

## Group 13, Electrical System

**CLARK**

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 Position	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 over-temperatur.	X				Rear Work Lamp is powered	Ignition is turned from OFF to ON Check cable harness for short clcut 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 clcut 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 clcut 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.

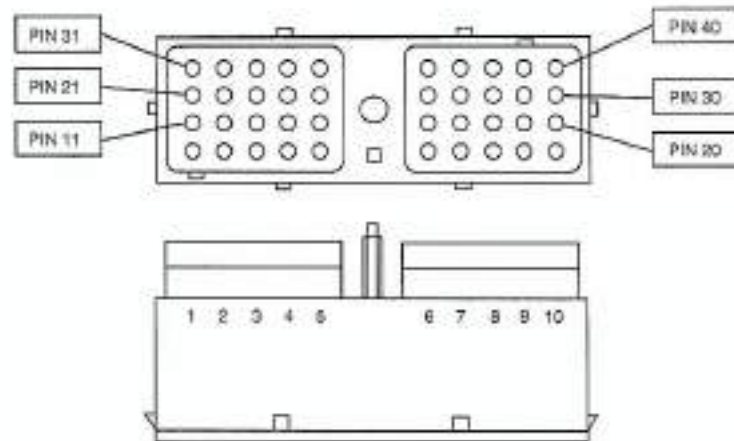
Description of Errorcodes (2):

Error number	Reason	Ignition is ON	Ignition is OFF	Ignition is switched from IFF of On	Keyswitch is turned into Start Position	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 circuit 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 circuit 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 circuit 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				Ignition 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)

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 Position	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 continuously 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 continuously 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 Diesel is selected, the Fuel Sensor must 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 circuit to 0V.	Hazardlight will turned off immediately
020	Pin 20(barkuplight) 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 circuit to 0V.	Ignition is turned from OFF to ON Check cable harness for short circuit to 0V.	Backup Alarm will turned off immediately.

### Connector Terminal Arrangement



Pin No	Wire Color	Remark	Pin No	Wire Color	Remark
1	LW	485+	21	RG	Head & Tail & Lic RH
2	LB	485-	22	WB	Charger
3	GY	T/Sig LH	23	G	P/Brake Switch
4	GR	T/Sig RH	24	R	IG
5	LW	REV	25	G	Horn Switch
6	-	-	27	YG	Gas/LPG Switch(GAS/LPG Only)
7	-	-	28	-	-
8	GB	Seat Switch	28	-	-
9	YW	E/Oil Pressure	30	RB	Head & Tail LH
10	YG	T/Oil Temp	31	R	B+
11	RY	Rear Work	32	R	B+
12	W	Engine Shutdown	33	RB	Start Relay
13	L	Stop Switch	34	-	-
14	LR	FWD	35	B	GND
15	RW	Start	36	B	GND
16	GR	Engine check	37	-	-
17	YR	Engine Coolant Temp	38	*RG	*Glow Plug(DSL Only)
18	YL	Fuel Sender	39	R	B+
19	RL	Stop Light	40	R	B+
20	LW	Backup Alarm & Light			

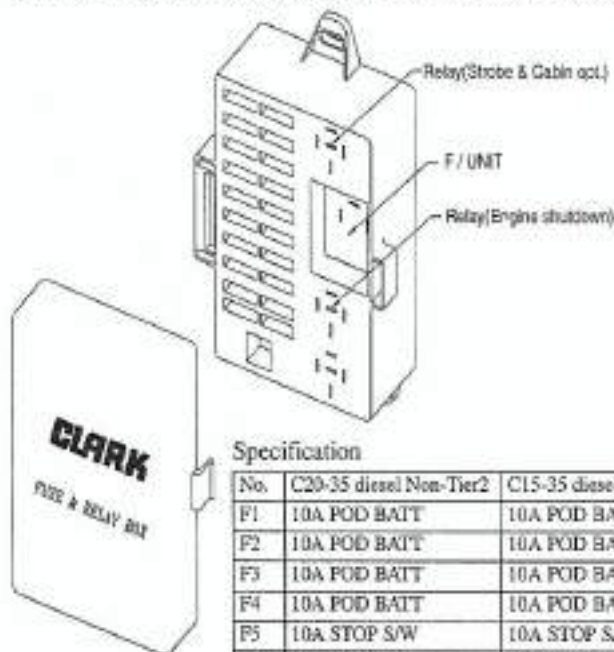


### General Electrical Parts

#### Fuse / Relay Box

##### Function

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



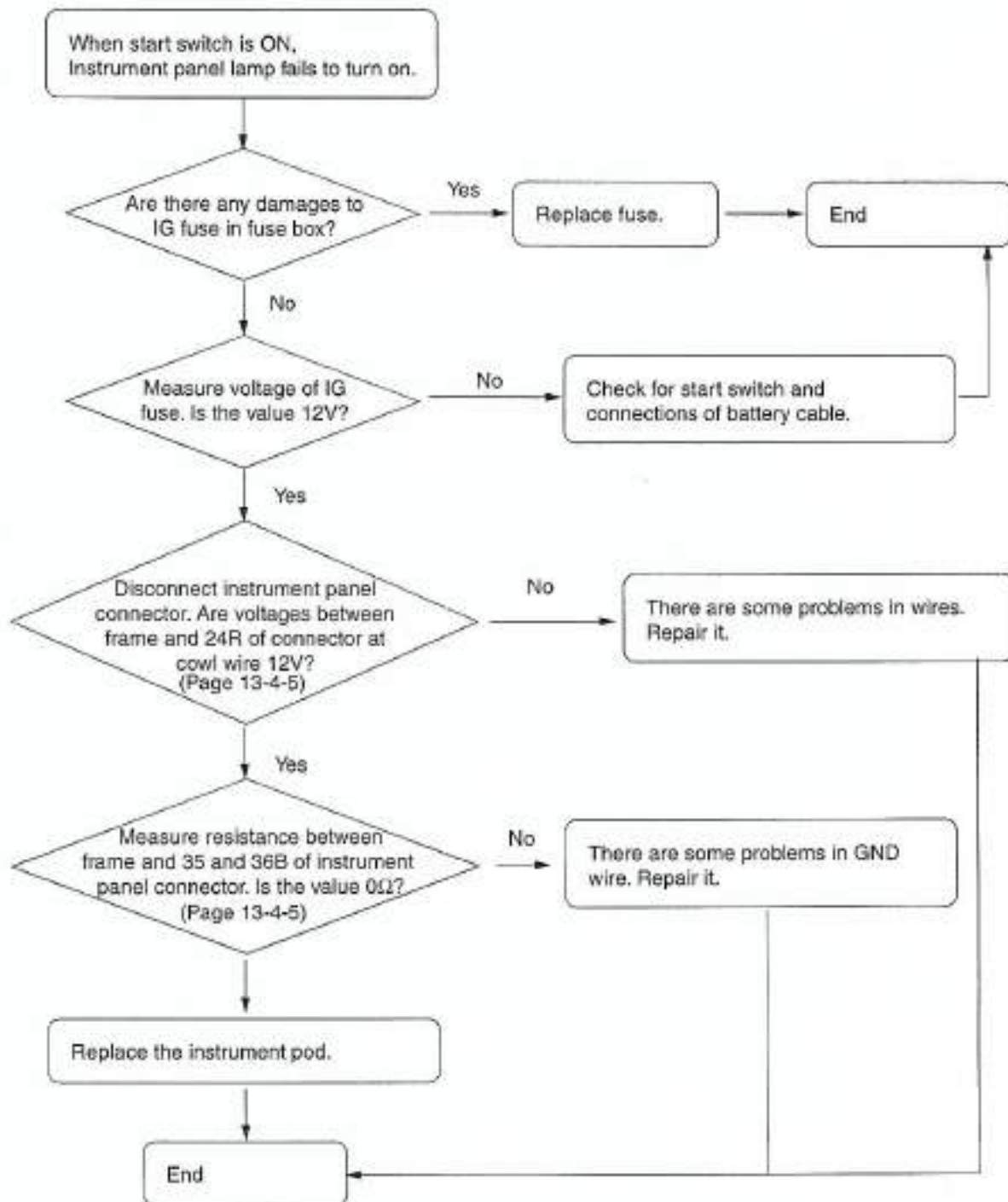
##### Specification

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 SW/ 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.

All of Instrument Pod Lamps Fails to Turn On



011 0050.2HR DIR.REV S/C	900 0101.1HR DOUBLE ERROR
014 0001.0HR DIR.FWD S/C	033 0015.4HR ST.RELAY S/C
012 0030.5HR E.SHUT COILS/C	005 0011.2HR R.WORK LAMP S/C
028 0005.0HR FWD SOL S/C	007 0008.6HR REV SOL S/C

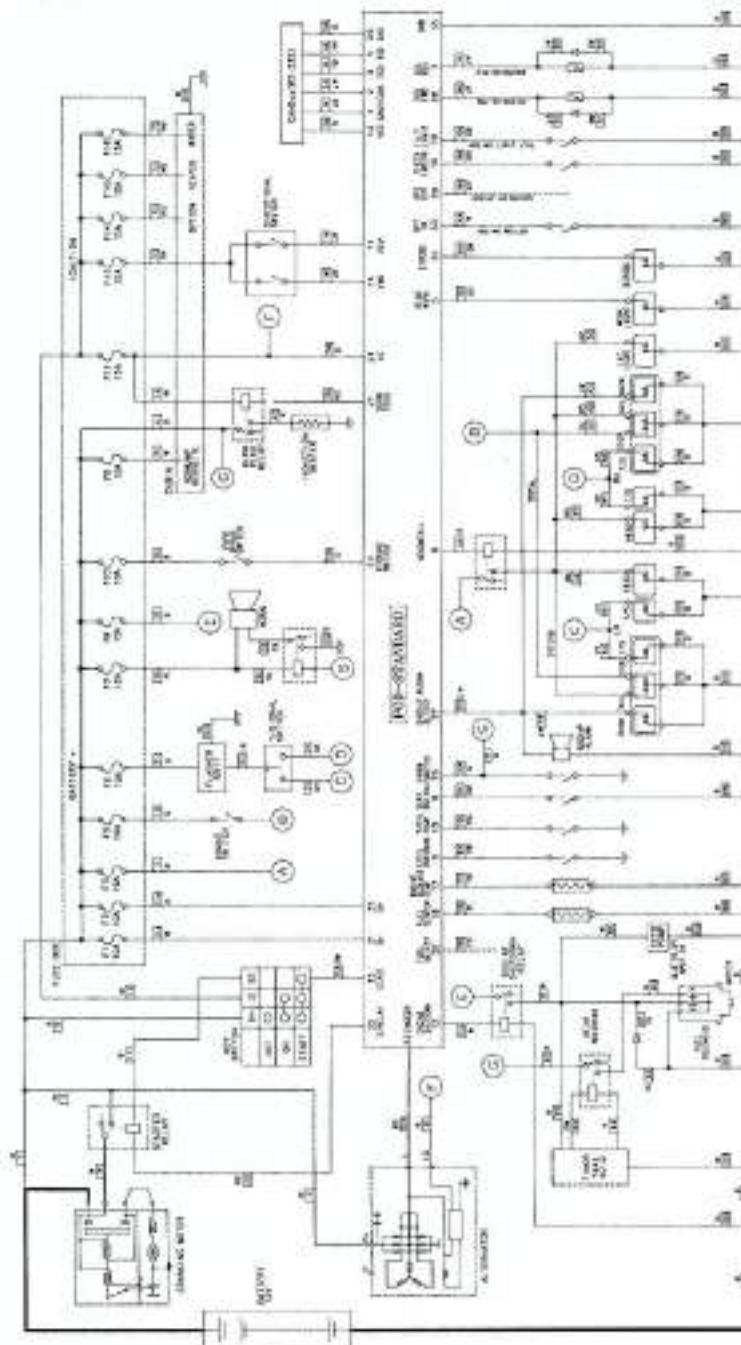
ERROR CODE	ERROR MESSAGE	DESCRIPTION	W RKG NO.
016	DRL FWD S/C	DIRECTION FWD LMS S/C	14
011	DRL REV S/C	DIRECTION REVERSE LMS S/C	11
018	FUEL SENDBR S/C	FUEL SENDBR S/C	18-DST, 27-DAS/LPG
025	HORN RELAY S/C	HORN RELAY COIL S/C	25
027	B.UF ALARM S/C	BACK UP ALARM LMS S/C	27
033	ST RELAY S/C	START RELAY COIL LMS S/C	33
021	GLON PING S/C	PREHEATER RELAY COIL LMS S/C	21
006	HEAD LAMP S/C	HEAD LAMP S/C	6
012	R.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.007 S/C	28
007	DR.REV SOL S/C	DIRECTION REVERSE SOL.007 S/C	7
900	DOUBLE ERROR	ERROR OF THE CAUSING PIN NUMBER CAN'T BE DETERMIND	-
404	INTERNAL SHORT	INTERNAL SHORT	-

