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Description of Errorcodes (3):

Error number	Reason	Ignition is ON	Ignition is OFF	Ignition is switched from IFF of On	Keyswitch is turned into Start Posistion	Condition for testing	Reset of Error	Reaction of System and Comment
011	Pin 11 (Rear Work Lamp) is shorten to ground or current overload or ove-temperatur.	X				Rear Work Lamp is powered	Ignition is turned from OFF to ON Check cable harness for short cicuit to 0V.	Rear Work Lamp will turned off immediately
019	Pin 19 (Stoplamp is shorten)is shorten to ground Or current overload or over-temperatur.	X				Stop Lamp is powered	Ignition is turned from OFF to ON Check cable harness for short cicuit to 0V.	Stoplamp will turned off immediately
900	Error of The causing Pinnumber can't be determind.	X				Two or more Pins causing error	Ignition is turned from OFF to ON Check cable harness for short cicuit to 0V.	The erroneous Pin will NOT turned off. Only the current limitation of the FET works. This error can happen if more than one short circuits appear. Call the Maintainance Staff a.s.a.p. to Prevent damage of Pod or Truck.
404	Pod	X				Head Lamp Left is powered	Ignition is turned from OFF to ON Check cable harness for short circuit to 0V.	It will be checked continously while Ignition is on. If the error is not reset, Call the Maintainance Staff a.s.a.p. to prevent damage of Pod or Truck.

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Description of Errorcodes (2):

Error number	Reason	Ignition is ON	Ignition is OFF	Ignition is switched from IFF of On	Keyswitch is turned into Start Poslstion	Condition for testing	Reset of Error	Reaction of System and Comment
033	Pin 33 (Startrelay)is shorten to Power(+12V)	X				Starter Motor is starting	Ignition is turned from OFF to ON Check cable harness for short cicuit to +12V and check the Start Relay.	Preheat relay will not turned on immediately
038	Pin 38 (Preheatrelay) is shorten to Power(+12V)	X				Glowplug is powered	Ignition is turned from OFF to ON Check cable harness for short cicuit to +12V and check the Preheat Relay	Preheat relay will not turned on immediately
030	Pin 30(Headlamp Right) is shorten to ground Or current overload or over-temperatur.	X				Head Lamp Right is powered	Ignition is turned from OFF to ON. Check cable harness for short cicuit to 0V.	Headlamp Right will turned off immediately
021	Pin 21(Headlamp Right) is shorten to ground Or current overload or over-temperatur.	X				Head Lamp Left is powered	Ignition is turned from OFF to ON Check cable harness for short circuit to 0V.	Headlamp Left will turned off immediately
012	Pin 12(Engine shutdown)is shorten to ground Or current overload or over-temperatur.	X				Lgnition Highside is powered	Ignition is turned from OFF to ON Check cable harness for check the Engine shutdown Relay.	Ignition(E.shutdown relay) will turned off immediately(This causes the engine to stop)

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Description of Errorcodes (1):

Error number	Reason	Ignition is ON	Ignition is OFF	Ignition is switched from IFF of On	Keyswitch is turned into Start Posission	Condition for testing	Reset of Error	Reaction of System and Comment
014	Pin 14 (Direction forward)is open wire.	X		X	X	Parkingbrake is not applied and Direction is Neutral	Ignition off Check the mainconnector and cable harness for bad connection.	Error checking is contineously during Ignition on and will be displayed immediately. If this error is happened at the key is off. The ignition will not be turned on, through the key is turned on. The ignition will not be turned off if the engine already run.
005	Pin 5 (direction reverse) is open wire	X		X	X	Parkingbrake is not applied and Direction is Neutral	Ignition off Check the mainconnector and cable harness for bad connection	Error checking is contineously during Ignition on and will be displayed immediately. If this error is happened at the key is off. The ignition will not be turned on, though the key is turned on. The ignition will not be turned off if the engine already run.
018	Pin 18(Fuel sensor) or Pin 27(Gas/ LPG)is open wire or short circuit.			X		Fuel is not LPG	Ignition off Check the Mainconnector and cable harness for bad connection.	If Gas or Dieeel is selected, the Fuel Sensor mustn't be +12V or 0V. If LPG is selected the Fuel must be +12V or 0V.
025	Pin 25(Horn) is shorten to Power(+12V)	X	X			Horn is on	Ignition is turned from OFF to ON Check cable harness for short circuit to +12V.	Horn will turned off immediately
029	Pin 29 (Hazardlight) is shorten to ground Or current overload or over-temperatur	X				Hazard Light is powered	Ignition is turned from OFF to ON Check cable harness for short cicuit to 0V.	Hazardlight will turned off immediately
020	Pin 20(barkuplig ht) is shorten to ground Or current overload or over-temperatur.	X				Backup Alarm is powered Ignition is turned from OFF to ON Check cable harness for short cicuit to 0V.	Ignition is turned from OFF to ON Check cable harness for short cicuit to 0V.	Backup Alarm will turned off immediately.

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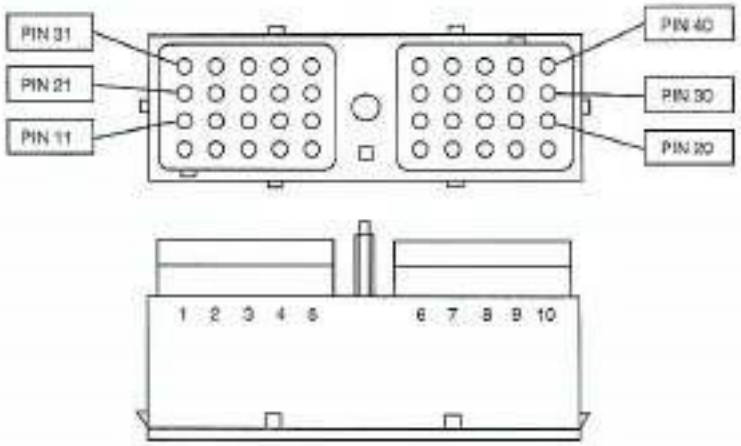
Connector Terminal Arrangement



Pin No	Wire Color	Remark
1	LW	485+
2	LB	485-
3	GY	T/Sig LH
4	GR	T/Sig RH
5	LW	REV
6	-	-
7		
8	GB	Seat Switch
9	YW	E/Oil Pressure
10	YG	T/Oil Temp
11	RY	Rear Work
12	W	Engine Shutdown
13	L	Stop Switch
14	LR	FWD
15	RW	Start
16	GR	Engine check
17	YR	Engine Coolant Temp
18	YL	Fuel Sender
19	RL	Stop Light
20	LW	Backup Alarm & Light

Pin No	Wire Color	Remark
21	RG	Head & Tail & Lic RH
22	WB	Charger
23	G	P/Brake Switch
24	R	IG
25	G	Horn Switch
27	YG	Gas/LPG Switch(GAS/LPG Only)
28	-	-
28	-	-
30	RB	Head & Tail LH
31	R	B+
32	R	B+
33	RB	Start Relay
34	-	-
35	B	GND
36	B	GND
37	-	-
38	*RG	*Glow Plug(DSL Only)
39	R	B+
40	R	B+

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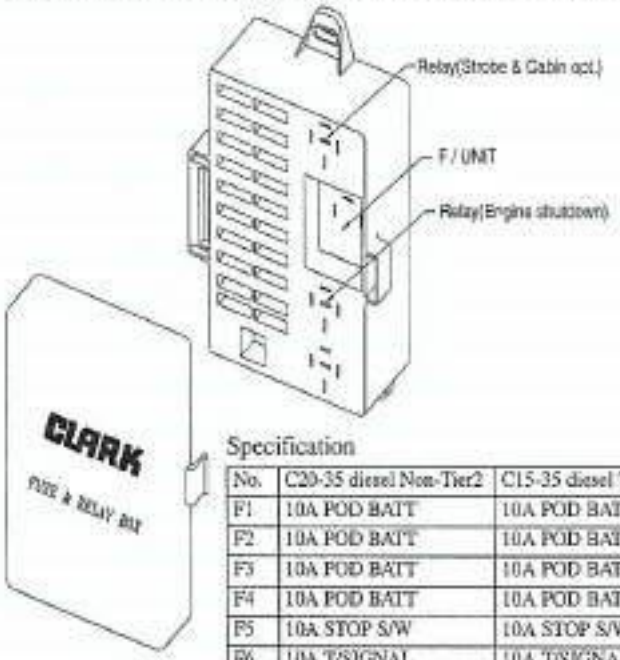
General Electrical Parts

Fuse / Relay Box

Function

This functions to prohibit electrical parts from damaging due to over-current.



Specification

No.	C20-35 diesel Non-Tier2	C15-35 diesel Tier2	C15-35 GAS & LPG Non-Tier2	C15-35 LPG Tier2
F1	10A POD BATT	10A POD BATT	10A POD BATT	20A POD BATT
F2	10A POD BATT	10A POD BATT	10A POD BATT	20A POD BATT
F3	10A POD BATT	10A POD BATT	10A POD BATT	10A T/SIGNAL
F4	10A POD BATT	10A POD BATT	10A POD BATT	10A HORN
F5	10A STOP S/W	10A STOP S/W	10A STOP S/W	20A SECM POWER
F6	10A T/SIGNAL	10A T/SIGNAL	10A T/SIGNAL	20A SECM DIST
F7	15A STOP MOTOR	10A HORN	10A HORN (C15-20s) 5A PUSH BUTTON (C20-35)	20A SECM OPT1
F8	10A ROOM LAMP	10A ROOM LAMP	10A ROOM LAMP	20A SECM OPT2
F9	10A IG	30A SOL RELAY	10A PARK S/W (C15-20s) 10A IG (C20-35)	15A FUEL SHUTOFF
F10	10A PARK S/W	10A PARK S/W	10A FUEL SHUTOFF (C15-20s) 10A PARK S/W (C20-35)	10A ROOM LAMP/ PARK S/W/ STOP SW
F11	10A HORN	15A IG	15A IG (C15-20s) 10A HORN (C20-35)	10A IG
F12	10A DIR. S/W	10A DIR. S/W	10A DIR. S/W	10A DIR. S/W
F13	5A PUSH BUTTON	5A PUSH BUTTON	5A PUSH BUTTON (C15-20s) 10A FUEL SHUTOFF (C20-35)	5A PUSH BUTTON
F14	10A HEATER	15A OPTION	15A OPTION (C15-20s) 10A HEATER (C20-35)	15A OPTION
F15	15A WIPER	10A HEATER	10A HEATER (C15-20s) 15A WIPER (C20-35)	10A HEATER
F16	15A OPTION	15A WIPER	15A WIPER (C15-20s) 15A OPTION (C20-35)	15A WIPER

⚠ CAUTION

Use only fuse of standard capacity in accordance with specification.
Using of fuse exceeding capacity cause severe damages to electrical parts.

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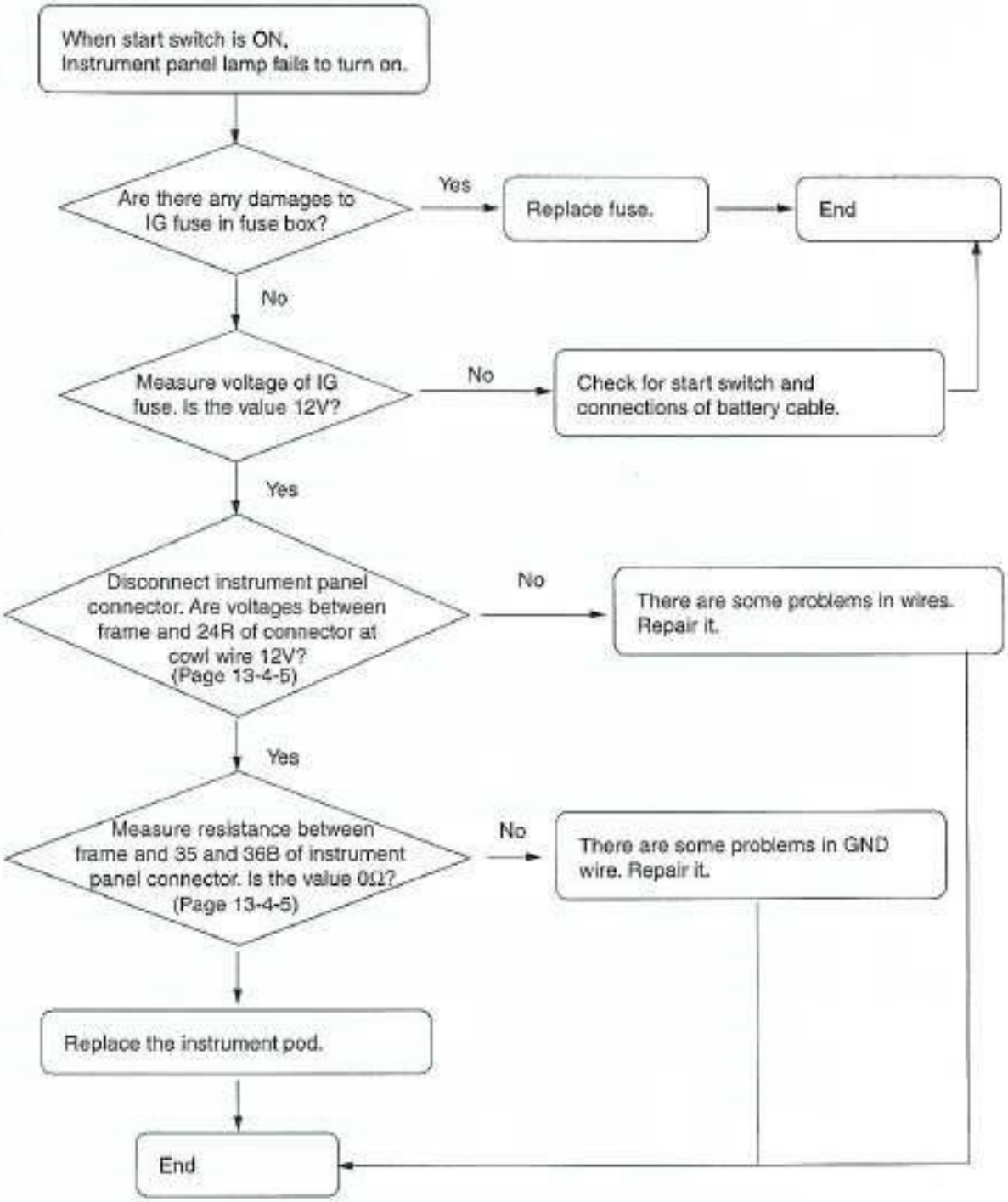
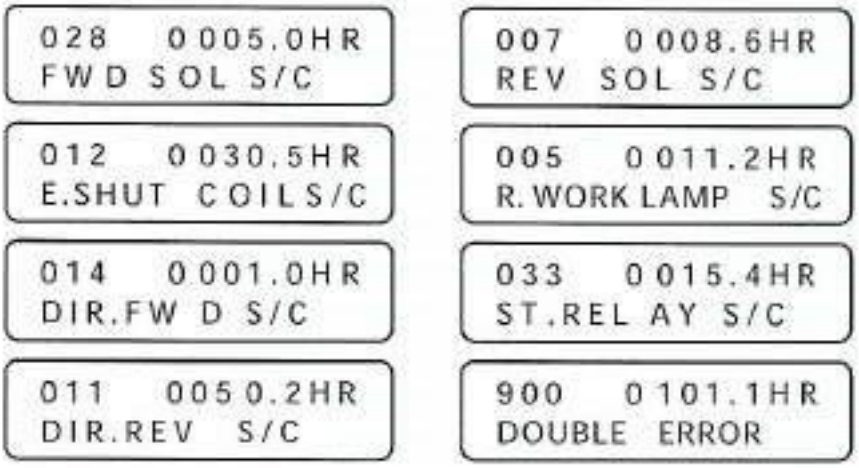
All of Instrument Pod Lamps Fails to Turn On



