






















## MC3000 SERIES INVERTER RE-INITIALIZATION PROCEDURE INV-1 AND INV-3 ASSEMBLIES

1. TURN THE CIRCUIT BREAKER FOR THE CHILLER/VFD TO THE 'ON' POSITION. TURN THE CHILLER SWITCH TO THE OFF POSITION TO KEEP IT FROM STARTING. FOR HYDROMATIC APPLICATIONS, TURN THE POWER OFF AT THE CONTROL PANEL.
2. THE DISPLAY WILL SHOW STOP 60.00HZ. TO ENTER THE PROGRAM MODE, PRESS THE PROG/RUN KEY. IF THE PASSWORD PROTECTION IS ENABLED, THE PASSWORD RPOMPT WILL APPEAR WHEN AN ATTEMPT TO ENTER THE PROGRAM MODE IS MADE. TO CHANGE THE PASSWORD, USE THE UP OR DOWN ARROW KEYS TO SCROLL TO THE PASSWORD VALUE AND THE PRESS THE ENTER KEY.

NOTE: DEFAULT PASSWORD IS 0019 or 0033



























3. ONCE THE CORRECT PASSWORD IS ENTERED, THE PROGRAM MODE WILL BE ENTERED AND THE DISPLAY WILL READ LINE VOLTS AUTO
4. PROCEED AS FOLLOWS:

- |   |   |
|---|---|
|    | PRESS ONCE. DISPLAY WILL READ - SPEED DIAL -            |
|    | HOLD/PRESS UNTILS DISPLAY READS 65 PROGRAM              |
|    | PRESS 2 TIMES. DISPLAY WILL READ PROGRAM MAINTAIN       |
|   | PRESS ONCE. DISPLAY WILL READ PROGRAM RESET 60          |
|  | PRESS ONCE. DISPLAY WILL AGAIN READ PROGRAM RESET 60    |
|  | PRESS 2 TIMES. DISPLAY WILL STILL READ PROGRAM MAINTAIN |
|  | PRESS ONCE. DISPLAY WILL READ - SPEED DIAL -            |
|  | PRESS UNTIL DISPLAY READS #8 ACCEL                      |
|  | PRESS 2 TIMES. DISPLAY WILL READ ACCEL 30.0 SEC         |
|  | HOLD/PRESS UNTIL DISPLAY READS ACCEL 5.0 SEC            |
|  | PRESS ONCE  |
|  | PRESS ONCE. DISPLAY WILL READ #8 ACCEL                  |
|  | PRESS ONCE. DISPLAY WILL READ #9 DECEL                  |
|  | PRESS 2 TIMES. DISPLAY WILL READ DECEL 30.0 SEC         |
|  | HOLD/PRESS UNTIL DISPLAY READS DECEL 5.0 SEC            |
|  | PRESS ONCE  |
|  | PRESS ONCE. DISPLAY WILL READ #9 DECEL                  |
|  | PRESS ONCE. DISPLAY WILL READ #10 MIN FRQ               |
|  | PRESS 2 TIMES. DISPLAY WILL READ MIN FRQ .50HZ          |
|  | HOLD/PRESS UNTIL DISPLAY READS MIN FRQ 45.0HZ           |
|  | PRESS ONCE  |

(CONTINUED ABOVE RIGHT)

