 2007/03/06	<b>TEREX   ADVANCE</b> FORT WAYNE, IN 46898	
CHECKED BY	APPROVED BY		
CAD SYSTEM	CAGE CODE	TITLE HARNESS, RIGHT STOP/TURN LIGHT TAG FENDER	
ELECTRICAL TOLERANCE STANDARDS		SHEET OF	
WIRE LENGTH < 100" (±1/4")		REV B SCALE	
WIRE LENGTH > 100" (±1/2")		DWG NO.	
WIRE LENGTH > 250" (±1")		PART NUMBER	
WIRE LENGTH > 500" (±2")		30419	



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DRAWN BY KMY	DRAWN DATE 2006/11/30	<b>TEREX   ADVANCE</b> FORT WAYNE, IN 46898	
CHECKED BY	APPROVED BY		
CAD SYSTEM	CAGE CODE	TITLE HARNESS, RDS TAG FENDER MARKER/STOP/TURN	
ELECTRICAL TOLERANCE STANDARDS		SHEET	OF
WIRE LENGTH < 100" (±1/4")		REV	SCALE
WIRE LENGTH > 100" (±1/2")		DWG NO.	PART NUMBER
WIRE LENGTH > 250" (±1")		30186	
WIRE LENGTH > 500" (±2")			



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DRAWN BY KMY	DRAWN DATE 2006/11/30	<b>TEREX   ADVANCE</b> FORT WAYNE, IN 46898	
CHECKED BY	APPROVED BY		
CAD SYSTEM	CAGE CODE	TITLE HARNES, CBSD TAG FENDER MARKER/STOP/TURN	
ELECTRICAL TOLERANCE STANDARDS		SHEET	OF
WIRE LENGTH < 100" (±1/4")		REV	SCALE
WIRE LENGTH > 100" (±1/2")		NR	
WIRE LENGTH > 250" (±1")		DWG NO.	PART NUMBER
WIRE LENGTH > 500" (±2")			30187



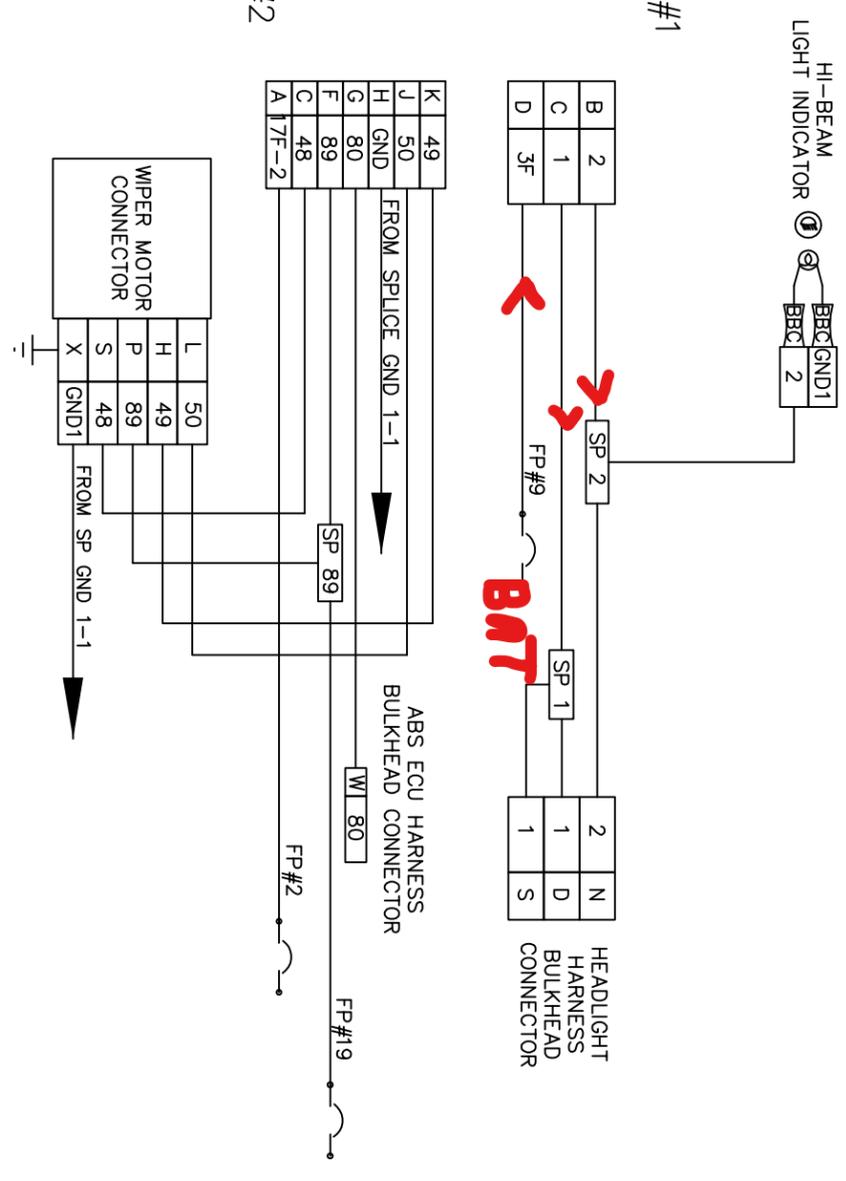
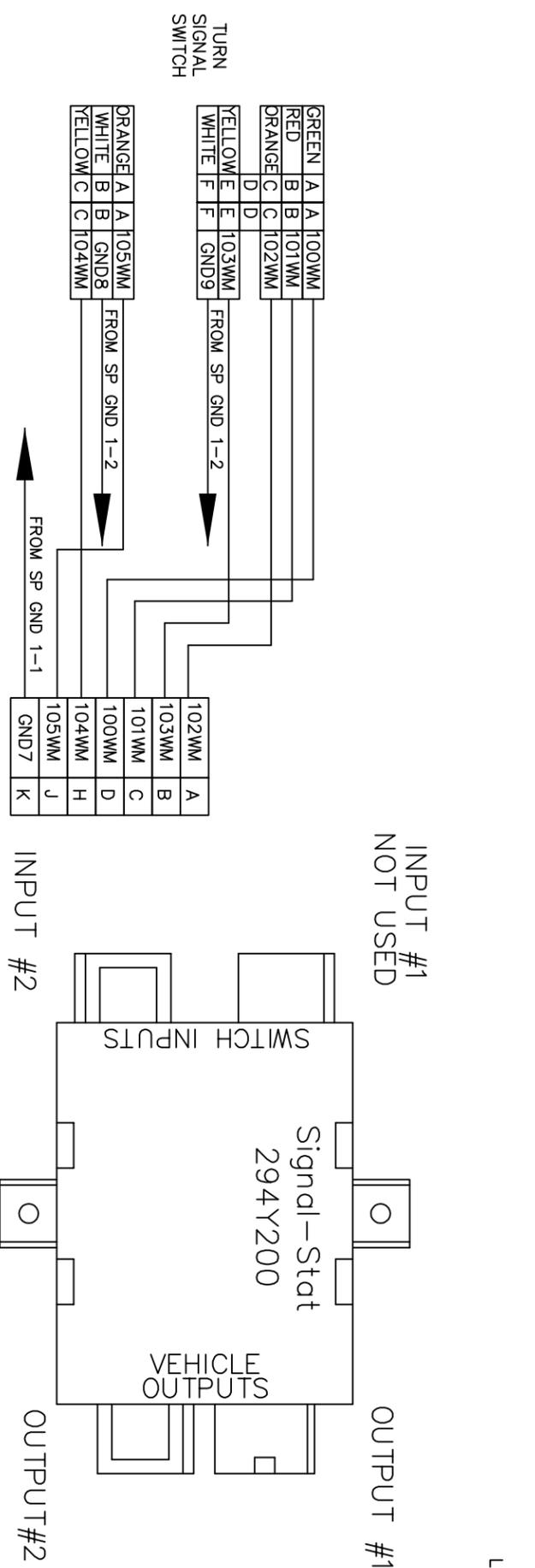
C1  
 REAR STROBE/  
 WORK LIGHTS  
 CONNECTOR

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DRAWN BY PKW	DRAWN DATE 2005/09/12	<b>TEREX   ADVANCE</b> FORT WAYNE, IN 46898	
CHECKED BY	APPROVED BY		
CAD SYSTEM	CAGE CODE	TITLE HARNES, HOOD STROBE/ WORKLIGHT	
ELECTRICAL TOLERANCE STANDARDS			
WIRE LENGTH < 100" (±1/4")			
WIRE LENGTH > 100" (±1/2")			
WIRE LENGTH > 250" (±1")			
WIRE LENGTH > 500" (±2")			
SHEET	OF	REV C	SCALE
DWG NO.	PART NUMBER 28664		









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DRAWN BY: DCS  
 CHECKED BY: DCS  
 DRAWN DATE: 2015/08/28  
 APPROVED BY: FORT WAYNE, IN 46898

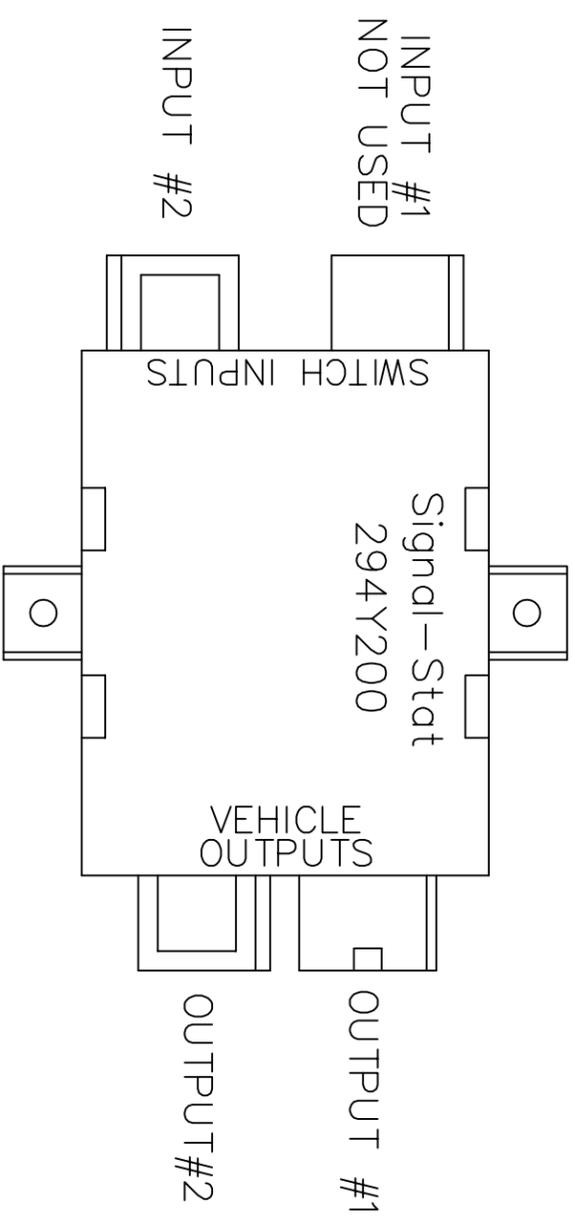
ELECTRICAL TOLERANCE STANDARDS		TITLE	
WIRE LENGTH < 100" (±1/4")		SIGNAL-STAT MODULE (REFERENCE)	
WIRE LENGTH > 100" (±1/2")		SHEET	OF
WIRE LENGTH > 250" (±1")		REV	SCALE
WIRE LENGTH > 500" (±2")		DWG NO.	PART NUMBER

