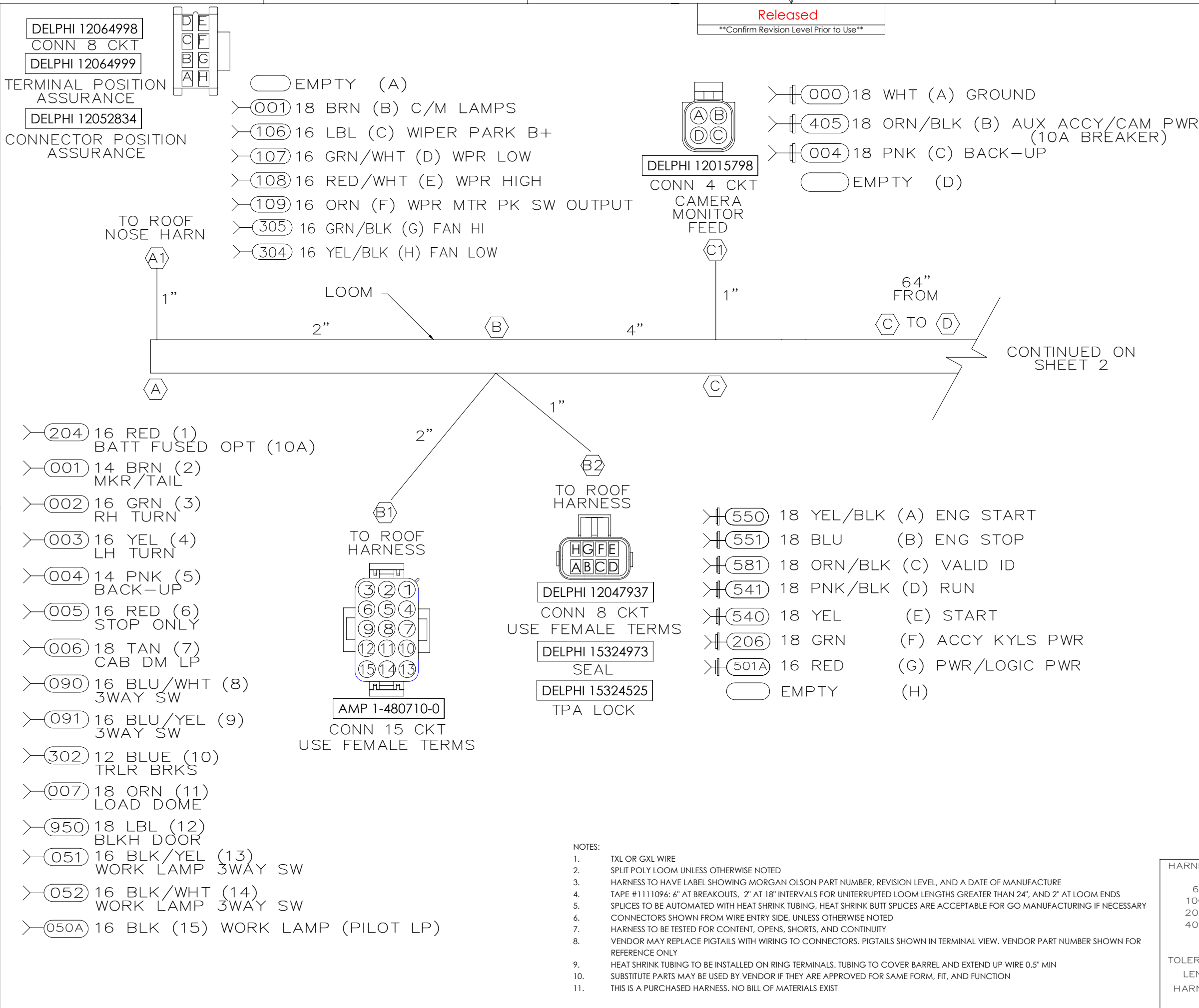


Released

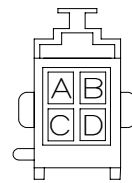
Confirm Revision Level Prior to Use



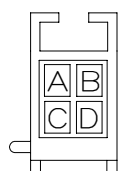
D	REMOVED PLUG NOTE @ D2; SHT 2	EM M	66477 8/25/20
C	1.) CHANGED PIGTAIL CONNECTOR AT B/O N1, PG #4; 2.) WAS 54", NOW 72", PG #4; 3.) RELAY WAS OMRON G8V-RH-1C7T-R; NOW SONG CHUAN 301-1C-S-R1	EM M	66337 8/13/20
B	1.) ADDED FUSE HOLDER AT D5 2.) REARRANGED FUSE BLOCK AT D4	IN	64304 3/9/20
A	CKT 304 WAS IN CAV G @ A1; NOW CAV H	EM M	63506 1/17/20
REL	REL TO PRODUCTION	ALL	
REV	DESCRIPTION OF CHANGE	BY	ECO# DATE
PROPRIETARY This drawing and the information and data contained hereon constitutes valuable proprietary trade secret information of Morgan Olson and may not be used, duplicated or further disclosed or disseminated for any purpose other than that purpose for which it was originally provided, without the prior written consent of Morgan Olson.  DO NOT SCALE DRAWING TOLERANCES X.X .10.00 X.XX .0100 X.XXX .0010 ANGLES .01° ANSI Y 14.5M-1994 REMOVE ALL SHARP EDGES			
DRAWN: INORTON		DATE: 12/6/2019	
DESCRIPTION: HARN I/P UPS FCC W/KYLS FANS		ECO#: 63033	
PART#: 197084206			SHEET: 1 of 6
			REV: D

Released

CONFIRM REVISION LEVEL PRIOR TO USE



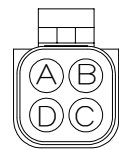
MATE
TO
"D1"



DELPHI 12129135

CONN 4 CKT
USE MALE TERMS

- ← (302) 12 BLUE (A) TRLR BRKS
- ← (005) 14 RED (B) STOP ONLY
- ← (205) 12 RED (C) BRK CTRL PWR
(20A BREAKER)
- ← (000) 18 WHT (D) GROUND