5.3 Error code

ERROR CODE	ERROR MESSAGE	DESCRIPTION	WIRING NO.
014	DRL FWD S/C	DIRECTION FWD LINE S/C	14
011	DRL REV S/C	DIRECTION REVERSE LINE S/C	11
018	FUEL SENDER S/C	FUEL SENDER S/C	18-DSL, 27-GAS/LPG
025	HORN RELAY S/C	HORN RELAY COIL S/C	25
027	B.UP ALARM S/C	BACK UP ALARM LINE S/C	27
033	ST.RELAY S/C	START RELAY COIL LINE S/C	33
021	GLOW PLUG S/C	PREHEATER RELAY COIL LINE S/C	21
006	HEAD LAMP S/C	HEAD LAMP S/C	6
012	E.SHUT COIL S/C	ENGINE SHUT DOWN RELAY COIL S/C	12
005	R.WORK LAMP S/C	REAR WORK LAMP S/C	5
028	DR.FWD SOL S/C	DIRECTION FORWARD SOL OUT S/C	28
007	DR.REV SOL S/C	DIRECTION REVERSE SOL OUT S/C	7
900	DOUBLE ERROR	ERROR OF THE CAUSING PIN NUMBER CAN'T BE DETERMIND	-
404	INTERNAL SHORT	INTERNAL SHORT	-



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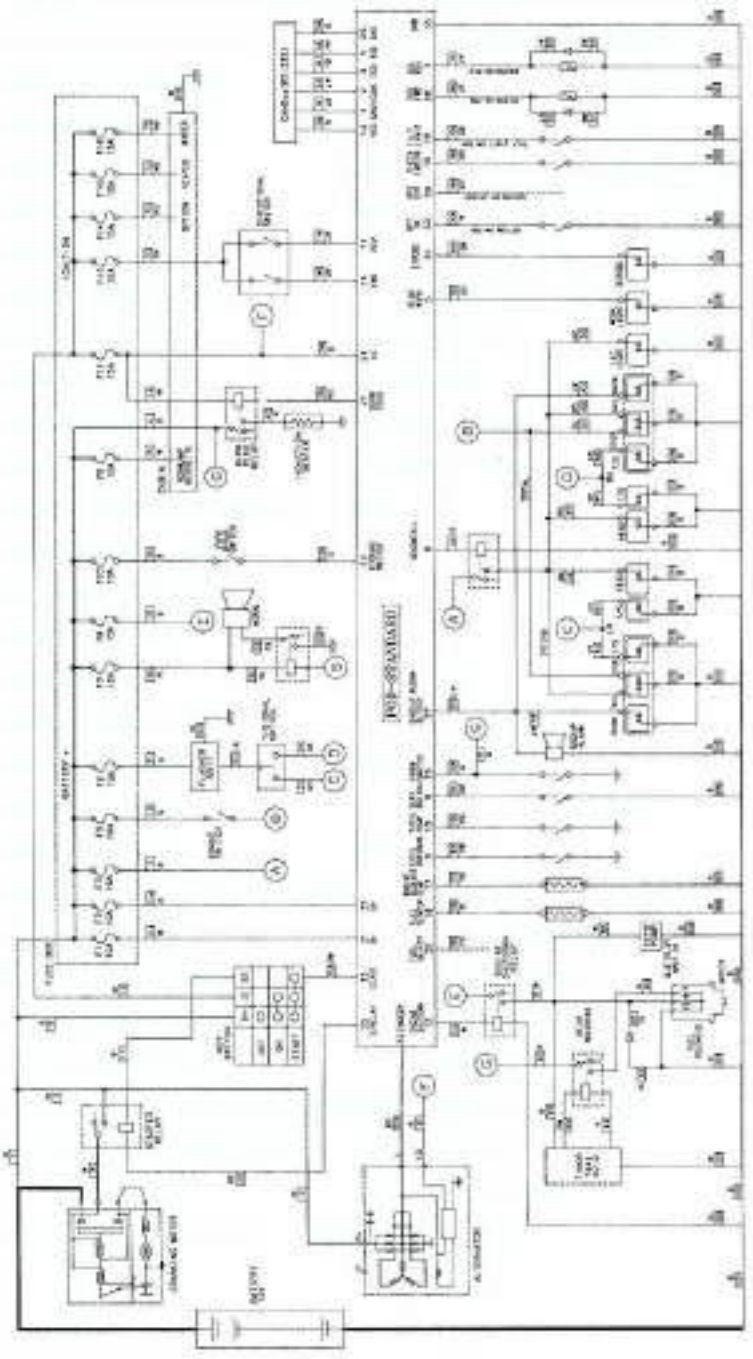
6. Electric wiring

6.1 C20-35DSL electric component

6.1.1 Wiring(IN-28029 1/3)



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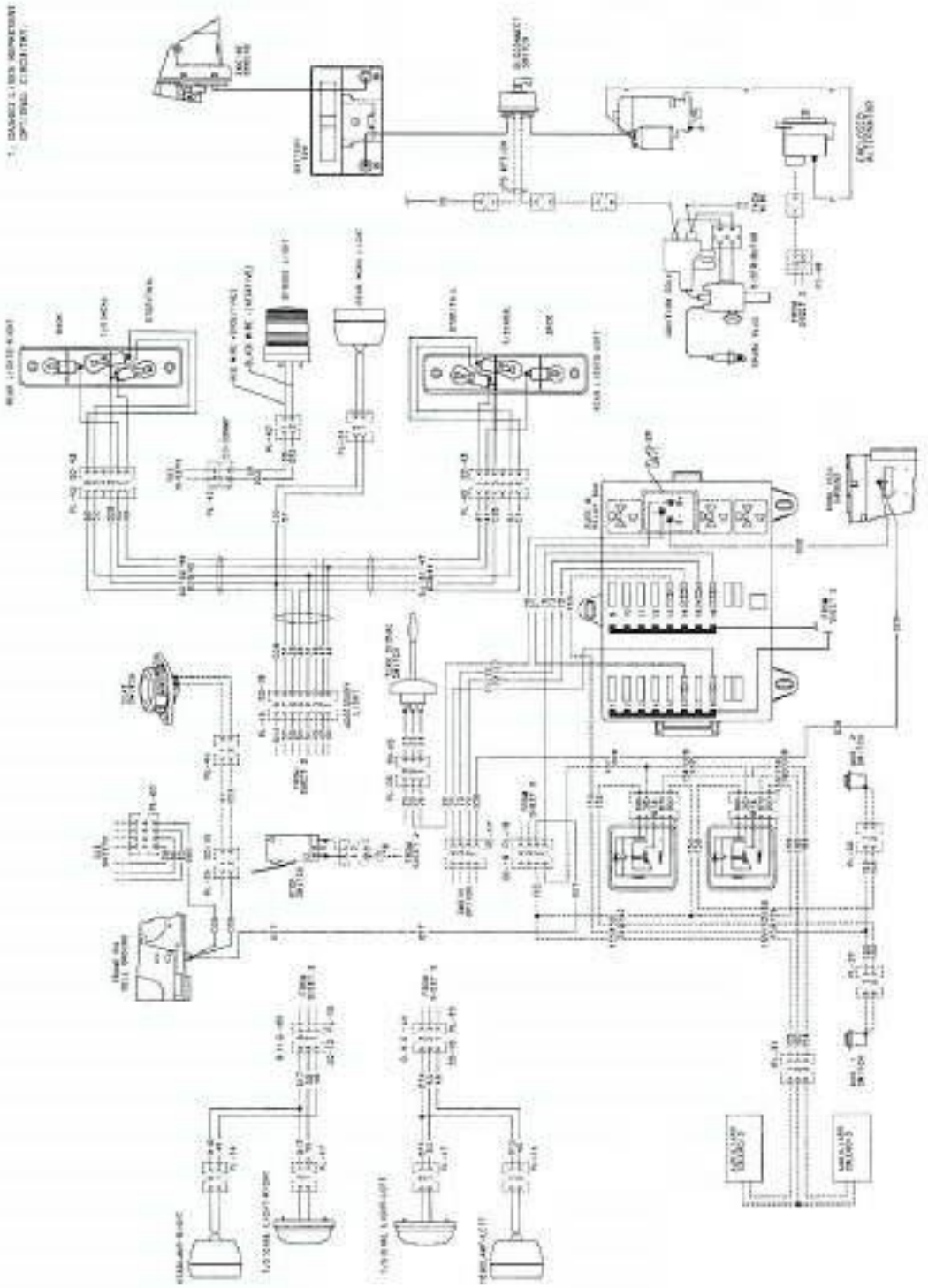
Wiring(IN-28029 3/3)



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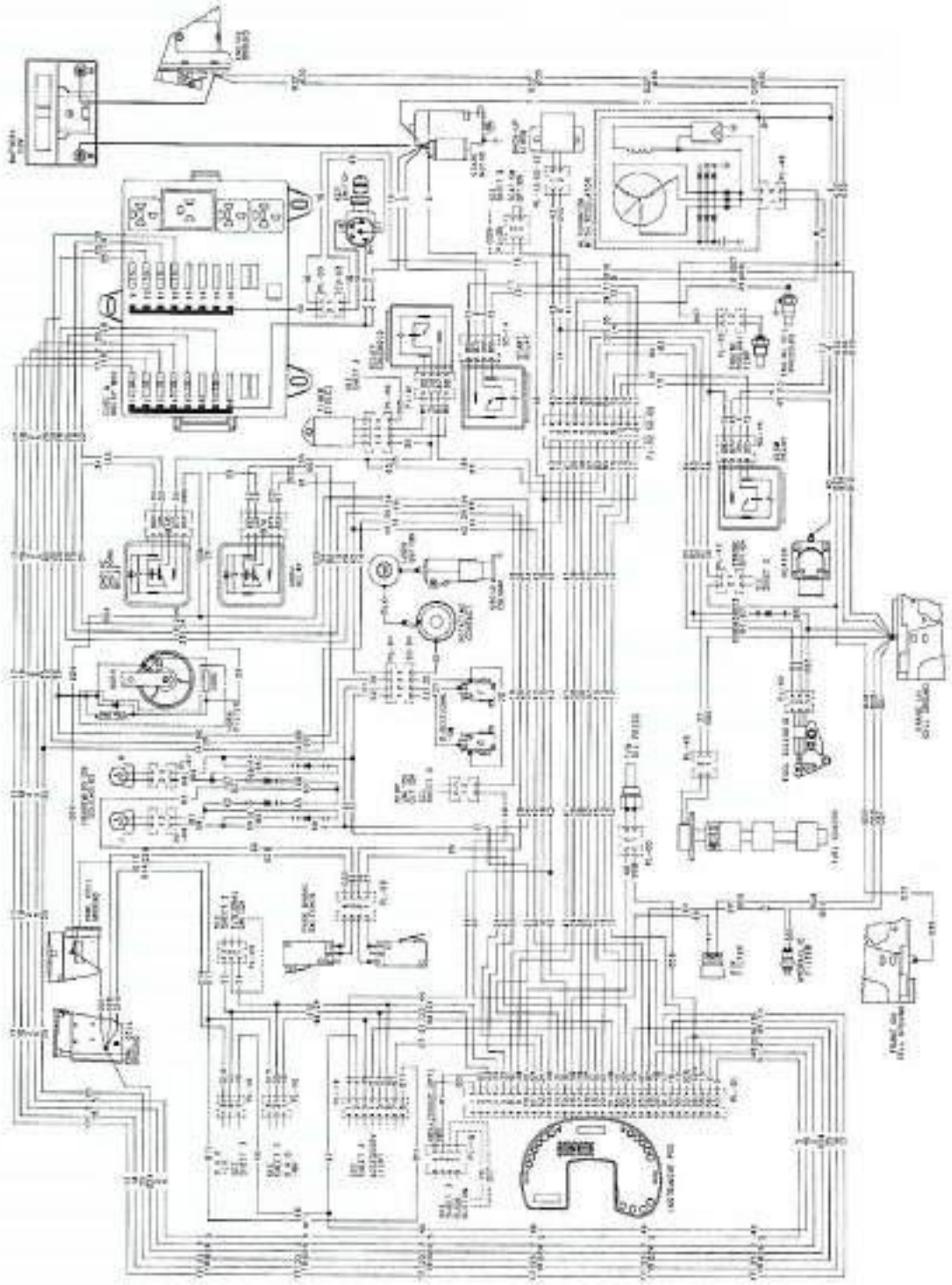
Wiring(IN-28029 2/3)