INPUT CONNECTOR #1

\*NOT USED\*

INPUT CONNECTOR #2

- A) WIPER SWITCH C
- B) WIPER SWITCH D (WASH)
- C) WIPER SWITCH B
- D) WIPER SWITCH A
- E) NOT USED
- F) NOT USED
- G) NOT USED
- H) LIFT TO DIM INPUT
- J) FLASH TO PASS INPUT
- K) GROUND



OUTPUT CONNECTOR #1

- A) NOT USED
- B) HIGH BEAM OUTPUT
- C) LOW BEAM OUTPUT
- D) HEADLAMP POWER INPUT

OUTPUT CONNECTOR #2

- A) IGNITION SWITCH
- B) NOT USED
- C) PARK RETURN INPUT
- D) NOT USED
- E) NOT USED
- F) BATTERY POWER INPUT
- G) WASH MOTOR OUTPUT
- H) GROUND
- J) LOW SPEED WIPER MOTOR OUTPUT
- K) HIGH SPEED WIPER MOTOR OUTPUT

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DRAWN BY DCS  
CHECKED BY  
DATE 2014/11/24

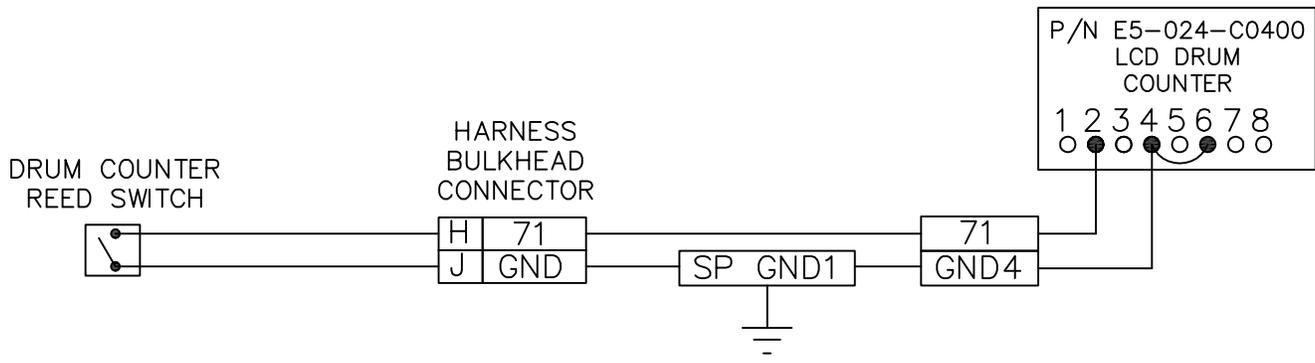
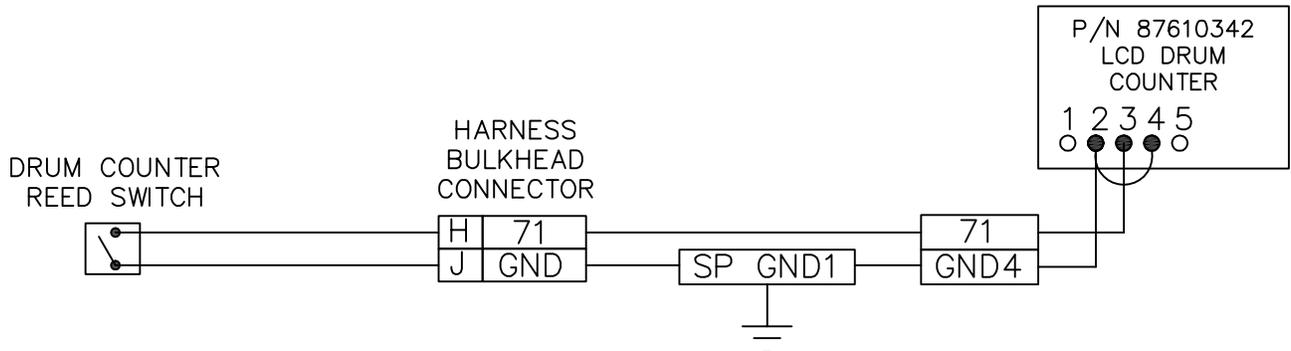
APPROVED BY  
DATE 2014/11/24

CAGE CODE

**TEREX | ADVANCE**  
FORT WAYNE, IN 46898

TITLE  
SIGNAL-STAT PIN-OUTS  
(REFERENCE)

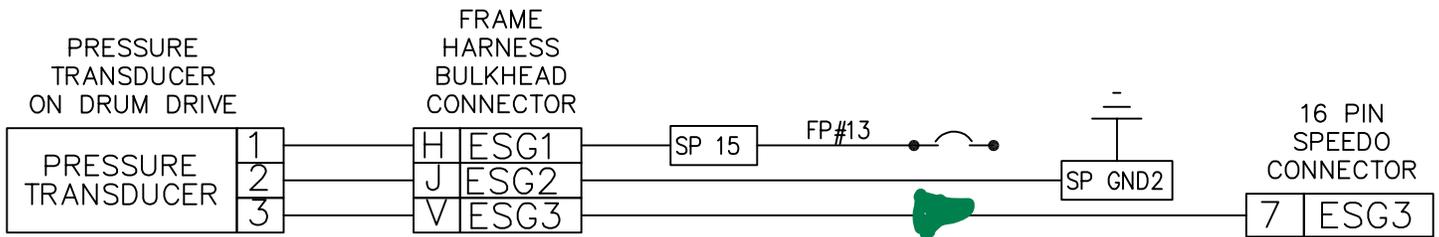
ELECTRICAL TOLERANCE STANDARDS		SHEET	OF	REV	SCALE
WIRE LENGTH < 100" (±1/4")					
WIRE LENGTH > 100" (±1/2")					
WIRE LENGTH > 250" (±1")					
WIRE LENGTH > 500" (±2")					
		DWG NO.		PART NUMBER	



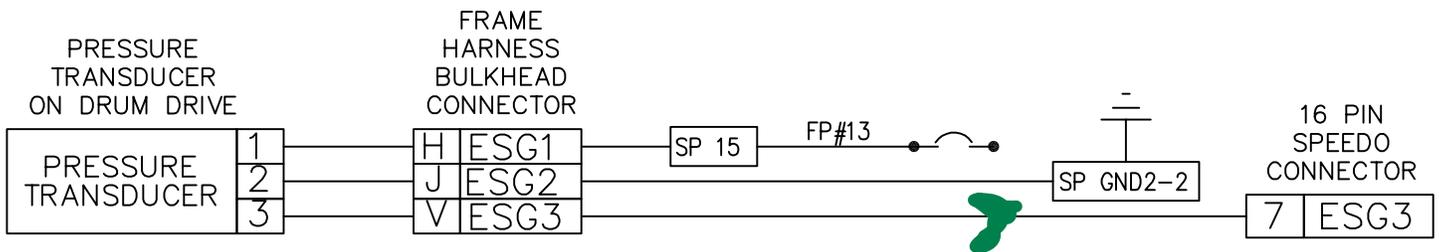
THIS PRINT AND ITS INFORMATION ARE PROPERTY OF TEREX-ADVANCE MIXER, INC. MAY NOT BE USED FOR MANUFACTURE OF PARTS OTHER THAN OUR USE OR IN ANY OTHER MANNER DETRIMENTAL TO OUR INTERESTS			
DRAWN BY DCS	DRAWN DATE 2016/03/10	<b>TEREX   ADVANCE</b> FORT WAYNE, IN 46898	
CHECKED BY	APPROVED BY		
CAD SYSTEM	CAGE CODE	TITLE DRUM COUNTER (REFERENCE)	
ELECTRICAL TOLERANCE STANDARDS		SHEET	OF
WIRE LENGTH < 100" (±1/4")		REV	SCALE
WIRE LENGTH > 100" (±1/2")		DWG NO.	PART NUMBER
WIRE LENGTH > 250" (±1")			
WIRE LENGTH > 500" (±2")			

# ESG-3 = 1 TO 5 VOLTS

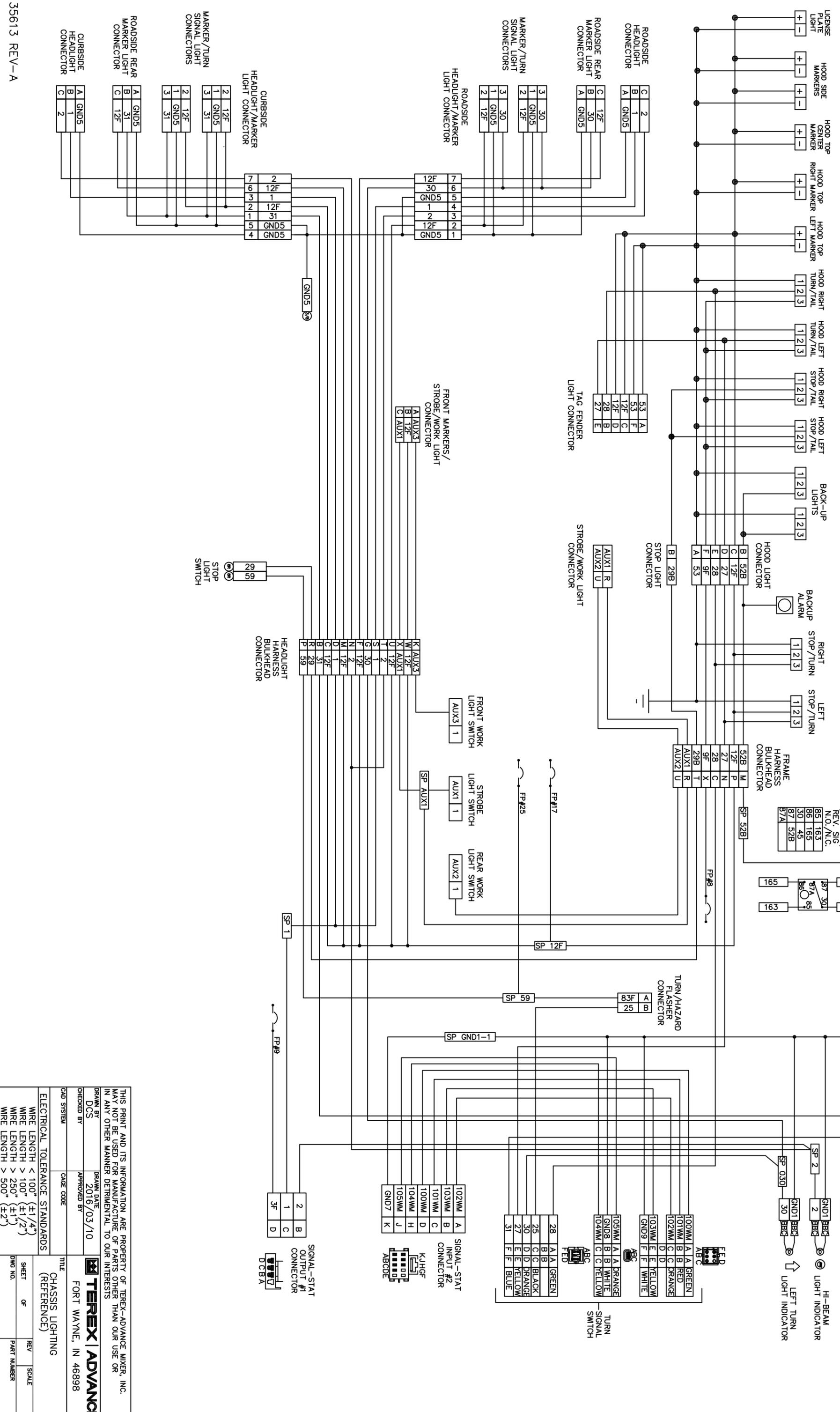
## FD WITH MTU ENGINE



## FD WITH CUMMINS ENGINE



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DRAWN BY DCS	DRAWN DATE 2015/08/28	<b>TEREX   ADVANCE</b> FORT WAYNE, IN 46898	
CHECKED BY	APPROVED BY		
CAD SYSTEM	CAGE CODE	TITLE ELECTRIC SLUMP GAUGE (REFERENCE)	
ELECTRICAL TOLERANCE STANDARDS			
WIRE LENGTH < 100" (±1/4")			
WIRE LENGTH > 100" (±1/2")			
WIRE LENGTH > 250" (±1")			
WIRE LENGTH > 500" (±2")			
SHEET	OF	REV	SCALE
DWG NO.		PART NUMBER	