5.3 Error code

**6. Electric wiring**

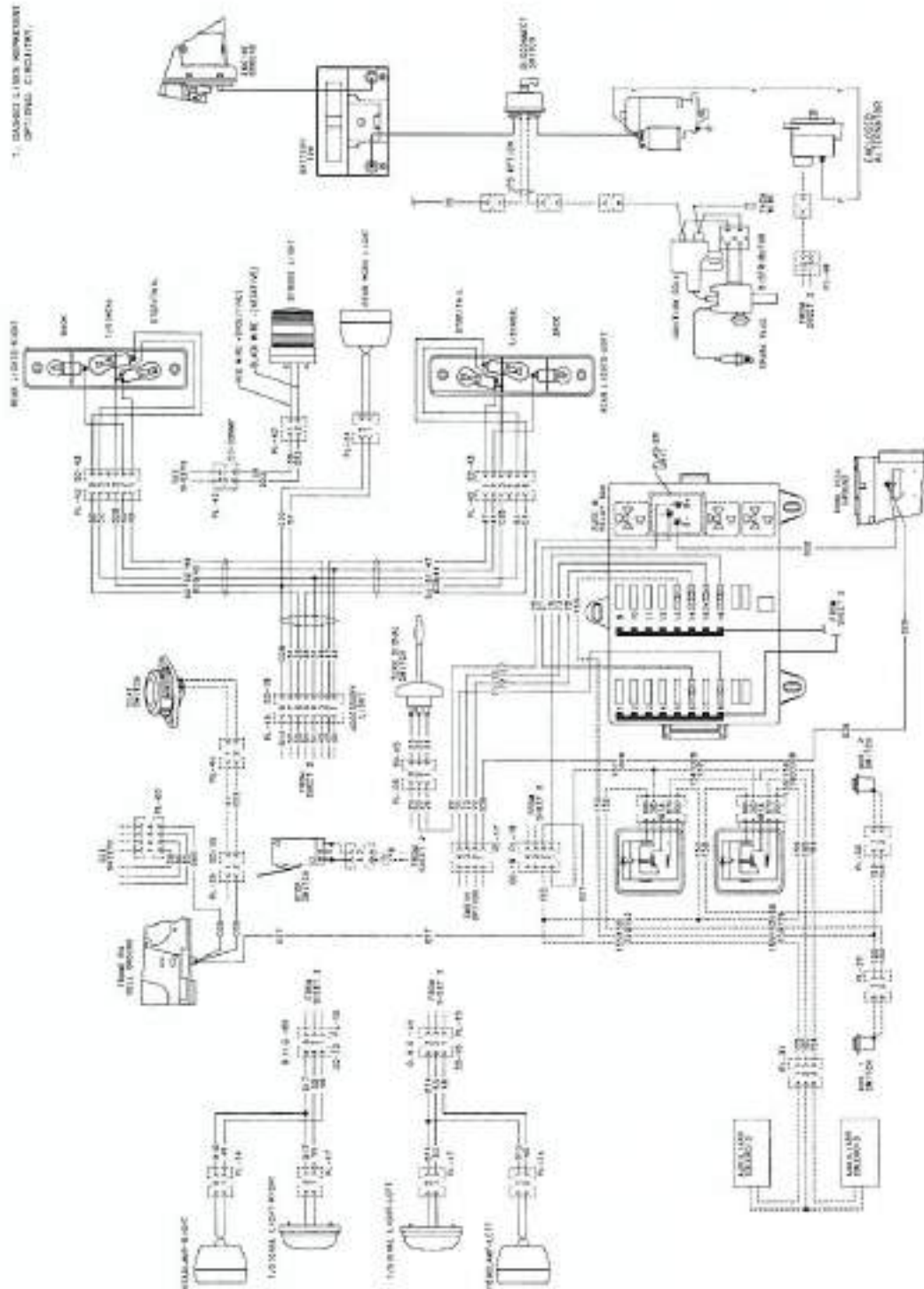
**6.1 C20-35DSL electric component**

**6.1.1 Wiring(IN-28029 1/3)**

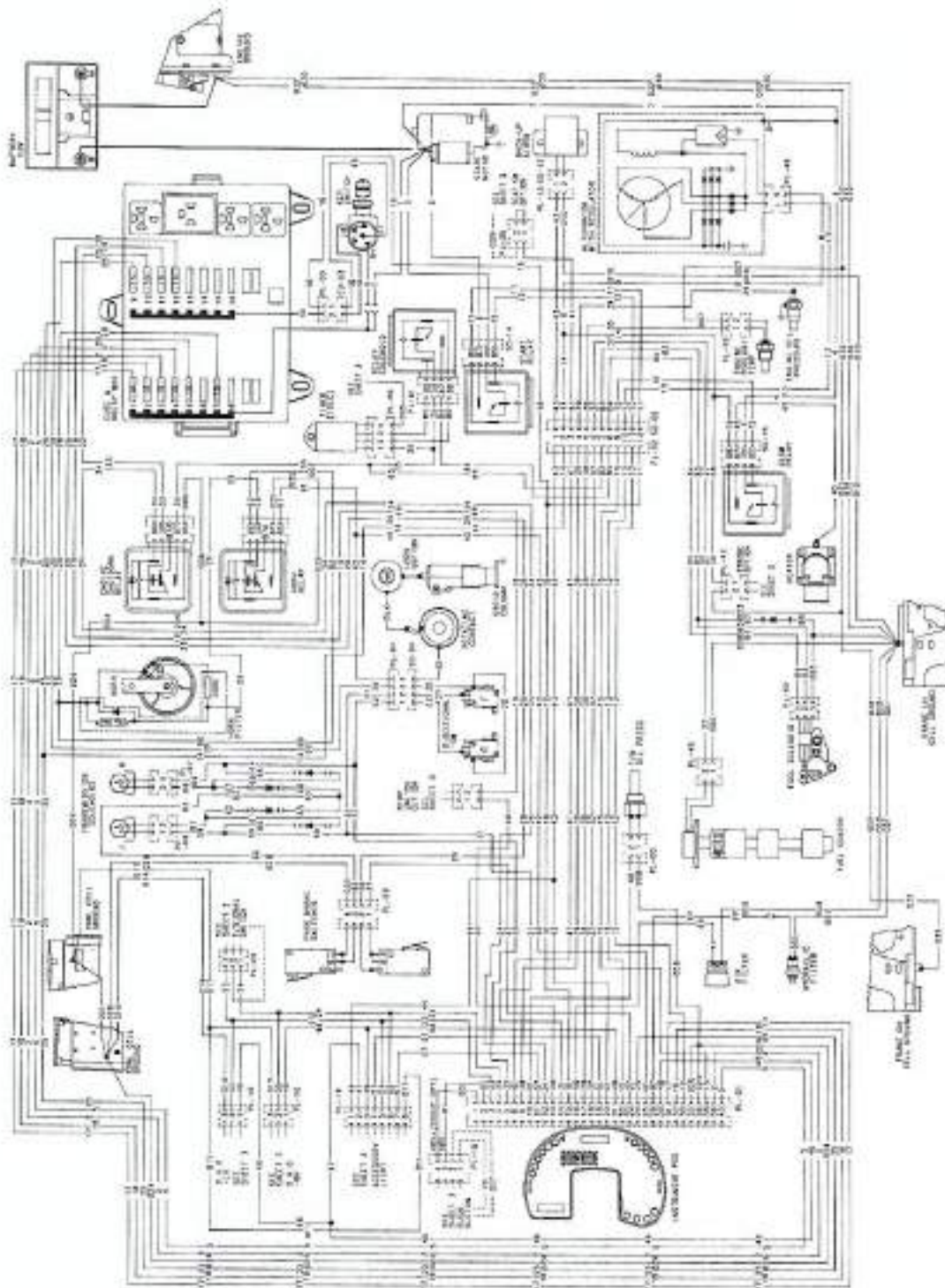




### Wiring(IN-28029 3/3)



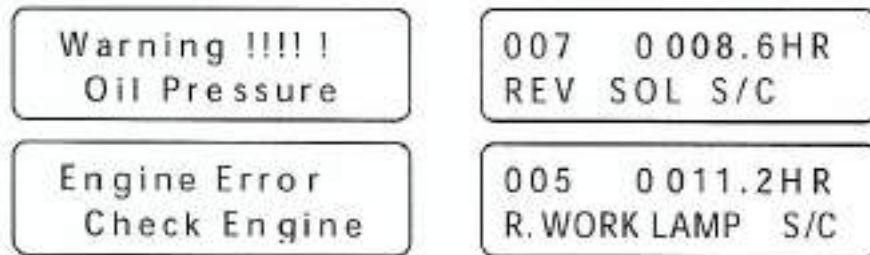
Wiring(IN-28029 2/3)



**5. Fault diagnosis**

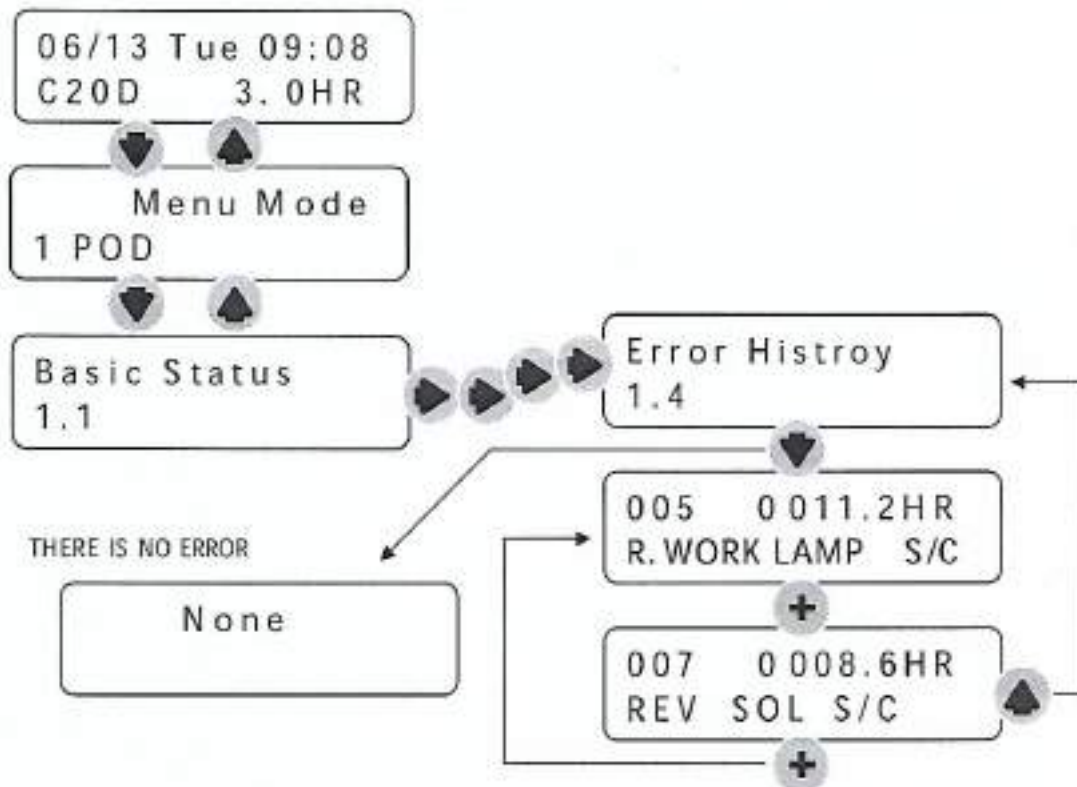
**5.1 Self diagnostic function**

Pod can display and warning the existing error on truck.