DELPHI 12015798

CONN 4 CKT

TO
GPS
UNIT

- > (953) 18 PPL/BLK (A) SEAT SENSOR
- > (950) 18 LBL (B) BULKHEAD DOOR
- > (005) 18 RED (C) STOP ONLY
- > (004) 18 PNK (D) BACK-UP

- () EMPTY (A) EMPTY
- () EMPTY (B) EMPTY
- () EMPTY (C) EMPTY
- () EMPTY (D) EMPTY

TRAILER BRAKES

D1

1"

D

64" FROM

C TO D

12"

TAPE
BACK

D1

LOOM

12"

E3

1"

E

4"

BODY
GROUND

E1

12"

.25" RG TERM
SMOOTH BORE
AND H.S.
(SEE NOTES)

(000)
12 WHT
GROUND

.25" RG TERM
SMOOTH BORE
AND H.S.
(SEE NOTES)

(200)
12 WHT/ORN
GROUND

HEATER
GROUND

E4

12"

13" FROM

F TO G

F

2"

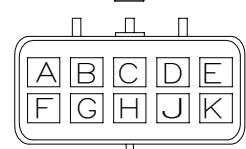
*

SPLICE 4
SPLICE CKT "200"
12 WHT/ORN INTO
"000" 12 WHT

18"

1"

E2



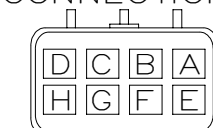
PE 15326660

CONN 10 CKT

7"

F1

TO CHASSIS
INTERFACE
CONNECTION



DELPHI 15326655

CONN 8 CKT

FUSE CAP

DELPHI 12033731

FUSE HOLDER

DELPHI 12033769

ATO FUSE 40A

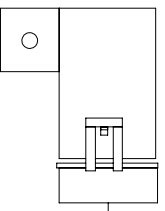
OR EQUIV.

LOOM

BATT + INPUT

(207) 10 RED

D3



(501) 10 RED
PWR/LOGIC PWR

7"

TAPE WIRES

6" FROM

D4 TO D3

6"

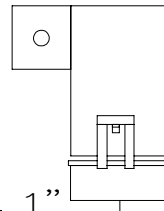
BRAIDED
POLYESTER
SLEEVING FROM
"D4" TO "D"

LABEL



7"

D5



FUSE CAP

DELPHI 12033731

FUSE HOLDER

DELPHI 12033769

- (202) 16 YEL - BATTERY
- (204) 16 RED - BATT FUSED
OPTION (FUSE-NOT INSTALLED)

- > (950) 18 LBL (A) BULKHEAD DOOR
- () EMPTY (B)
- () EMPTY (C)
- () EMPTY (D)
- > (953) 18 PPL/BLK (E) SEAT SENSOR
- () EMPTY (F)
- () EMPTY (G)
- () EMPTY (H)
- () EMPTY (J)
- () EMPTY (K)