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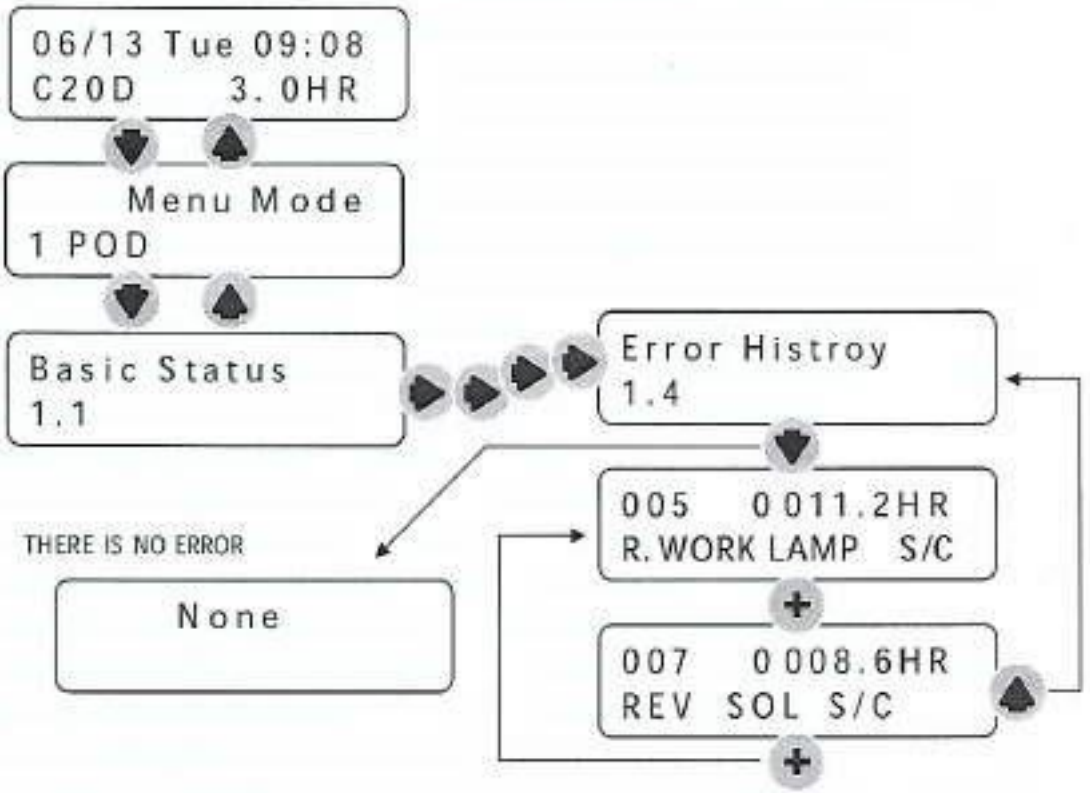
5. Fault diagnosis

5.1 Self diagnostic function

Pod can display and warning the existing error on truck.

5.2 Management of fault history

Pod can store the latest 10 fault history. This history can be used to track the reason of fault.



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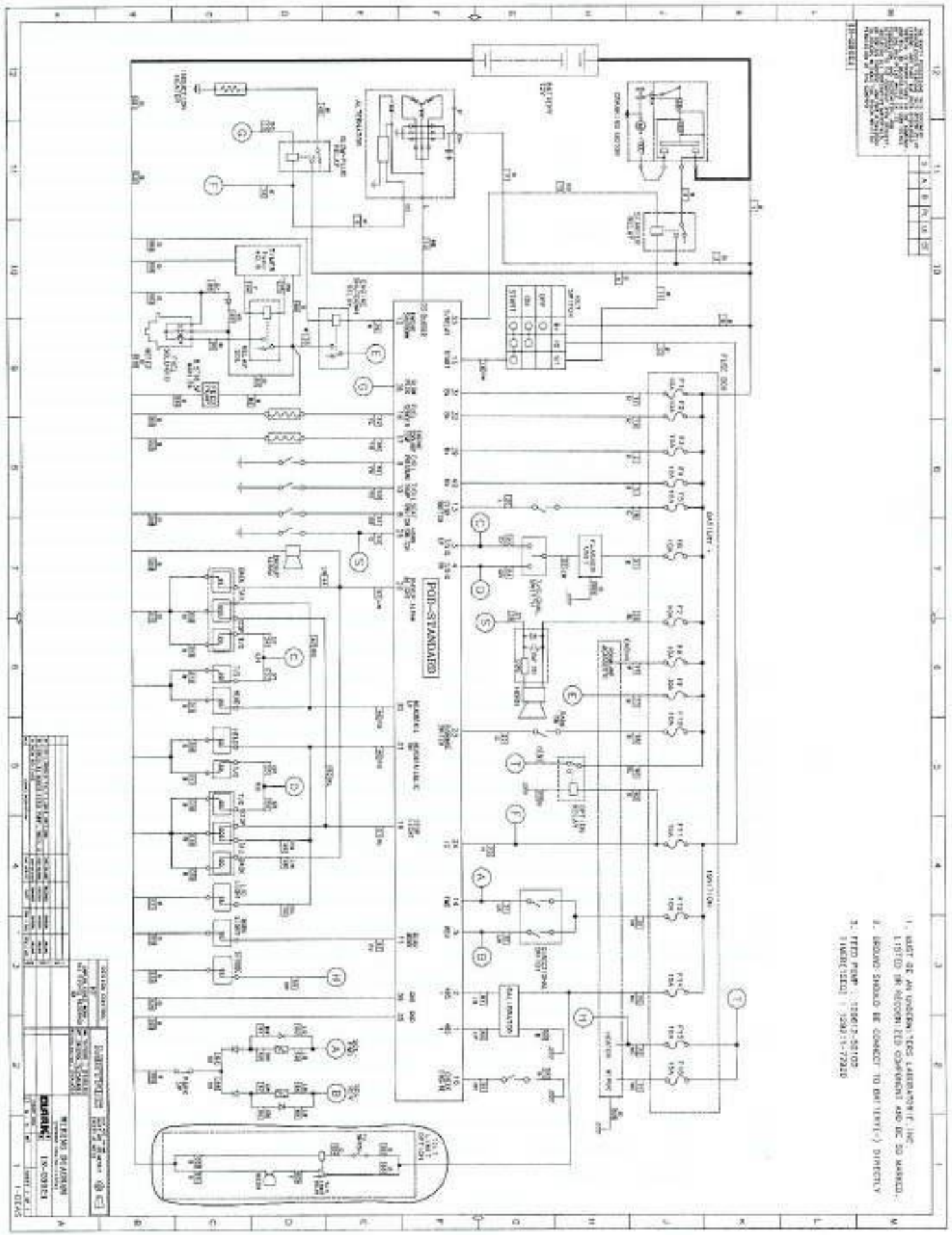

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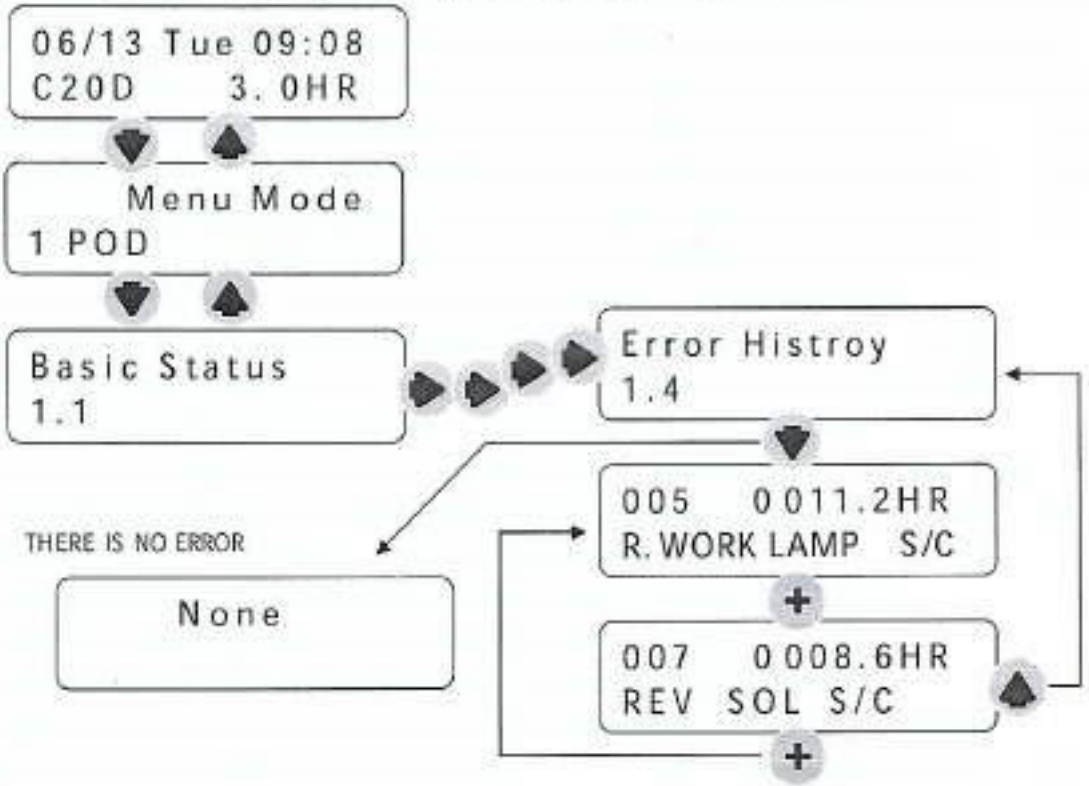

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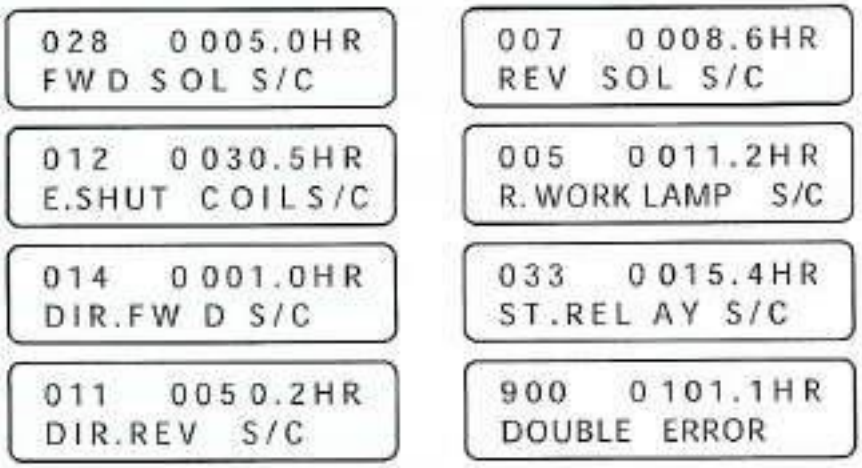
900	DOUBLE ERROR	ERROR OF THE CAUSING PIN NUMBER CAN'T BE DETERMIND	-
404	INTERNAL SHORT	INTERNAL SHORT	-



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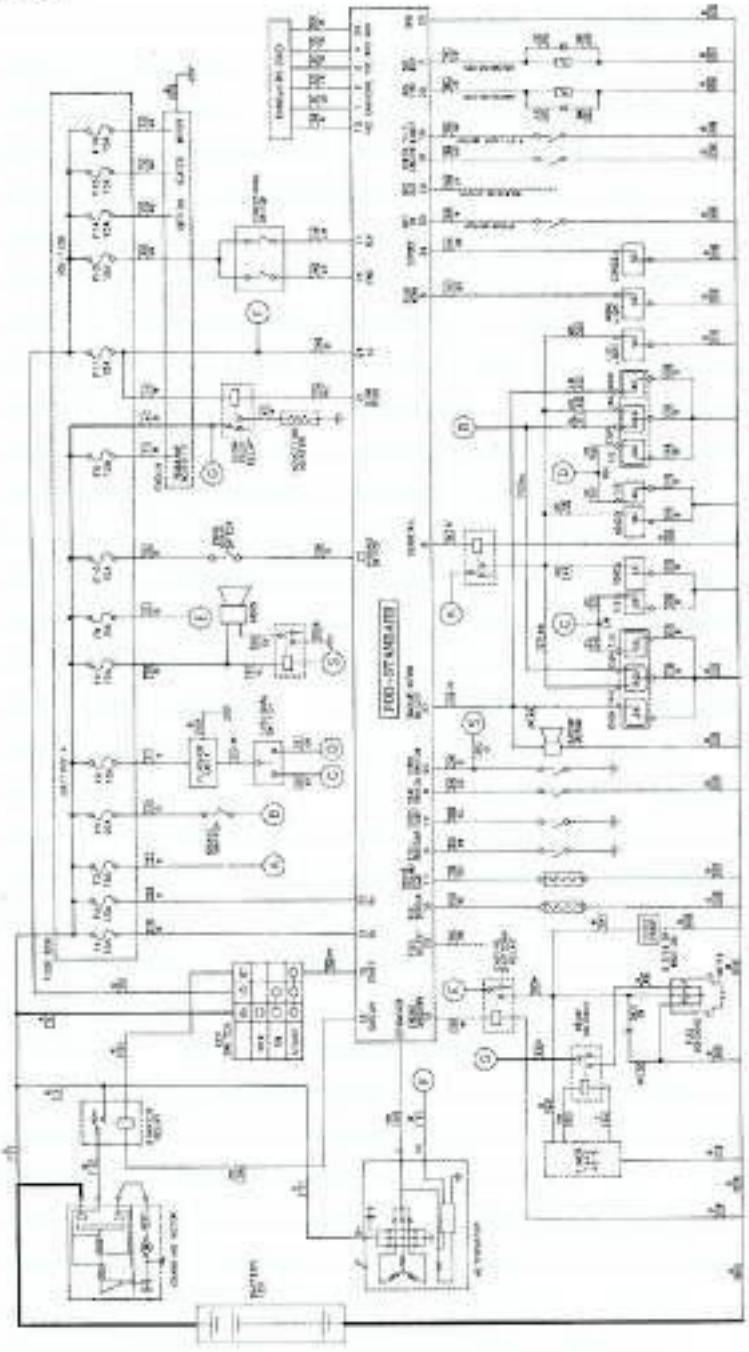
6. Electric wiring

