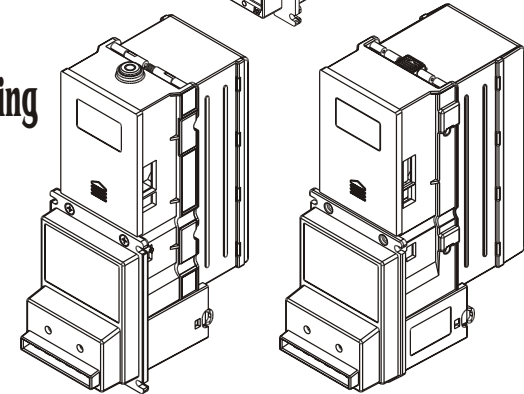
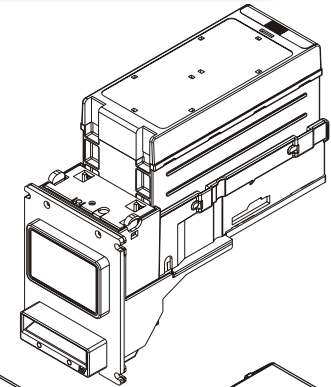


Bill Validator

A6&V6 Series Installation Guide

- 4 - Way Acceptance
- Low Maintenance
- Easy Installation
- Re - Programmable
Flash ROM
- Auto Self -Adjusting