**5.2 Management of fault history**

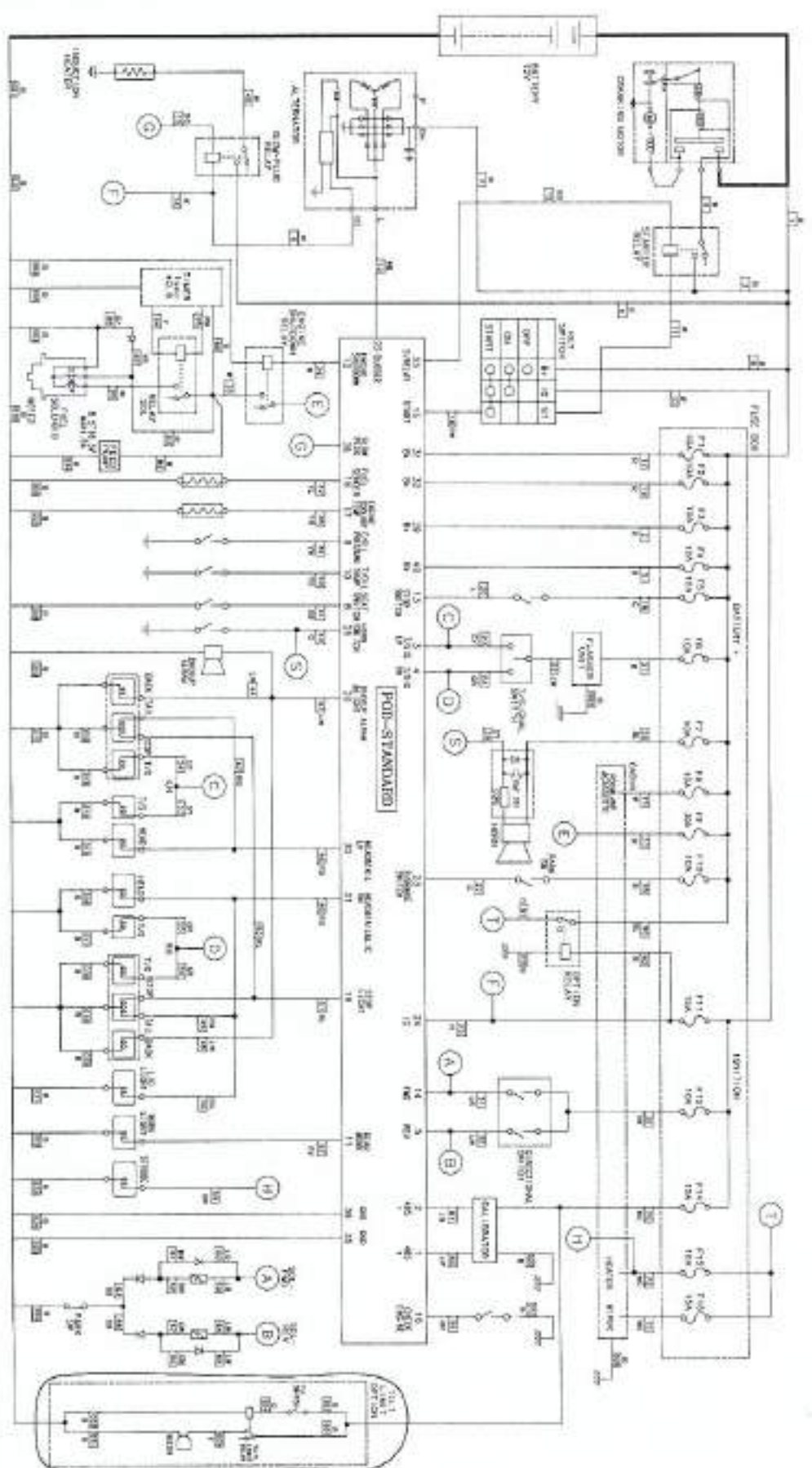
Pod can store the latest 10 fault history. This history can be used to track the reason of fault.





1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) AND THE NATIONAL FIRE ALARM AND SIGNAL CODE (NFPA 72).  
 2. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.  
 3. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LOCAL ELECTRICAL CODES.

1. ALL OF AN UNDER-TECH LABORER, INC.
- 1.15703 OR RECOVERED COMPONENT AND DC SO MARCH.
2. BOUND SHOULD BE CONNECT TO DETECTIVE DIRECTLY
3. TEST PUMP 115012-51702
- 1.15012-51702



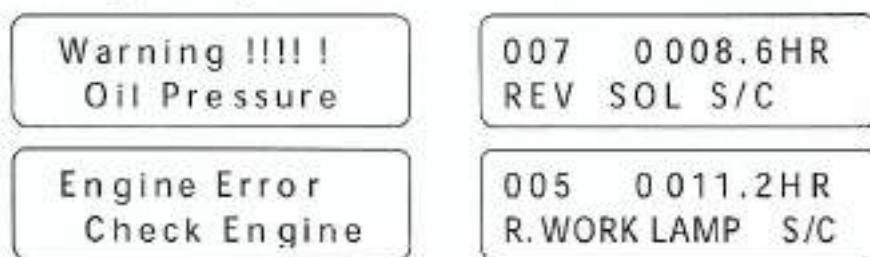
SYSTEM CONTROL		PARTS LIST		WIRING DIAGRAM	
1	2	3	4	5	6
7	8	9	10	11	12
13	14	15	16	17	18
19	20	21	22	23	24
25	26	27	28	29	30
31	32	33	34	35	36
37	38	39	40	41	42
43	44	45	46	47	48
49	50	51	52	53	54
55	56	57	58	59	60
61	62	63	64	65	66
67	68	69	70	71	72
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79	80	81	82	83	84
85	86	87	88	89	90
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97	98	99	100	101	102
103	104	105	106	107	108
109	110	111	112	113	114
115	116	117	118	119	120
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409	410	411	412	413	414
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499	500	501	502	503	504
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529	530	531	532	533	534
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541	542	543	544	545	546
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553	554	555	556	557	558
559	560	561	562	563	564
565	566	567	568	569	570
571	572	573	574	575	576
577	578	579	580	581	582
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589	590	591	592	593	594
595	596	597	598	599	600



**5. Fault diagnosis**

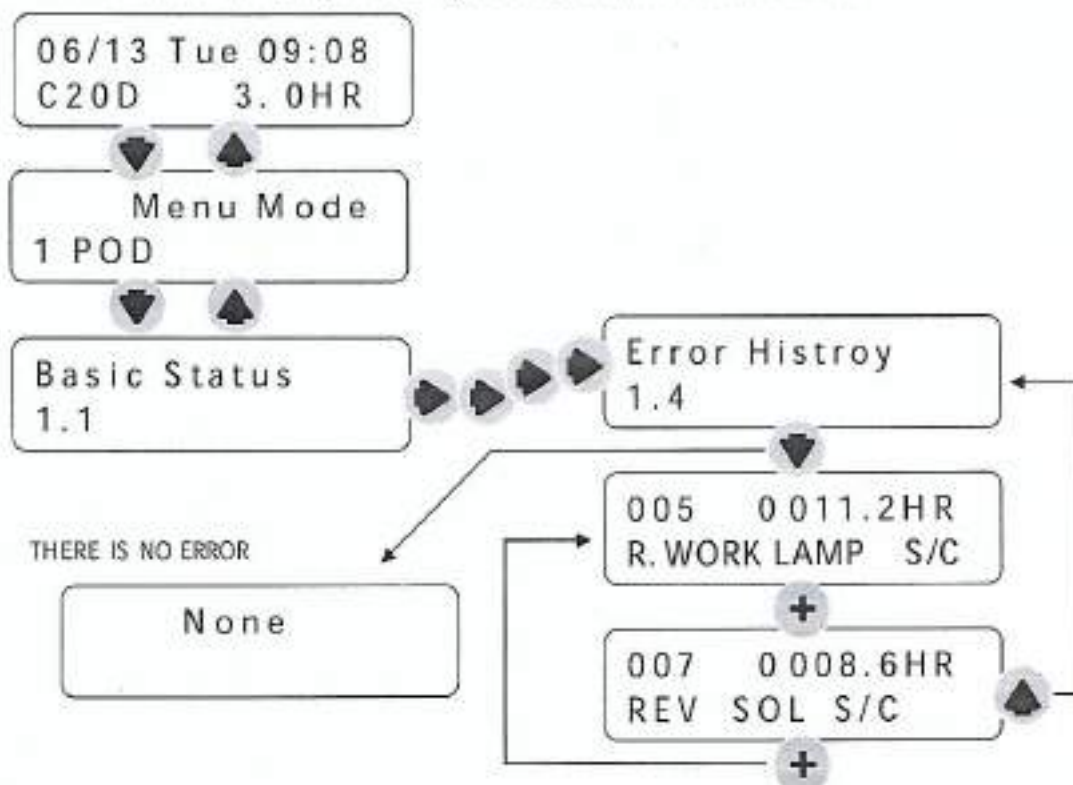
**5.1 Self diagnostic function**

Pod can display and warning the existing error on track.



**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.



5.3 Error code

ERROR CODE	ERROR MESSAGE	DESCRIPTDN	WRNO NO.
014	DIR.FWD S/C	DIRECTDN FWD LNE S/C	14
011	DIR.REV S/C	DIRECTDN REVRSE LNE 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.U.P ALARM S/C	BACK UP ALARM LNE S/C	27
033	ST.RELAY S/C	START RELAY COIL LNE S/C	33
021	GLOW PLUG S/C	PREHEATER RELAY COIL LNE 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	DIR.FWD SOL S/C	DIRECTDN FORWARD SOL OUT S/C	28
007	DIR.REV SOL S/C	DIRECTDN REVERSE SOL OUT S/C	7
900	DOUBLE ERROR	ERROR OF THE CAUSNG PN NUMBER CAN'T BE DETERM ND	-
404	INTERNAL SHORT	INTERNAL SHORT	-