- ← (005) 16 RED (A) STOP ONLY
- () EMPTY (B)
- () EMPTY (C)
- ← (004) 14 PNK (D) BACK-UP
- ← (000) 12 WHT (E) GROUND
- ← (003) 16 YEL (F) LH TURN
- ← (002) 16 GRN (G) RH TURN
- ← (001) 14 BRN (H) C/M

PROPRIETARY

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DO NOT SCALE DRAWING

TOLERANCES
XXX .0050
XXXX .0010
ANGLES .0010

ANSI Y 14.5M-1994 REMOVE ALL SHARP EDGES

BROWN: INORTON DATE: 12/6/2019 ECO#: 63033

DESCRIPTION: HARN I/P UPS FCC W/KYLS FANS

LPS

PART#: 197084206

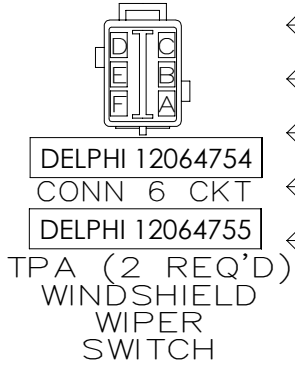
SHEET: 2 of 6

REV: D

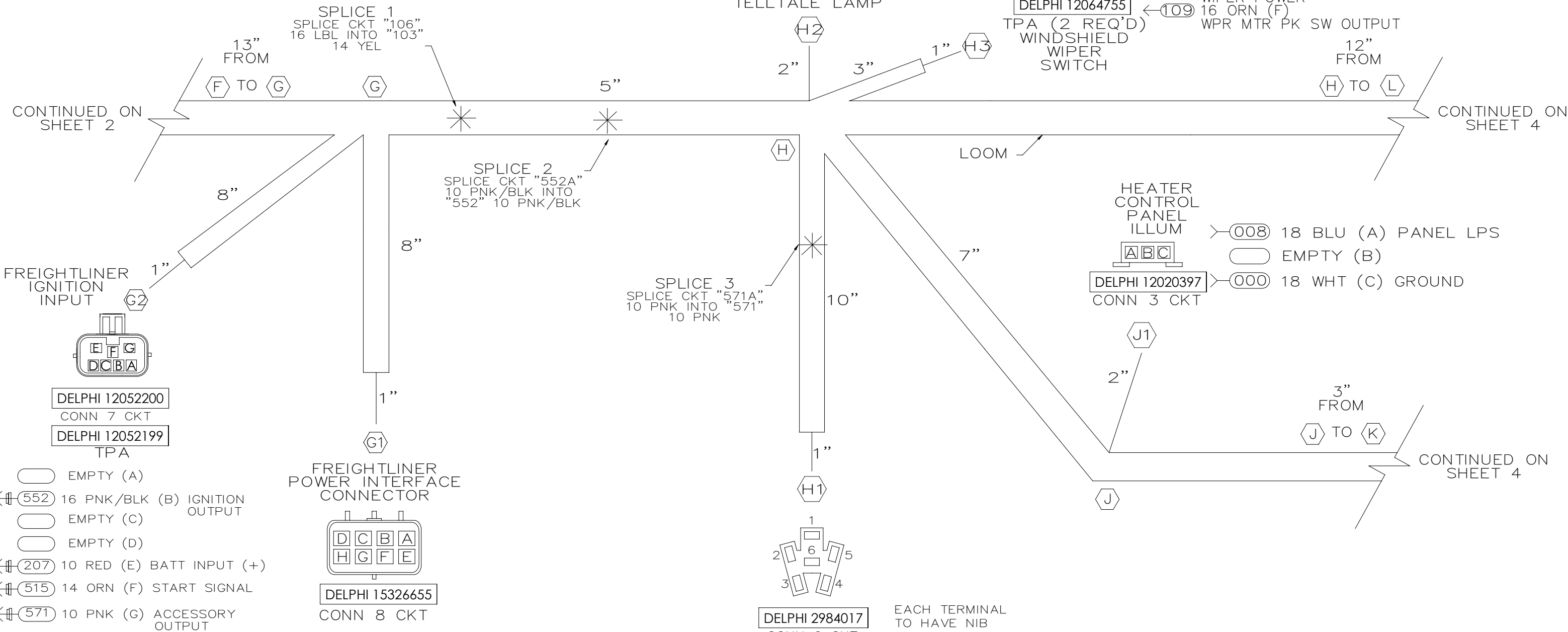
Released

CONFIRM REVISION LEVEL PRIOR TO USE

- 008 18 BLU (A) PANEL LPS
- EMPTY (B)
- 000 18 WHT (C) GROUND



- 108 16 RED/WHT (A) WPR MOTOR HIGH
- 107 16 GRN/WHT (B) WPR MOTOR LOW
- 111 16 PNK/BLK (C) WASHER PUMP
- 000 16 WHT (D) GROUND
- 103 14 YEL (E) WIPER POWER
- 109 16 ORN (F) WPR MTR PK SW OUTPUT