Sensor System



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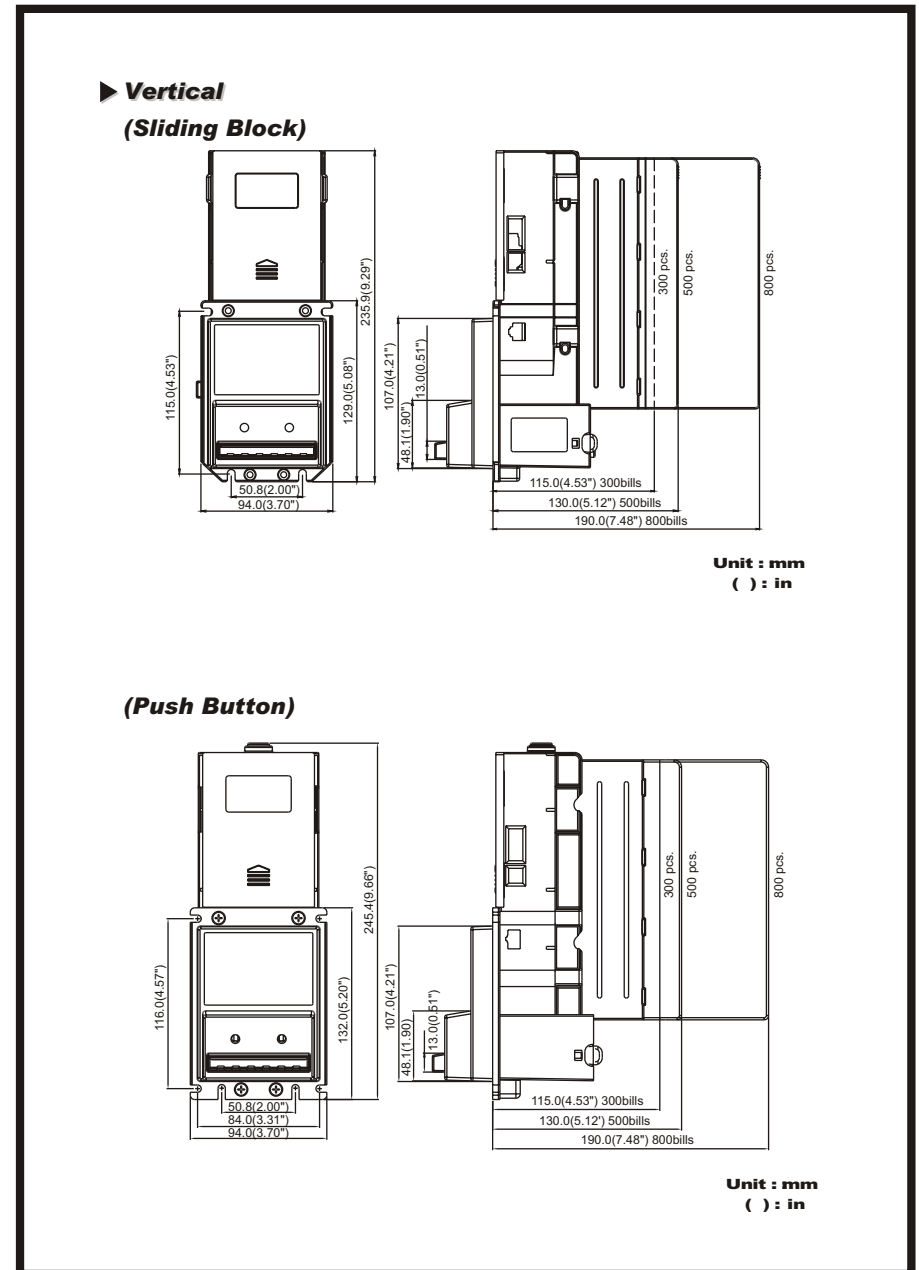
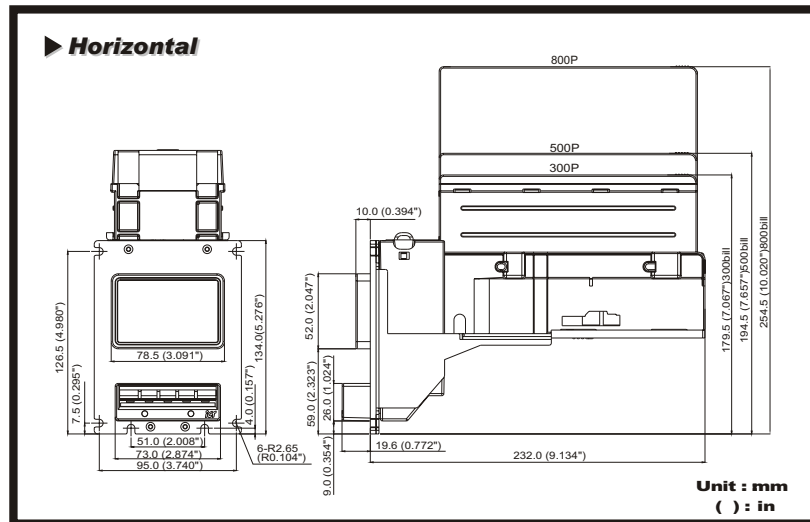
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(1) A6/V6 Bill Validator Specifications