028 0005.0HR  
FWD SOL S/C

007 0008.6HR  
REV SOL S/C

012 0030.5HR  
E.SHUT COILS/C

005 0011.2HR  
R.WORK LAMP S/C

014 0001.0HR  
DIR.FW D S/C

033 0015.4HR  
ST.REL AY S/C

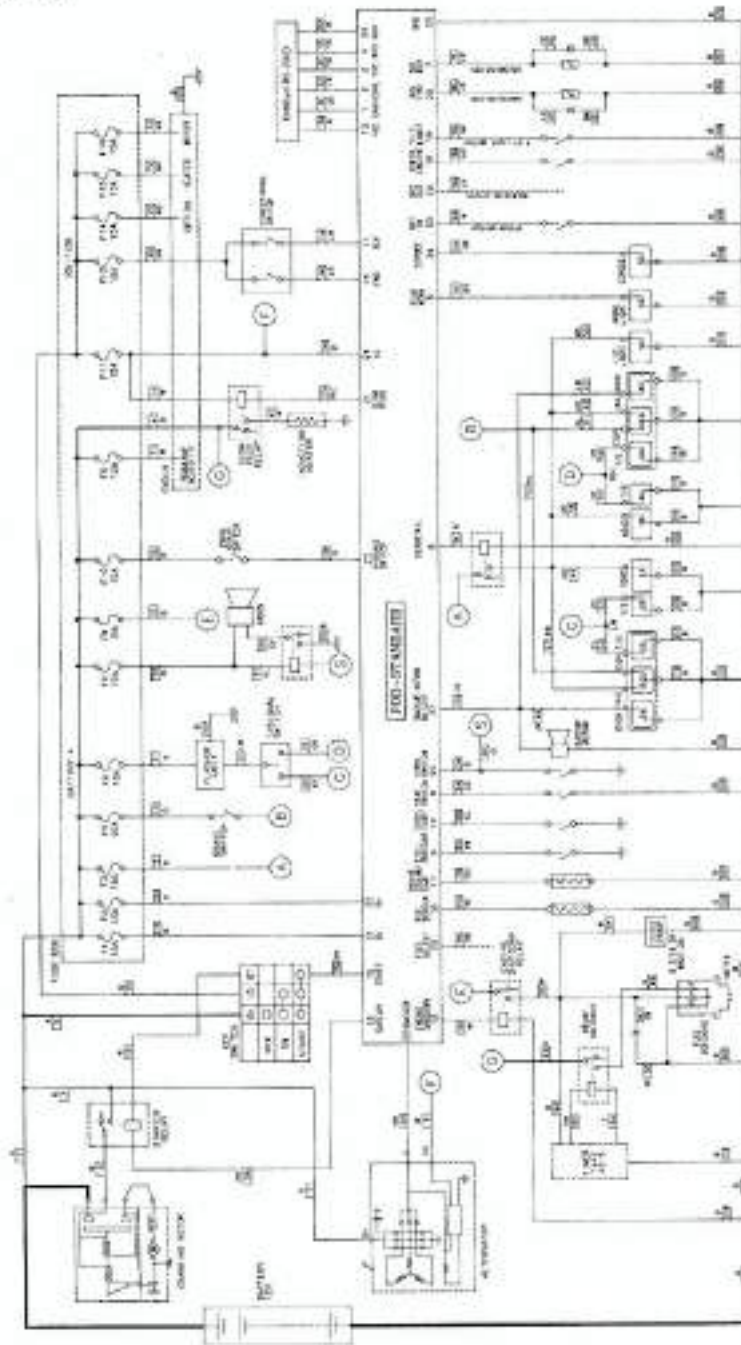
011 0050.2HR  
DIR.REV S/C

900 0101.1HR  
DOUBLE ERROR

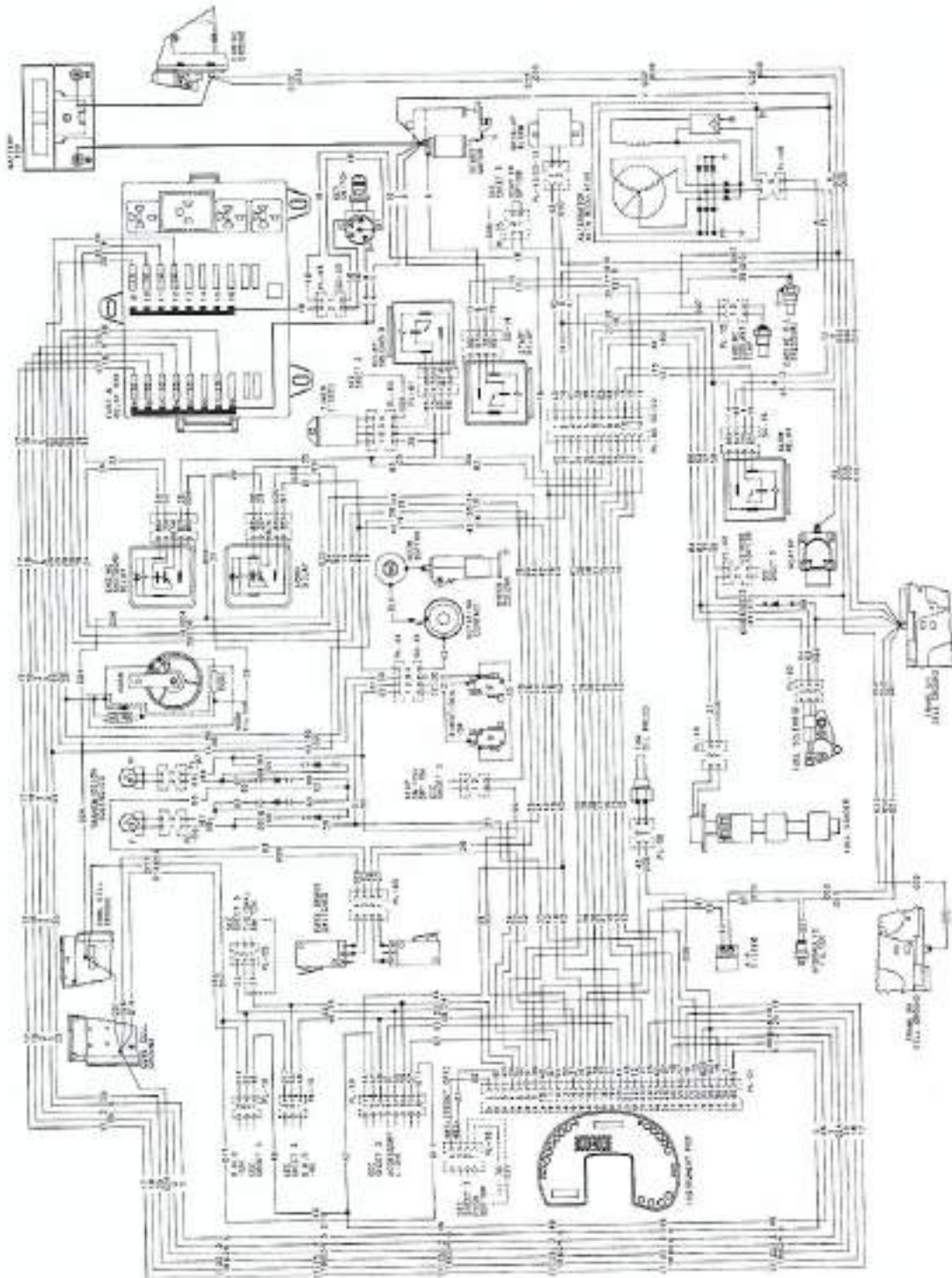
**6. Electric wiring**

**6.1 C20-35DSL electric component**

**6.1.1 Wiring(IN-28029 1/3)**

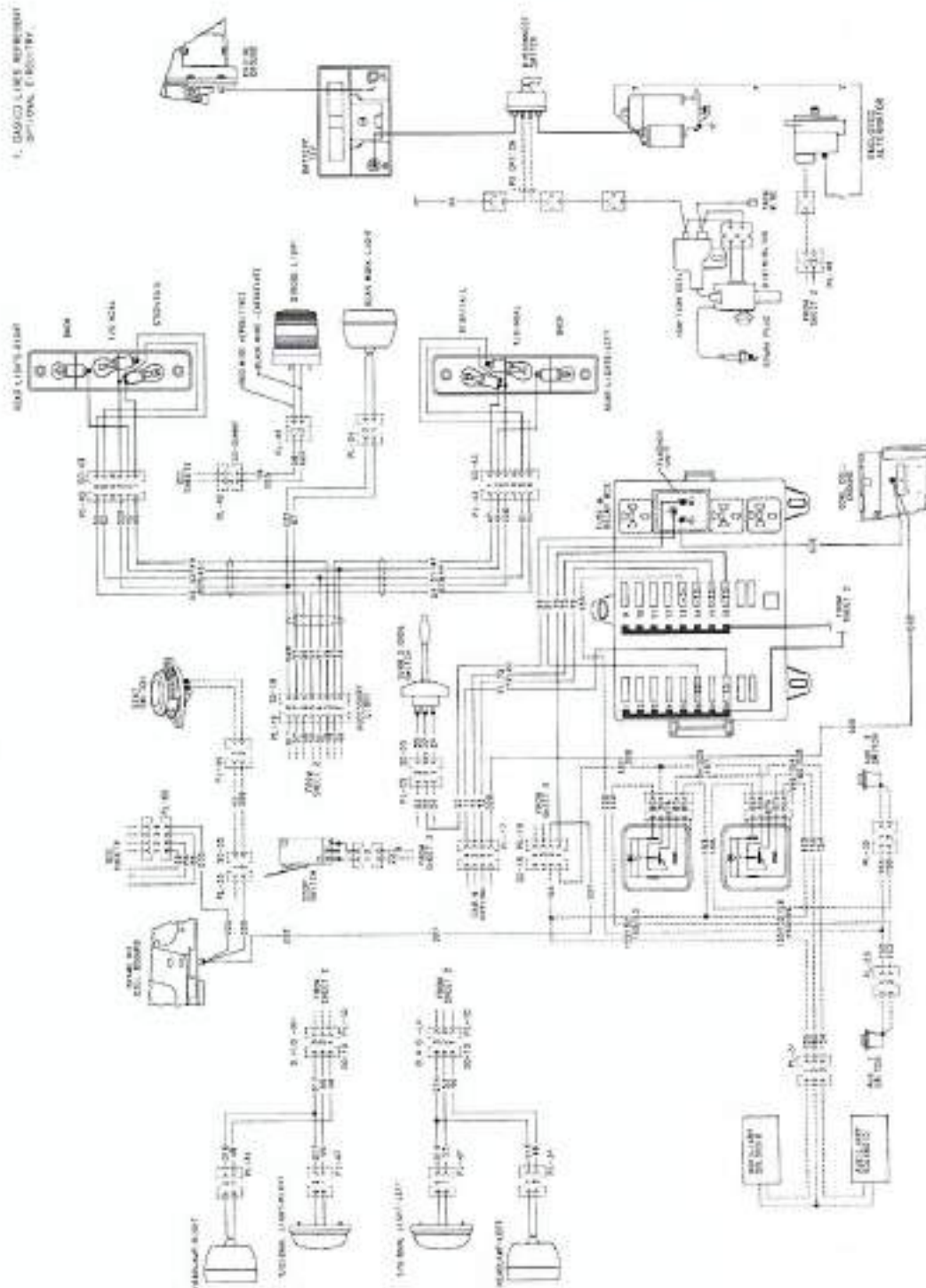


Wiring(IN-28029 2/3)





