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REV.	E.C.N.	DESCRIPTION	INIT.	DATE
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- NOTES:
- 1) *=OPTIONAL
 - 2) DASHED THICK LINES = FUSE
 - 3) DASHED MEDIUM LINES = PANEL
 - 4) THE CAN CONNECTION MUST FOLLOW DIAGRAM EXACTLY AND SHALL ONLY CROSSOVER AT THE TAIL END OF TRUCK; CAN IS A LINEAR NETWORK.



PROJ. NAME: MITT-ILC

FILE NAME: 50020525

CORPORATE ENGINEERING

8503 HILLTOP DR. OOLTEWAH, TN 37363

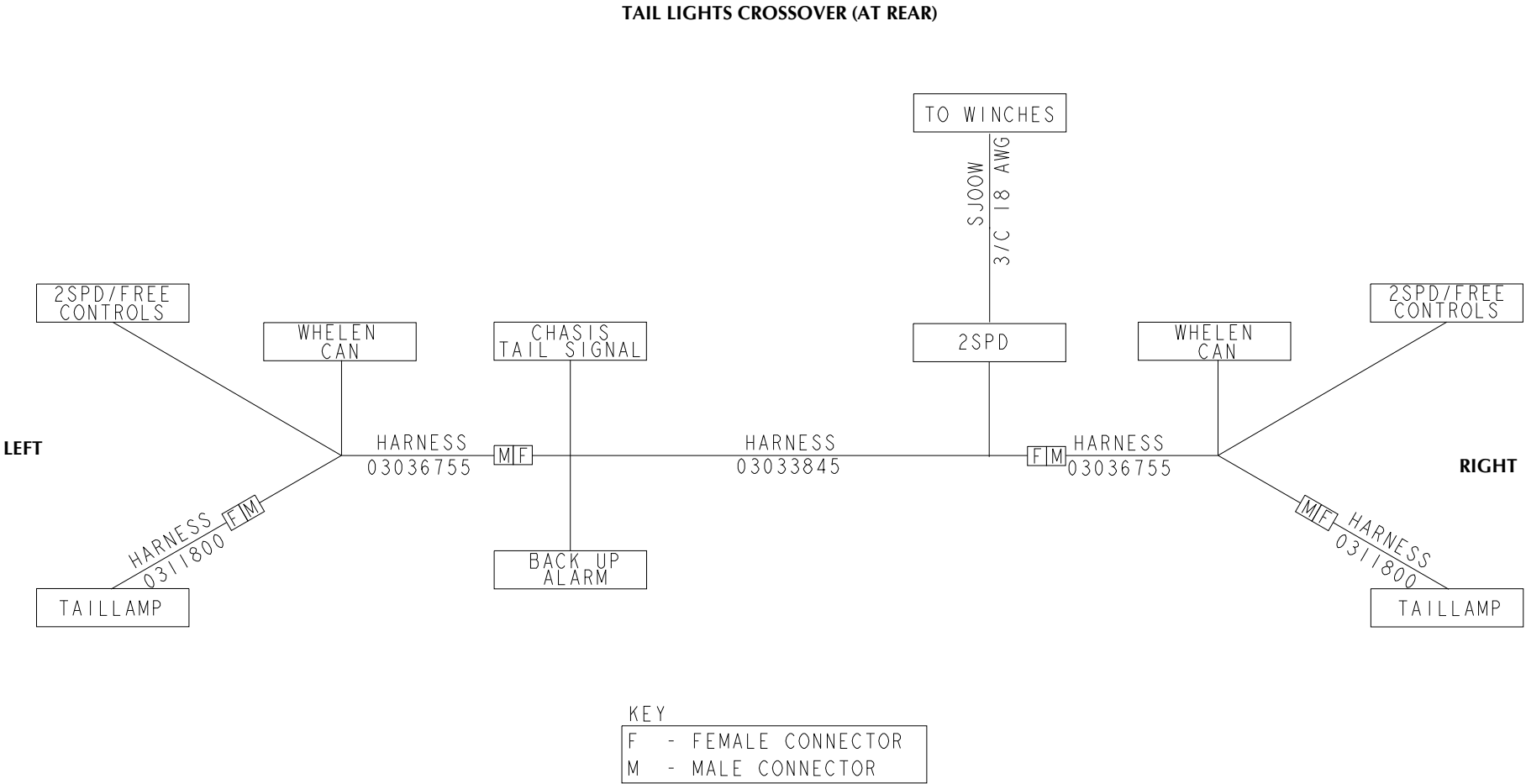
(423) 238-4171

SCH. TYPE: Wiring	DESCRIPTION:	
DRW. DATE: 12/9/2024	MITT-ILC INTEGRATED BLOCK DIAGRAM	
MOD. DATE:		SYSTEM OVERVIEW
CHK. DATE: 12/18/2024		
DRAWN BY: JASON ZHAO	DWG NO: 50020525	REV. 00
CHK BY: PAUL WAILAND	SHEET: 1 OF 3	

PART NUMBER 50020525

ITEM	MILLER PART#	HARNESS
B	03033834	MITT-ILC CAB/HOOD CAN
C	03033835	MITT-ILC LH REAR CEM16
D	03033836	MITT-ILC RH REAR CEM16
E	03033837	MITT-ILC LH FRONT LGHTS CEM16
F	03033838	MITT-ILC LH FRONT LGHTS HC4
G	03033839	MITT-ILC RH FRONT LGHTS CEM16
H	03033840	MITT-ILC TLBX DOOR HARNESS
J	03033841	MITT-ILC HOOD M6 HARNESS 1
K	03033842	MITT-ILC 2nd CEM16 M6 DUO&V
L	03033843	MITT-ILC TAILLIGHT ADAPTER2