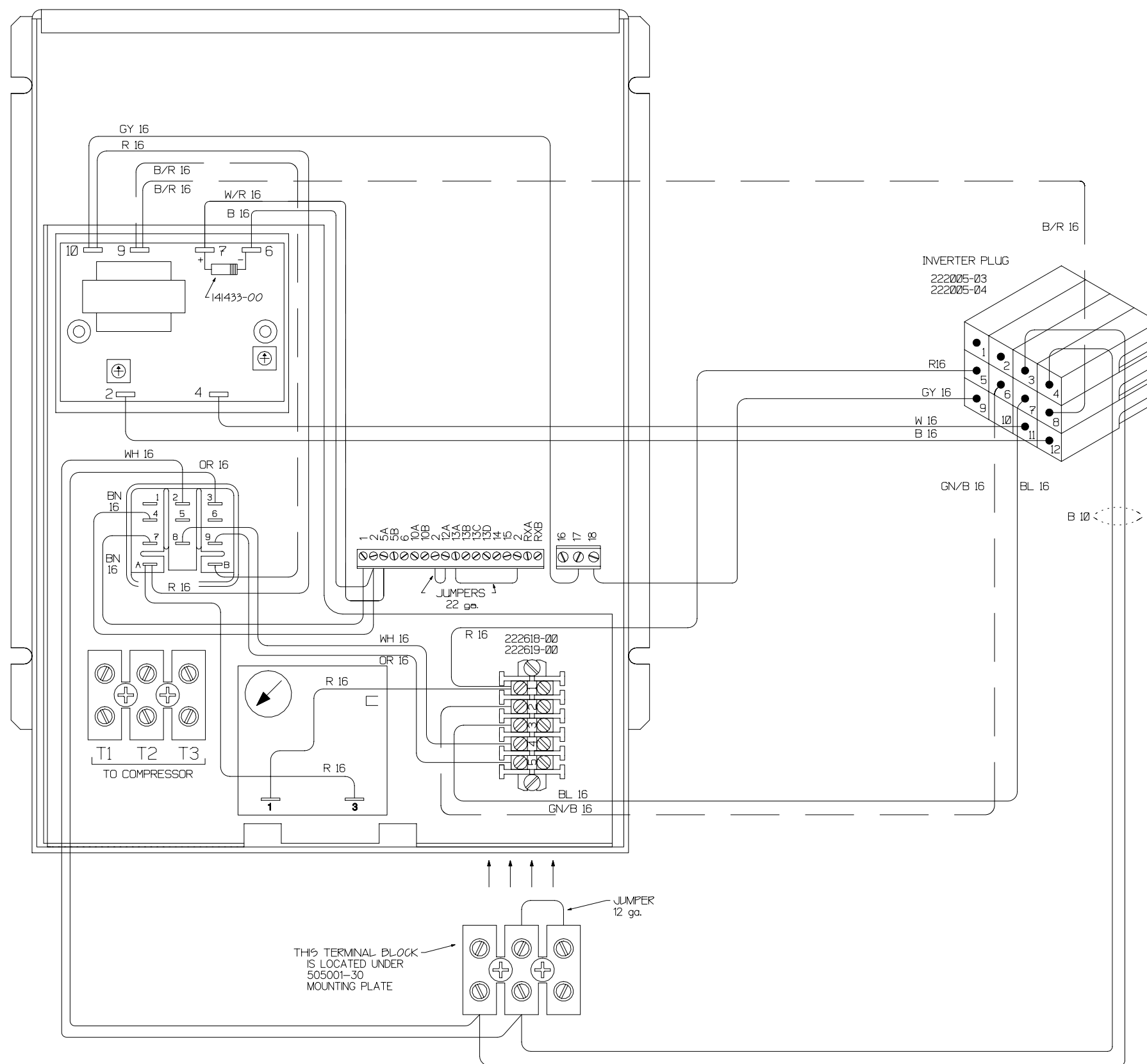
4009-20

(CONT.)

-  PRESS ONCE. DISPLAY WILL READ #10 MIN FRQ
-  PRESS UNTIL DISPLAY READS #25 START
-  PRESS 2 TIMES. DISPLAY WILL READ START NORMAL
-  PRESS 2 TIMES. DISPLAY WILL READ START AUTO 1
-  PRESS ONCE
-  PRESS ONCE. DISPLAY WILL READ #25 START
-  PRESS 3 TIMES. DISPLAY WILL READ #30 CONTROL
-  PRESS 2 TIMES. DISPLAY WILL READ CONTROL LOCAL
-  PRESS ONCE. DISPLAY WILL READ CONTROL REMOTE
-  PRESS ONCE
-  PRESS ONCE. DISPLAY WILL READ #30 CONTROL
-  PRESS UNTIL DISPLAY READS #40 TB5 MAX
-  PRESS 2 TIMES. DISPLAY WILL READ TB5 MAX 60.00 HZ
-  HOLD/PRESS UNTIL DISPLAY READS TB5 MAX 120.00 HZ
-  PRESS ONCE
-  PRESS ONCE. DISPLAY WILL READ #40 TB5 MAX
-  PRESS UNTIL DISPLAY READS #47 TB13A
-  PRESS 2 TIMES. DISPLAY WILL READ TB13A NONE
-  PRESS ONCE. DISPLAY WILL READ TB13A 0-10VDC
-  PRESS ONCE
-  PRESS ONCE. DISPLAY WILL READ #47 TB13A
-  PRESS UNTIL DISPLAY READS #54 RELAY
-  PRESS 2 TIMES. DISPLAY WILL READ RELAY NONE
-  PRESS UNTIL THE DISPLAY READS RELAY /FAULT
-  PRESS ONCE.
-  PRESS ONCE. DISPLAY WILL READ STOP 45.0HZ

5. THE CHILLER UNIT CAN NOW BE TURNED ON AT THE REMOTE PANEL. AFTER GOING THROUGH THE CHILLER UNIT TIME DELAY, THE CHILLER SHOULD START AND RAMP UP IN SPEED OVER A 5 SECOND PERIOD UNTIL IT REACHES 60.0 HZ.

VARIABLE FREQUENCY DRIVE  
MC3000 SERIES – P/N 211503-10



INV-1 ASSEMBLY  
USER SETTINGS  
(MC3000 SERIES INVERTER)

PARAMETER NUMBER	PARAMETER NAME	USER SETTING
8	ACCEL	5.0 SEC
9	DECEL	5.0 SEC
10	MIN FRQ	45 Hz
25	START	AUTO 1
30	CONTROL	REMOTE
40	TB5 MAX	120 HZ
47	TB13A	0-10V
54	RELAY	/FAULT

NOTE: AFTER REPLACING INV-1 INVERTER ASSEMBLY ON CHILLERS USING SCROLL COMPRESSORS, ALWAYS CHECK COMPRESSOR ROTATION IMMEDIATELY AFTER INITIAL START-UP. TO REVERSE ROTATION, SWAP ANY TWO OF THE THREE COMPRESSOR LEADS AT THE OUTPUT SIDE OF INVERTER.

**AQUA-AIR** MARINE AIR CONDITIONING SYSTEMS

INV-1 INVERTER ASSEMBLY INTERNAL WIRING  
MC3000 SERIES INVERTER - 230/1/60 INPUT

DRAWING NUMBER	4009-20C	DRAWN BY	CP	DATE	06-07-99
SCALE	NONE	APPROVED BY		REVISION DATE	
					REV A