35613 REV-A

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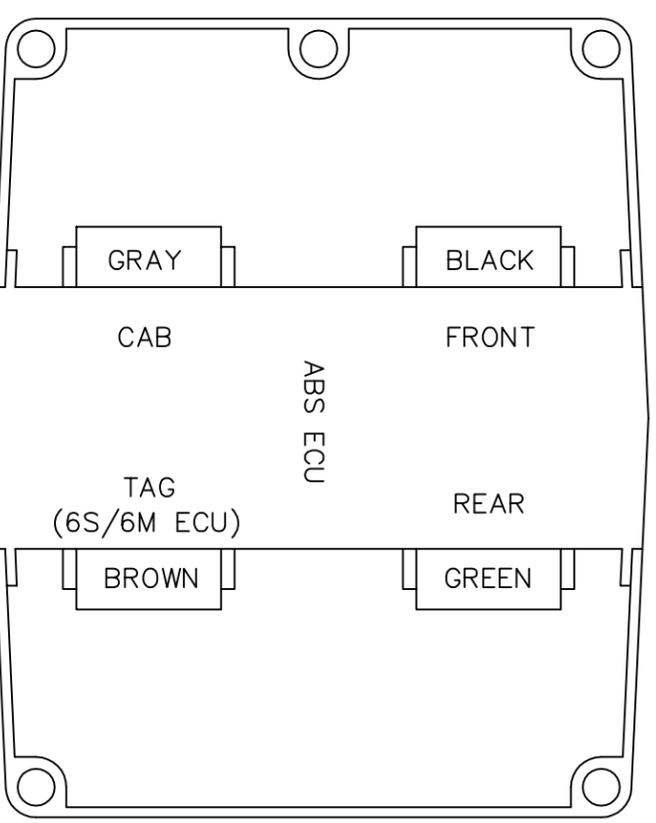
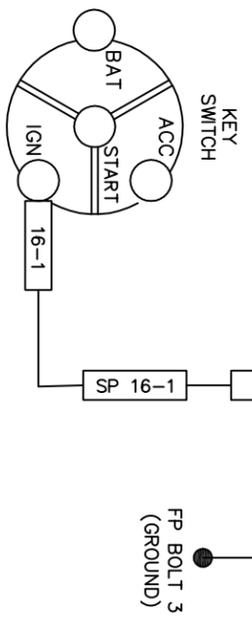
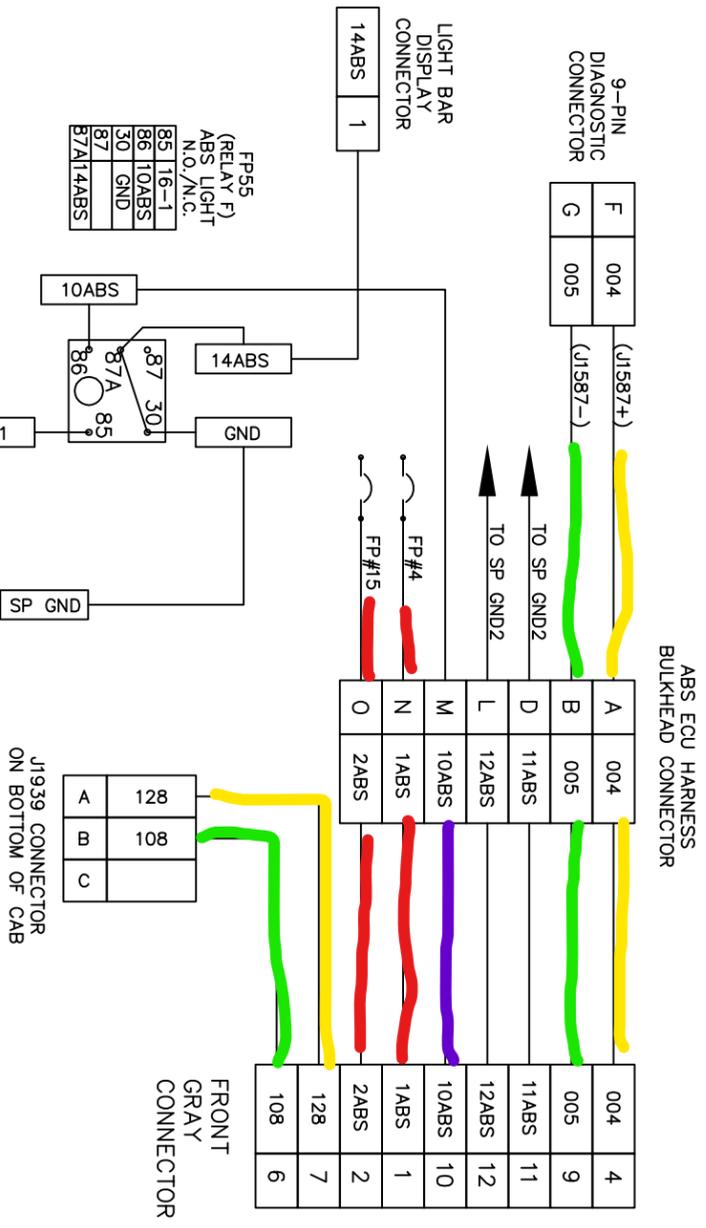
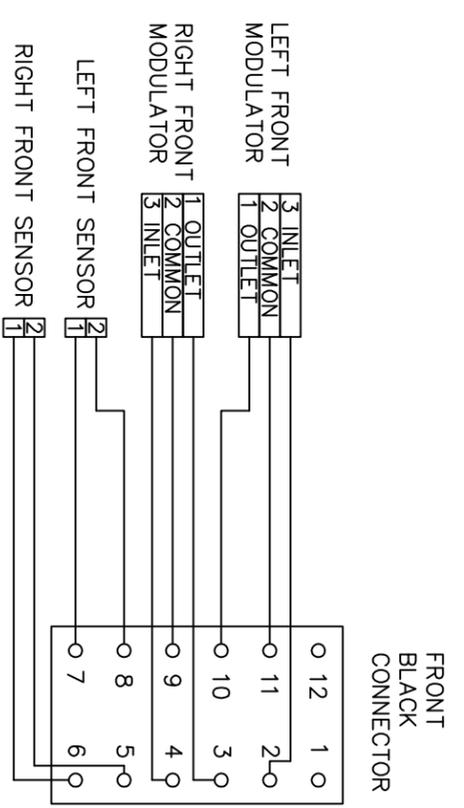
DRAWN BY: DCS  
 CHECKED BY: DCS  
 CAD SYSTEM: DCS

DRAWN DATE: 2016/03/10  
 APPROVED BY: [Signature]

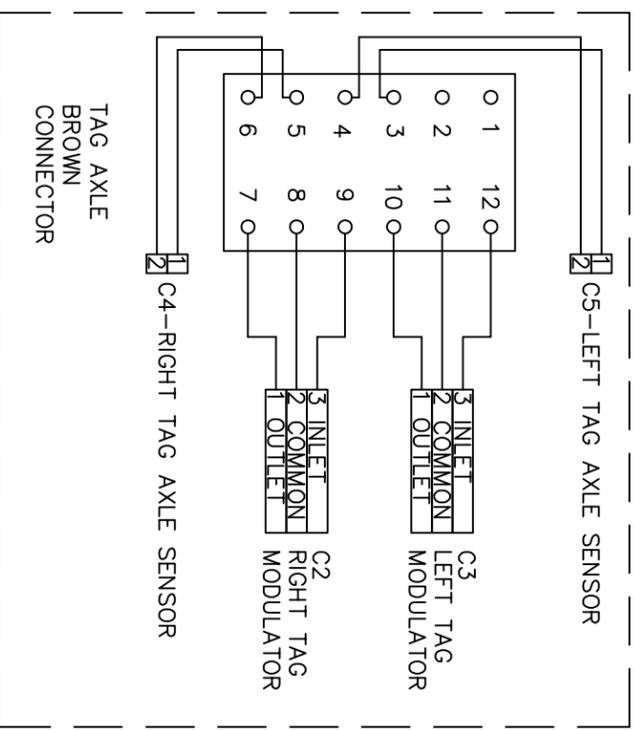
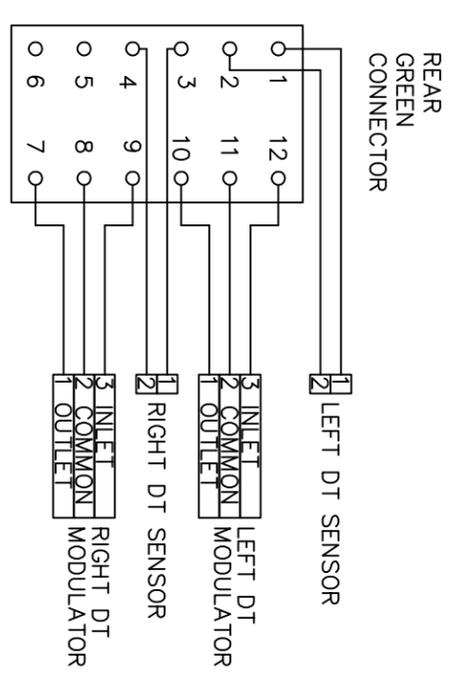
TITLE: CHASSIS LIGHTING (REFERENCE)  
 FORT WAYNE, IN 46898

ELECTRICAL TOLERANCE STANDARDS:  
 WIRE LENGTH < 100" (±1/4")  
 WIRE LENGTH > 100" (±1/2")  
 WIRE LENGTH > 250" (±1")  
 WIRE LENGTH > 500" (±2")