6.1 C20-35DSL electric component

6.1.1 Wiring(IN-28029 1/3)



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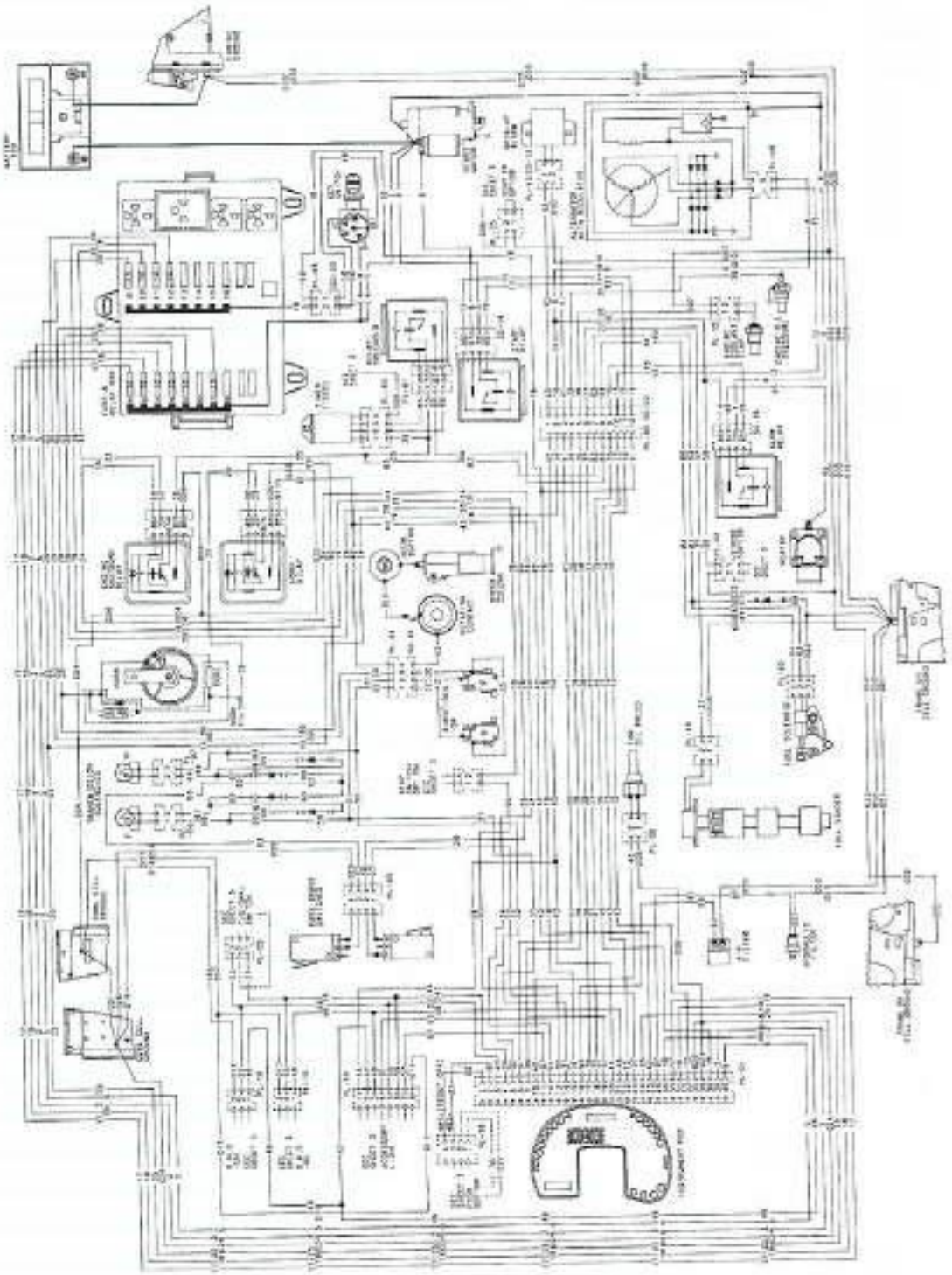
Wiring(IN-28029 2/3)



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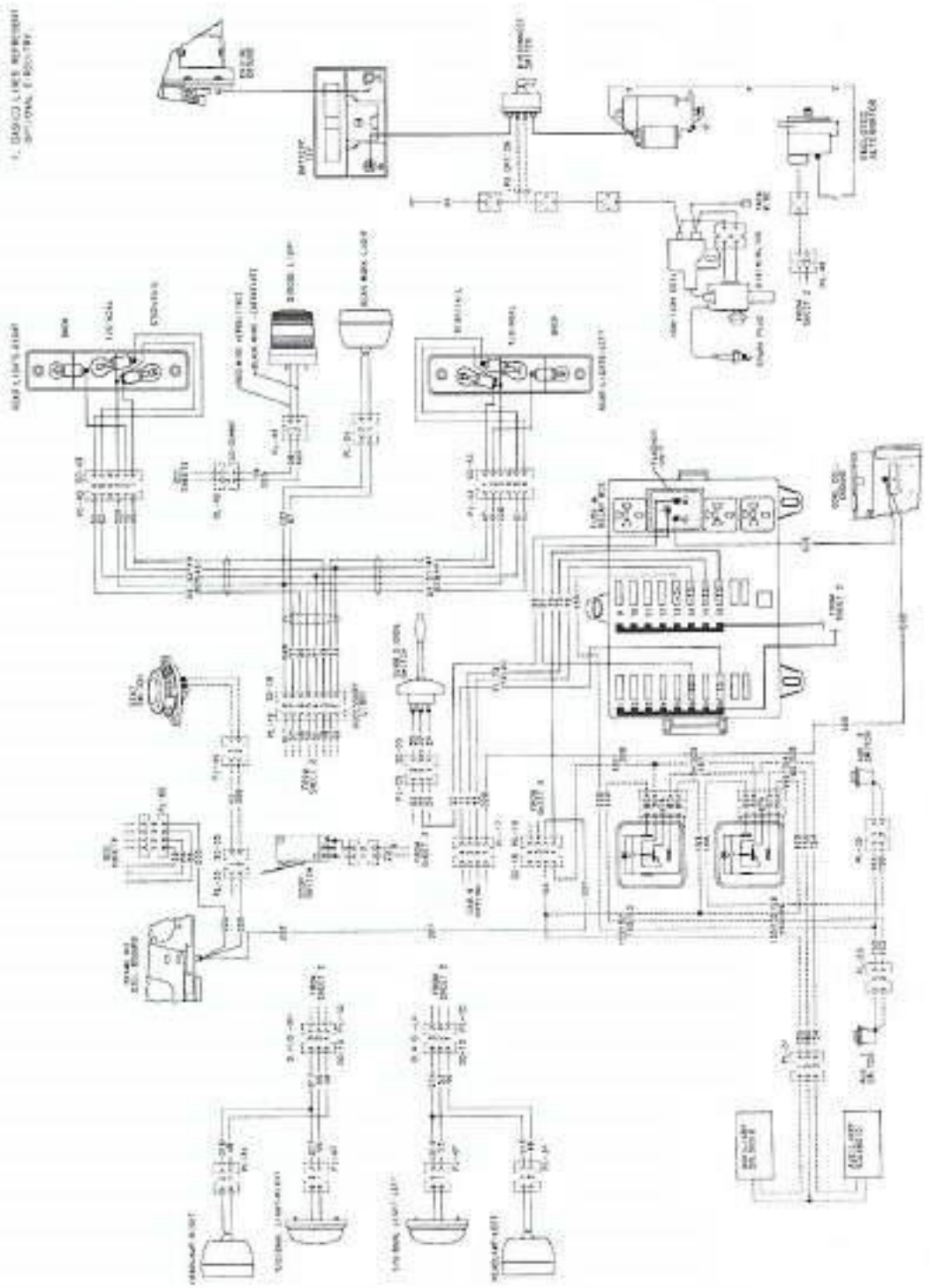
Wiring(IN-28029 3/3)



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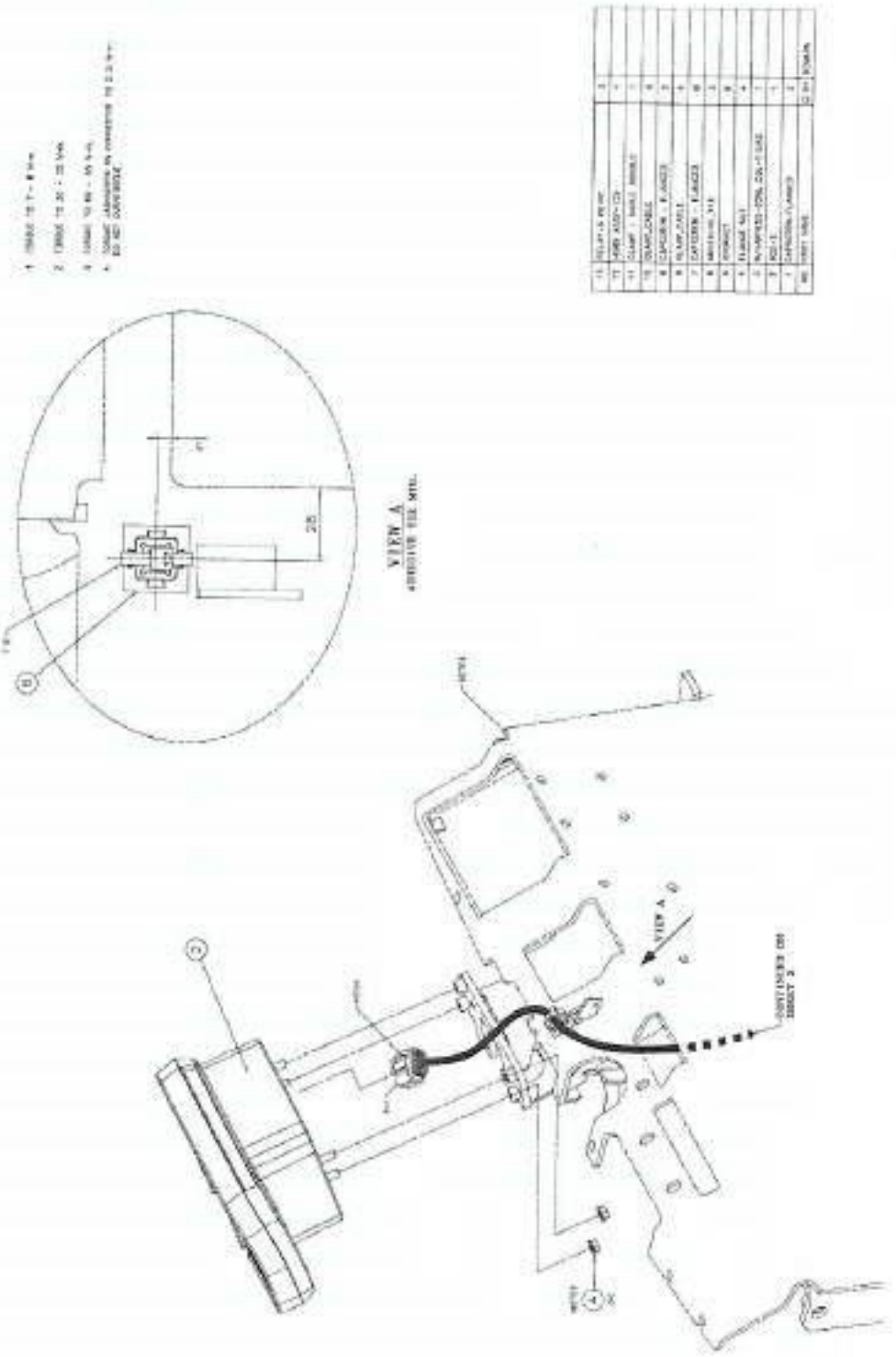
6.1.2 Assembling Drawing(SI-46848 1/6)