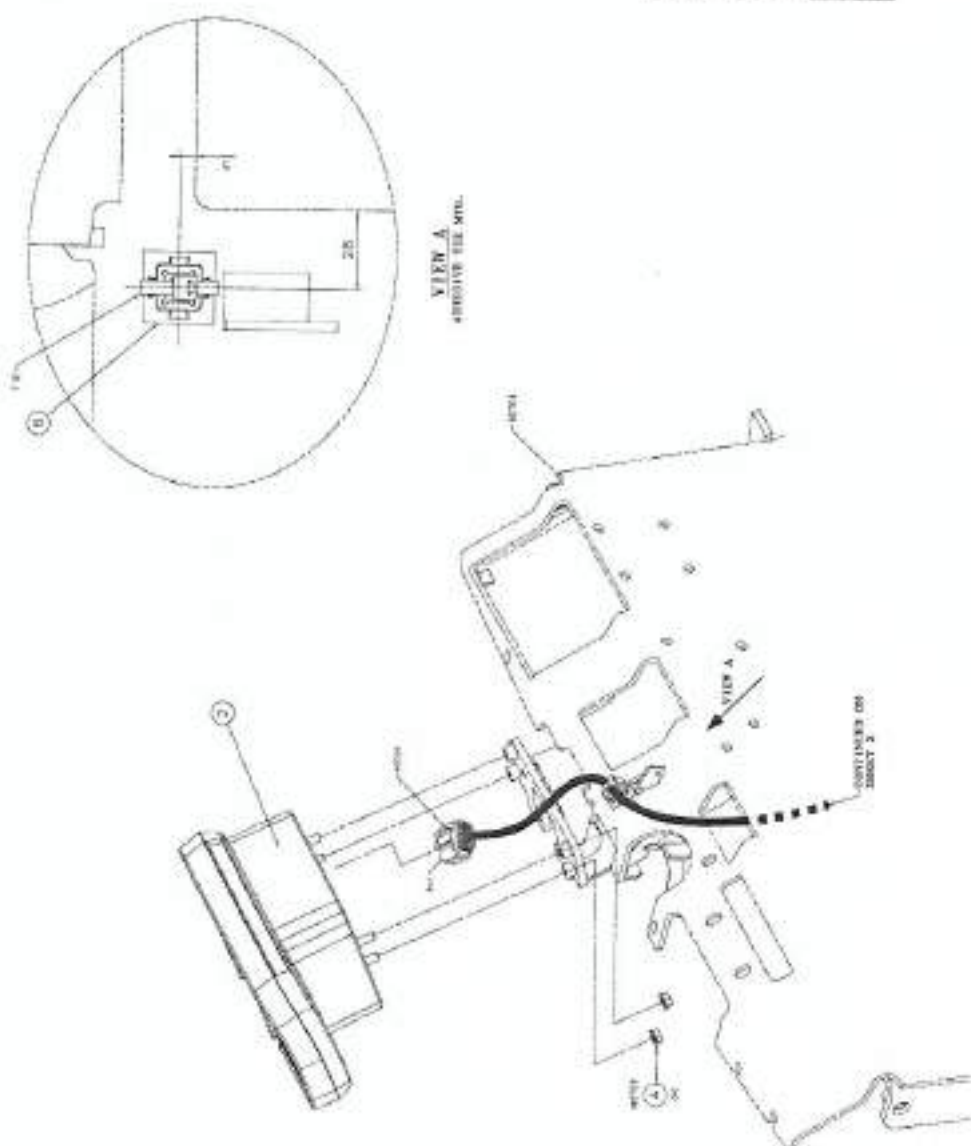
### Wiring(IN-28029 3/3)



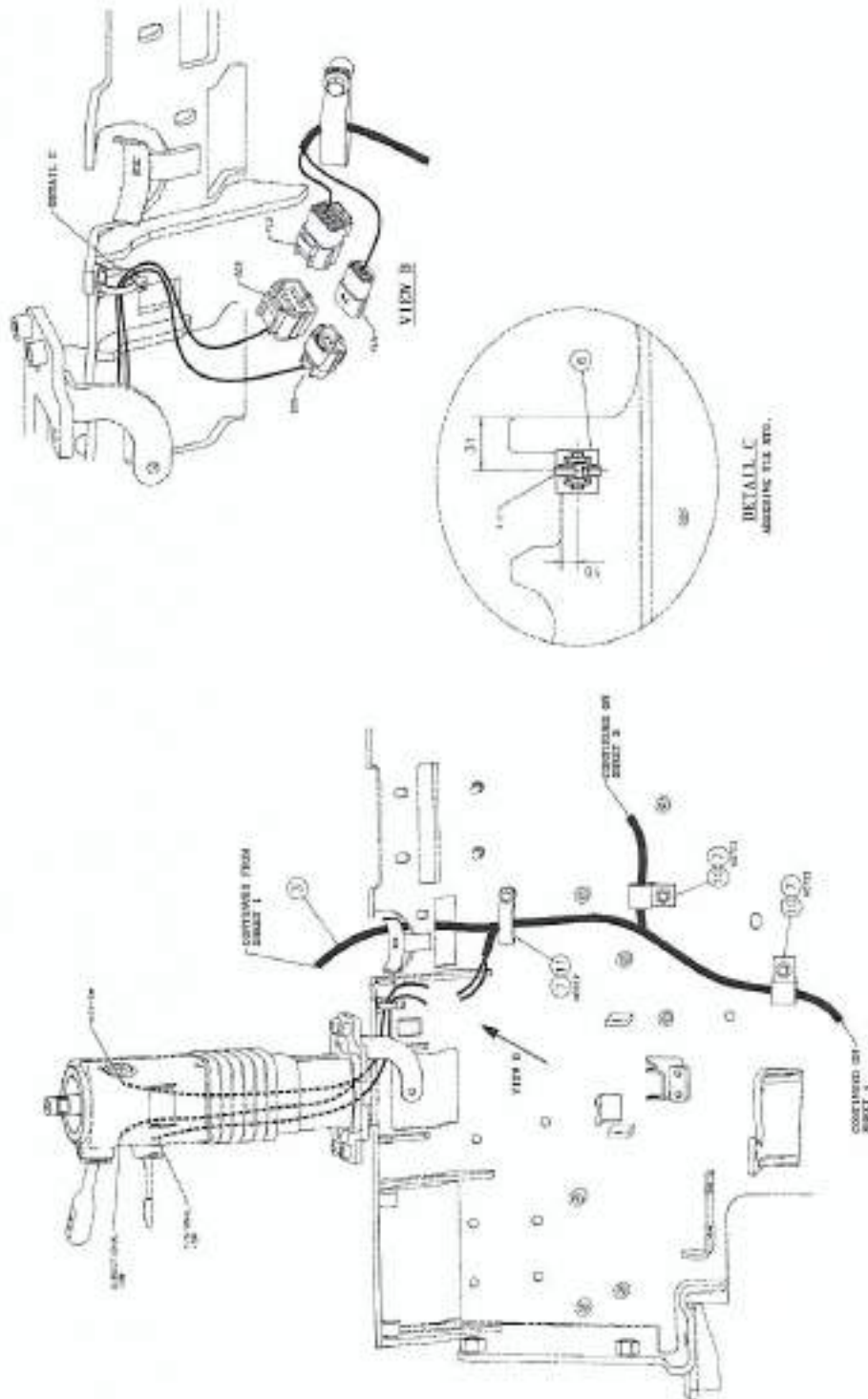
6.1.2 Assembling Drawing(SI-46848 I/6)

- 1 TORQUE TO 7 - 8 N.m
- 2 TORQUE TO 20 - 25 N.m
- 3 TORQUE TO 40 - 45 N.m
- 4 TORQUE ASSEMBLY IN CONFORMANCE TO 2.2.2.4.1
- 5 TO NOT OVERTIGHTEN

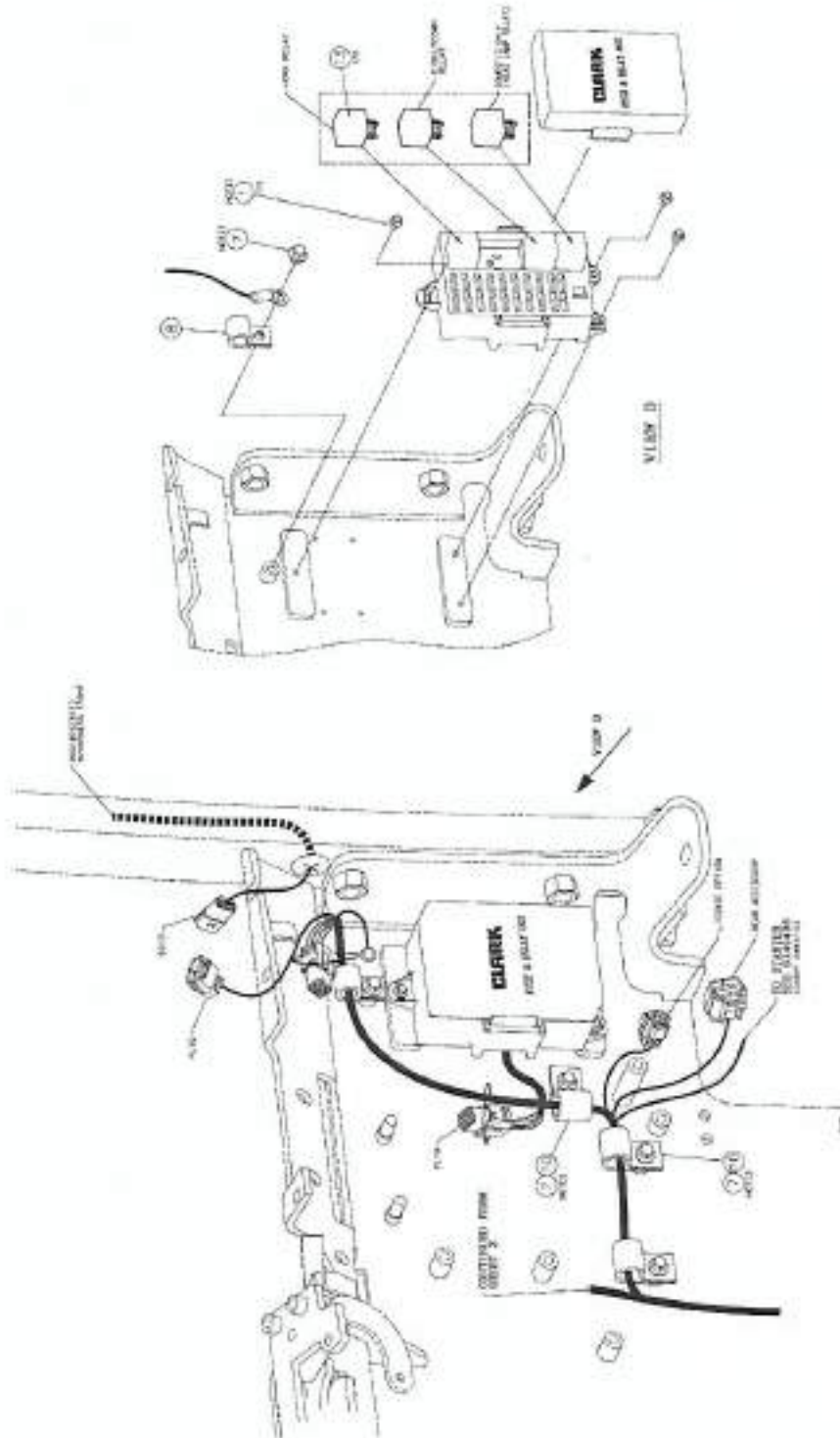
11	RELAY ASSEMBLY	1
12	WIRE ASSEMBLY	1
13	CLAMP - BATTERY MOUNT	1
14	CLAMP - BATTERY MOUNT	1
15	CLAMP - BATTERY MOUNT	1
16	CLAMP - BATTERY MOUNT	1
17	CLAMP - BATTERY MOUNT	1
18	CLAMP - BATTERY MOUNT	1
19	CLAMP - BATTERY MOUNT	1
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100	CLAMP - BATTERY MOUNT	1



Assembling Drawing(SI-46848 2/6)