SHEET OF  
 REV SCALE  
 PART NUMBER



ABS ECU LOCATED  
ON FIRST CROSSMEMBER  
BEHIND CAB

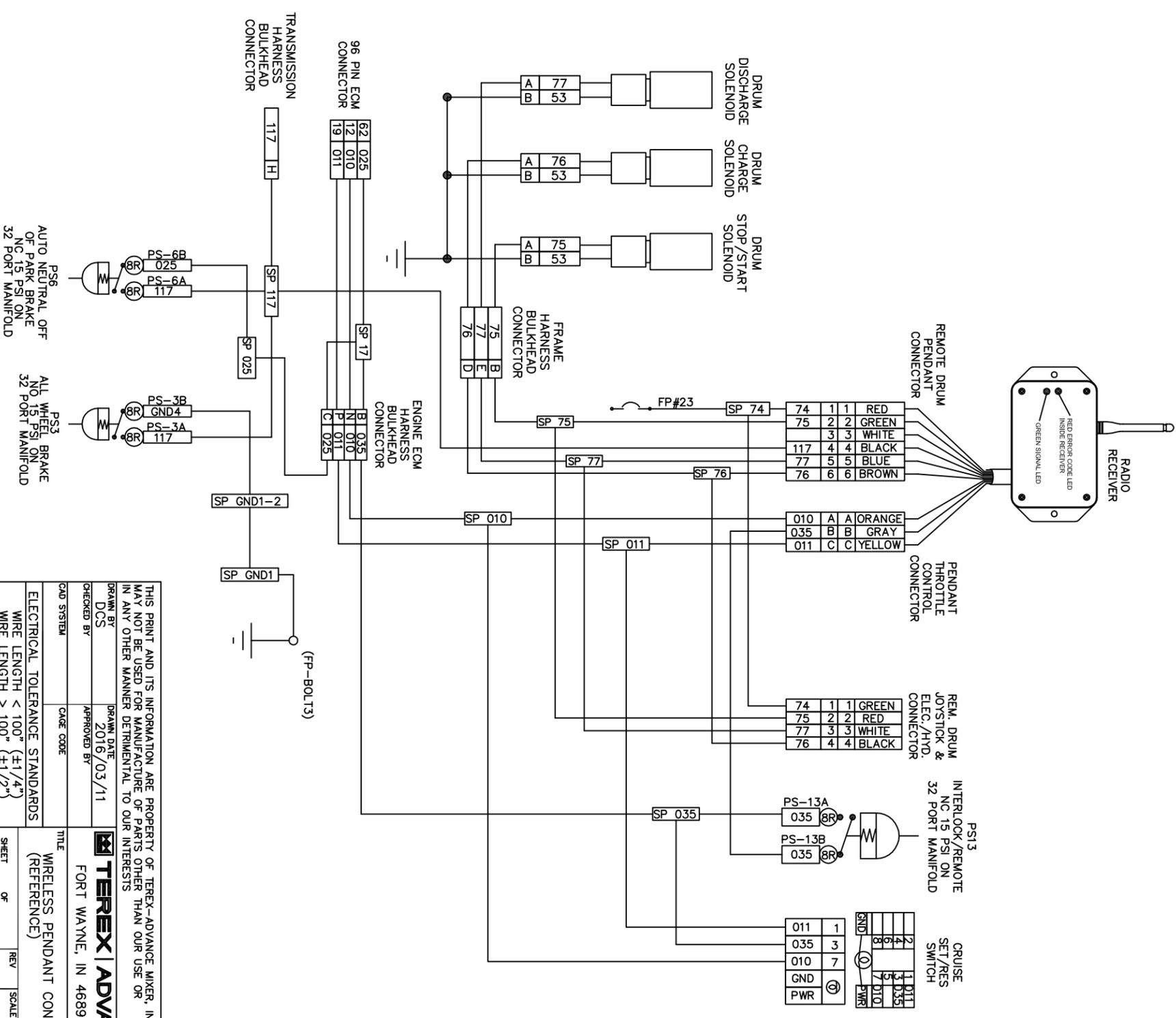
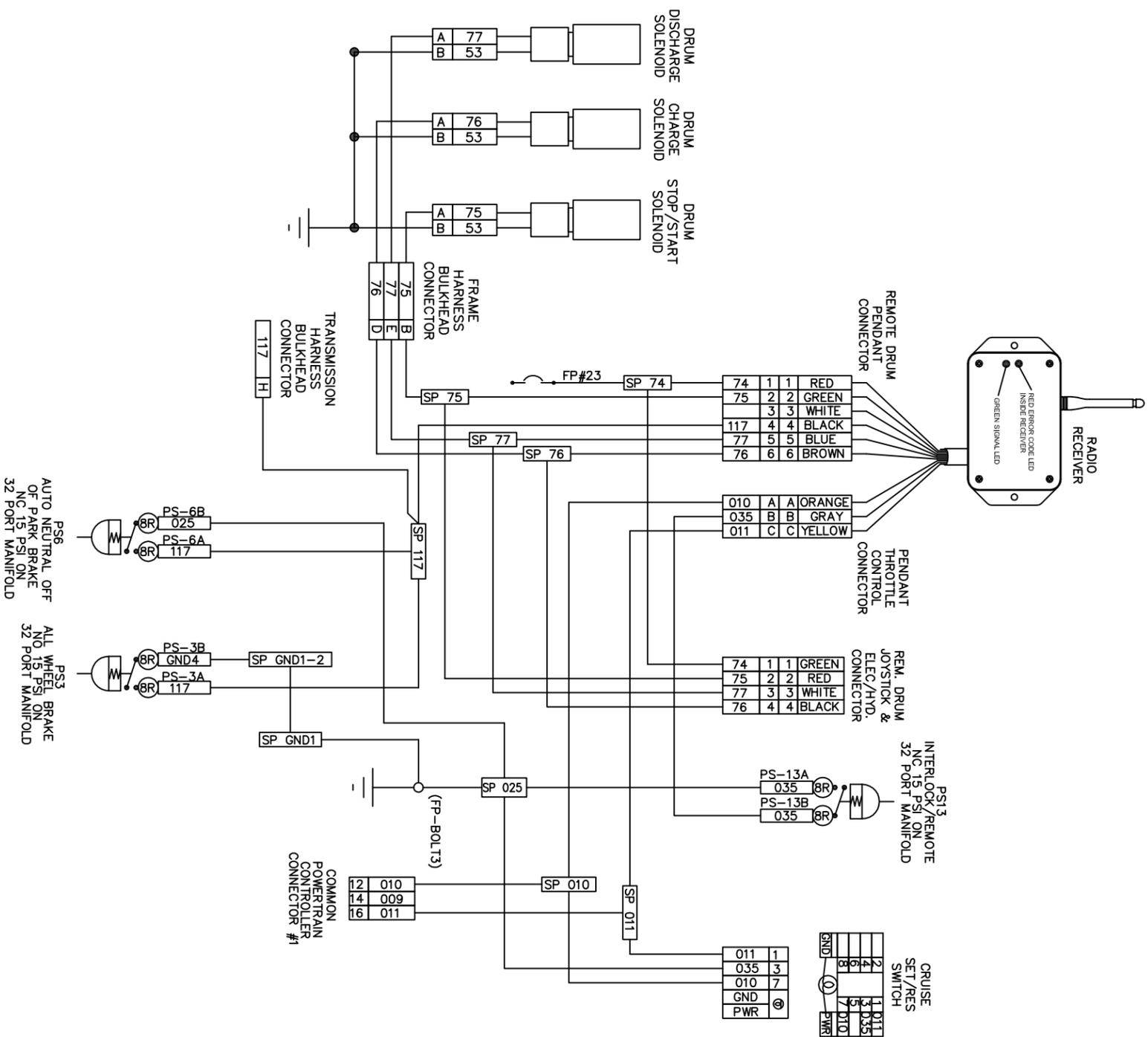


\*TAG AXLE ABS (6S/6M SYSTEM) IS OPTIONAL  
\*4S/4M & 6S/6M ARE DIFFERENT ABS ECUS

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DRAWN BY DCS	DATE 2016/03/11	TEREX ADVANCE	TITLE FORT WAYNE, IN 46898
CAD SYSTEM	CAGE CODE	WABCO 4S/4M & 6S/6M ABS (REFERENCE)	
ELECTRICAL TOLERANCE STANDARDS		SHEET	OF
WIRE LENGTH < 100" (±1/4")		REV	SCALE
WIRE LENGTH > 100" (±1/2")		DWG NO.	PART NUMBER
WIRE LENGTH > 250" (±1")			
WIRE LENGTH > 500" (±2")			





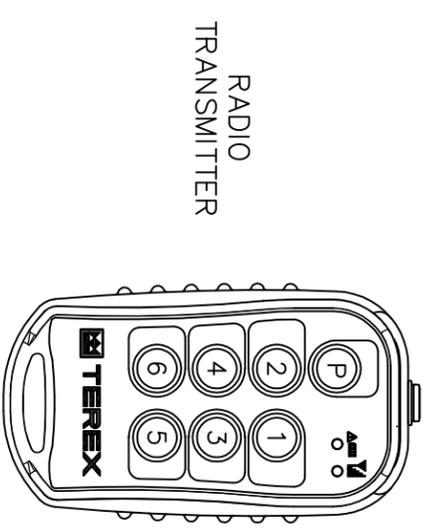
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DRAWN BY: DCS  
 CHECKED BY: [Signature]  
 DATE: 2016/03/11

TEREX ADVANCE  
 FORT WAYNE, IN 46898

WIRELESS PENDANT CONTROL (REFERENCE)

WIRE LENGTH < 100" (±1/4")	SHEET	OF	REV	SCALE
WIRE LENGTH > 100" (±1/2")	DWG NO.		PART NUMBER	
WIRE LENGTH > 250" (±1")				
WIRE LENGTH > 500" (±2")				

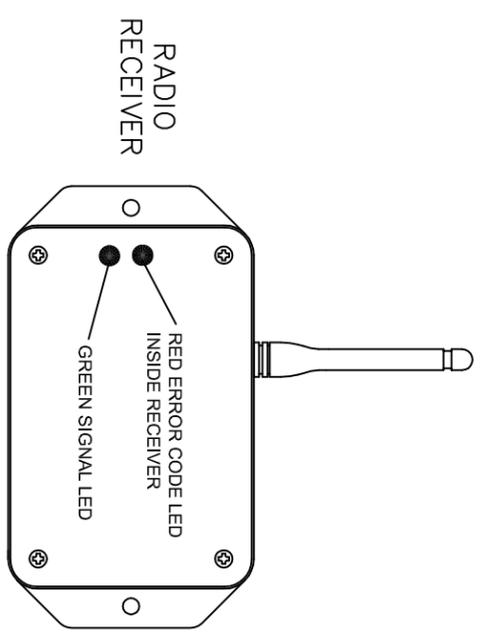


RADIO TRANSMITTER

TRANSMITTER ERROR CODE CHART

ERROR CODE	PROBABLE CAUSE
1	LOW BATTERY

ERROR CODE NUMBER IS THE NUMBER OF RED LIGHT BLINKS BETWEEN EVERY PAUSE.



RADIO RECEIVER

RECEIVER ERROR CODE CHART

ERROR CODE	PROBABLE CAUSE
1	RF COMMUNICATION PROBLEM
2	ACCESSORY OUTPUT ERROR
3	DRUM STOP OUTPUT ERROR
4	DRUM DISCHARGE OUTPUT ERROR
5	DRUM CHARGE OUTPUT ERROR
6	ENGINE HIGH OUTPUT ERROR
7	ENGINE LOW OUTPUT ERROR

ERROR CODE NUMBER IS THE NUMBER OF RED LIGHT BLINKS BETWEEN EVERY PAUSE.