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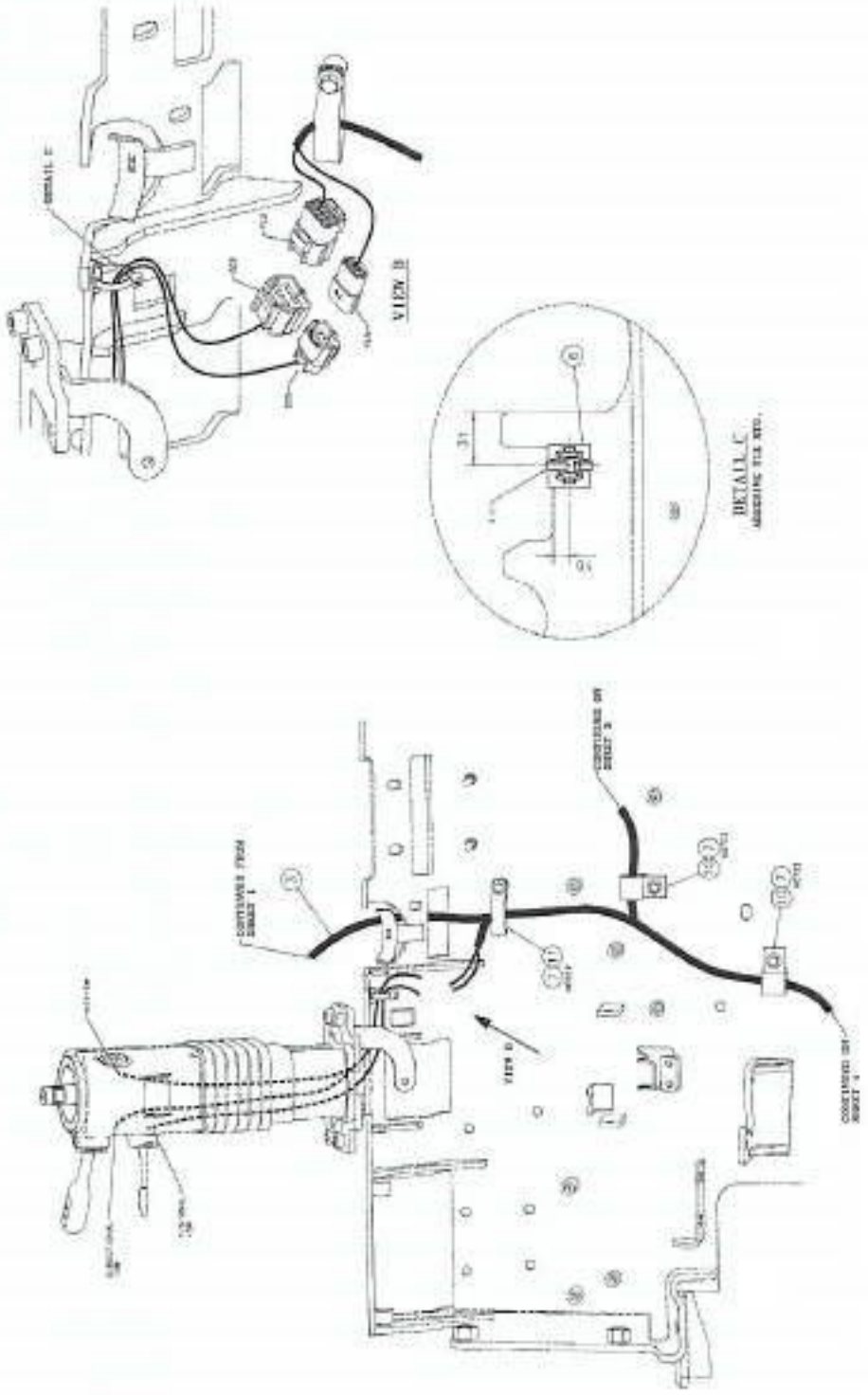
Assembling Drawing(SI-46848 2/6)



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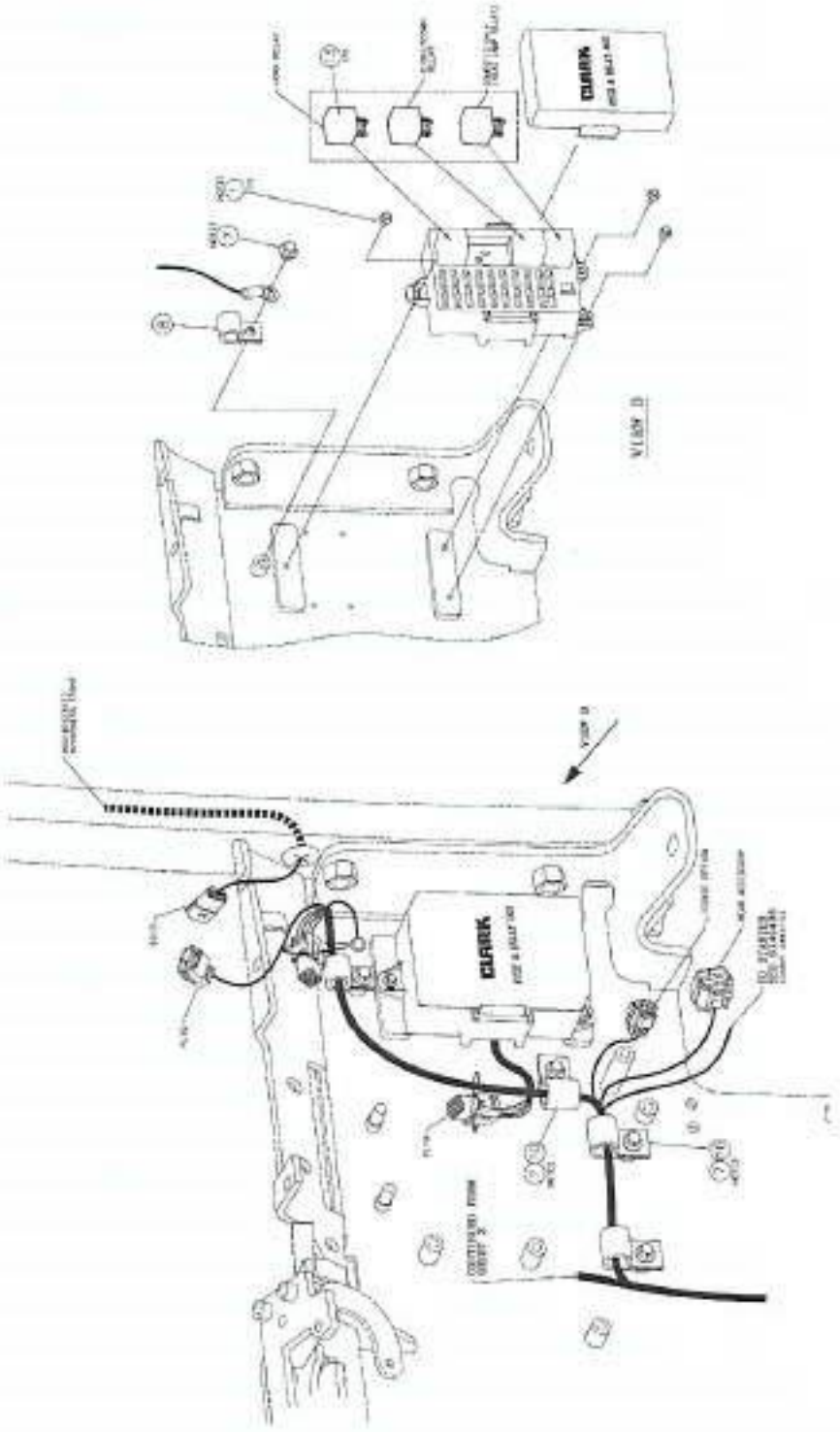
Assembling Drawing(SI-46848 3/6)



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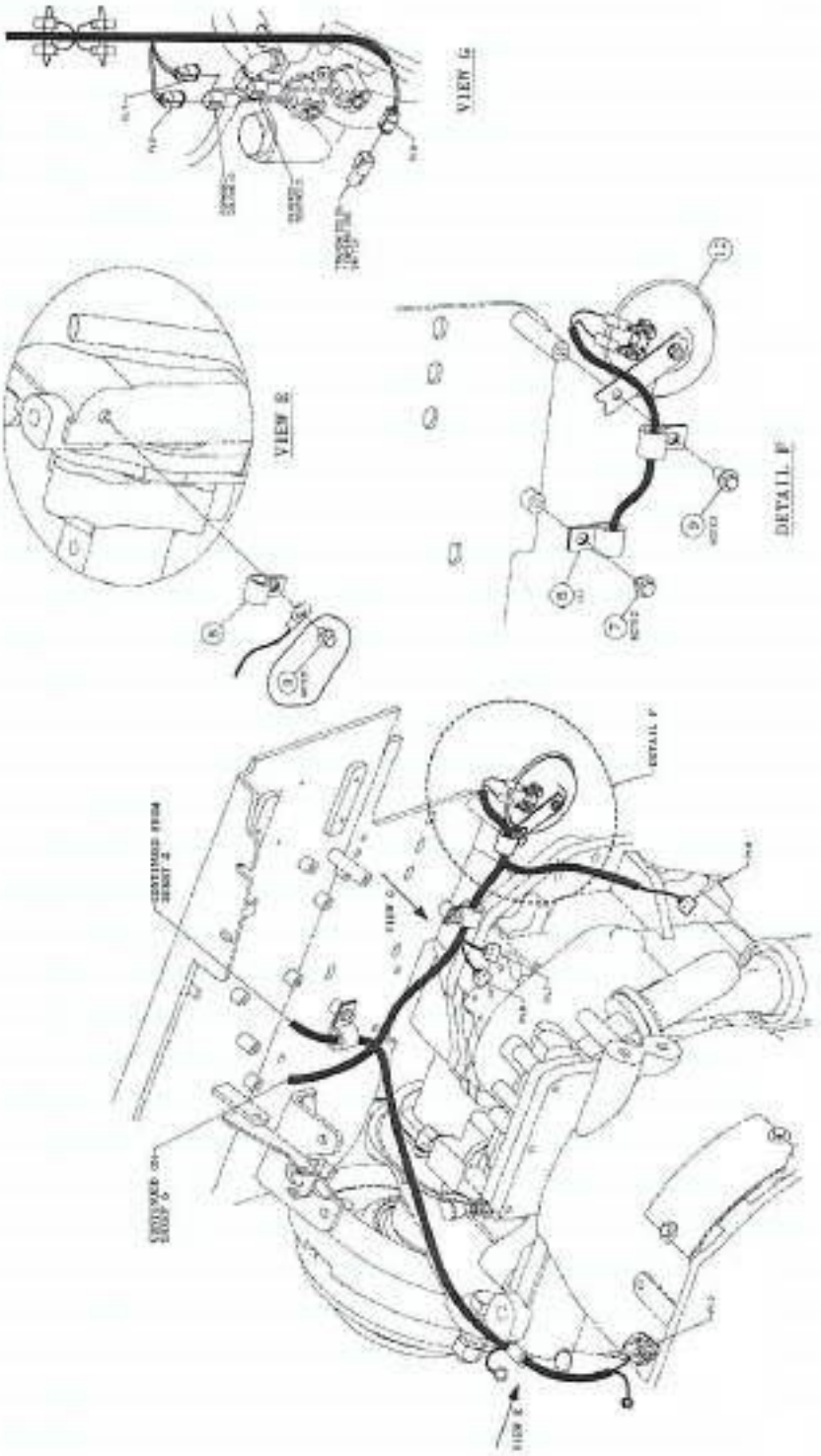
Assembling Drawing(SI-46848 4/6)



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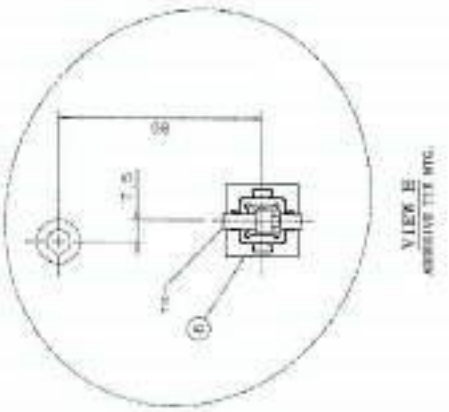
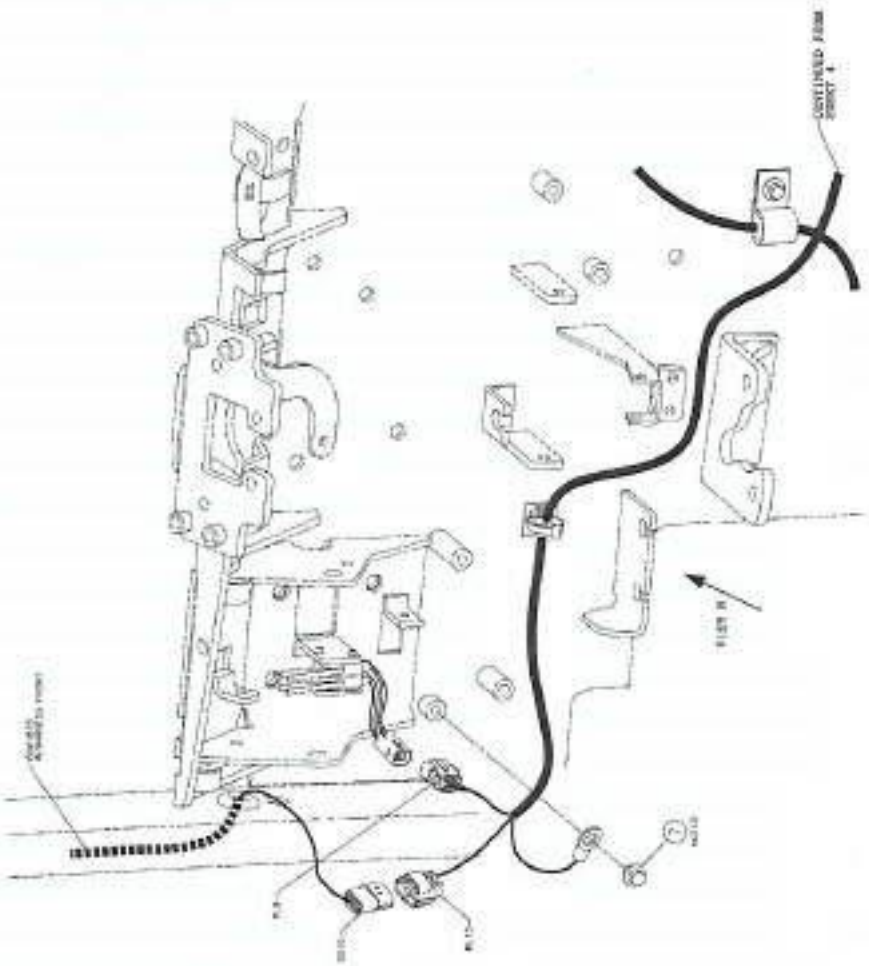
Assembling Drawing(SI-46848 5/6)





Assembling Drawing(SI-46848 6/6)