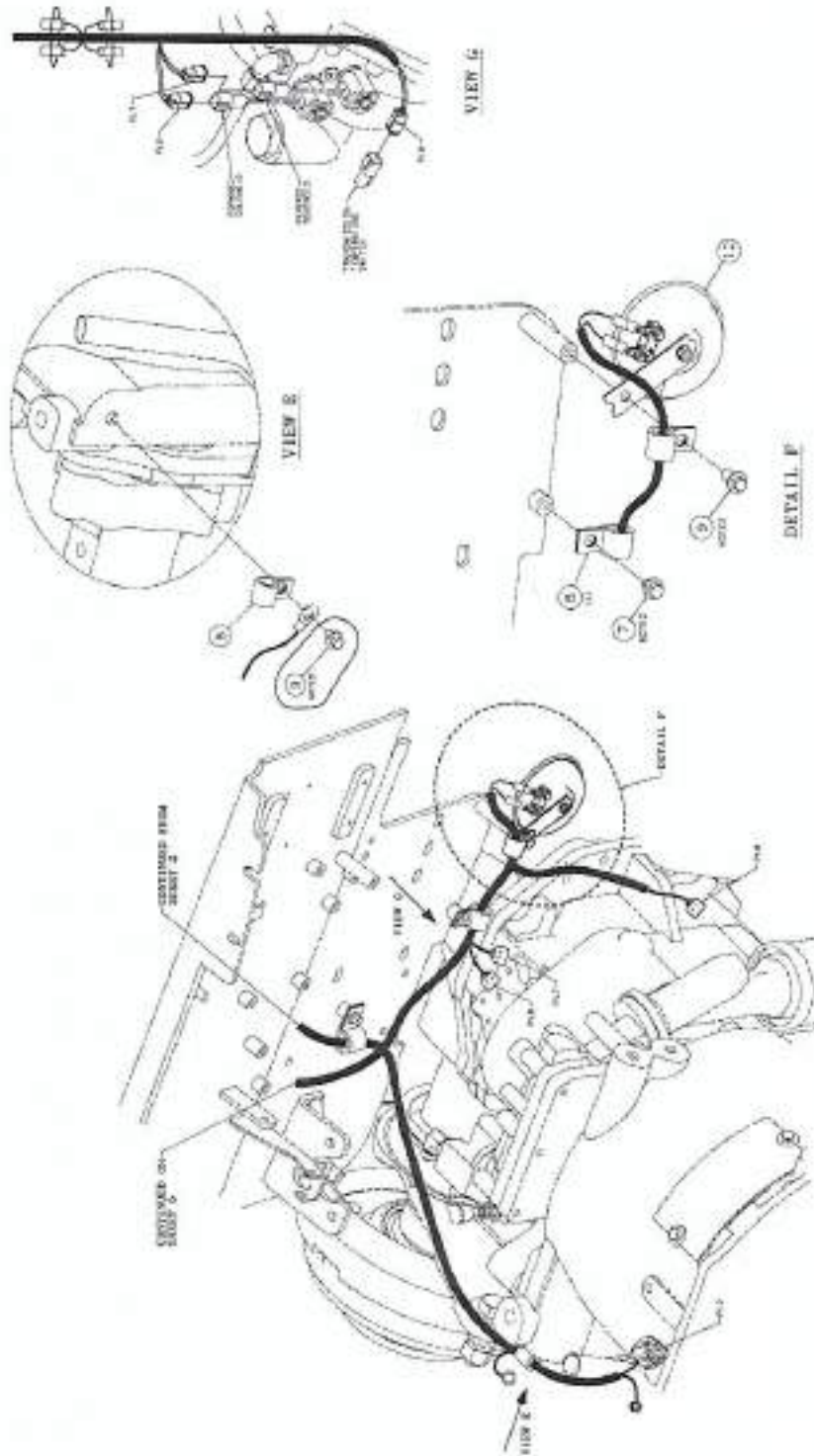


Assembling Drawing(SI-46848 3/6)

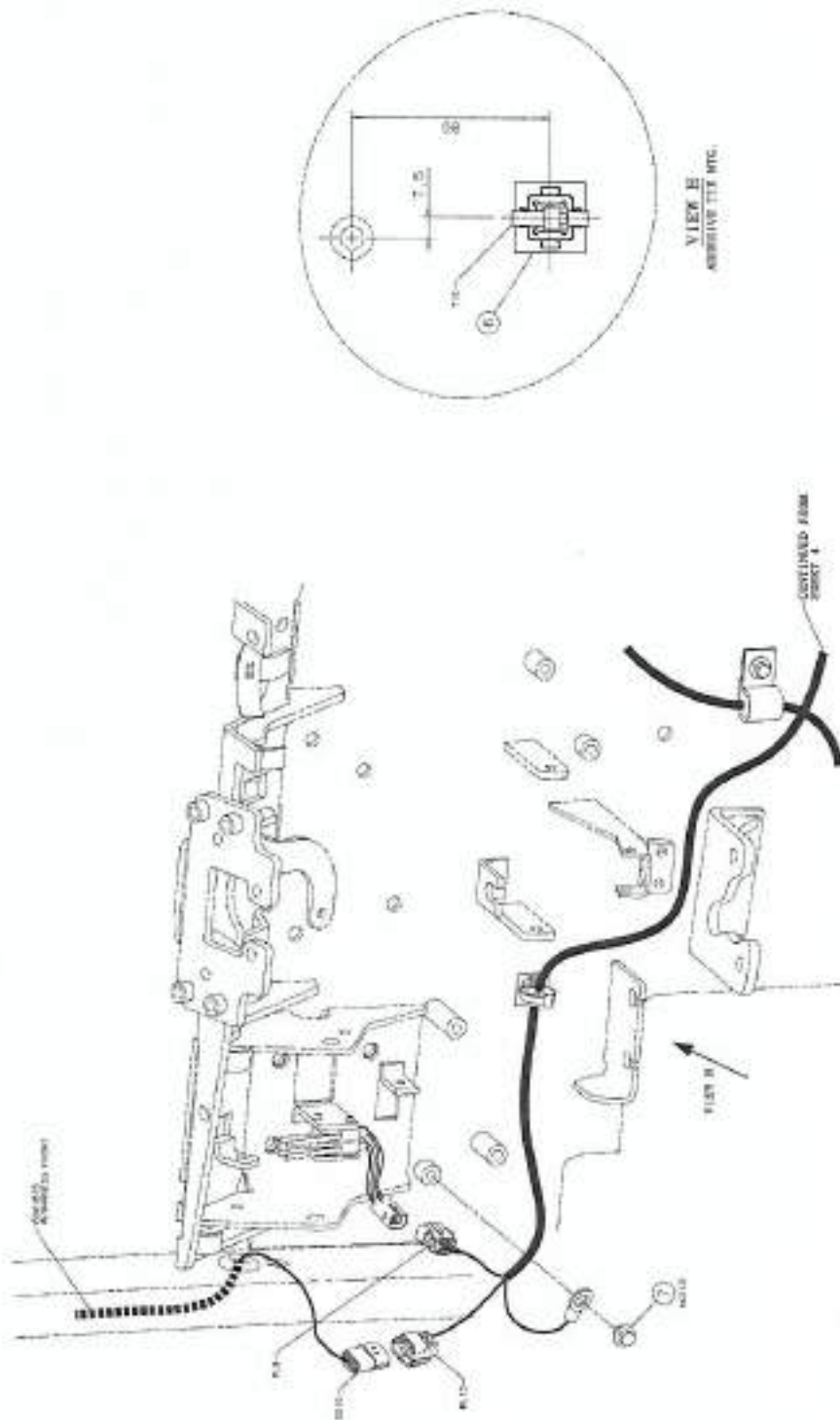




Assembling Drawing(SI-46848 4/6)



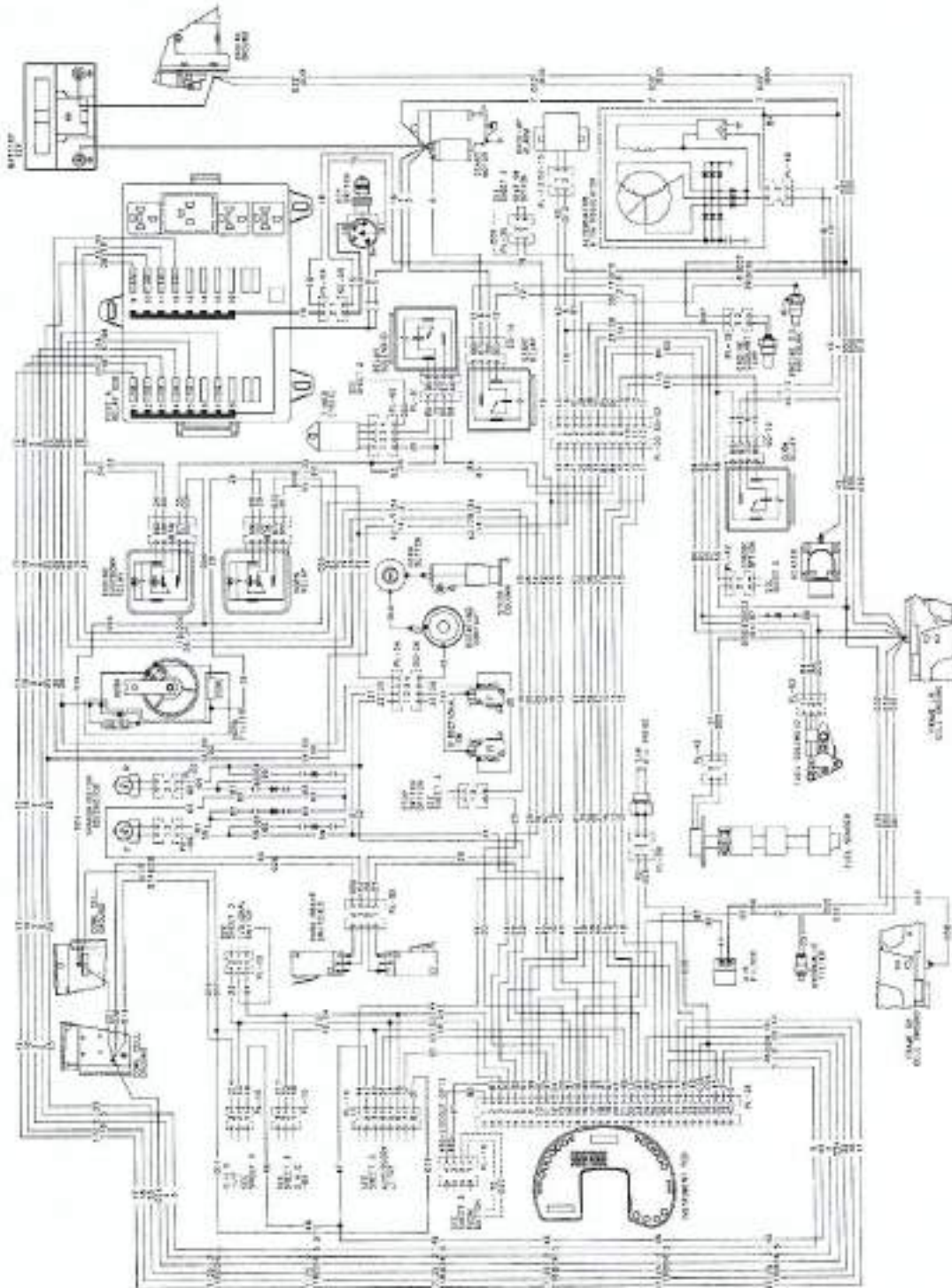
Assembling Drawing(SI-46848 5/6)



Assembling Drawing(SI-46848 6/6)