**OPERATION**

- Press and hold the POWER button for at least 2 seconds and release
- The transmitter is designed with a power saving feature which turns the transmitter off after 15 minutes if no buttons are pressed.
- There are red and green LEDs both on the keypad of the transmitter and inside the receiver case. The green LED will blink 2 times per second when the transmitter and receiver are communicating. It will blink 1 time per second if there is no communication (i.e. - no power to the receiver)
- The red LED on the transmitter and in the receiver will blink if there is a shorted or open output. Refer to the ERROR CODE CHART tables and count the number of blinks to determine the output with the fault
- The transmitter's red LED blinks 1 time per second if the batteries are low and need to be replaced. To confirm a low battery condition, turn the receiver off and leave the transmitter on. If the transmitter red LED continues to blink, the battery is low and requires charging. If the red LED blinks only when the receiver is on, there is a fault with one or more outputs, as stated above
- The red LED will stay on while charging and when the charge is completed the green LED will stay on.
- It will take longer to charge if the transmitter is on during charging.

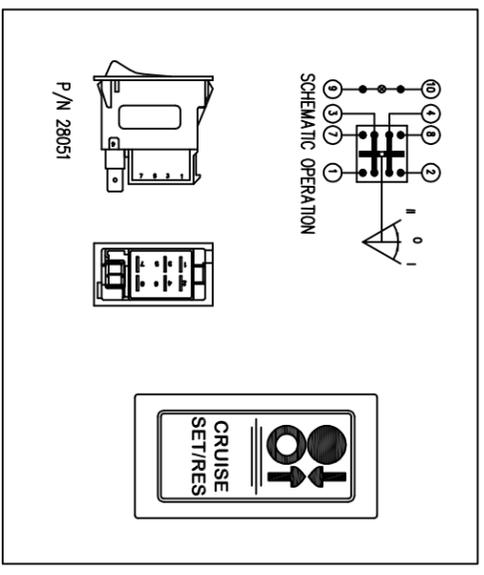
**SYNCHRONIZING TRANSMITTER AND RECEIVER**

There are over 64000 different addresses (ID codes) available for each transmitter and receiver pair. Each transmitter and receiver pair is synchronized together at the factory. If a new transmitter is needed, synchronizing is required. use the following procedure:

1. Turn off both transmitter and receiver.
2. Press and hold the POWER button on the transmitter for more than 10 seconds until the Red and Green LEDs begin to blink
3. Apply power to the receiver
4. Wait for a few seconds until the green LEDs begin to blink
5. Teach complete

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DRAWN BY MIKE JOHNSON	PRAM. DATE 03 DEC 2013	<p>TEREX   ADVANCE FORT WAYNE, IN 46898</p>
CHECKED BY MIKE JOHNSON	APPROVED BY	
CAD SYSTEM	CAGE CODE	TITLE WIRELESS PENDANT (REFERENCE)
ELECTRICAL TOLERANCE STANDARDS		SHEET OF
WIRE LENGTH < 100" (±1/4")		REV
WIRE LENGTH > 100" (±1/2")		SCALE
WIRE LENGTH > 250" (±1")		DWG NO.
WIRE LENGTH > 500" (±2")		PART NUMBER



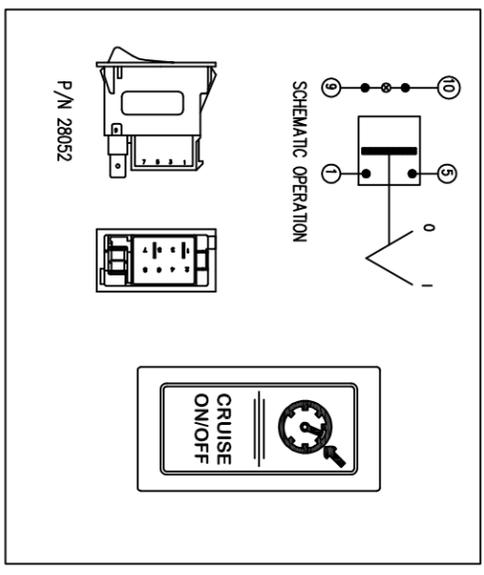
CRUISE SET/RES

011	1	2
035	3	4
010	5	6
	7	8
PWR		GND

1	011
3	035
7	010
Ⓟ	GND
	PWR

PENDANT THROTTLE CONTROL CONNECTOR

WHITE	A	A	010
BLACK	B	B	035
GREEN	C	C	011

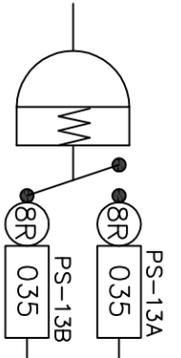


CRUISE ON/OFF

009	1	2
035	3	4
	5	6
	7	8

1	009
5	035
Ⓟ	GND
	PWR

PS13 INTERLOCK/REMOTE NC 15 PSI ON 32 PORT MANIFOLD

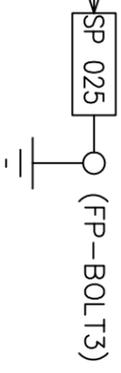


COMMON POWERTRAIN CONTROLLER 18 PIN CONNECTOR #1

COMMON POWERTRAIN CONTROLLER 18 PIN CONNECTOR #2

010	12
009	14
011	16

009	9
-----	---

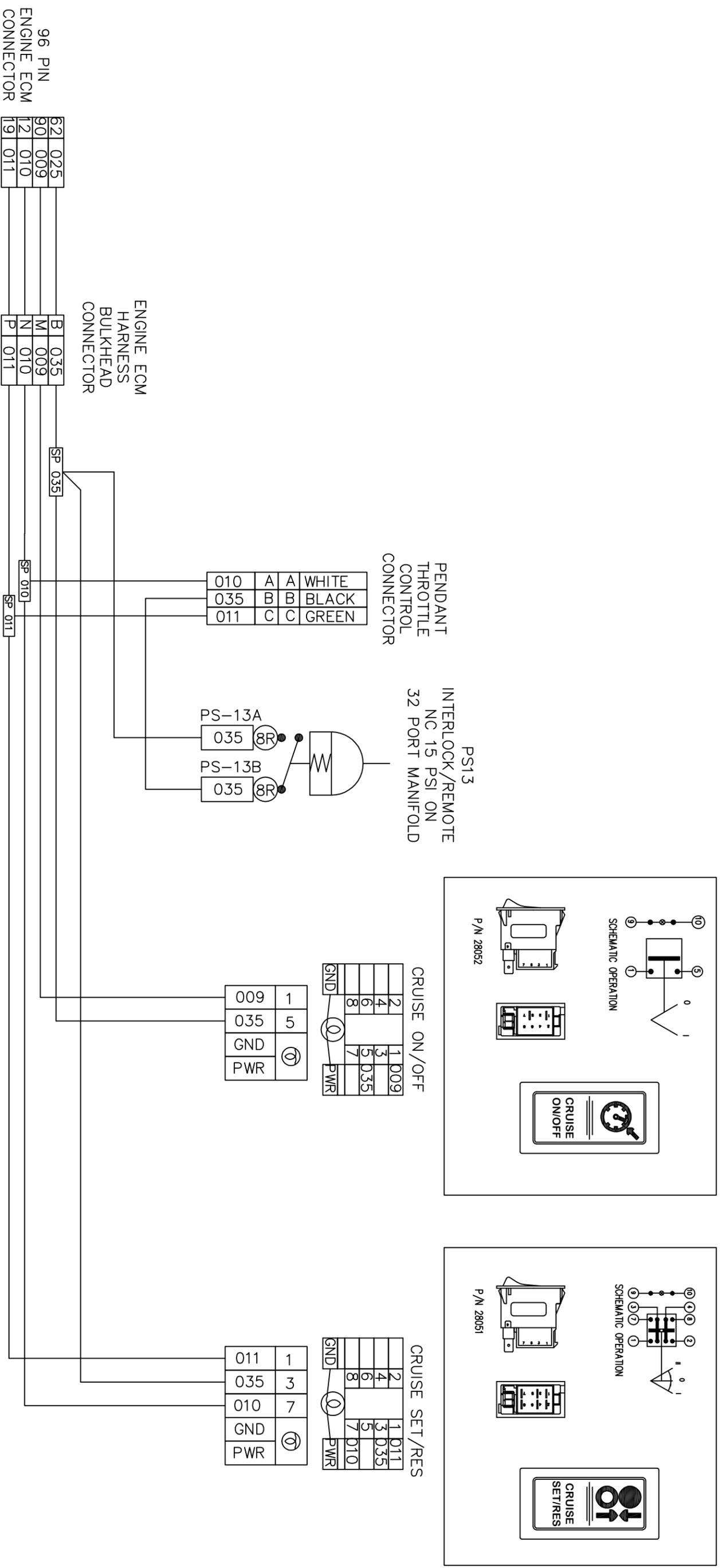


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DRAWN BY: DCS  
 CHECKED BY: DCS  
 CAD SYSTEM: DCS  
 DRAWN DATE: 2015/08/28  
 APPROVED BY: FORT WAYNE, IN 46898

TEREX ADVANCE  
 CRUISE/P/TO - MTU  
 (REFERENCE)

WIRE LENGTH < 100" (+1/4")	SHEET	OF	REV	SCALE
WIRE LENGTH > 100" (+1/2")				
WIRE LENGTH > 250" (+1")	DWG NO.		PART NUMBER	
WIRE LENGTH > 500" (+2")				



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DRAWN BY: DCS  
CHECKED BY: DCS  
DATE: 2015/08/28