- EMPTY (A)
- 552 16 PNK/BLK (B) IGNITION OUTPUT
- EMPTY (C)
- EMPTY (D)
- 207 10 RED (E) BATT INPUT (+)
- 515 14 ORN (F) START SIGNAL
- 571 10 PNK (G) ACCESSORY OUTPUT

- 202 12 YEL (A) BATTERY
- 208 16 PNK/BLK (B) IGNITION PWR
- 203 16 WHT/RED (C) ACCESSORY
- 101 12 ORN (D) HEATER POWER
- 103 14 YEL (E) WIPER POWER
- 008 18 BLU (F) PANEL LPS
- EMPTY (G)
- EMPTY (H)

- 207 10 RED (1) BATTERY INPUT (+)
- 571 10 PNK (2) ACCESSORY OUTPUT
- 571A 10 PNK (3) ACCESSORY OUTPUT
- 552A 10 PNK/BLK (4) IGNITION OUTPUT
- 552 10 PNK/BLK (5) IGNITION OUTPUT
- 515 14 ORN (6) START SIGNAL



EACH TERMINAL TO HAVE NIB FEATURE

PROPRIETARY

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DO NOT SCALE DRAWING

TOLERANCES
XX .0100
XXX .0050
XXXX .0010
ANGLES .0100

ANSI Y 14.5M-1994 REMOVE ALL SHARP EDGES

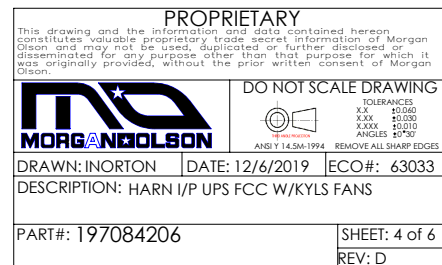
DRAWN: INORTON DATE: 12/6/2019 ECO#: 63033

DESCRIPTION: HARN I/P UPS FCC W/KYLS FANS

PART#: 197084206

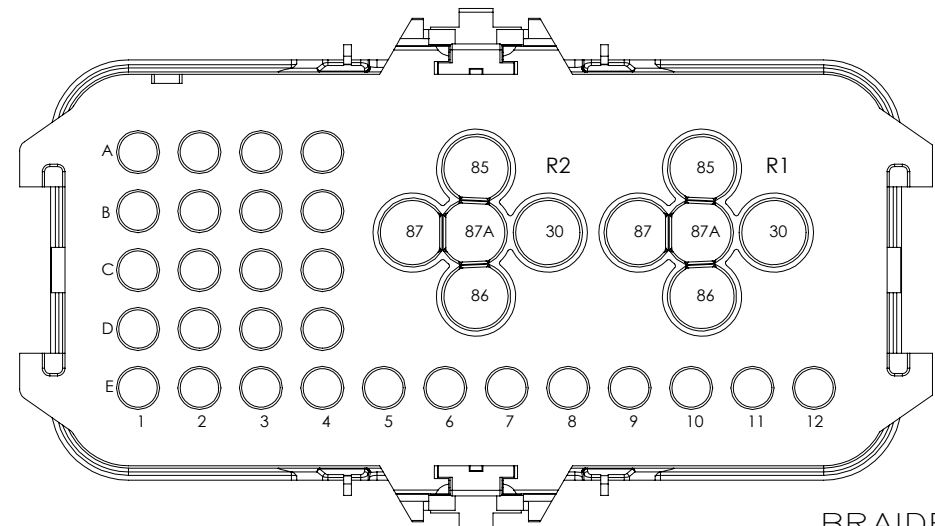
SHEET: 3 of 6

REV: D



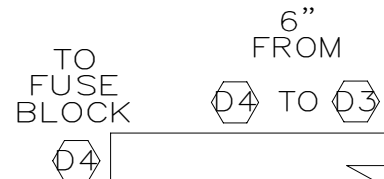
Released

CONFIRM REVISION LEVEL PRIOR TO USE



38 WAY CONN
TYCO #2297813-2
WIRE ENTRY
VIEW

BRAIDED
POLYESTER
SLEEVING
FROM "D4" TO
"D"



CONTINUED ON
SHEET 2

LITTLEFUSE #029707.5WXNV
7.5A MINI ATM FUSE
OR EQUIV

LITTLEFUSE #029707.5WXNV
7.5A MINI ATM FUSE
OR EQUIV

EATON's BUSSMAN
20A BREAKER
#21110-00

CONNECTOR
TYCO #2297813-2

MFG NOTE:
INSTALL COMPONENTS
AS SHOWN

HELLA #87423
RELAY
OR EQUIV.