Acceptance Rate	Weight
96% or greater	Approx. 2kg (shipping)
Bill insertion	Power Sources
4-way Acceptance	34V DC 1.5Amp (M.D.B)
Acceptance Speed	12V DC 3 Amp
Approx. 3 seconds, Pulse Interface (including bill stacking)	117V AC 0.2Amp (60HZ)
Interfaces	24V AC 1.5Amp (60HZ)
S.T.D. Pulse	Power Consumption
M.D.B. (Multi-Drop Bus)	Max 50 watts
ICT Protocol	Environment Range
Bill box Capacity	Operating Temperature 0°C~55°C
Approx. 300 bills (200~300) 3M-SBX03005	Storage Temperature -30°C~70°C
500 bills (300~500) 3M-SBX04005	Humidity : 30%~85% RH (no condensation)
800 bills (750~850) 3M-SBX08005	

◆ This guide contains all A6/V6 specs, but the actual machine matches only one of the specs.

(2) Bill Validator Dimensions



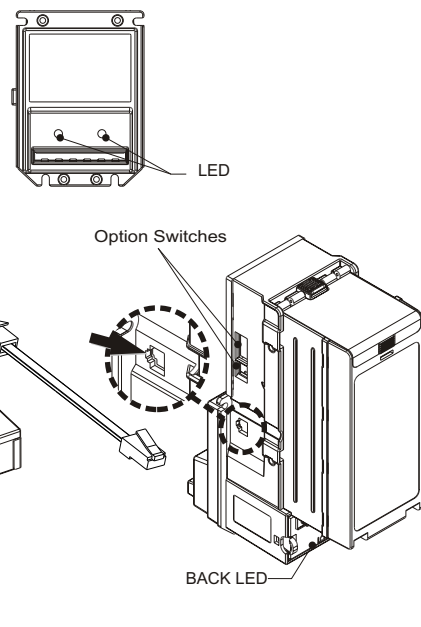
(3) LED Display

The two LED lights located at the front of the unit will show the operational status of the bill validator. The LED lights will flash ON and OFF (in 500ms intervals) when the unit is ready to accept bills. The LED lights will be OFF if the unit is disabled or out of service, in which case the unit will not accept any bills.

The bill validator can only accept one bill at a time. The LED lights will be OFF and will not accept another bill while a bill is being validated in the unit. The LED lights will start to flash normally when the bill validator is ready to accept the next bill.

(4) LED Status

FLASHES	STATUS
1	bill jammed
2	disabled from system
3	sensor problem
4	reserved
5	bill box is removed
6	bill box is full of money
LED ON	POWER ON
LED OFF	POWER OFF



(5) Download and Upgrade

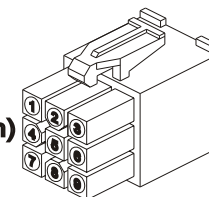
In addition to the 30-pin connector, there is also an 8-pin RJ-45 connector on the side of the bill validator designed for the purpose of downloading programs and updating validation software. The connector will be kept open under normal operation of the bill validator. It will only be used when a new software or program need to be downloaded into the flash ROM. (Figure 1)

Pin-out Assignments (30 Pin, Power for 12V DC)

For the 12V DC version of the A6 bill validator, the harness (part no. WEL-M007, see page.11 for pin-out Information) has a dual-in-line 30-pin peripheral connector at one end and a 9-pin mating connector at the other end. Connect the 30-pin connector to the side of the bill validator and the 9-pin mating connector to the 12V DC power harness (part no.CU-961-1, see page. 9 for pin-out Information).

◆ 9-pin mating connector pin-out assignments:

Pin 1 INHIBIT +	Pin 6 Reserved
Pin 2 INHIBIT -	Pin 7 CREDIT_RELAY(N.O.)
Pin 3 Reserved	Pin 8 CREDIT_RELAY(Common)
Pin 4 Reserved	Pin 9 GND (Power)
Pin 5 12V DC (Power)	



◆ Dual-In-line 30-pin peripheral connector (A6, 12V DC) pin-out assignments:

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

Pin 1 - CREDIT_RELAY(Common)	Pin 16 - CREDIT_RELAY(N.O.)
Pin 2 - 12VDC (Power)	Pin 17 - Reserved
Pin 3 - ENABLE -	Pin 18 - ENABLE +
Pin 4 - Reserved	Pin 19 - KEY
Pin 5 - INHIBIT +	Pin 20 - INHIBIT -
Pin 6 - KEY	Pin 21 - Reserved
Pin 7 - Reserved	Pin 22 - Reserved
Pin 8 - Reserved	Pin 23 - Reserved
Pin 9 - Reserved	Pin 24 - Reserved
Pin 10 - GND (Power)	Pin 25 - Reserved
Pin 11 - Reserved	Pin 26 - Reserved
Pin 12 - Reserved	Pin 27 - Reserved
Pin 13 - Reserved	Pin 28 - Reserved
Pin 14 - Reserved	Pin 29 - Reserved
Pin 15 - Reserved	Pin 30 - Reserved

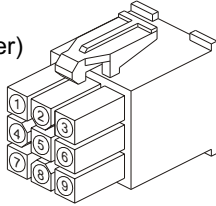
◆ CAUTION: Turn off the power before connecting or disconnecting the bill validator.

(6) 6-2 A6 Pin-out Assignments (S.T.D. Pulse for 117V AC)

For the 117V AC version of the A6 bill validator, connect the 30-pin peripheral connector on one end of the harness (*part no. WEL-M008*, see page.12 for pin-out information) to the side of the unit and the 9-pin mating connector to the 117V AC power harness (*part no. WEL-M010 and WEL-M012*, see page.13,14 for pin-out information).

