H41 POWER SYSTEMS OPERATION PROCEDURES

POWER SOURCE:	TO OPERATE:
D.C. MAIN	**STD. BATTERY CHARGER MODEL**: TURN BATTERY SWITCH (LOCATED UNDER CHART TABLE) TO THE "ON" POSITION, THEN TURN ON "D.C. MAIN" BREAKER. ON D.C. SIDE OF MAIN DISTRIBUTION PANEL. **IF NO POWER:** CHECK 50amp RESET ON "HOUSE" BATTERY SWITCH PANEL AND/OR BATTERY CONNECTIONS IF NECESSARY.
D.C. MAIN	**OPTIONAL INVERTER MODEL**: TURN ON "D.C. MAIN" BRKR. ON D.C. SIDE OF MAIN DISTRIBUTION PANEL. IT IS **NOT** NECESSARY TO TURN ON THE HOUSE BATTERY ON/OFF SW. TO THE "ON" POSITION, **THIS PORTION OF THE HOUSE BATTERY ON/OFF SW. IS FOR THE CHARGING/INVERTING SYSTEM (AND ISOLATION OF) ONLY**. IT **IS** NECES. HOWEVER TO TURN ON EITHER THE HOUSE BATTERY BREAKER LOCATED ON THE BOTTOM OF THE HSE. BATTERY ON/OFF SW. PANEL TO PROVIDE POWER TO D.C. PANEL FROM THE HOUSE BATT. (#1=HOUSE BATTERY #1) **IF NO POWER: CHECK 300 amp IN LINE FUSE AT HOUSE BATTERY IN HOUSE BATTERY COMPARTMENT, AND/OR BATTERY CONNECTIONS IF NECESSARY.**
SHORE POWER "A"	1. CONNECT SHORE POWER CABLE #1, TO SUPPLY POWER TO "A" SIDE OF A.C. POWER MAIN DISTRIBUTION PANEL 2. TURN ON MAIN BREAKER ON SHORE POWER "A" SIDE OF PANEL 3. "A" SIDE OF A.C. POWER MAIN DISTRIBUTION PANEL SHOULD NOW BE OPERABLE (NOTE: APPROX. 15 SECOND DELAY ON OPT. INV. MODELS) **IF NO POWER TO "A" SIDE OF PANEL CHECK THE FOLLOWING:** **1. BREAKER AT DOCKSIDE POWER SUPPLY BOX** **2. BREAKER #1 IN STBD Q-BERTH HEADLINER**
SHORE POWER "B" **NOTE:**	1. CONNECT SHORE POWER CABLE #2, TO SUPPLY POWER TO "B" SIDE OF A.C. POWER MAIN DISTRIBUTION PANEL 2. TURN ON MAIN BREAKER ON SHORE POWER "B" SIDE OF PANEL 3. "B" SIDE OF A.C. POWER MAIN DISTRIBUTION PANEL SHOULD NOW BE OPERABLE **IF NO POWER TO "B" SIDE OF PANEL CHECK THE FOLLOWING:** **1. BREAKER AT DOCKSIDE POWER SUPPLY BOX** **2. BREAKER #2 IN STBD Q-BERTH HEADLINER NOTE: #2 SHORE POWER IS SUPPLIED WITH OPTIONAL AIR COND. EQUIPPED MODELS ONLY** THE OPT.AIR COND IS POWERED BY THE "SHORE POWER B" CABLE OR THE OPT. GENERATOR. **NOTE: IF ANY OTHER APPLIANCES ARE TO BE USED WITH AIR COND RUNNING WHEN ON SHORE POWER BOTH "SHORE POWER A" AND "SHORE POWER B" CABLES MUST BE HOOKED UP.**
OPTIONAL INVERTER **WHEN IN INVERT MODE** (CONVERTS 12V.D.C. TO 110V.A.C.) POWERS "A" SIDE OF A.C. PANEL ONLY WHEN INVERTING USED WHEN NO SHORE POWER OR GEN.POWER BEING USED.	1 TURN THE HOUSE BATTERY SELECTOR SWITCH UNDER CHART TABLE TO THE "ON" POSITION 2. TURN THE INVERTER REMOTE SW. (LOCATED AT NAV STATION) TO THE "ON" POSITION 3. TURN ON DESIRED BREAKER (EX. OUTLETS) ON "A" SIDE OF A.C. MAIN DISTRIBUTION PANEL NOTE: IT TAKES 10D.C. AMPS TO CREATE 1A.C. AMP, IF THE BATTERY VOLTAGE DROPS BELOW 10.5V. THE INVERTER WILL AUTOMATICALLY SHUT DOWN. (SEE "SEL. SW" & "METERS" ON PAGE 63A-7) **ALSO THE OUTPUT OF THE INVERTER IS NOT CAPABLE OF POWERING THE WATER HEATER OR AIR COND. SYSTEM**, THE WATER HEATER IS POWERED BY "SHORE POWER A" CABLE OR OPT. GENERATOR. **TO POWER D.C. SIDE OF PANEL AND "A" SIDE OF A.C. PANEL SIMULTANEOUSLY USING INVERTER:** 1. TURN ON D.C. MAIN BREAKER ON D.C. SIDE OF MAIN DISTRIBUTION PANEL 2. TURN THE SELECTOR SWITCH TO THE "ON" POSITION 3. TURN INVERTER REMOTE SWITCH TO THE "ON" POSITION THIS PROCEDURE ALLOWS INVERTER TO SUPPLY 110V.A.C. POWER TO "A" SIDE OF A.C. PANEL BY DRAWING POWER FROM HOUSE BATTERY (THIS APPLIES WHEN THERE IS NO SHORE OR GENERATOR POWER BEING SUPPLIED TO PANEL)
BUILT IN INVERTER-TRANSFER SWITCH.	THE INVERTER AUTO. TRANSFERS SHORE POWER TO THE A.C. PANEL WHEN "SHORE POWER A" CABLE CONNECTED AND DOCKSIDE POWER PRESENT AT A.C. PANEL BYPASSING THE INVERT MODE CAPABILITIES.