HELLA #87423
RELAY
OR EQUIV.

COVER (NOT SHOWN)
TYCO #2098164-4

SONG CHUAN
#303-1AH-C-R1-U01-12VDC
OR EQUIV.

SONG CHUAN
#303-1AH-C-R1-U01-12VDC
OR EQUIV.

SONG CHUAN
#301-1C-S-R1
OR EQUIV.
(MODULE FOR
REFERENCE ONLY)

C3

EATON's BUSSMAN
10A BREAKER
#21110-00

EATON's BUSSMAN
10A BREAKER
#21110-00

EATON's BUSSMAN
10A BREAKER
#21110-00

- > (101A) 12 ORN (A1) HEATER PWR SW'D (87)
- > (000) 18 WHT (A2) GROUND (85)
- > (515) 14 ORN (A3) START SIGNAL (87)
- > (000) 18 WHT (A4) GROUND (85)
- > (203) 16 WHT/RED (B1) ACCY POWER (86)
- > (101) 12 ORN (B2) HEATER PWR (30)
- > (540) 18 YEL (B3) START (86)
- > (501) 16 RED (B4) PWR/LOGIC PWR (30) (40A FUSED)
- (PLUG) EMPTY (C1)
- > (050) 16 WHT/BLK (C2) WORK LMP FEED (87)
- > (000) 18 WHT (C3) GROUND (85)
- (PLUG) EMPTY (C4)
- > (405) 18 ORN/BLK (D1) AUX ACCY/CAM PWR (86) (10A BREAKER)
- (PLUG) EMPTY (D2)
- > (009) 16 RED (D3) DOME PWR (87)
- (PLUG) EMPTY (D4)
- > (202) 16 YEL (E1) BATTERY
- > (009) 16 RED (E2) DOME/WORK LAMP POWER (10A BREAKER)
- > (203) 16 WHT/RED (E3) ACCY POWER
- > (209) 16 PPL (E4) ACCY FAN POWER (10A FUSED)
- > (203) 16 WHT/RED (E5) ACCESSORY
- > (405) 18 ORN/BLK (E6) AUX ACCY/CAM PWR (10A BREAKER)
- > (202) 12 YEL (E7) BATTERY
- > (205) 12 RED (E8) BRAKE CONTROL POWER (20A BREAKER)
- > (208) 16 PNK/BLK (E9) IGNITION PWR
- > (208A) 16 PNK (E10) IGN FUSED OPTION (7.5A FUSED)
- > (501) 16 RED (E11) PWR/LOGIC PWR (40A FUSED)
- > (501A) 16 RED (E12) PWR/LOGIC PWR FUSED (7.5A FUSED)

- > (571) 10 PNK (R2-87) ACCY OUTPUT
- (PLUG) EMPTY (R2-87A)
- > (000) 18 WHT (R2-85) GROUND
- > (501) 10 RED (R2-30) PWR/LOGIC PWR (40A FUSED)
- > (206) 18 GRN (R2-86) ACCY KYLS POWER
- > (552) 10 PNK/BLK (R1-87) IGNITION OUTPUT
- (PLUG) EMPTY (R1-87A)
- > (000) 18 WHT (R1-85) GROUND
- > (501) 10 RED (R1-30) PWR/LOGIC PWR (40A FUSED)
- > (541) 18 PNK/BLK (R1-86) KEYLESS RUN