◆ 9-pin mating connector pin-out assignments:

Pin 1 NEUTRAL INHIBIT	Pin 6 117VAC NEUTRAL(Power)
Pin 2 NEUTRAL ENABLE	Pin 7 CREDIT_RELAY(N.O.)
Pin 3 HOT ENABLE	Pin 8 CREDIT_RELAY (Common)
Pin 4 117VAC HOT (Power)	Pin 9 Reserved
Pin 5 Earth - Ground	



IMPORTANT: On 117V AC units, the Earth Ground must be located inside the machine.

◆ Dual-in-line 30-pin peripheral connector (A6, 117V AC) pin-out assignments:

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

Pin 1 - CREDIT_RELAY(Common)	Pin 16 - CREDIT_RELAY(N.O.)
Pin 2 - Reserved	Pin 17 - Reserved
Pin 3 - NEUTRAL ENABLE	Pin 18 - HOT ENABLE
Pin 4 - 117VAC NEUTRAL(Power)	Pin 19 - KEY
Pin 5 - NEUTRAL INHIBIT	Pin 20 - 117VAC HOT(Power)
Pin 6 - KEY	Pin 21 - EARTH GROUND
Pin 7 - Reserved	Pin 22 - Reserved
Pin 8 - Reserved	Pin 23 - Reserved
Pin 9 - Reserved	Pin 24 - Reserved
Pin 10 - Reserved	Pin 25 - Reserved
Pin 11 - Reserved	Pin 26 - Reserved
Pin 12 - Reserved	Pin 27 - Reserved
Pin 13 - Reserved	Pin 28 - Reserved
Pin 14 - Reserved	Pin 29 - Reserved
Pin 15 - Reserved	Pin 30 - Reserved

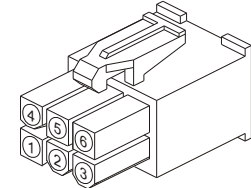
◆ **CAUTION:** Turn off the power before connecting or disconnecting the bill validator.

(7) 7-1 V6 Pin-out Assignments (M.D.B. System for 34V DC)

For the MDB interface V6 bill validator, connect the 30-pin peripheral connector on one end of the harness (*part no. WEL-M006*, see page.10 for pin-out information) to the side of the unit and the standard 6-pin MDB connector to the power/interface connector.

◆ The standard 6-pin MDB connector pin-out assignments:

Pin 1 - 34 VDC
Pin 2 - 34 VDC Power Return
Pin 3 - N/C
Pin 4 - Master Receive
Pin 5 - Master Transmit
Pin 6 - Communications Common



◆ Dual-in-line 30-pin peripheral connector (V6, MDB) pin-out assignments:

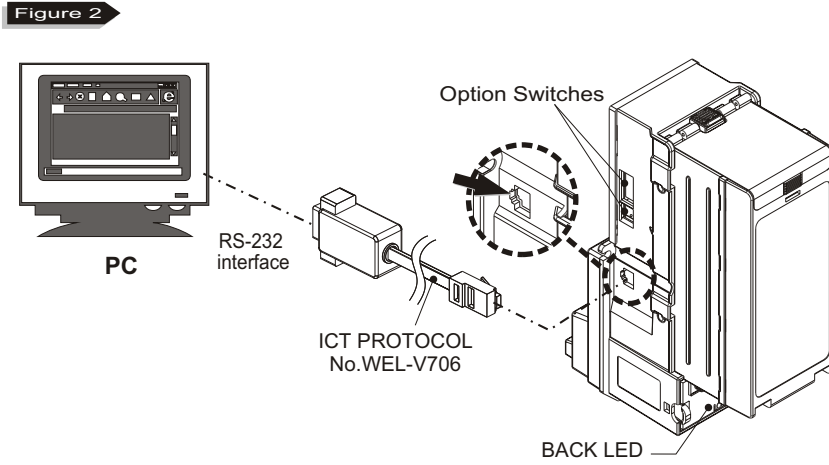
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