M	03033844	MITT-ILC CTA MILLENNIUM LIGHT
N	03033845	MITT-ILC TAIL TLBX CROSSOVER
T	03035131	MITT-ILC TUNNEL BOX HARNESS 2
U	03034674	MITT-ILC RIGHT PYLON HARNESS
V	03036755	MITT-ILC TAIL TLBX CROSSOVER INTFCE
W	03034852	MITT-ILC CAN Bus Connector Kit
X	03034764	MITT-ILC Tunnel box harness 1
Y	03034712	MITT-ILC LEFT PYLON HARNESS
Z	03034727	MITT-ILC HOOD M6 Harness 2
1	0311800	HARNESS, REAR TAIL
2	0311797	HARNESS, MARKER TURN

ITEM	COLOR	LIGHT HEAD
1	gry	Aux Beacon
2	tan	Side Beacon
3	lt_blu	TL/BX Beacon
5	lt_grn	Upper Work
6	lt_grn	Side Work
7	lt_grn	Swivel Work
8	org	Lower Work
9	org	U/L Work
10	blu	Driver Dock
11	blu	Pass. Dock
12	blk	TL box light
13	pnk	PTO
14	red	Controls Pwr.
15	brn	Marker
16	grn	RH Turn
17	yel	LH Turn
18	red	Brake
19	blu	Reverse
20	gry	LOCK
21	lt_grn	UNLOCK
22	red	battery
23	wht	gnd
24	vlt	ignition
25	gry	2spd-1
26	gry	2spd-2
27	blu	freespool-1
28	blu	freespool-2





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FILE NAME: 50020525

CORPORATE ENGINEERING
8503 HILLTOP DR. COOLETWAH, TN 37363
(423) 238-4171

SCH. TYPE: Wiring

DRW. DATE: 12/9/2024

MOD. DATE:

CHK. DATE: 12/18/2024

DESCRIPTION:

MITT-ILC INTEGRATED BLOCK DIAGRAM
REAR CROSSOVER, COLOR CODE, & HARNESS SUMMARY

REV. E.C.N. DESCRIPTION INIT. DATE

DRAWN BY: JASON ZHAO

CHK BY: PAUL WAILAND

DWG SIZE **B**

DWG NO: 50020525

REV. 00

SHEET: 2 OF 3

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FRONT RIGHT

HARNESS 03033839

Drawing	CEMI6	CONNECTOR	PIN	HeadUnit	CEMI605
G	J5-1	CF--G01	1	PASS DOCK	FR-Swivel Work
G	J5-2	CF--G04	1	SIDE BEACN	M6-FL (Front/hood)
G	J5-3	CF--G11	1	SIDE BEACN	M6-FR-1 pylon
G	J5-4	CF--G11	2	SIDE BEACN	M6-FR-2 pylon
G	J5-5	CF--G11	3	MARKER	Pylon Marker Light (Non-flashing)
G	J5-6	CF--G11	4	BRAKE	Pylon Brake Light
G	J5-7	CF--G05/6	1	MARKER	Marker (General Purpose)
G	J5-8	CF--G08	4	TLBX Beacon	Flash/Warn
G	J6-1	CF--G09	1	U/L work	L-U/L work
G	J6-2	CF--G09	3	U/L work	R-U/L work
G	J6-3	CF--G13	1	MARKER(NO FLASH) TOOL BOX	boomside flbx accent rear (Rear-8PCS)
G	J6-4	CF--G07/12	1	TOOL BOX	TLBX LITE
G	J6-5	CF--G14	1	TOOL BOX	TLBX LITE
G	J6-6	CF--G08	2	TOOL BOX	DOOR HANDEL LITE (NON FLASH)
G	J6-7	CF--G02	1	TOOL BOX	Front Under flbx accent light (Front-8PCS)
G	J6-8	CF--G03	1	MARKER	Front Glo Light

HARNESS 03033838

HC4_2	CONNECTOR	PIN	HeadUnit	HC4
1	CF-F01	1	AUX BEACON	whelen mini (10x10)
2	CF-F01	2	DRVR DOCKSIDE WORK	RAZOR/HI20
3	CF-F01	3	DRVR DOCKSIDE WORK	RAZOR/HI20
4	CF-F01	4	SWIVEL WORK	SPARE

HARNESS 03033842

CEMI610	HeadUnit	CONNECTOR	PIN
DUOR1-C1	SIDE BEACN	CF-K01	1
DUOR1-C2	SIDE BEACN	CF-K01	2
DUOR2-C1	SIDE BEACN	CF-K03	1
DUOR2-C2	SIDE BEACN	CF-K03	2
DUOR3-C1	SIDE BEACN	CF-K05	1
DUOR3-C2	SIDE BEACN	CF-K05	2
DUOR4-C1	SIDE BEACN	CF-K07	1
DUOR4-C2	SIDE BEACN	CF-K07	2
M6VR1-M6	SIDE BEACN	CF-K02	1
M6VR1-DK	PASS DOCK	CF-K02	2
M6VR2-M6	SIDE BEACN	CF-K04	1
M6VR2-DK	PASS DOCK	CF-K04	2
M6VR3-M6	SIDE BEACN	CF-K06	1
M6VR3-DK	PASS DOCK	CF-K06	2
M6VR4-M6	SIDE BEACN	CF-K08	1
M6VR4-DK	PASS DOCK	CF-K08	2