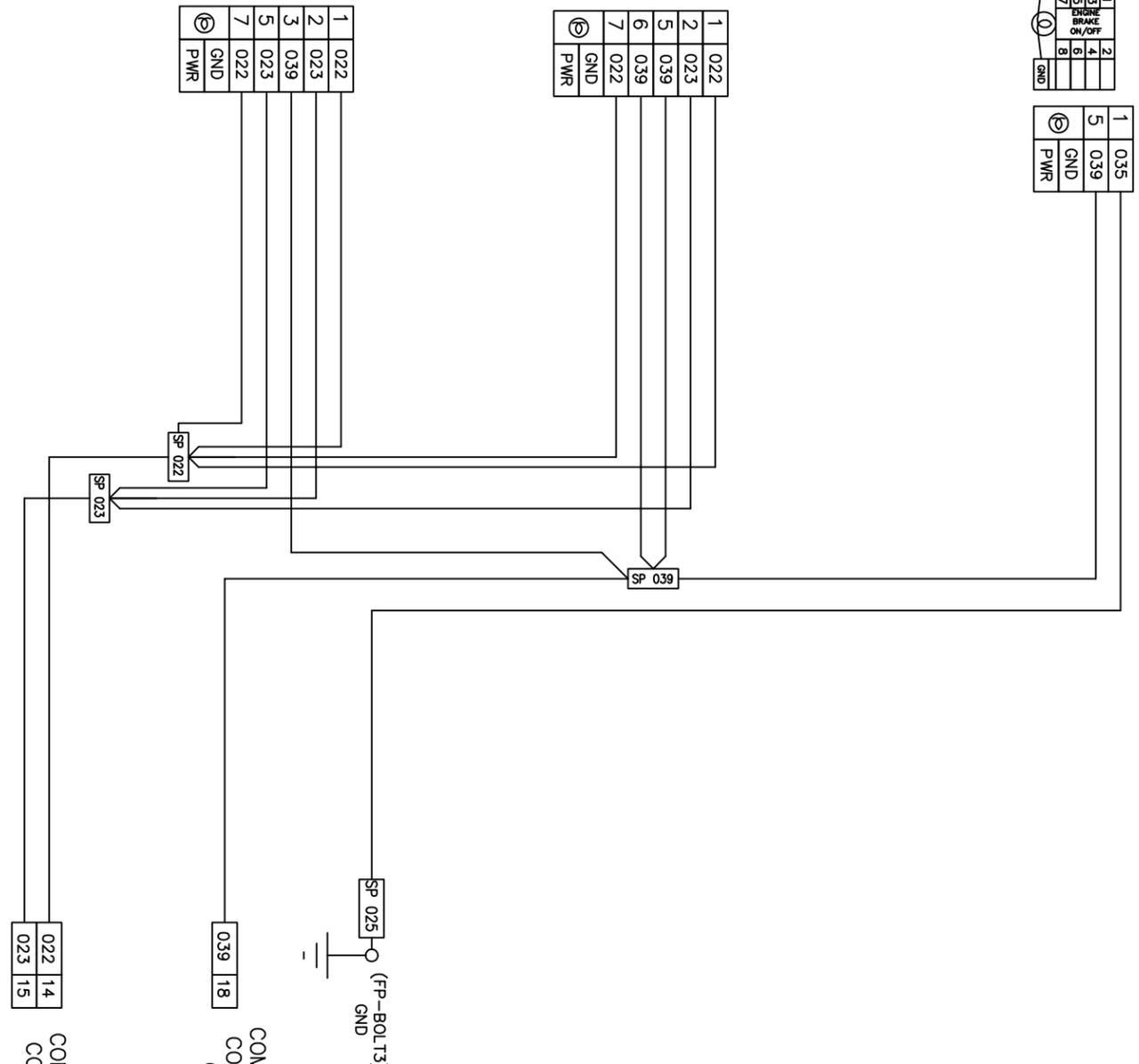
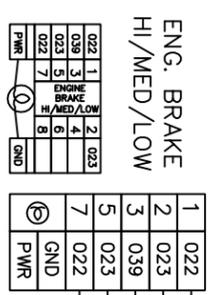
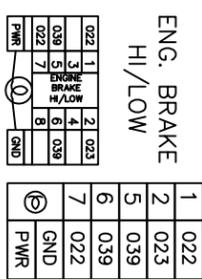
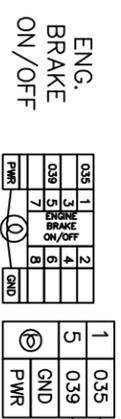
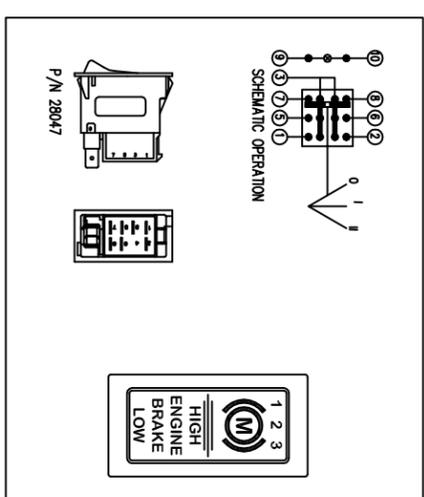
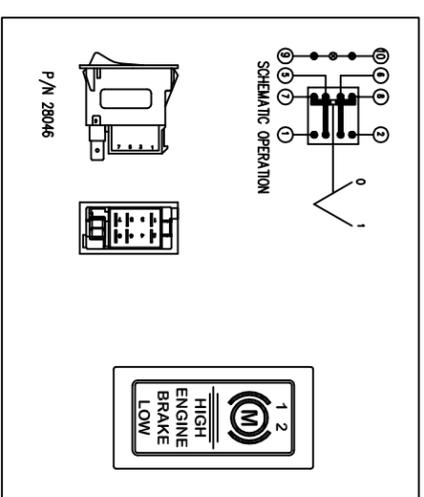
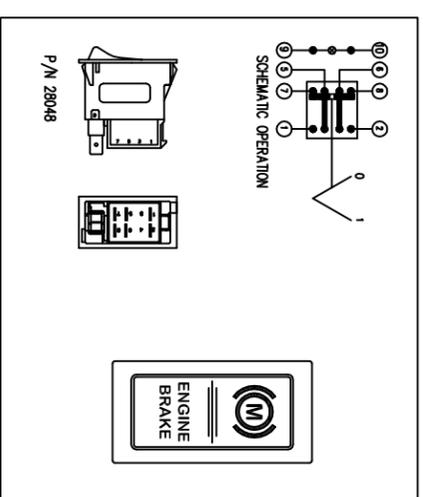
TEREX | ADVANCE  
FORT WAYNE, IN 46898

CRUISE/PTO - CUMMINS  
(REFERENCE)

WIRE LENGTH < 100" (±1/4")  
WIRE LENGTH > 100" (±1/2")  
WIRE LENGTH > 250" (±1")  
WIRE LENGTH > 500" (±2")

SHEET OF  
REV SCALE  
PART NUMBER

35613 REV-A



COMMON POWERTRAIN  
CONTROLLER 18 PIN  
CONNECTOR #4

COMMON POWERTRAIN  
CONTROLLER 18 PIN  
CONNECTOR #2

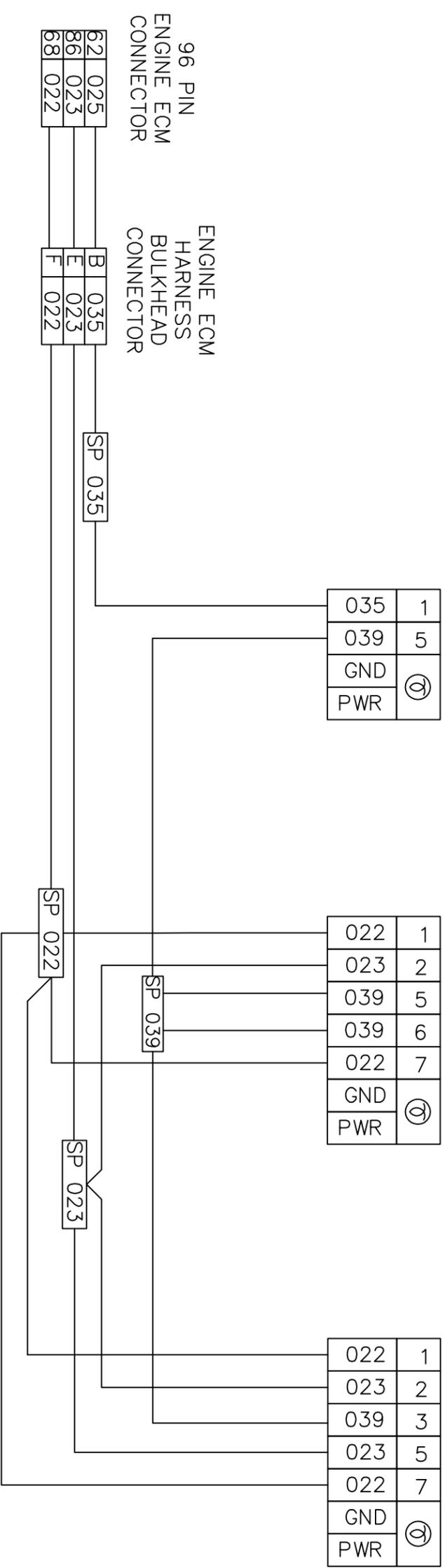
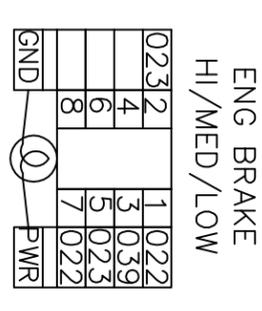
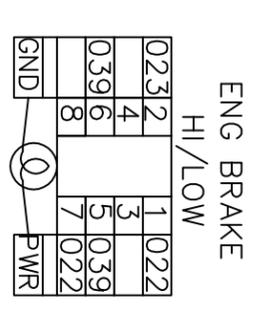
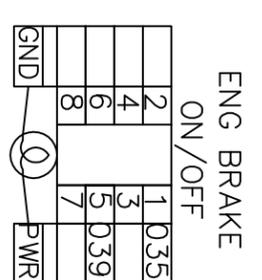
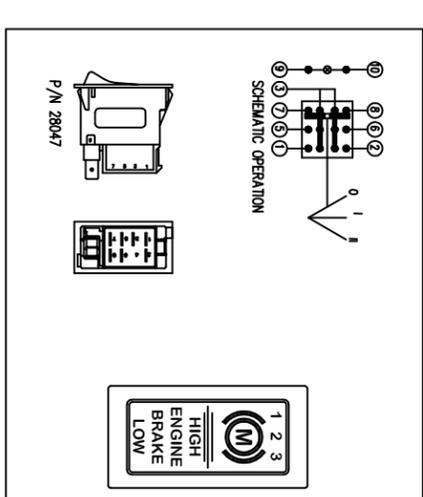
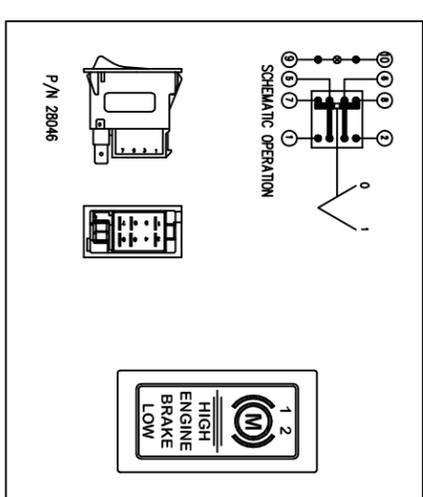
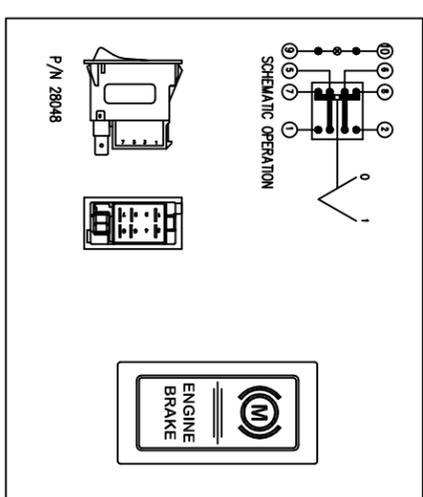
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DRAWN BY: DCS  
CHECKED BY: DCS  
DATE: 2015/08/28

TEREX ADVANCE  
FORT WAYNE, IN 46898

ENGINE BRAKE - MTU  
(REFERENCE)

ELECTRICAL TOLERANCE STANDARDS  
WIRE LENGTH < 100" (±1/4")  
WIRE LENGTH > 100" (±1/2")  
WIRE LENGTH > 250" (±1")  
WIRE LENGTH > 500" (±2")



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 CHECKED BY: DCS  
 DATE: 2015/08/28