Pin 1 - Reserved	Pin 16 - 34VDC_RETURN
Pin 2 - Reserved.	Pin 17 - Reserved
Pin 3 - Reserved	Pin 18 - Reserved
Pin 4 - Reserved	Pin 19 - Reserved
Pin 5 - KEY	Pin 20 - Reserved
Pin 6 - MDB_MASTER_RXD	Pin 21 - KEY
Pin 7 - Reserved	Pin 22 - Reserved
Pin 8 - Reserved	Pin 23 - +34VDC
Pin 9 - Reserved	Pin 24 - Reserved
Pin 10 - Reserved	Pin 25 - Reserved
Pin 11 - Reserved	Pin 26 - Reserved
Pin 12 - Reserved	Pin 27 - Reserved
Pin 13 - Reserved	Pin 28 - MDB_GND
Pin 14 - MDB_MASTER_TXD	Pin 29 - Reserved
Pin 15 - Reserved	Pin 30 - Reserved

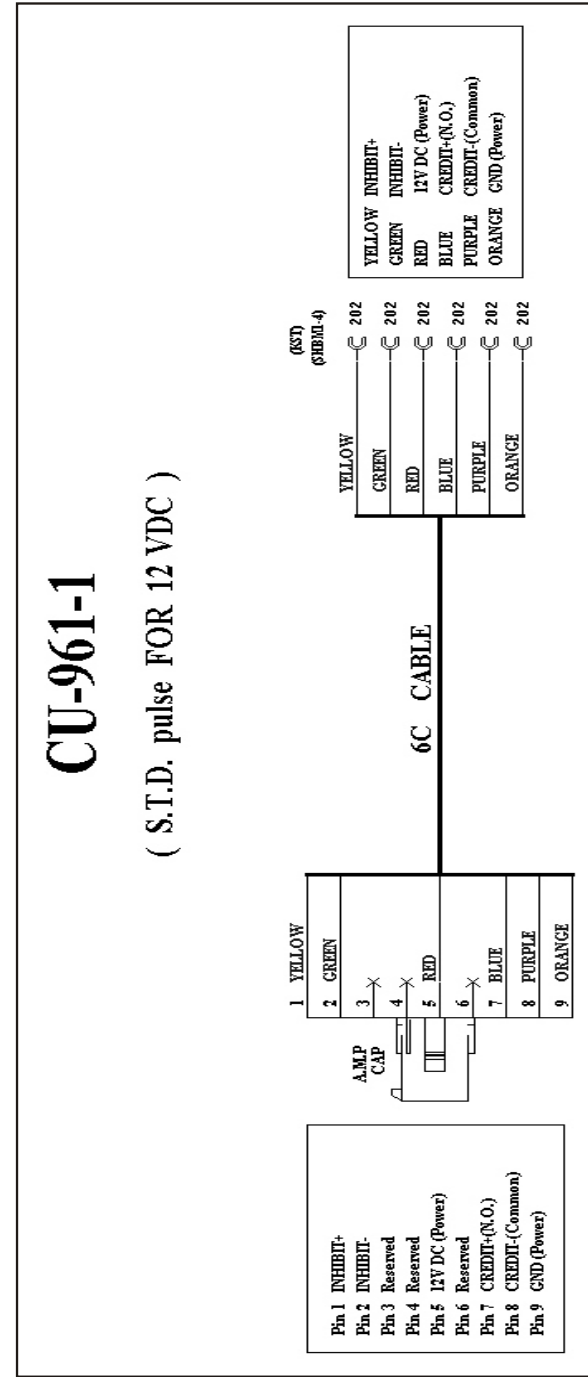
◆ **CAUTION:** Turn off the power before connecting or disconnecting the bill validator.

(8) A6 Pin-out Assignments (I.C.T. Protocol)

The cable for ICT Protocol (*part no. WEL-V706*, see page. 17 for pin-out information) connector on one end and a 9-pin PC connector on the other end. To connect, plug the RJ-45 connector into the RJ-45 socket on the side of the BA and connect the 9-pin PC connector to the COM port of a PC (Figure 2).