TUNNEL BOX

HARNESS 03034764

DRAWING	CEMI6	CONNECTOR	PIN	HeadUnit	CEMI606
X	J5-1	CF-X14, CF-X15	1	TLBX LITE	LH
X	J5-1	CF-X32	3	TLBX LITE	LH
X	J5-2	CF-X05, CF-X19	2	flbx beacon	Flashing/warning
X	J5-2	CF-X32	4	flbx beacon	Flashing/warning
X	J5-3	CF-X04	1	Marker	GLO/Millinum
X	J5-4	CF-X06	1	UPPER WORK	LH
X	J5-5	CF-X08	1	SIDE BEACON	LH M6
X	J5-6	CF-X08	2	SIDE BEACON	LH M6 C2
X	J5-7	CF-X07	1	Dock	LH
X	J5-8	CF-X09, CF-X010, CF-X12, CF-X13	2	Marker	LH (Bottom)
X	J5-8	CF-X07	1	Marker	LH (Bottom)
X	J6-1	CF-X16, CF-X17	1	TLBX LITE	RH
X	J6-1	CF-X32	2	TLBX LITE	RH
X	J6-2	CF-X05, CF-X19	3	TLBX LITE	Door handle/Accent
X	J6-2	CF-X25, CF-X11	1	TLBX LITE	Door handle/Accent
X	J6-2	CF-X32	6	TLBX LITE	Door handle/Accent
X	J6-3	CF-X18	1	Marker	GLO/Millinum
X	J6-4	CF-X20	1	Upper Work	RH
X	J6-5	CF-X22	1	SIDE BEACON	RH M6
X	J6-6	CF-X22	2	SIDE BEACON	RH M6 C2
X	J6-7	CF-X21	1	Dock	RH
X	J6-8	CF-X21, CF-X23, CF-X24, CF-X26, CF-X27	1	Marker	RH (Bottom)
X	J6-8	CF-X21	2	Marker	RH (Bottom)

FRONT LEFT

HARNESS 03033837

Drawing	CEMI6	CONNECTOR	PIN	HeadUnit	CEMI602
E	J5-1	CF-E01	1	DRVR DOCK	Swivel Work-FL
E	J5-2	CF-E04	1	SIDE BEACN	M6-FL (Front/hood)
E	J5-3	CF-E11	1	SIDE BEACN	M6-FL-1 pylon
E	J5-4	CF-E11	2	SIDE BEACN	M6-FL-2 pylon
E	J5-5	CF-E11	3	UPPER WORK	Pylon Work Light-L
E	J5-6	CF-E11	4	UPPER WORK	Pylon Work Light-R
E	J5-7	CF-E05/6	1	MARKER	Marker (General Purpose)
E	J5-8	CF-E08	4	TLBX Beacon	Flash/Warn
E	J6-1	CF-E09	1	PTO	PTO
E	J6-2	CF-E10	1	CONTROLS	Controls PWR.
E	J6-3	CF-E13	1	MARKER(NO FLASH) TOOL BOX	boomside flbx accent rear (Rear-8PCS)
E	J6-4	CF-E07/12	1	TOOL BOX	TLBX LITE
E	J6-5	CF-E14	1	TOOL BOX	TLBX LITE
E	J6-6	CF-E08	2	TOOL BOX	DOOR HANDEL LITE (NON FLASH)
E	J6-7	CF-E02	1	TOOL BOX	Front Under flbx accent light (Front-8PCS)
E	J6-8	CF-E03	1	MARKER	Front GLO LITE

HARNESS 03033842

CEMI607	HeadUnit	CONNECTOR	PIN
DUO1F-C1	SIDE BEACN	CF-K01	1
DUO1F-C2	SIDE BEACN	CF-K01	2
DUO2-C1	SIDE BEACN	CF-K03	1
DUO2-C2	SIDE BEACN	CF-K03	2
DUO3-C1	SIDE BEACN	CF-K05	1
DUO3-C2	SIDE BEACN	CF-K05	2
DUO4R-C1	SIDE BEACN	CF-K07	1
DUO4R-C2	SIDE BEACN	CF-K07	2
M6V1F-M6	SIDE BEACN	CF-K02	1
M6V1F-DK	DRVR DOCK	CF-K02	2
M6V2-M6	SIDE BEACN	CF-K04	1
M6V2-DK	DRVR DOCK	CF-K04	2
M6V3-M6	SIDE BEACN	CF-K06	1
M6V3-DK	DRVR DOCK	CF-K06	2
M6V4R-M6	SIDE BEACN	CF-K08	1
M6V4R-DK	DRVR DOCK	CF-K08	2