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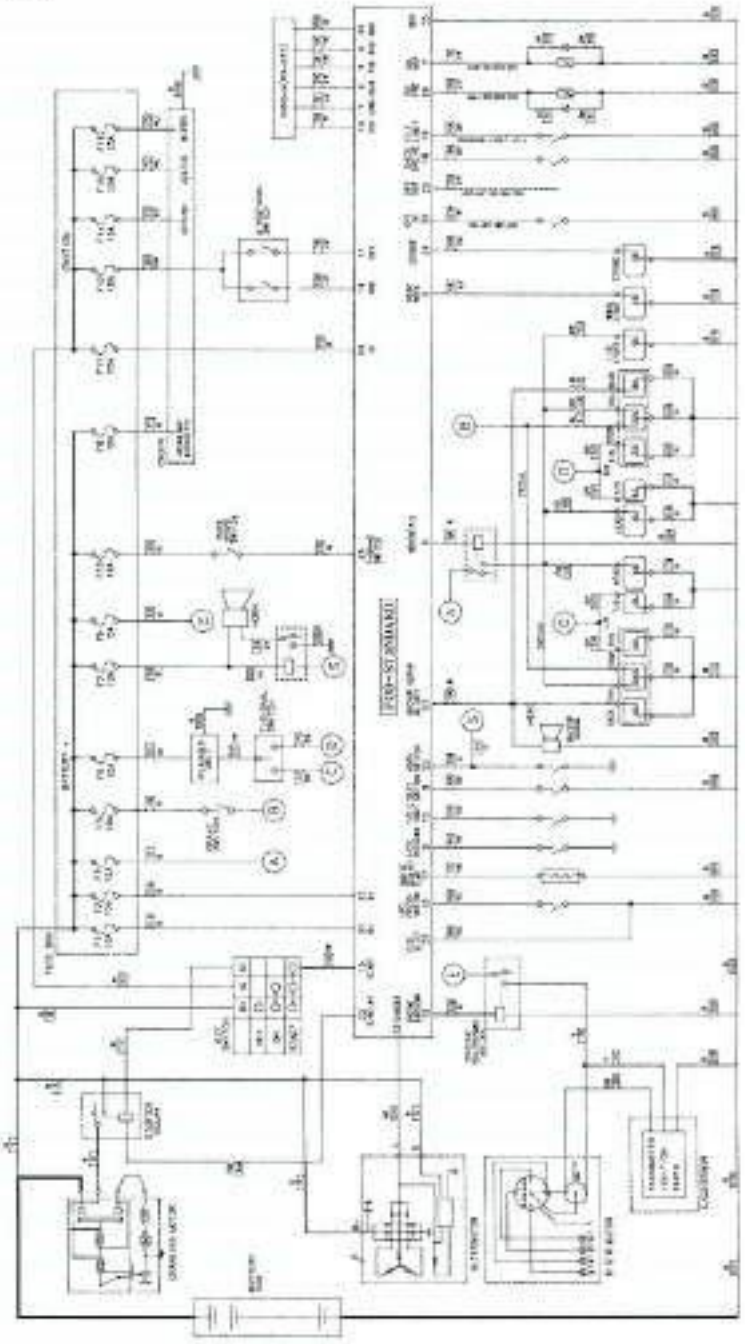
6.1.3 Wire harness(P/NO)

- 8048100 W/HARNESS-COWL-DSL
- 8040943 W/HARNESS-MAIN-DSL

6.2 C20-35 LPG Electrical components(TIER-0)

6.2.1 Wiring(IN-28030 1/3)



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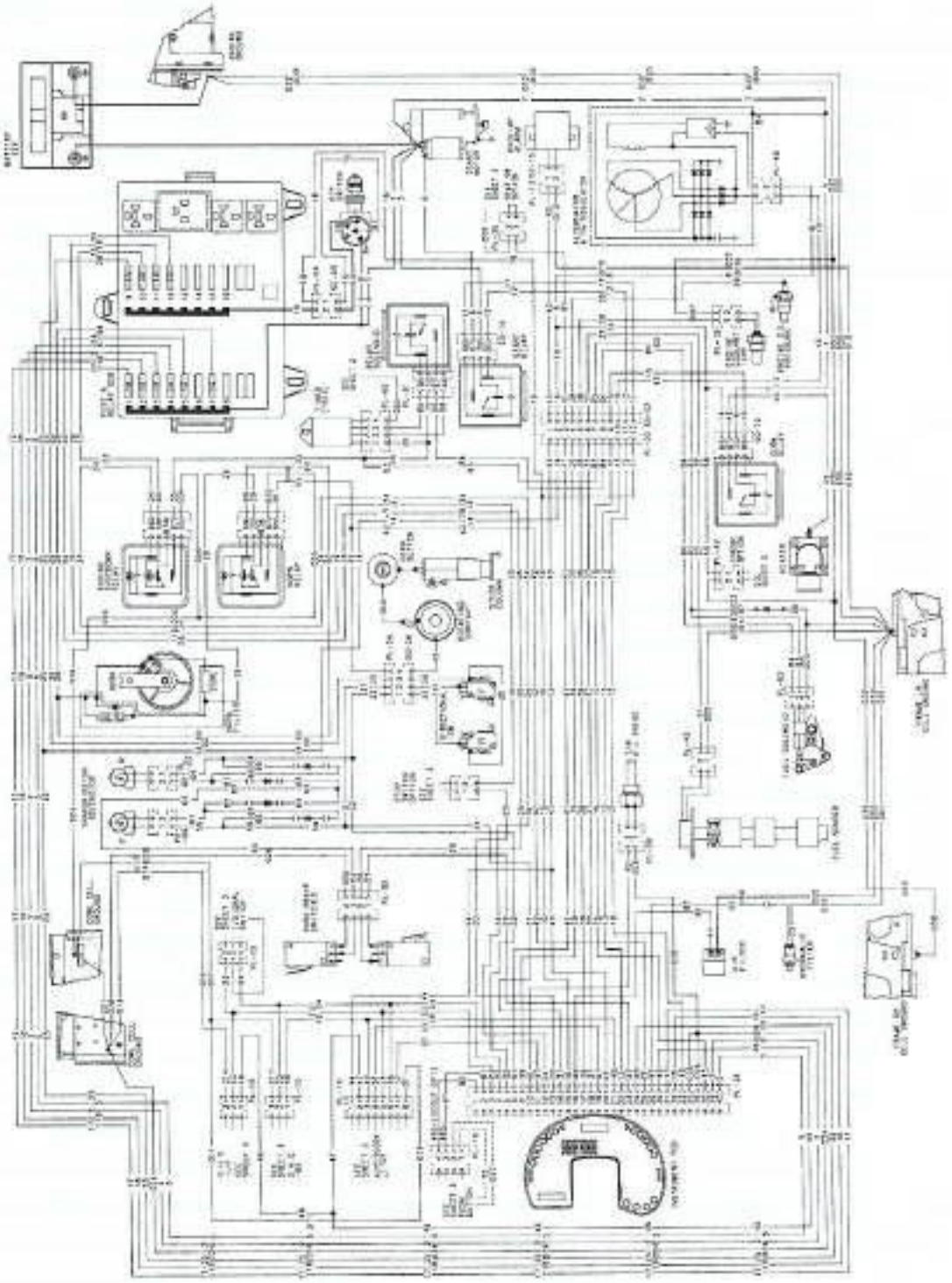
Wiring(IN-28030 2/3)



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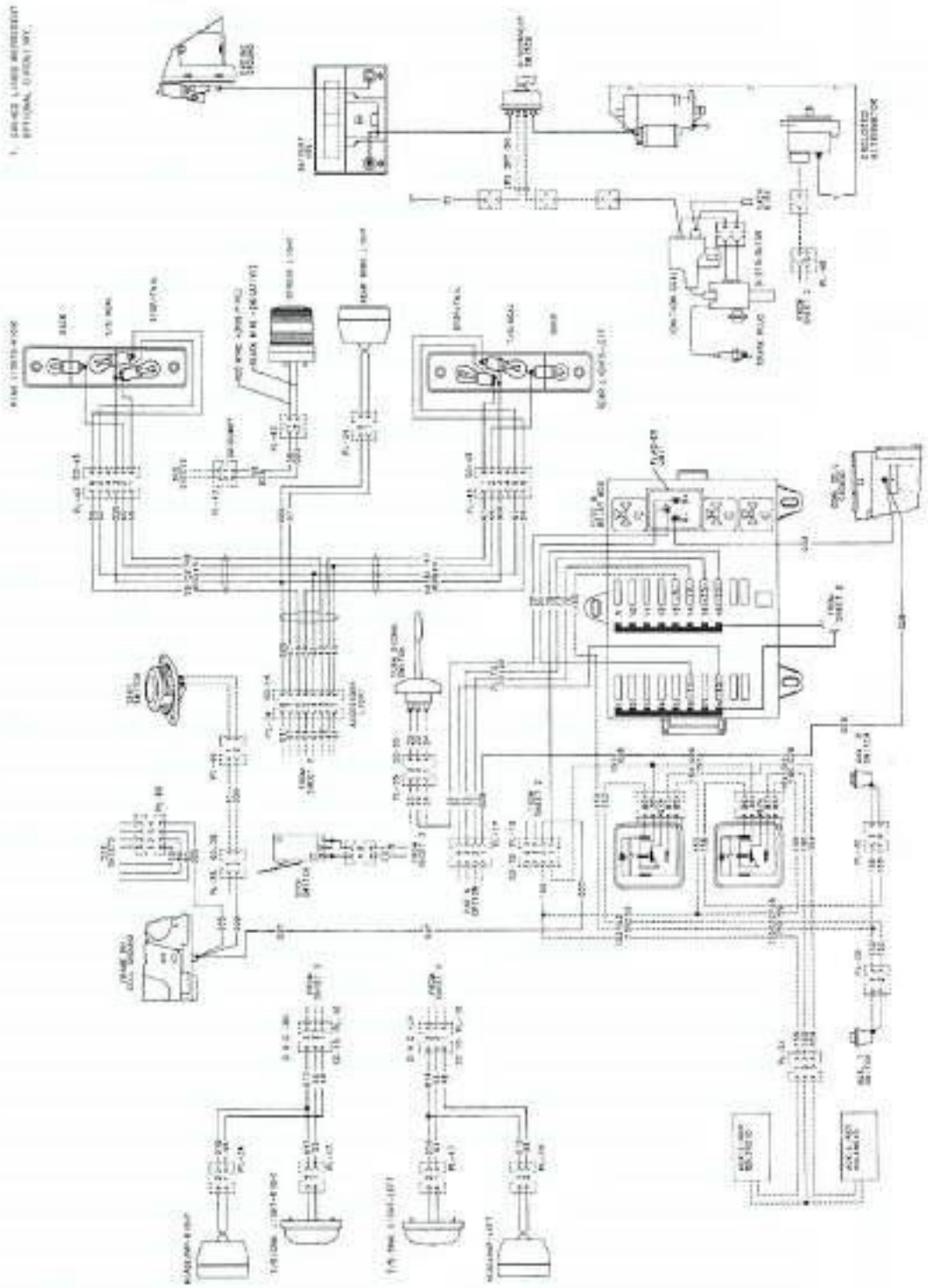
Wiring(IN-28030 3/3)



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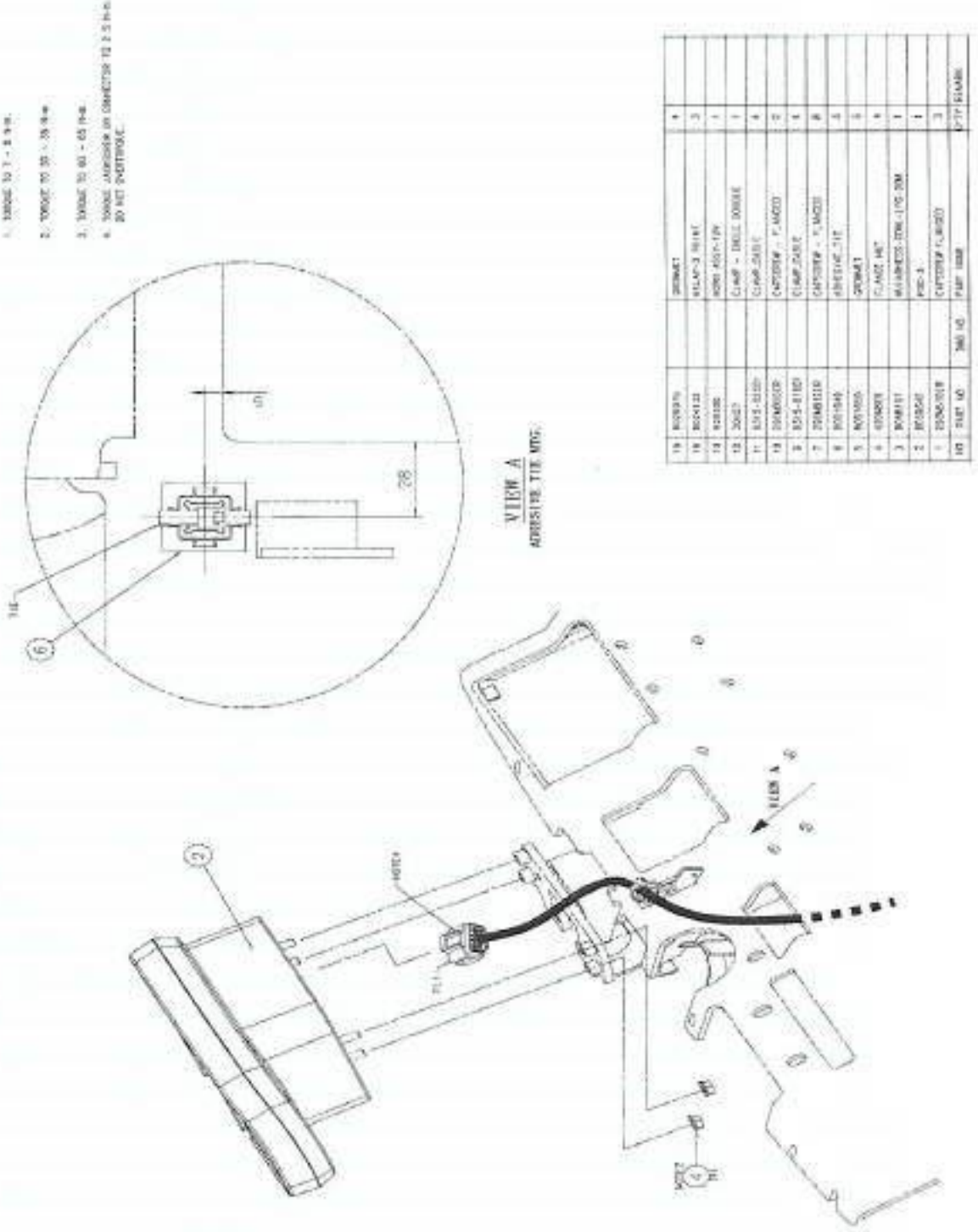
6.2.2 Assembling drawing(SI-45135 1/6)



