SELECT INVERTER CONTROL PANEL MAP

for Software Vers 0 - Released January 1995

MENU HEADING	*Use the* MENU HEADING *keys to select from the first column and move up and down map vertically.*
MENU ITEM / SETPOINT	*Use the* MENU ITEM *keys to view the screens under the* MENU HEADINGS. *Use the* SETPOINT *keys to change the values displayed on the screen.*
INFORMATION	*Screens with dashed outlines are* INFORMATION *only.*
METERS	*Screens in reverse are* METER *displays.*

Values shown are the defaults at power-up and upon reset of the inverter.

INVERTER MODES
- SET INVERTER OFF SRCH ON LO IG
- SET GRID USAGE B/T SELL SLT LBX
- GTIS AVAIL ONLY IN FLT MODE

GENERATOR MODE
- SET GENERATOR OFF AUTO ON

If no AC in 2 secs Ry 7 will open in 3 min

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AMP METERS
- INVERTER AMPS AC 00
- INPUT AMPS AC 00
- LOAD AMPS AC 00

VOLT METERS
- BATTERY ACTUAL VOLTS DC 24.2
- BATTERY TEMPCOMP VOLTS DC 23.4
- INVERTER VOLTS AC 120
- GRID VOLTS AC 000
- GENERATOR VOLTS AC 000
- GRID IS INPUT 1 GEN IS INPUT 2
- GRID & GEN VOLTS VALID ONLY WHEN
- INVERTER SYNCED TO THAT INPUT
- BATT VOLT ACTUAL IS USED FOR
- LBCO, HBCO, LBX AND GEN START
- BATT VOLT TEMP COMP IS USE FOR
- FLOAT, BULK, SELL AND AUX RELAYS

ERROR CAUSES
- OVERCURRENT NO
- TRANSFORMER OVERTEMP NO
- HEATSINK OVERTEMP NO
- HIGH BATTERY NO
- LOW BATTERY NO
- EXTERNAL VOLTAGE ON OUTPUT NO
- EXTERNAL ERROR (STACKED) NO
- MANUAL OFF NO

BATTERY
- SET FLOAT VOLTS DC 26.8
- SET SELL VOLTS DC 26.8
- SET BULK VOLTS DC 28.8
- SET MAX CHARGE AMPS AC 30
- SET MAX SELL AMPS AC -30
- SET BULK DONE AMPS AC 008
- SET MAX BULK TIME H:M 05:00
- SET LOW BATTERY CUT OUT VDC 20.0
- SET LBCO AMPS VDC 100 200 400 800
- SET LOW BATTERY CUT IN VDC 25.0
- SET HIGH BATTERY CUT OUT VDC 31.0
- SET TEMP COMP -1MV/DEGC 004
- SET LOW BATTERY TRAFFER VDC 22.0

2 min. - 16V lowest for charger to engage

INFORMATION ONLY BATTERY
- BATT TEMP COMP CHANGES BATTERY
- VOLTAGE READING
- IF TEMP COMP SET TO 1 THEN BATT
- VOLT READING RISE .1V/DEC
- EFFECTIVELY THIS REDUCES ALL
- BATTERY SETPOINTS
- HIGH BATTERY RESETS AT 3 VOLT
- UNDER LBCO SETPOINT
- LOW BATT TRAFFER USED IN LBX, FLT
- MODES ONLY GOES BACK TO BATTERY
- AT LOW BATT OUT IN (AKA LBCO)
- FOR LBX MODE SET BULK FLOAT VOLT
- ABOVE LBCO ELSE CHARGER WON'T
- READ LBCO

INVERTER
- SET SEARCH WATTS 010
- SET SEARCH SPACING 008
- SET SEARCH DELAY 060
- READ FREQ 63 NOMINAL

NOTE: DISPLAYS A VALUE OF 63 WHEN THE FREQUENCY IS 60 Hz, 0 AT 53 HZ AND 127 AT 67 HZ - A 1 HZ VARIANCE CHANGES THE DISPLAY BY A VALUE OF 10 (SO... 61 HZ EQUALS 73 ON THE DISPLAY, ETC)

AC INPUTS
- SET GRID SIZE AMPS AC 60
- SET GEN SIZE AMPS AC 30
- SET GRID LOWER LIMIT VAC 108
- SET GRID UPPER LIMIT VAC 132
- SET GEN LOWER LIMIT VAC 106
- SET GEN UPPER LIMIT VAC 140

TIME OF DAY 23:24:40
- SET SECONDS 000
- SET MINUTE 00:00:00
- SET HOUR 00:00:00

BULK CHARGE TRIGGER TIMER
- START BULK TIME 21:00
- TO DISABLE TIMER SET TO 00:00
- IF GRID TIMER ACTIVE SET BULK
- TIME AFTER START CHARGE TIME
- IN SLT MODE DONT DISABLE THIS
- TIMER IF IS THE DAILY CHARGE TIME

GRID USAGE TIMER
- START CHARGE TIME 21:00
- END CHARGE TIME 21:00
- TIMER ON WHEN START <> END
- TIMER OFF WHEN START = END
- SELL AND FLOAT MODES USE TIMER
- SLT AND LBX MODE IGNORE TIMER
- AFTER START TIME
- SELL MODE CHARGES BATTERY
- FLOAT MODE CHARGES BATTERY
- AFTER END TIME
- SELL MODE SELLS BATTERY
- FLOAT MODE INVERTS

GENERATOR TIMER
- START RUN TIME H:M 08:00
- END RUN TIME H:M 00:00
- START QUIET TIME H:M 22:00
- END QUIET TIME H:M 07:00
- GEN RUNS DURING RUN TIME
- GEN RUNS DURING QUIET TIME IF
- BATT < MUST START VOLTS
- GEN RUNS DURING OTHER TIMES IF
- LOAD > AUTOSTART AMPS OR
- BATT < AUTOSTART VOLTS AND
- TIME > AUTOSTART DELAY
- TO OVERRIDE TIMERS SET START = END

GEN AUTO START SETUP
- SET AUTO START LOAD AMPS -20
- SET AUTO START BATT VOLTS 22.0
- SET AUTO START DELAY MIN 010
- SET MUST START BATT VOLT 21.0

GEN STARTING DETAILS
- SET GEN WARM UP SECONDS 010
- SET MAX CRANKING SECONDS 008
- SET MAX START ATTEMPTS 008
- RELAY 7 COIL RELAY 8 STARTER

SECONDARY RELAYS (R9, R10 AND R11)
- SET RELAY 9 VOLTS DC 20.0
- R9 HYSTERESIS TENTHS VDC 008
- SET RELAY 10 VOLTS DC 29.5
- R10 HYSTERESIS TENTHS VDC 008
- SET RELAY 11 VOLTS DC 30.0
- R11 HYSTERESIS TENTHS VDC 008
- CLOSE ON BATT > SETPOINT
- OPEN ON BATT < SETPOINT - HYS

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