HARNESS 03033838

HC4_1	CONNECTOR	PIN	HeadUnit	HC4
1	CF-F01	1	AUX BEACON	whelen mini (10x10)
2	CF-F01	2	DRVR DOCKSIDE WORK	RAZOR/HI20
3	CF-F01	3	DRVR DOCKSIDE WORK	RAZOR/HI20
4	CF-F01	4	SWIVEL WORK	SPARE

Core R	CONN	HeadUnit	Core R_1
J-4	J3	CNTL	CONTROLS PWR.

CORE R INPUTS

CONNECTOR	PINOUT	Plug Position	Label	Wire Color
N/A	N/A	J3-1	Battery	Red (+)
DT06-08SA	1	J3-2	Left Turn	Wht/Brn (+)
DT06-08SA	2	J3-3	Right Turn	Wht/Red (+)
DT06-08SA	3	J3-4	Brake	Wht/Org (+)
DT06-08SA	4	J3-5	Marker	Brn (+)
N/A	N/A	J3-6	Ground	Blk
DT06-08SA	5	J3-7	Ignition	Red/Wht (+)
DT06-08SA	6	J3-8	Reverse	Org (+)
DT06-08SA	7	J3-9	LOCK/UNLOCK	Yel (+)
DT06-08SA	8	J3-10	E-Stop	Grn (+)

HARNESS 03033836

Drawing	CEMI6	CONNECTOR	PIN	HeadUnit	CEMI604
D	J5-1	CF-D02	1	SIDE BEACN	M6-R1
D	J5-2	CF-D01	2	Marker Non-Flashing	Center Turn Right
D	J5-3	CF-D04	1	PASS DOCK	PASS DOCK-R1
D	J5-4	CF-D04/5/6	2	MARKER	DOCK MARKER-R1/2/3
D	J5-5	CF-D05	1	PASS DOCK	PASS DOCK-R2
D	J5-6	CF-D06	1	PASS DOCK	PASS DOCK-R3
D	J5-7	CF-D07	1	SIDE BEACN	M6-R2
D	J5-8	CF-D09/11	1	MARKER	MARKER (General Purpose)
D	J6-1	CF-D12	1	SIDE BEACN	M6-R3
D	J6-2	CF-D13	1	SIDE BEACN	M6-R4
D	J6-3	CF-D14	1	LOWER WORK	Lower Work-R
D	J6-4	CF-D15	1	SWIVEL WORK	Swivel Work-R
D	J6-5	CF-D08	1	CONTROLS	Controls PWR.-R
D	J6-6	CF-D01	3	RIGHT TURN	right turn
D	J6-7	CF-D10	1	TOOL BOX	TLBX LITE
D	J6-8	CF-D03	1	MARKER	Rear GLO LITE

HARNESS 03033842

CEMI609	HeadUnit	CONNECTOR	PIN
DUO1F-C1	SIDE BEACN	CF-K01	1
DUO1F-C2	SIDE BEACN	CF-K01	2
DUO2-C1	SIDE BEACN	CF-K03	1
DUO2-C2	SIDE BEACN	CF-K03	2
DUO3-C1	SIDE BEACN	CF-K05	1
DUO3-C2	SIDE BEACN	CF-K05	2
DUO4R-C1	SIDE BEACN	CF-K07	1
DUO4R-C2	SIDE BEACN	CF-K07	2
M6V1F-M6	SIDE BEACN	CF-K02	1
M6V1F-DK	DRVR DOCK	CF-K02	2
M6V2-M6	SIDE BEACN	CF-K04	1
M6V2-DK	DRVR DOCK	CF-K04	2
M6V3-M6	SIDE BEACN	CF-K06	1
M6V3-DK	DRVR DOCK	CF-K06	2
M6V4R-M6	SIDE BEACN	CF-K08	1
M6V4R-DK	DRVR DOCK	CF-K08	2