PROPRIETARY
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MORGAN OLSON

DO NOT SCALE DRAWING

TOLERANCES
XX .0060
XXX .0030
XXXX .0010
ANGLES .5°/1°

ANSI Y 14.5M-1994 REMOVE ALL SHARP EDGES

DRAWN: INORTON DATE: 12/6/2019 ECO#: 63033
DESCRIPTION: HARN I/P UPS FCC W/KYLS FANS

PART#: 197084206 SHEET: 5 of 6
REV: D

1		2		3		4		5		6			
						Released							
						CONFIRM REVISION LEVEL PRIOR TO USE							
						CIRCUIT	DESCRIPTION	ENDPOINTS	FUNCTION				
						000	12,16,18 WHT	C1,D1,D4,E1,F1,H2,H3,J1,K1,K2,K3,K4,K5,L2,N1,N2,SPLICE 4	GROUND				
						001	14,18 BRN	A1,B1,F1	MRKR/CLEARANCE LPS				
						002	16 GRN	B1,F1	RH TURN				
						003	16 YEL	B1,F1	LH TURN				
						004	14,18 PNK	B1,C1,E3,F1	BACK-UP				
						005	14,16,18 RED	B1,D1,E3,F1	STOP ONLY				
						006	18 TAN	B1,K2	CAB DM LP				
						007	18 ORN	B1,K3	LOAD DOME				
						008	18 BLU	G1,H2,J1,K2,K3,K4,K5	PANEL LPS				
						009	16,18 RED	D4,K2,K3	DOME/WORK LAMP PWR (10A BREAKER)				
						050	16 WHT/BLK	D4,K4	WORK LAMP FEED				
						050A	16 BLK	B1,K4	WORK LAMP (PILOT LP)				
						051	16 BLK/YEL	B1,K4	WORK LAMP 3WAY SW				
						052	16 BLK/WHT	B1,K4	WORK LAMP 3WAY SW				
						090	16 BLU/WHT	B1,K3	3WAY SW				
						091	16 BLU/YEL	B1,K3	3WAY SW				
						101	12 ORN	D4,G1	HEATER PWR				
						101A	12 ORN	D4,L1	HEATER PWR SW'D				
						103	14 YEL	G1,H3,SPLICE 1	WIPER POWER				
						106	16 LBL	A1,SPLICE 1	WIPER PARK B+				
						107	16 GRN/WHT	A1,H3	WPR MOTOR LOW				
						108	16 RED/WHT	A1,H3	WPR MOTOR HIGH				
						109	16 ORN	A1,H3	WPR MTR PK SW OUTPUT				
						111	16 PNK/BLK	N1,H3	WASHER PUMP				
						200	12 WHT/ORN	E4,L1,SPICE 4	HEATER GROUND				
						202	12,16 YEL	D5,G1	BATTERY				
						203	16 WHT/RED	D4,G1	ACCY				
						204	16 RED	B1,D5,L2	BATT FUSED OPTION (FUSE NOT INSTALLED)				
						205	12 RED	D1,D4	BRK CTRL PWR				
						206	18 GRN	B2,D4	ACCY KYLS PWR				
						207	10 RED	D3,G2,H1	BATTERY INPUT (+)				
						208	16 PNK/BLK	D4,G1	IGNITION OUTPUT				
						208A	16 PNK	D4,L2	IGN FUSED OPTION (7.5A FUSED)				
						209	16 PPL	D4,K5	ACCY FAN POWER (10A FUSED)				
						302	12 BLUE	B1,D1	TRAILER BRAKES				
						304	16 YEL/BLK	A1,K5	FAN LOW				
						305	16 GRN/BLK	A1,K5	FAN HI				
						405	16,18 ORN/BLK	C1,D4	AUX ACCY/CAM PWR (10A BREAKER)				
						CIRCUIT	DESCRIPTION	ENDPOINTS	FUNCTION				
						501	10,16 RED	D3,D4	PWR/LOGIC PWR (40A FUSED)				
						501A	16 RED	B2,D4,K1	PWR/LOGIC PWR (7.5A FUSED)				
						515	14 ORN	D4,G2,H1	START SIGNAL				
						540	18 YEL	B2,D4	KYLS START				
						541	18 PNK/BLK	B2,D4	KYLS RUN				
						550	18 YEL/BLK	B2,K1	ENG START				
						551	18 BLU	B2,K1	ENG STOP				
						552	10 PNK/BLK	D4,G2,H1,SPLICE 2	IGNITION OUTPUT				
						552A	10 PNK/BLK	H1,SPLICE 2	IGNITION OUTPUT				
						571	10 PNK	D4,G2,H1,SPLICE 3	ACCY OUTPUT				
						571A	10 PNK	H1,SPLICE 3	ACCY OUTPUT				
						581	18 ORN/BLK	B2,K1	VALID ID				
						950	18 LBL	B1,E2,E3,	BULKHEAD DOOR				
						953	18 PPL/BLK	E2,E3,N2	SEAT SENSOR				