

TROUBLESHOOTING ALL HIGH FREQUENCY CHARGERS

PROBLEM

A
NO RED OR GREEN LIGHT, AMMETER READS 0

CHECK A.C. IN AT THE UNIT

↓ NO A.C.

A.C. OKAY

CHECK INTERNAL A.C. FUSE

→ FUSE OKAY

CONTACT
PROFESSIONAL MARINER
PHONE: (805) 644-1886
FAX: (805) 644-1895

CHECK A.C. WIRING TO THE CHARGER

PROBLEM

B
LIGHT IS ON, BATTERIES ARE NOT CHARGING, AMMETER READS 0

READ D.C. VOLTAGE

↓ ABOVE 13V

BELOW 13V

TURN OFF A.C. INTO CHARGER. DISCONNECT D.C. NEG. WAIT 3 MINUTES, REACTIVATE THE A.C. AND TAKE A VOLTAGE READING FROM EACH POSITIVE POST TO THE NEGATIVE POST. SHOULD READ 14.6 - 14.8 LEAD/ACID (FLOODED BATTERIES), 14.1 - 14.2 GEL CELL BATTERIES)

IF NO OPEN VOLTAGE

CHECK D.C. FUSE

→ IF FUSE OKAY

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IF UNIT HAS CORRECT VOLTAGE UNIT OKAY

CHECK ALL D.C. CONNECTIONS FROM UNIT TO BATTERY AND RECONNECT D.C.

UNIT IS OKAY
SEE PROBLEM E

PROBLEM

C
LIGHT IS ON, AMMETER REGISTERS CURRENT, BATTERIES ARE NOT CHARGED

CHECK ALL D.C. VOLTAGE AT THE CHARGER AND AT THE BATTERY

IF MORE THAN 3% VOLTAGE DROP

CHECK FOR BAD D.C. CONNECTIONS FROM CHARGER TO BATTERY

IF CONNECTIONS ARE OKAY

WIRING IS TOO SMALL
CONSULT
3% WIRE CHART

IF LESS THAN 3% VOLTAGE DROP

BATTERIES MAY NEED MORE TIME TO RECHARGE. SUBTRACT CONTINUOUS D.C. LOAD FROM CHARGER OUTPUT RATING. THIS IS THE AMPERAGE AVAILABLE FOR RECHARGING. DIVIDE THIS NUMBER INTO AMP. HRS. NEEDED TO RECHARGE THE BATTERY. THIS WILL GIVE APPROXIMATE RECHARGE TIME (ADD 20% FOR INEFFICIENCY OF BATTERY CHARGING)

IF RECHARGE TIMES ARE TOO LONG

CONTACT
PROFESSIONAL MARINER
FOR CHARGER UPGRADE
PHONE: (805) 644-1886
FAX: (805) 644-1895

PROBLEM

D
LIGHT IS FLASHING, AMMETER IS BOUNCING

TURN OFF A.C. INTO CHARGER. DISCONNECT D.C. NEG. REACTIVATE THE A.C. AND TAKE A VOLTAGE READING FROM EACH POSITIVE POST TO THE NEGATIVE POST. SHOULD READ 14.6-14.8 LEAD/ACID (FLOODED BATTERIES), 14.1 GEL CELL BATTERIES)

CHARGER OKAY

CHECK D.C. VOLTAGE. IF UNDER 8V TURN OFF ALL D.C. LOAD ALLOW BATTERY TO RECHARGE

IF LOAD EXCEEDS CHARGER RATING

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FOR CHARGER UPGRADE
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IF LIGHT IS FLASHING

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PROBLEM

E
A LIGHT IS ON, BATTERIES CHARGED, AMMETER NEVER SHOWED CHARGER RATE

TURN ON D.C. LOAD TO CONFIRM AMMETER IS NOT OPERATING

IF AMMETER DOES NOT SHOW INCREASE WHEN LOAD IS APPLIED

CONTACT
PROFESSIONAL MARINER
PHONE: (805) 644-1886
FAX: (805) 644-1895
FOR A FIELD REPLACEABLE AMMETER