HARNESS 03033844

J2-1	and	Rear
J2-2	and	
J2-3	and	
J2-4	and	
J2-5	and	Middle
J2-6	and	
J2-7	and	
J2-8	and	Front
J2-9	+batt	
J2-10	+batt	

MILLENNIUM LIGHTS REAR RIGHT

REAR RIGHT

REAR LEFT

MILLENNIUM LIGHTS REAR LEFT

HARNESS 03033844

J2-1	and	Rear
J2-2	and	
J2-3	and	
J2-4	and	
J2-5	and	Middle
J2-6	and	
J2-7	and	
J2-8	and	Front
J2-9	+batt	
J2-10	+batt	

HARNESS 03033835

Drawing	CEMI6	CONNECTOR	PIN	HeadUnit	CEMI603
C	J5-1	CF-C02	1	SIDE BEACN	M6-L1
C	J5-2	CF-C01	2	Marker NonFlashing	Center Turn Left
C	J5-3	CF-C04	1	DRVR DOCK	DRVR DOCK-L1
C	J5-4	CF-C04/5/6	2	MARKER	DOCK MARKER-L1/2/3
C	J5-5	CF-C05	1	DRVR DOCK	DRVR DOCK-L2
C	J5-6	CF-C06	1	DRVR DOCK	DRVR DOCK-L3
C	J5-7	CF-C07	1	SIDE BEACN	M6-L2
C	J5-8	CF-C09/11	1	MARKER	MARKER (General Purpose)
C	J6-1	CF-C12	1	SIDE BEACN	M6-L3
C	J6-2	CF-C13	1	SIDE BEACN	M6-L4
C	J6-3	CF-C14	1	LOWER WORK	Lower Work-L
C	J6-4	CF-C15	1	SWIVEL WORK	Swivel Work-L
C	J6-5	CF-C08	1	CONTROLS	Controls PWR.-L
C	J6-6	CF-C01	3	LEFT TURN	left turn
C	J6-7	CF-C10	1	TOOL BOX	TLBX LITE
C	J6-8	CF-C03	1	MARKER	Rear GLO LITE

HARNESS 03033842

CEMI608	HeadUnit	CONNECTOR	PIN
DUO1F-C1	SIDE BEACN	CF-K01	1
DUO1F-C2	SIDE BEACN	CF-K01	2
DUO2-C1	SIDE BEACN	CF-K03	1
DUO2-C2	SIDE BEACN	CF-K03	2
DUO3-C1	SIDE BEACN	CF-K05	1
DUO3-C2	SIDE BEACN	CF-K05	2
DUO4R-C1	SIDE BEACN	CF-K07	1
DUO4R-C2	SIDE BEACN	CF-K07	2
M6V1F-M6	SIDE BEACN	CF-K02	1
M6V1F-DK	DRVR DOCK	CF-K02	2
M6V2-M6	SIDE BEACN	CF-K04	1
M6V2-DK	DRVR DOCK	CF-K04	2
M6V3-M6	SIDE BEACN	CF-K06	1
M6V3-DK	DRVR DOCK	CF-K06	2
M6V4R-M6	SIDE BEACN	CF-K08	1
M6V4R-DK	DRVR DOCK	CF-K08	2



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FILE NAME: 50020525

CORPORATE ENGINEERING

8503 HILLTOP DR. OOLTEWAH, TN 37363
(423) 238-4171

SCH. TYPE: Wiring
DRW. DATE: 12/9/2024
MOD. DATE:
CHK. DATE: 12/18/2024

DESCRIPTION:

MITT-ILC INTEGRATED BLOCK DIAGRAM

HARNESING TERMINATION TABLES

DRAWN BY: JASON ZHAO
CHK BY: PAUL WAILAND

SHEET: 3 OF 3

DWG SIZE

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