### Wiring (IN-28030 2/3)

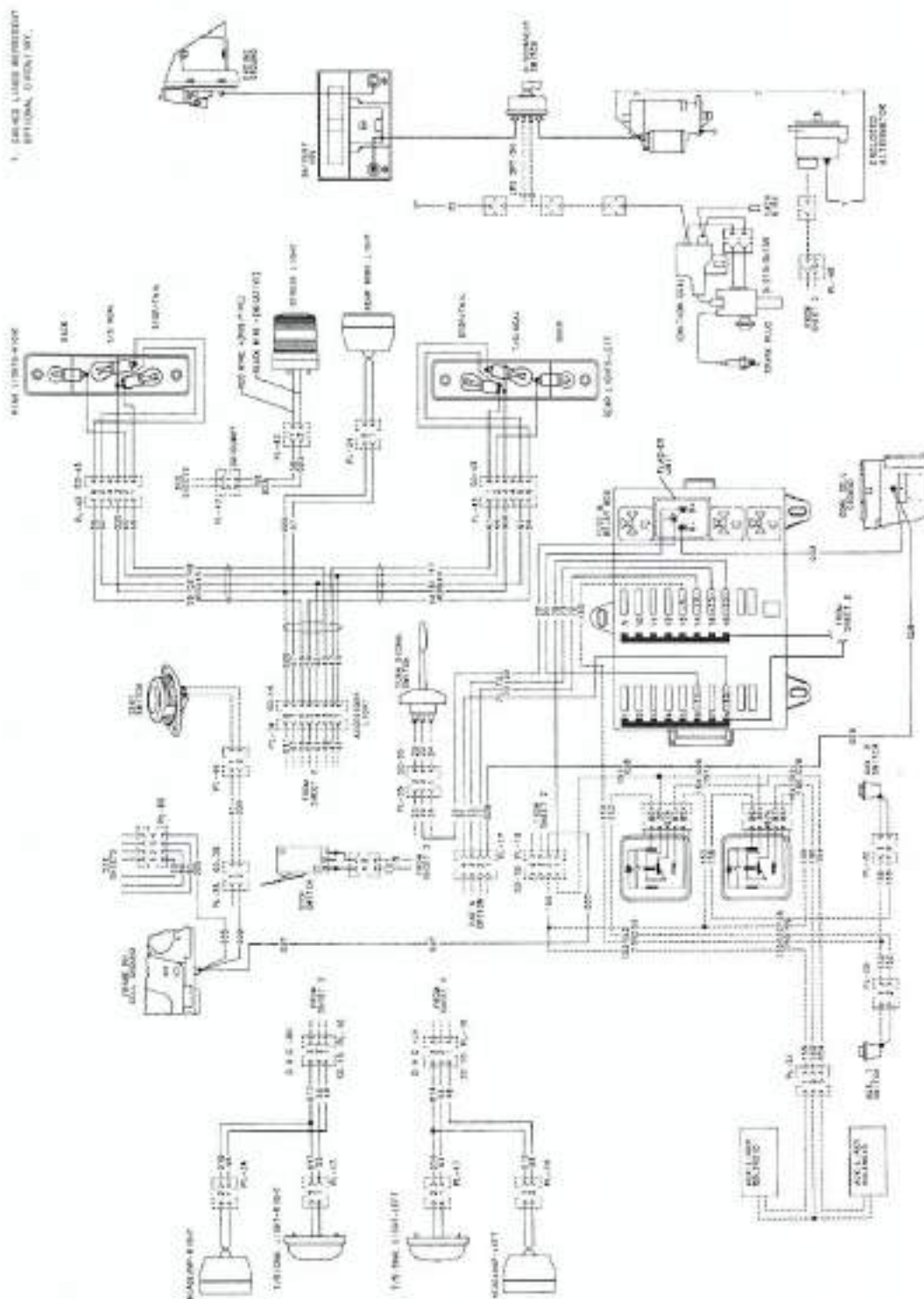




# Group 13, Electrical System

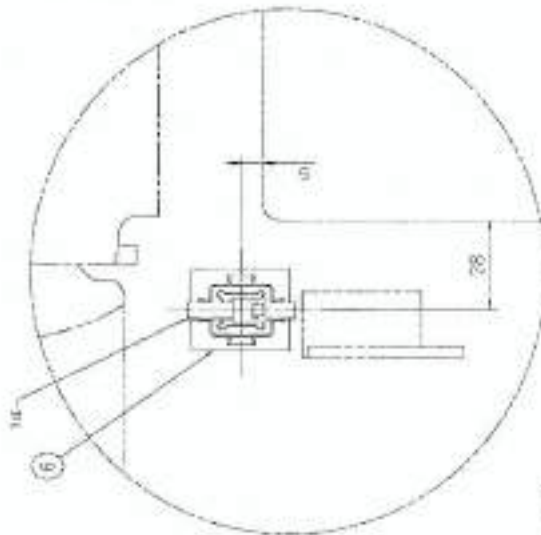
# CLARK

## Wiring(IN-28030 3/3)

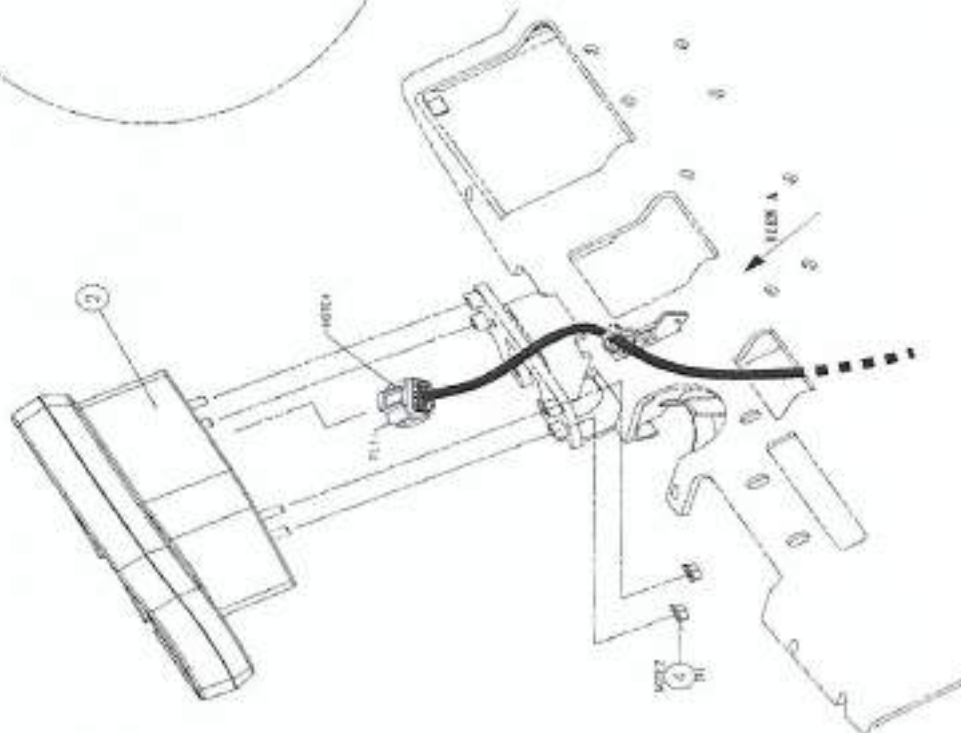


### 6.2.2 Assembling drawing(SI-45135 1/6)

1. TORQUE TO 7 - 8 N.M.
2. TORQUE TO 30 - 35 N.M.
3. TORQUE TO 60 - 65 N.M.
4. TIGHT JACKBOLTS ON CONNECTOR TO 2-3 N.M.  
DO NOT OVERTIGHTEN.

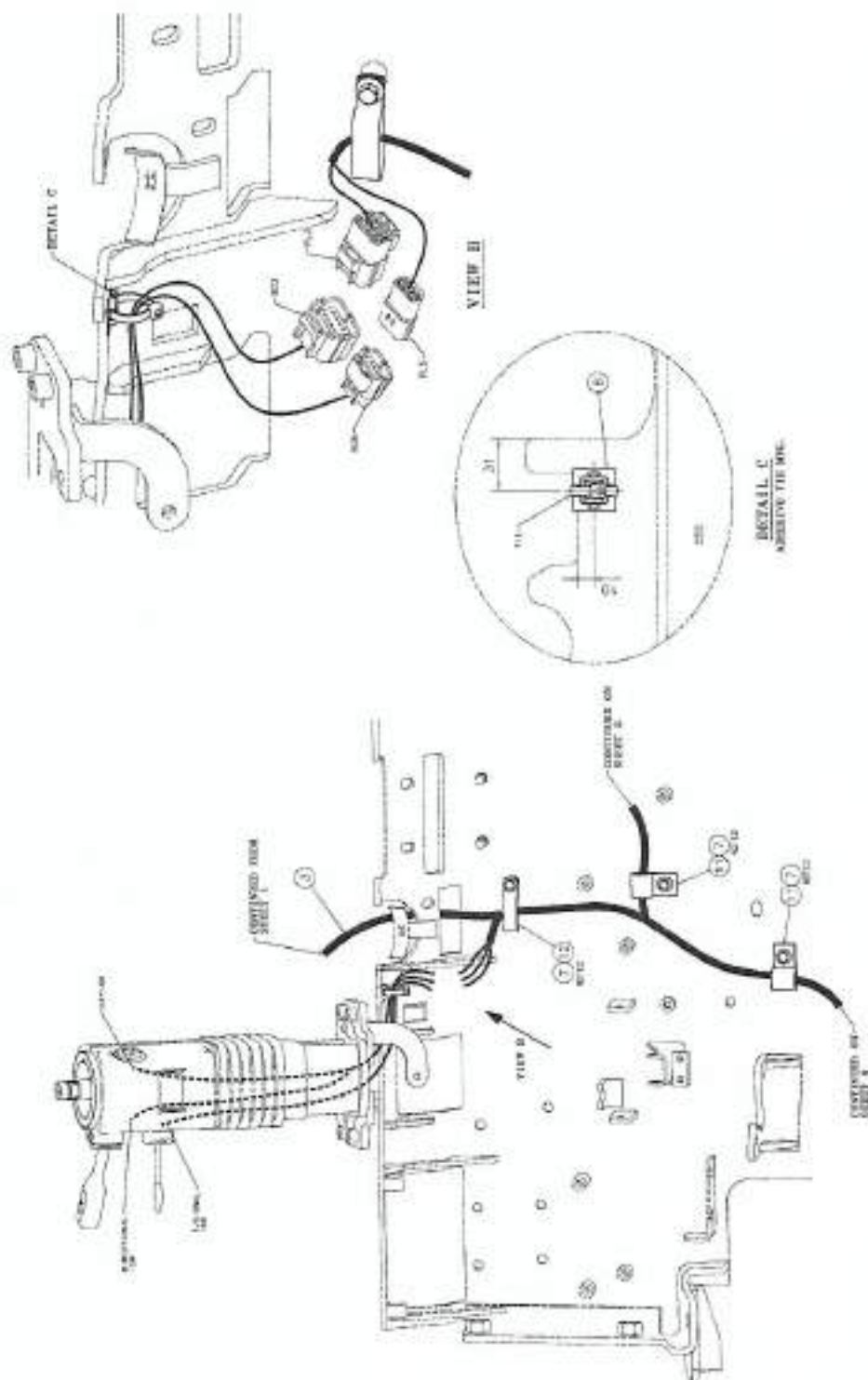


VIEW A  
ADDRESS THE MFG.