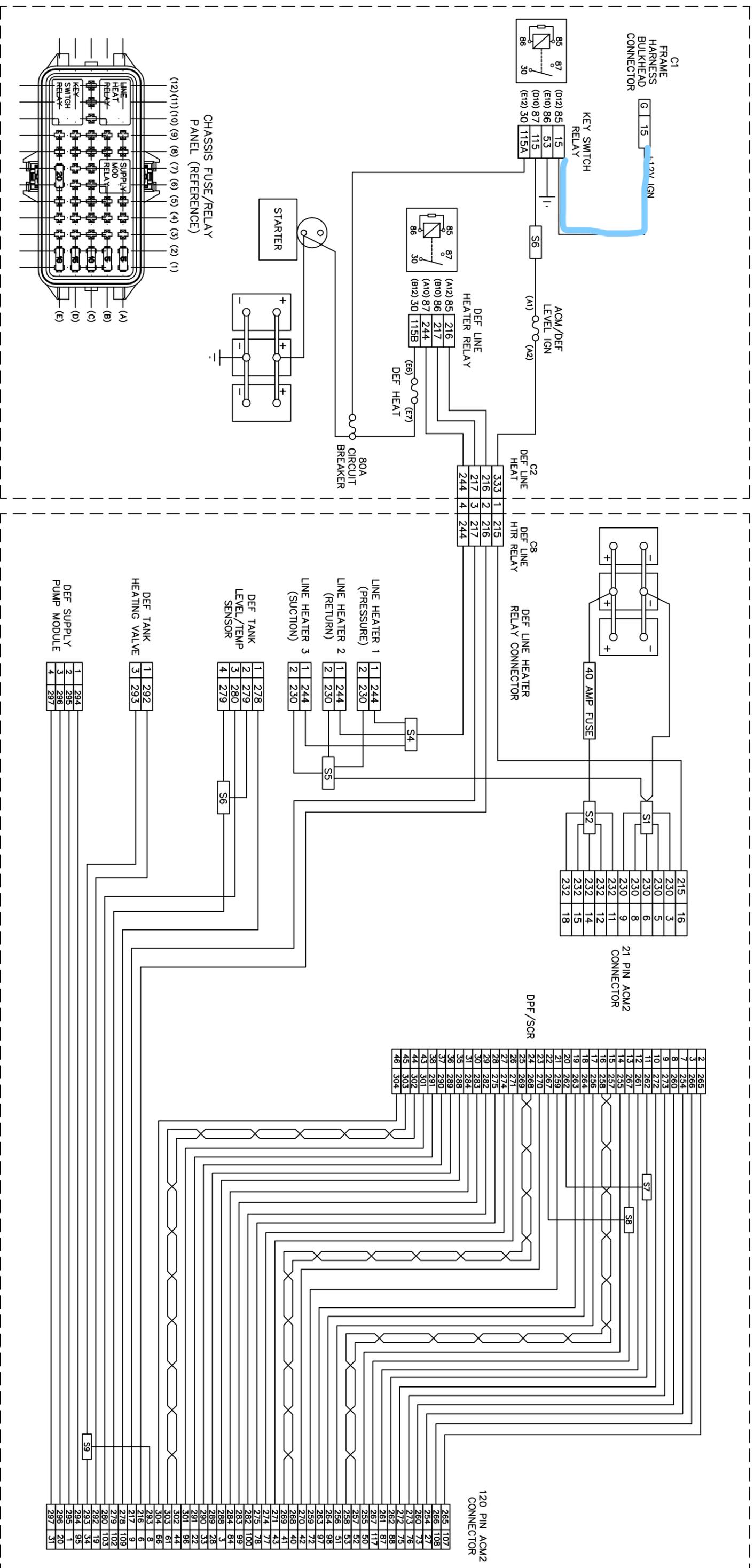
TEREX ADVANCE  
 FORT WAYNE, IN 46898

ENGINE BRAKE - CUMMINS  
 (REFERENCE)

WIRE LENGTH < 100" (±1/4")  
 WIRE LENGTH > 100" (±1/2")  
 WIRE LENGTH > 250" (±1")  
 WIRE LENGTH > 500" (±2")

# FRAME HARNESS 35416

# ENGINE HARNESS 35080



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DRAWN BY: DCS  
 CHECKED BY: DCS  
 CAD SYSTEM: DCS

DATE: 2016/03/11  
 APPROVED BY: [Signature]

TITLE: DEF LINE HTS.LEVEL, TEMP. & HEATING VALVE - MTU (GH617) (REFERENCE)  
 FORT WAYNE, IN 46898

TEREX ADVANCE

ELECTRICAL TOLERANCE STANDARDS:  
 WIRE LENGTH < 100" (±1/4")  
 WIRE LENGTH > 100" (±1/2")  
 WIRE LENGTH > 250" (±1")  
 WIRE LENGTH > 500" (±2")

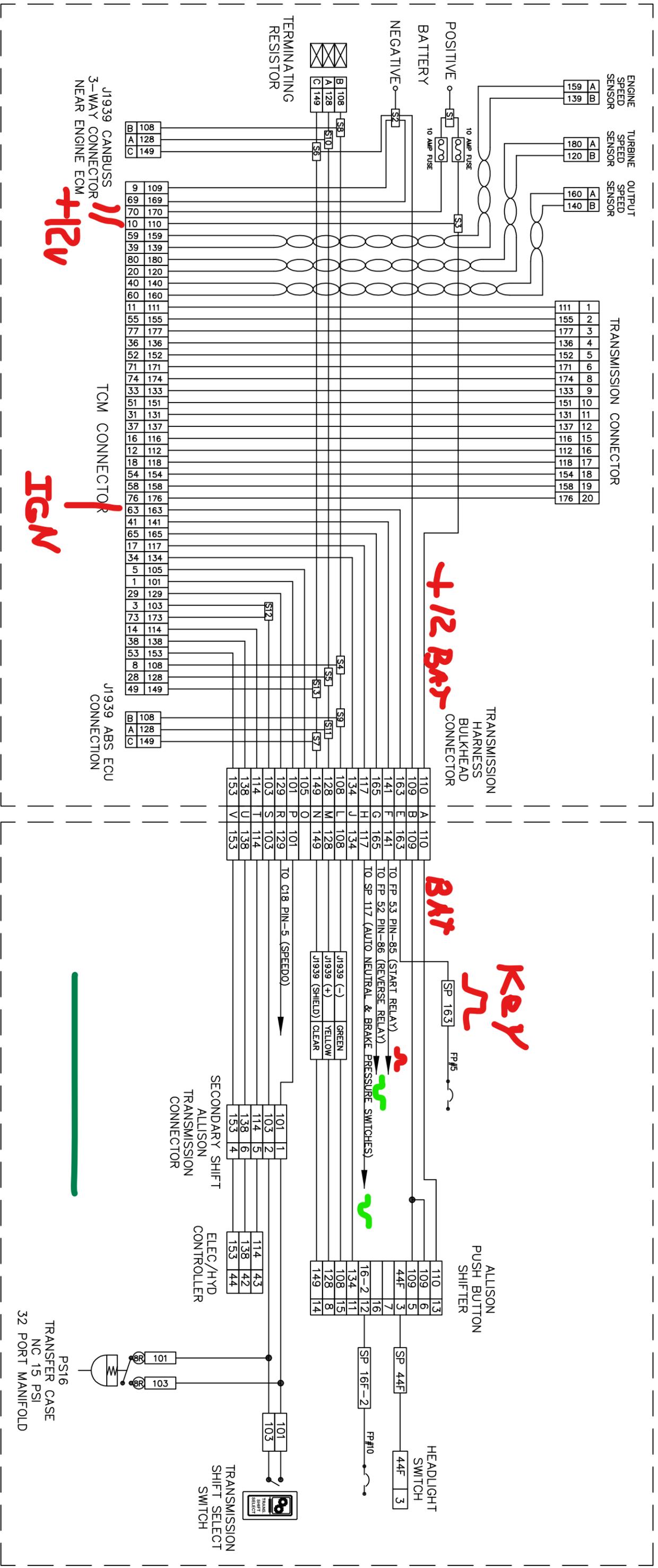
SHEET	OF	REV	SCALE

DWG NO.	REV	SCALE	PART NUMBER



TRANSMISSION HARNESS 33491

CAB HARNESS MTU ENGINE (34995 & 35076)  
&  
CAB HARNESS CUMMINS ENGINE (34996 & 35077)



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CHECKED BY: DCS  
DATE: 2015/08/31  
APPROVED BY: FORT WAYNE, IN 46898

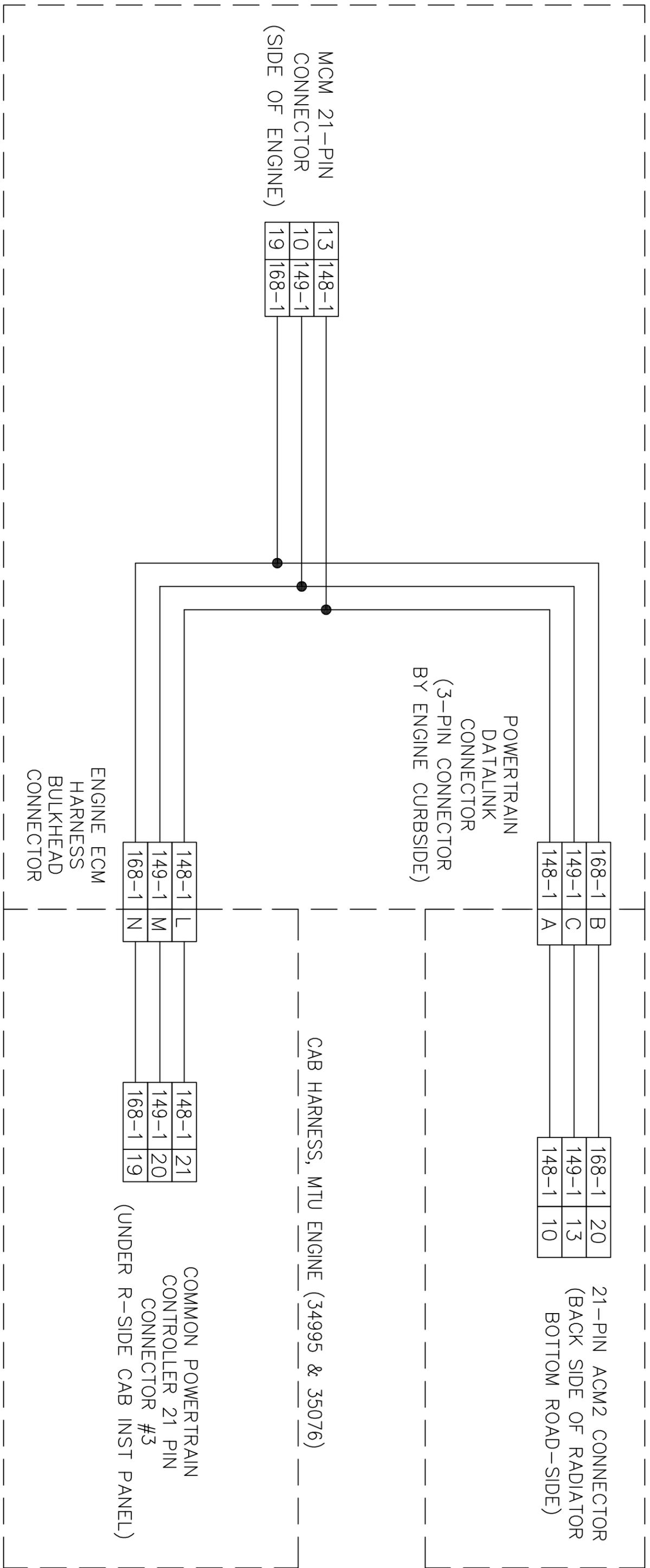
TEREX ADVANCE  
ALLISON GEN5 TRANS CONTROLS (REFERENCE)

ELECTRICAL TOLERANCE STANDARDS  
WIRE LENGTH < 100" (±1/4")  
WIRE LENGTH > 100" (±1/2")  
WIRE LENGTH > 250" (±1")  
WIRE LENGTH > 500" (±2")