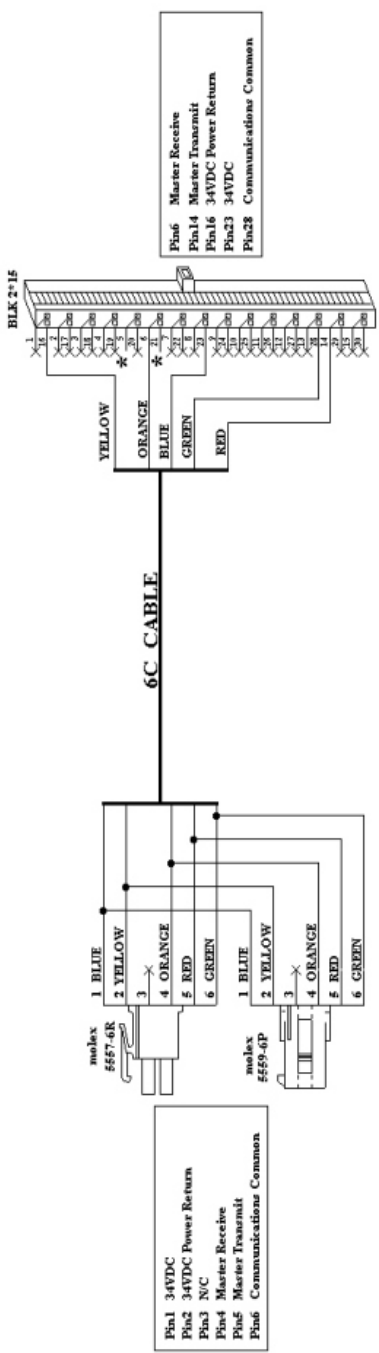


(9) Cable



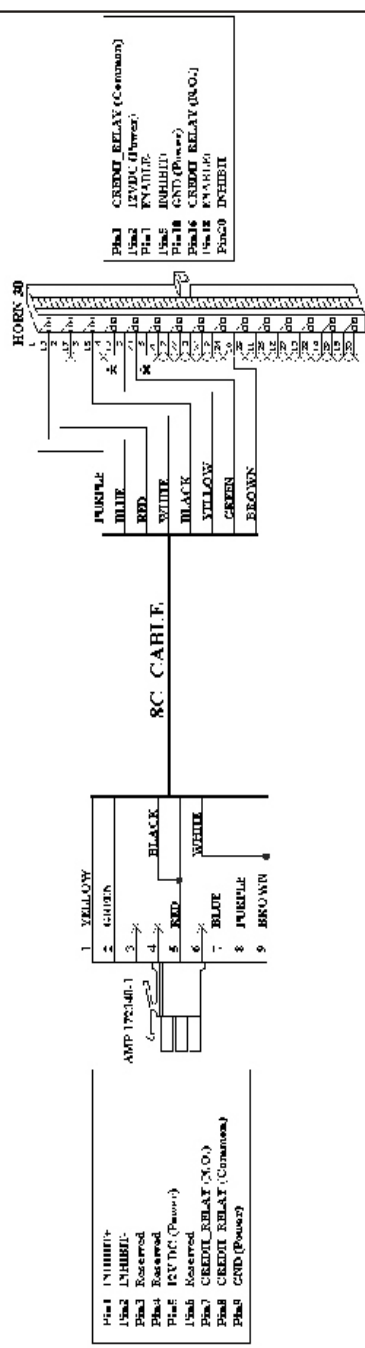
WEL-M006

(M.D.B. System for 34V DC)