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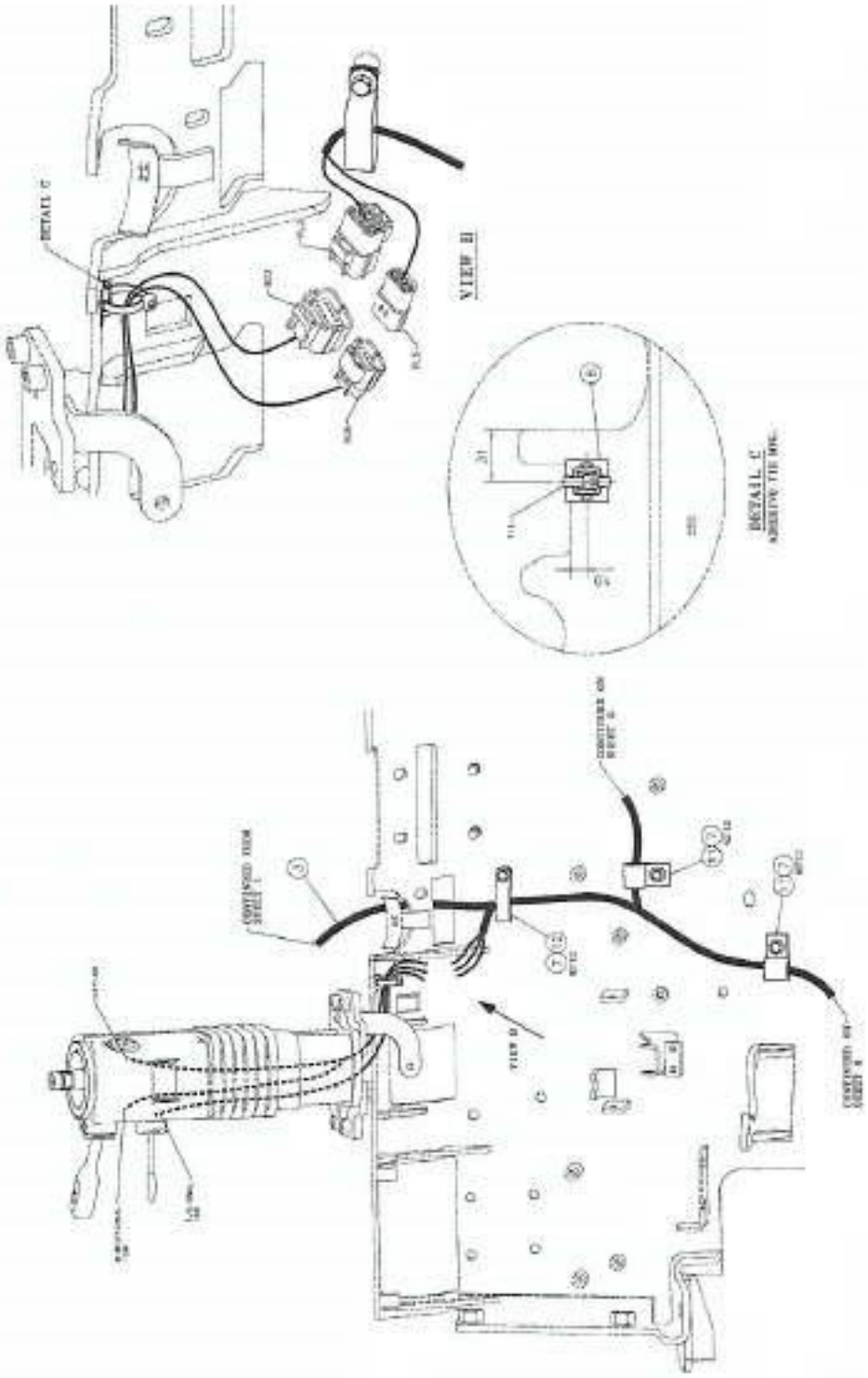
Assembling drawing(SI-45135 2/6)



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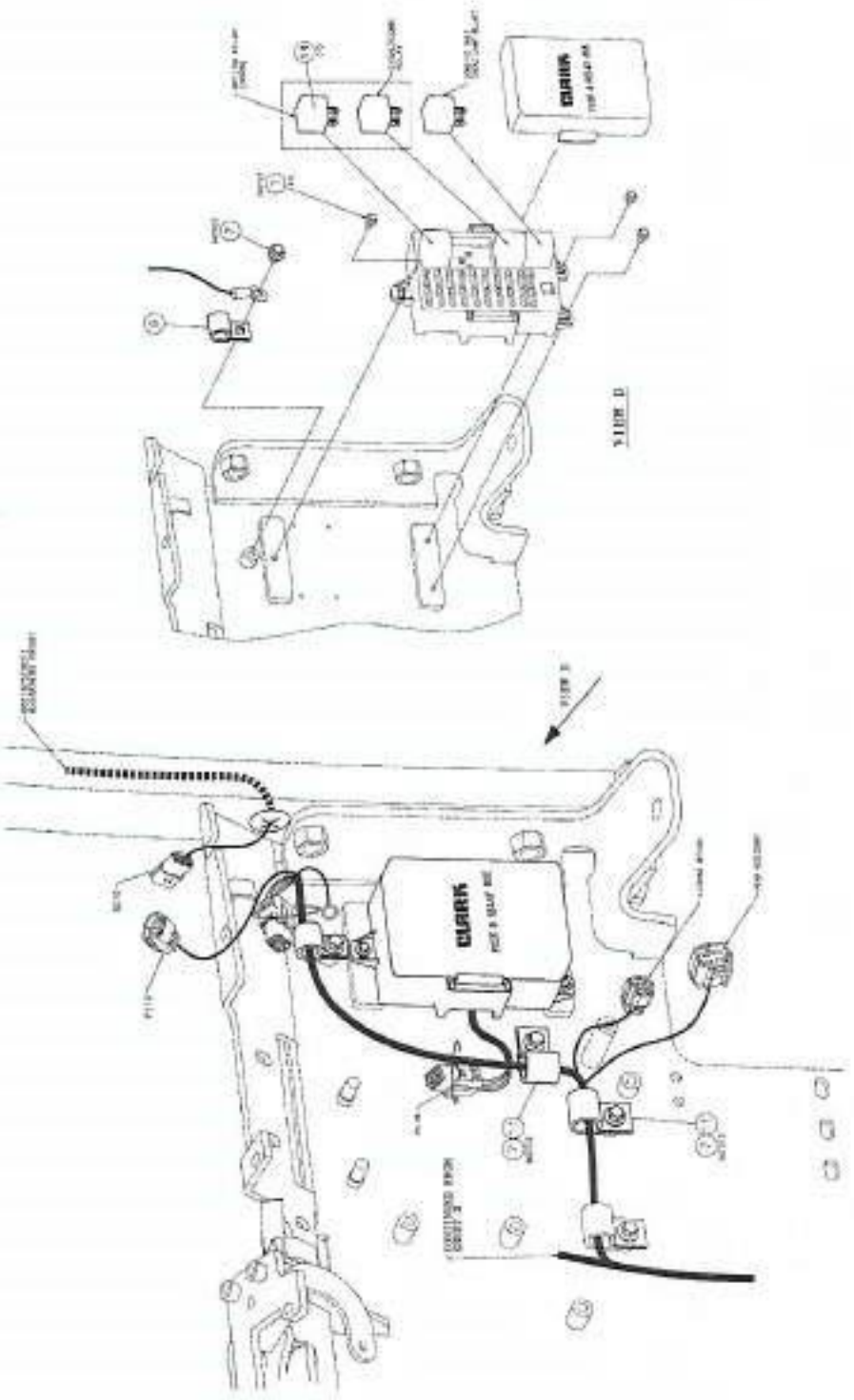
Assembling drawing(SI-45135 3/6)



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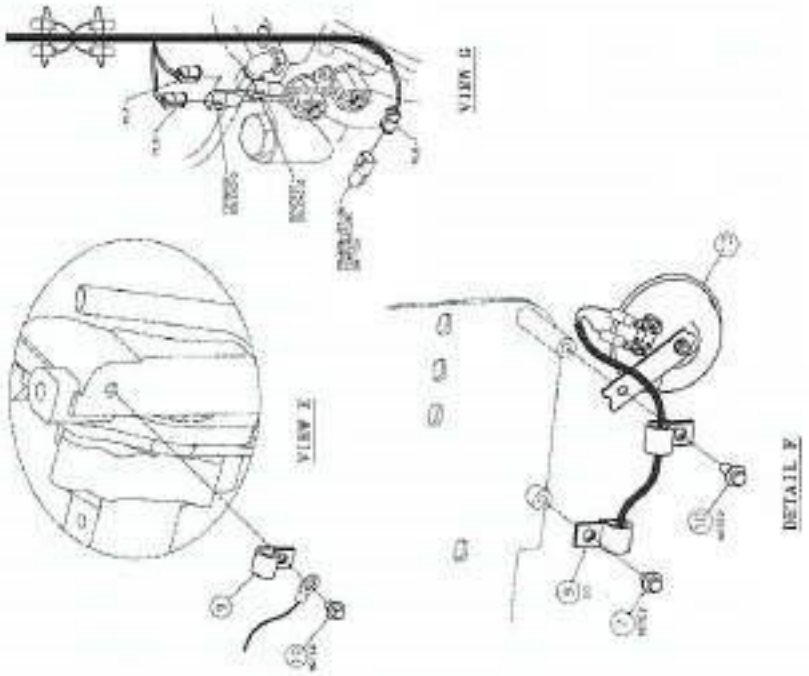
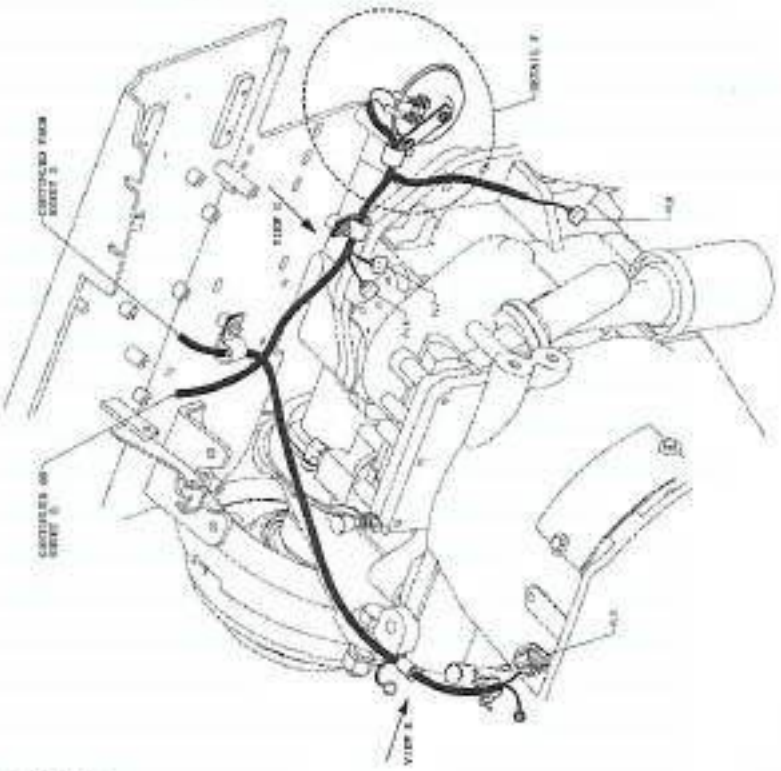
Assembling drawing(SI-45135 4/6)





Assembling drawing(SI-45135 5/6)