OPTIONALGENERATOR	1.TURN (START) BATTERY SW. (LOCATED UNDER CHART TABLE) TO THE "ON" POSITION 2. CHECK SEA STRAINER AND OPEN RAW WATER SEACOCK. SEE PAGE 60A-1 FOR LOCATION 3. START GENERATOR (FOLLOW STARTING INSTRUCTIONS PROVIDED IN THE "GENERATOR MANUAL") 3. RAISE SLIDE BAR ON "A" SIDE OF A.C. PANEL AND TURN GENERATOR BREAKER TO THE "ON" POSITION 4. TO POWER "B" SIDE OF A.C. PANEL (TO USE AIR COND'S) RAISE SLIDE BAR ON "B" SIDE OF A.C. PANEL AND TURN PARALLEL BREAKER TO THE "ON " POSITION 5. **ON OPT. INVERTER MODEL**: TURN THE INVERTER REMOTE SWITCH TO THE "OFF" POSITION, AND THE HSE. BATTERY ON/OFF SWITCH TO THE "ON" POSITION.
STD. BATT. CHARGER	1. CONNECT SHORE POWER CABLE #1 TO POWER "A" SIDE OF A.C. POWER MAIN DISTRIBUTION PANEL AND TURN ON "SHORE POWER A" MAIN BREAKER 2. TURN "BATTERY CHARGER" BREAKER (LOCATED ON "A" SIDE OF A.C. PANEL) TO THE "ON" POSITION NOTE: **IT IS NOT NECESSARY** TO TURN ON THE "HOUSE" OR THE "START" BATTERY SWITCHES TO PROVIDE CHARGING POWER TO THE HOUSE & START BATTERIES.
ENGINE ALTERNATOR	1. TURN (START) BATTERY SELECTOR SWITCH TO THE "ON" POSITION 2. CHECK SEA STRAINER & OPEN RAW WATER SEACOCK. SEE PAGES 60A-1,A-2 FOR LOCATION 3. START SHIP'S ENGINE (FOLLOW STARTING INSTRUCTIONS IN THE "ENGINE MANUAL") 4. TURN (HOUSE) BATTERY SWITCH TO THE "ON" POSITION
OPTIONAL INVERTER INVERTER HAS A BUILT IN AUTO. CHARGING SYSTEM	1. CONNECT SHORE POWER CABLE #1 TO POWER "A" SIDE OF A.C. POWER MAIN DISTRIBUTION PANEL AND TURN ON "SHORE POWER A" MAIN BREAKER 2. TURN INVERTER REMOTE SWITCH TO THE "**OFF**" POSITION 3. TURN HOUSE BATTERY ON/OFF SWITCH TO THE "ON" POSITION NOTE: **IT IS NOT NECESSARY** TO TURN ON THE "START" BATTERY SWITCH TO PROVIDE CHARGING POWER TO THE START BATTERY. NOTES: **WHEN LEAVING BOAT UNATTENDED, BE SURE INVERTER REMOTE SWITCH IS IN THE "OFF" POSITION,** THIS WAY IF SHORE POWER IS LOST FOR ANY REASON, THIS WILL PREVENT THE INVERTER FROM CONVERTING 12V.D.C. TO A.C. VOLTAGE CAUSING HOUSE BATTERY TO BE DRAINED. WHEN THE INVERTER REMOTE SWITCH IS IN THE "OFF" POSITION THE INVERTER AUTOMATICALLY GOES INTO CHARGE MODE INVERTER CHARGE MODE WORKS ONLY WHEN THERE IS POWER TO THE "A" SIDE OF THE A.C. PANEL