168-1	CAN (-)	GREEN
148-1	CAN (+)	YELLOW
149-1	CAN (SHIELD/DRAIN)	CLEAR

MTU ENGINE HARNESS 35081

MTU AFTERTREATMENT HARNESS 35080



MCM 21-PIN  
CONNECTOR  
(SIDE OF ENGINE)

13	148-1
10	149-1
19	168-1

POWERTRAIN  
DATA LINK  
CONNECTOR  
(3-PIN CONNECTOR  
BY ENGINE CURBSIDE)

ENGINE ECM  
HARNESS  
BULKHEAD  
CONNECTOR

148-1	L
149-1	M
168-1	N

148-1	21
149-1	20
168-1	19

COMMON POWERTRAIN  
CONTROLLER 21 PIN  
CONNECTOR #3  
(UNDER R-SIDE CAB INST PANEL)

CAB HARNESS, MTU ENGINE (34995 & 35076)

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CHECKED BY: DCS  
DATE: 2016/03/11  
APPROVED BY: [Signature]

TEREX ADVANCE  
FORT WAYNE, IN 46898

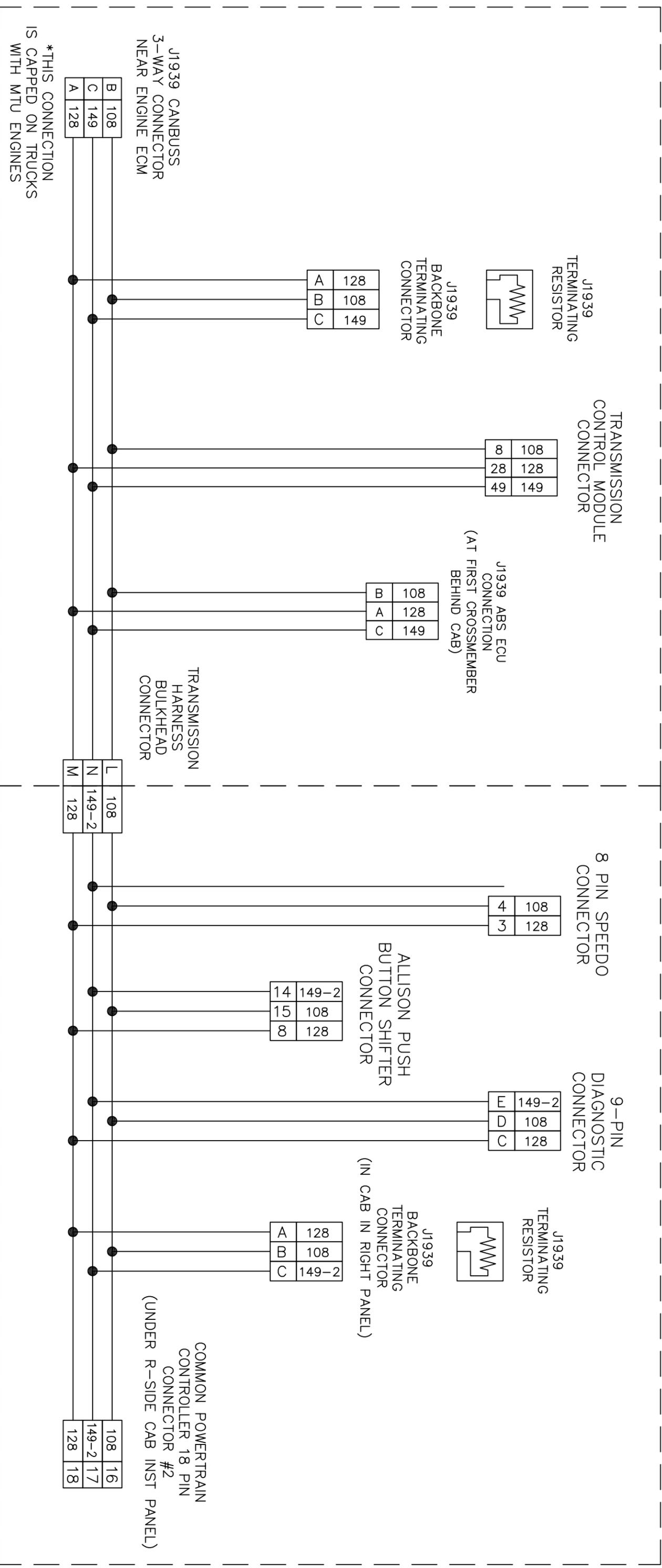
CAO SYSTEM  
ELECTRICAL TOLERANCE STANDARDS  
WIRE LENGTH < 100" (±1/4")  
WIRE LENGTH > 100" (±1/2")  
WIRE LENGTH > 250" (±1")  
WIRE LENGTH > 500" (±2")

TITLE	CAN COMMUNICATION - MTU (REFERENCE)
SHEET	OF
DWG NO.	REV SCALE PART NUMBER

108	J1939 (-)	GREEN
128	J1939 (+)	YELLOW
149	J1939 (SHIELD)	CLEAR

TRANSMISSION HARNESS 33491

CAB HARNESS MTU ENGINE (34995 & 35076)



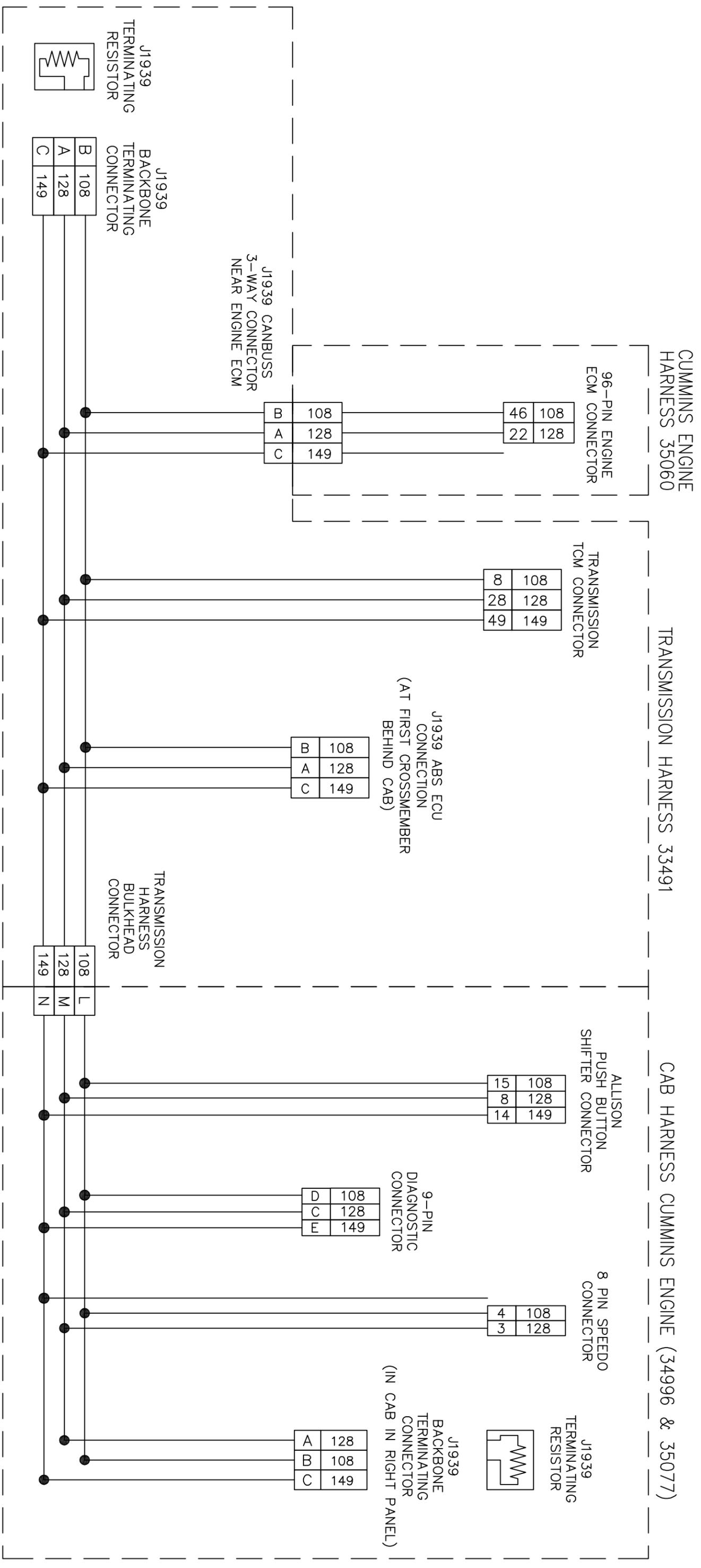
\*THIS CONNECTION IS CAPPED ON TRUCKS WITH MTU ENGINES

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DRAWN BY DCS	DATE 2016/03/11	
CHECKED BY	APPROVED BY	
CAD SYSTEM		TITLE J1939 (500K) - GHG17 MTU (REFERENCE)
ELECTRICAL TOLERANCE STANDARDS		SHEET OF
WIRE LENGTH < 100" (±1/4")		REV SCALE
WIRE LENGTH > 100" (±1/2")		DWG NO. PART NUMBER
WIRE LENGTH > 250" (±1")		
WIRE LENGTH > 500" (±2")		

Fort Wayne, IN 46898

108	J1939 (-)	GREEN
128	J1939 (+)	YELLOW
149	J1939 (SHIELD)	CLEAR



CUMMINS ENGINE  
HARNESS 35060

TRANSMISSION HARNESS 33491

CAB HARNESS CUMMINS ENGINE (34996 & 35077)

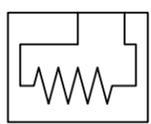
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DRAWN BY DCS	DRAWN DATE 2016/03/11	 FORT WAYNE, IN 46898
CHECKED BY	APPROVED BY	
CAD SYSTEM		CAGE CODE
ELECTRICAL TOLERANCE STANDARDS		
WIRE LENGTH < 100" (±1/4")		
WIRE LENGTH > 100" (±1/2")		
WIRE LENGTH > 250" (±1")		
WIRE LENGTH > 500" (±2")		
TITLE	J1939 (500K) - 2016 CUMMINS (REFERENCE)	
SHEET	OF	REV
DWG NO.	SCALE	PART NUMBER

209	DATALINK (-)
210	DATALINK (+)

210	A
209	B
	C

DATA LINK  
TERMINATION  
CANBUSS 2



J1939  
TERMINATING  
RESISTOR

209	1
210	2
030	3
334	4

DEF TANK  
TRI-FUNCTION  
SENSOR

210	11
209	12
334	10
030	9
209	8
210	7

12 PIN  
SCR SENSOR  
TABLE

210	1
209	2

8 PIN  
DPF SENSOR  
TABLE

2	210
9	209
6	334
13	030

ENGINE  
14 PIN  
CROSSOVER

REF. ENGINE HARNESS 35060

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DRAWN BY DCS	DRAWN DATE 2016/03/11	<p>TEREX   ADVANCE FORT WAYNE, IN 46898</p>
CHECKED BY	APPROVED BY	
CAD SYSTEM		TITLE ENGINE/AFTERTREATMENT COMMUNICATION NETWORK (2016 CUMMINS)
ELECTRICAL TOLERANCE STANDARDS		SHEET OF
WIRE LENGTH < 100" (±1/4")		REV
WIRE LENGTH > 100" (±1/2")		SCALE
WIRE LENGTH > 250" (±1")		DWG NO.
WIRE LENGTH > 500" (±2")		PART NUMBER