14	ROCKET	ROCKET	4
13	RELAY-3 RELAY	RELAY-3 RELAY	3
12	ROCK-ADJUSTER	ROCK-ADJUSTER	1
11	CLAMP - DIELECT	CLAMP - DIELECT	4
10	CLAMP-ADJUSTER	CLAMP-ADJUSTER	2
9	CLAMP-ADJUSTER	CLAMP-ADJUSTER	4
8	CLAMP-ADJUSTER	CLAMP-ADJUSTER	4
7	CLAMP-ADJUSTER	CLAMP-ADJUSTER	4
6	CLAMP-ADJUSTER	CLAMP-ADJUSTER	4
5	CLAMP-ADJUSTER	CLAMP-ADJUSTER	4
4	CLAMP-ADJUSTER	CLAMP-ADJUSTER	4
3	CLAMP-ADJUSTER	CLAMP-ADJUSTER	4
2	CLAMP-ADJUSTER	CLAMP-ADJUSTER	4
1	CLAMP-ADJUSTER	CLAMP-ADJUSTER	4
NO PART NO.	NO. 10	PART NAME	QTY/CLAMP

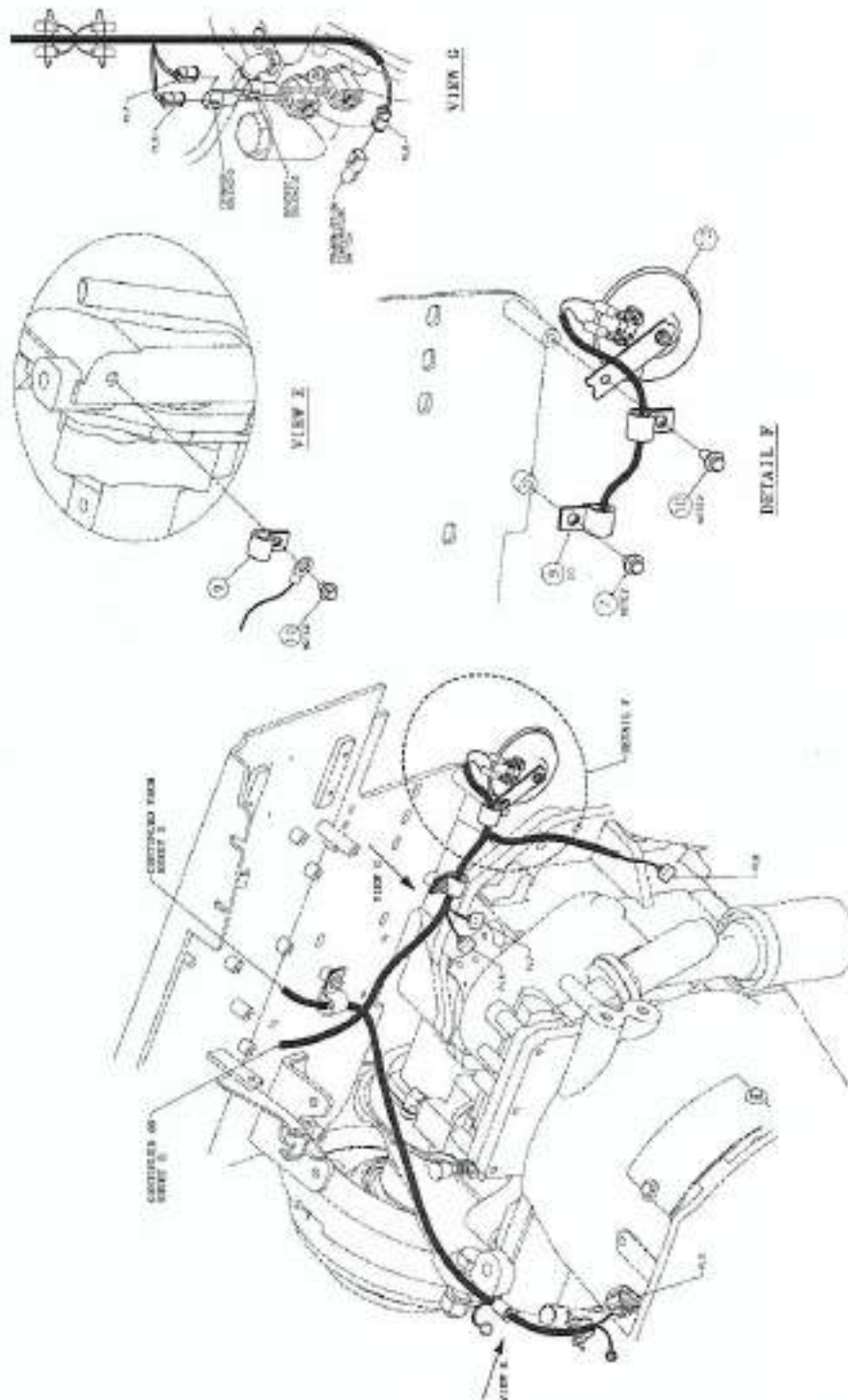
Assembling drawing(SI-45135 2/6)







Assembling drawing(SI-45135 4/6)



Assembling drawing(SI-45135 5/6)



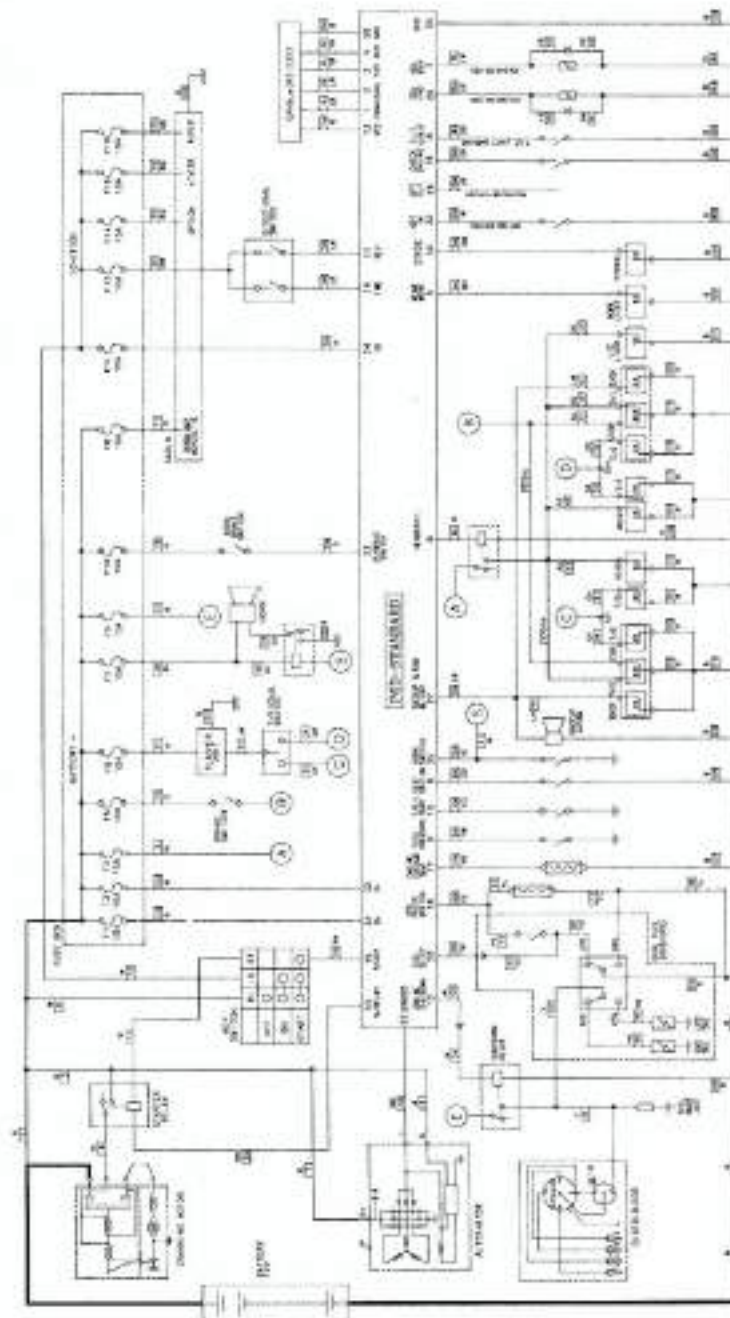
### 6.2.3 Wire harness(P/NO)

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

### 6.3 C20GAS Electrical component (TIER-0)

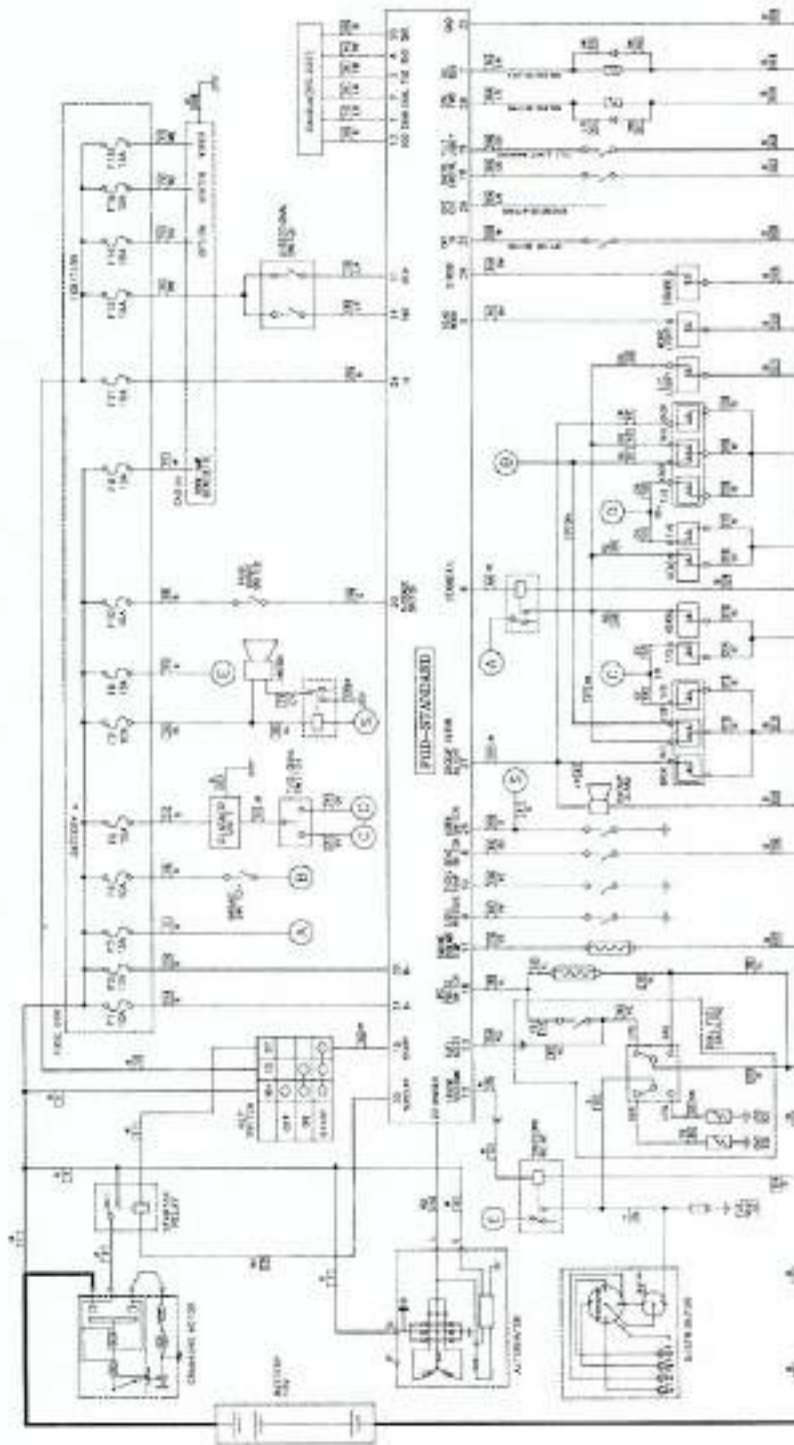
#### 6.3.1 Wiring (IN-28032 1/3)

1. WAGO BY W. INDUSTRIAL LABORATORIES, INC.
2. LIST OF BUSES AND COMPONENTS SEE 30 MAINS.
3. WIRING SHOULD BE SUBJECT TO BATTERY'S POLARITY.



Wiring (IN-28032 2/3)

1. MUST BE IN WORKING ORDER - LABORATORY, INC.
- 1-5053 (A) INDICATES COMPONENT AND IS TO BE USED
2. ABOVE SYMBOLS CONNECT TO PARTS(1-5) (1-5053)



Wiring (IN-28032 3/3)



1. REPT. BY WELDED WIRE, WELDMENT, INC.  
LETTER OR NUMBER OF COMPANY ARE BE TO MARKED.
2. WIRING SHOULD BE CORRECT TO WIREMENT DIRECTLY