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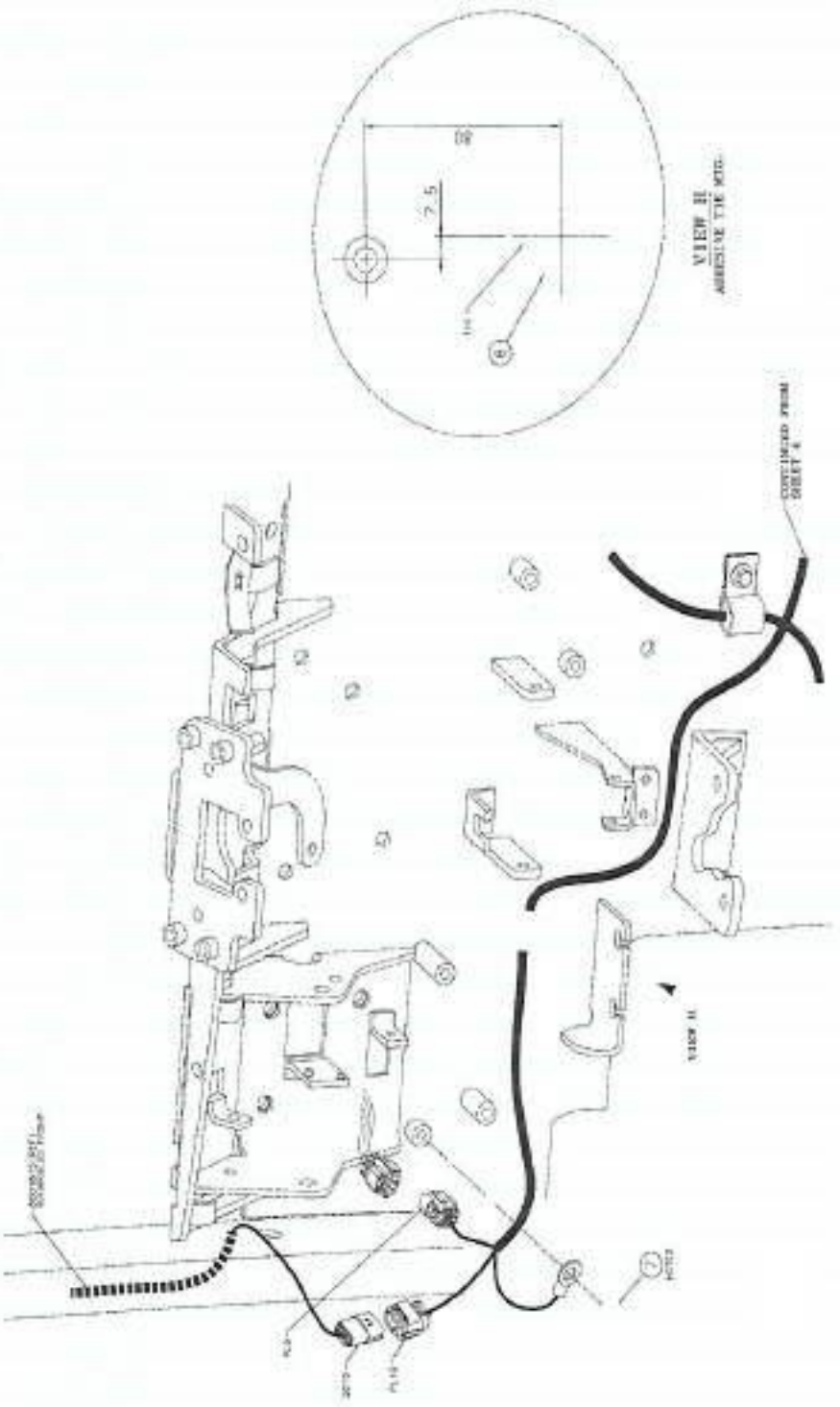

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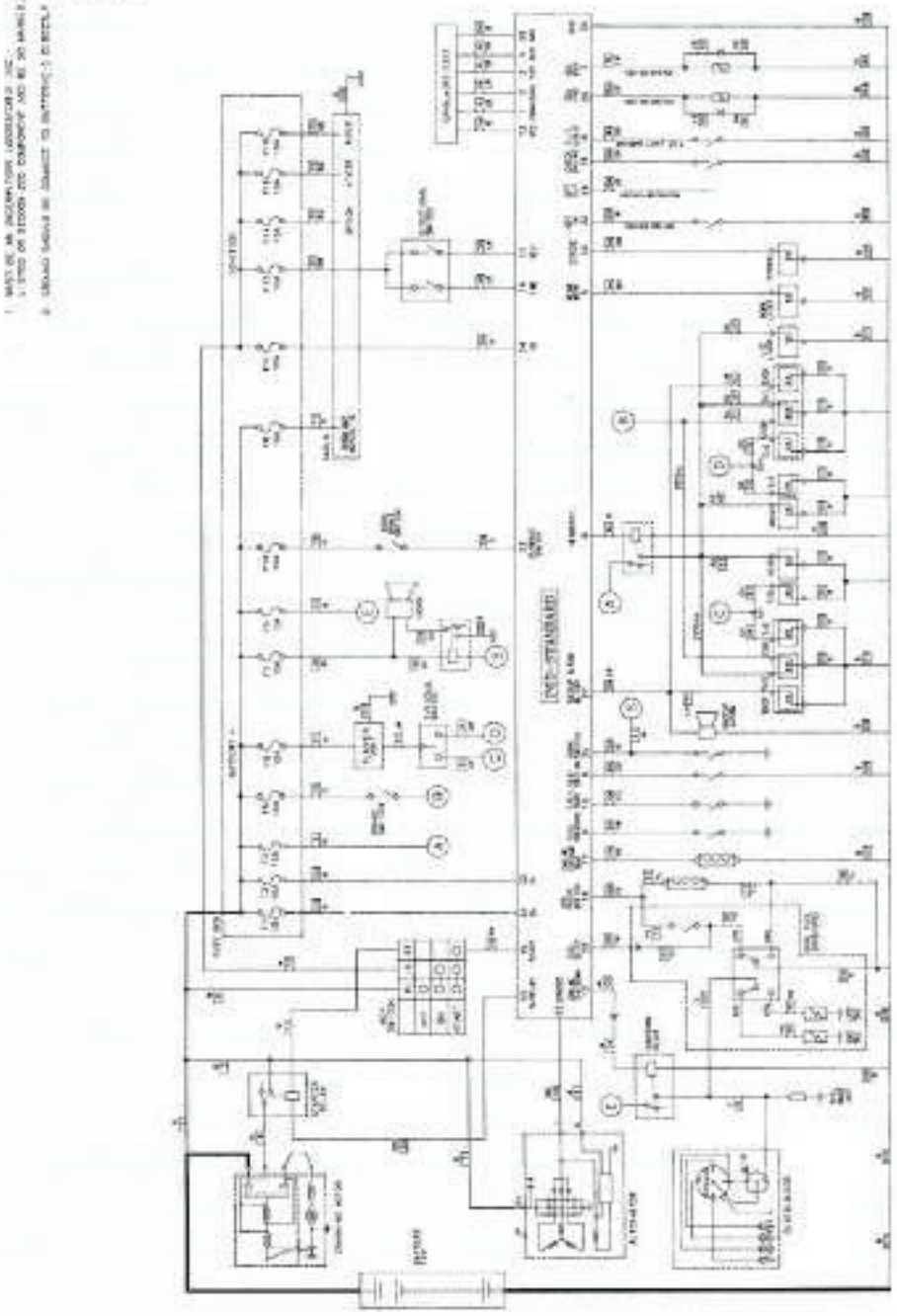
6.2.3 Wire harness(P/NO)

- 8048101 W/HARNESS-COWL-MMC
- 8001987 W/HARNESS-MAIN-LPG

6.3 C20GAS Electrical component (TIER-0)

6.3.1 Wiring (IN-28032 1/3)



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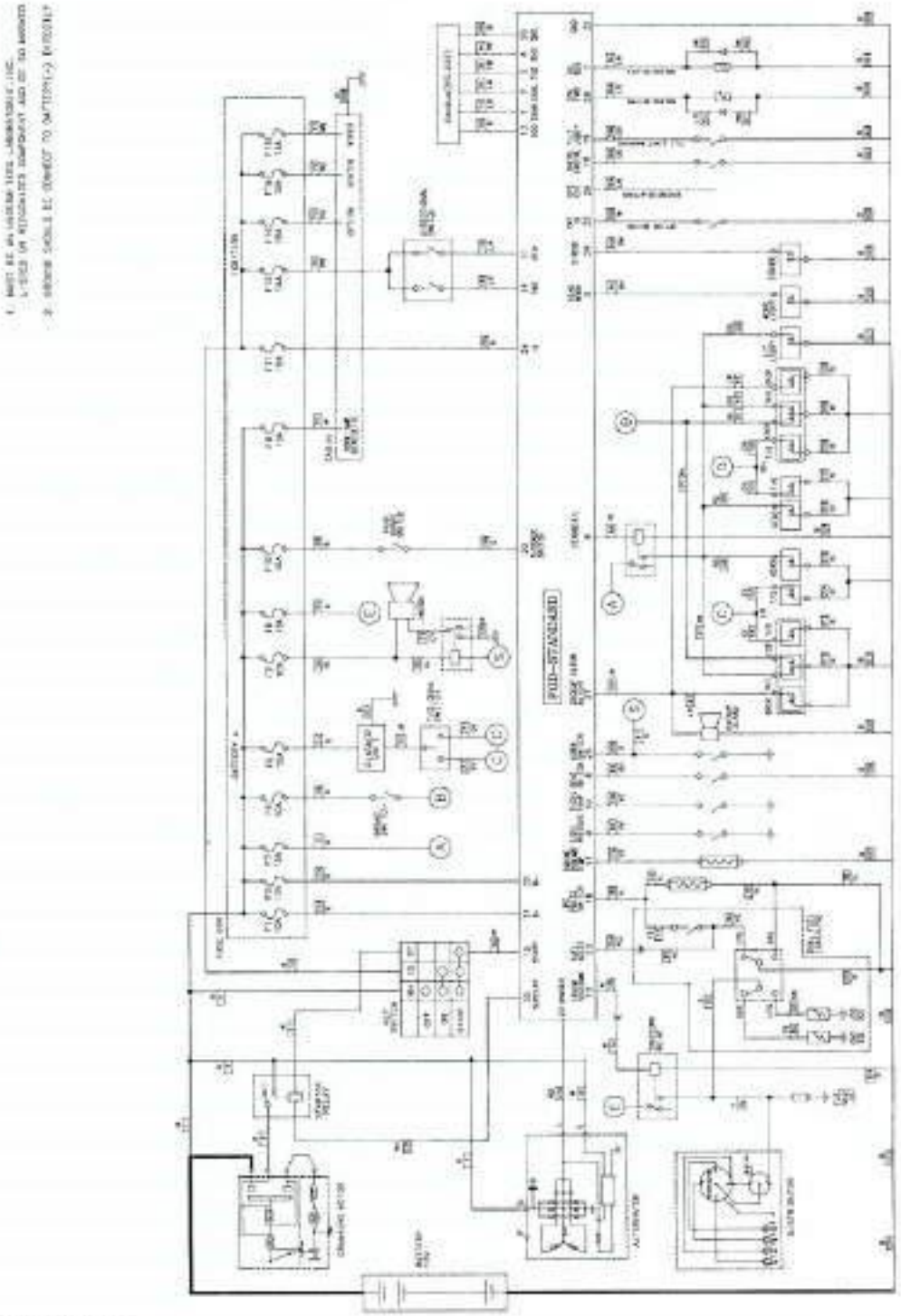
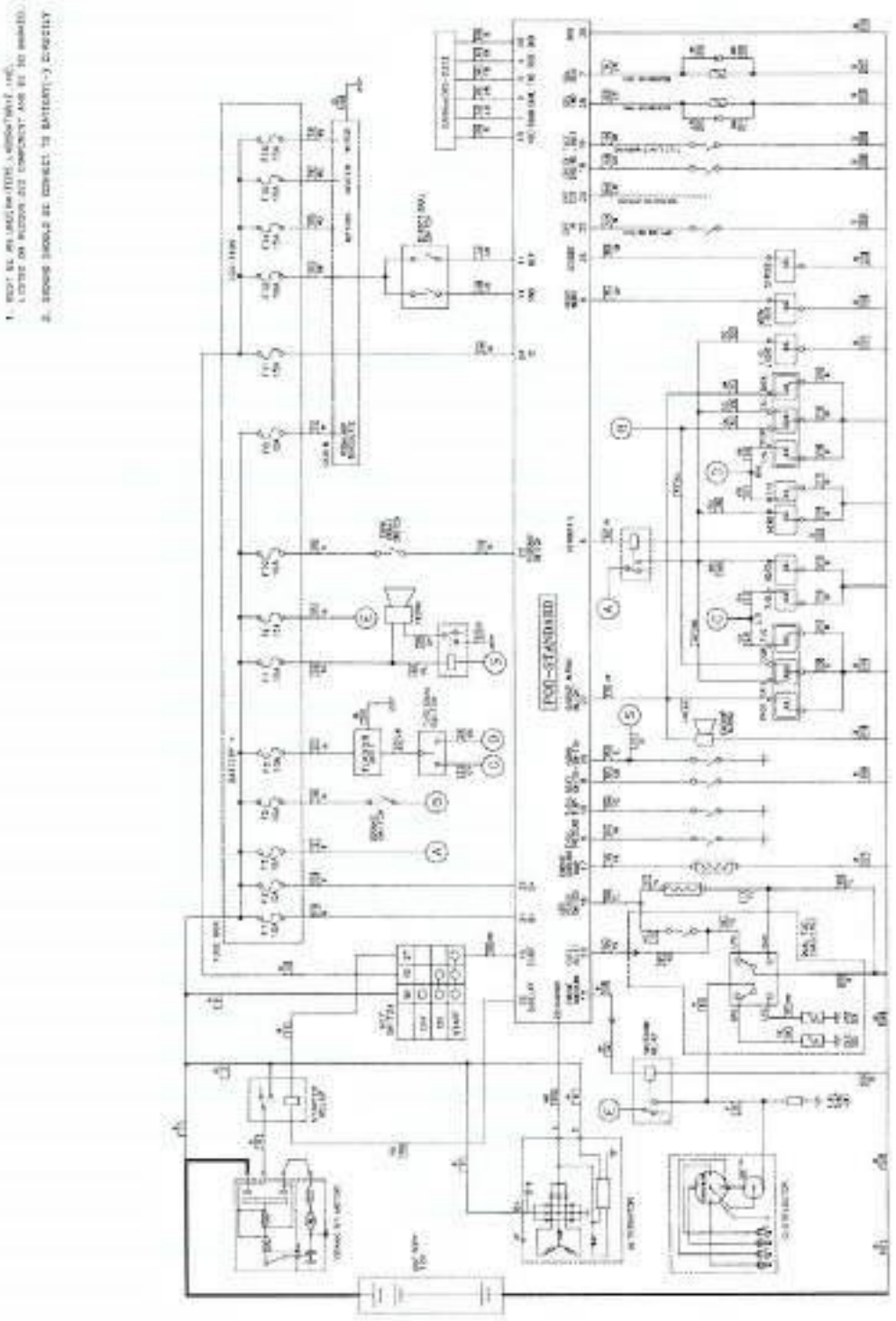
Wiring (IN-28032 2/3)



Wiring (IN-28032 3/3)

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