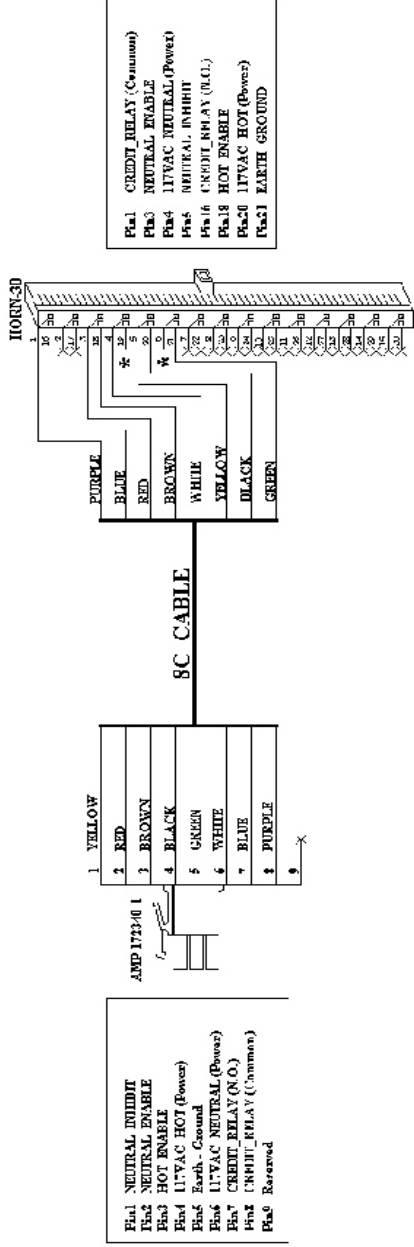
WEL-M007

(S.T.D. Pulse for +12VDC)



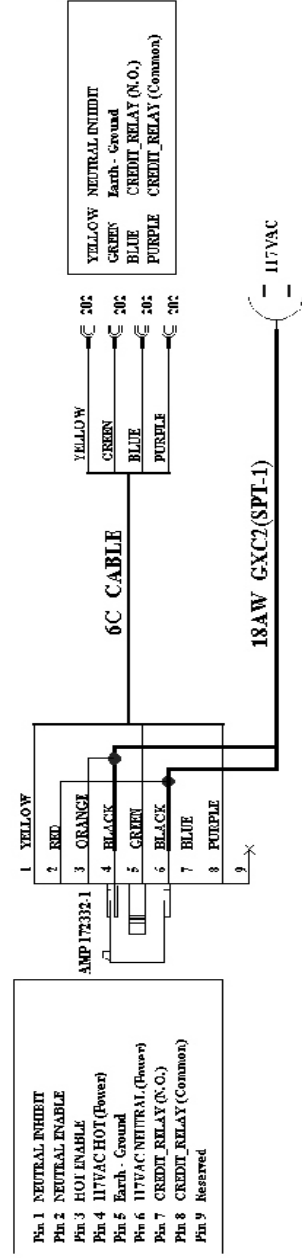
WEL-M008

(S.T.D. Pulse for 117VAC)



WEL-M010

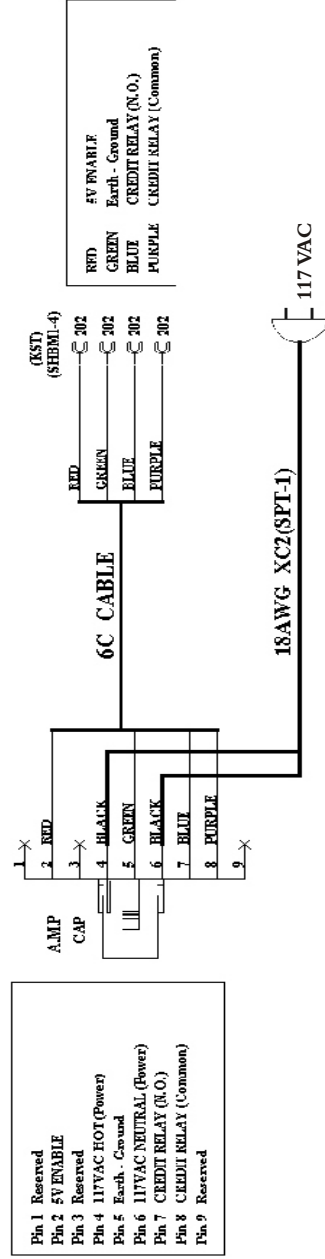
(S.T.D pulse FOR 117 VAC)



(Option)

WEL-M018

(S.T.D pulse + 5V ENABLE For 117VAC)



(Must use WEL-MO17)

(Option)

WEL-V706

(I.C.T. Protocol)

