SCR TROUBLESHOOTING FLOW CHART

START

- Does charger turn on? — **No** → Does control run light self test? — **No** → Is AC power to outlet okay? — **No** → Is current draw too large for AC supply breaker? — **No** → Reset breaker or repair
  - **Yes** (Is current draw too large) → Increase AC supply capacity or reduce number of chargers on circuit
- Does charger turn on? — **Yes** → Does charger go to abnormal immediately? — **No** → Does charger finish charge cycle?
  - Does charger go to abnormal immediately? — **Yes** → Check connections to DC breaker and shunt → Does charger finish charge cycle?
  - Does charger finish charge cycle? — **Yes** → Charger is functioning properly
  - Does charger finish charge cycle? — **No** → Does AC breaker trip?

- Does control run light self test? — **Yes** → Are AC and DC connections okay? — **No** → Secure connections
  - Are AC and DC connections okay? — **Yes** → Is AC voltage across AC breaker okay? — **No** → Replace AC breaker with same value
  - Is AC voltage across AC breaker okay? — **Yes** → Is DC voltage across DC breaker okay? — **No** → Replace DC breaker
  - Is DC voltage across DC breaker okay? — **Yes** → Is wiring to control card okay? — **No** → Correct wiring
  - Is wiring to control card okay? — **Yes** → Replace Control

- Is AC power to outlet okay? — **Yes** → Is voltage selector in proper setting? — **No** → Correct setting
  - Is voltage selector in proper setting? — **Yes** → Are AC and DC connections okay? — **No** → Secure connections
  - Are AC and DC connections okay? — **Yes** → Is AC voltage across AC breaker okay? — **No** → Replace AC breaker with same value
  - Is AC voltage across AC breaker okay? — **Yes** → Is control voltage on 7, 8, 9 okay? — **No** → Is connection at main XFMR okay? — **No** → Repair connection
    - Is connection at main XFMR okay? — **Yes** → Replace transformer
  - Is control voltage on 7, 8, 9 okay? — **Yes** → Is DC voltage across DC breaker okay? — **No** → Replace DC breaker
  - Is DC voltage across DC breaker okay? — **Yes** → Is wiring to control card okay? — **No** → Correct wiring
  - Is wiring to control card okay? — **Yes** → Replace Control

- Does AC breaker trip? — **No** → Is abnormal light on?
  - Is abnormal light on? — **No** → Is current draw too large for AC supply breaker? — **No** → Contact Motor Appliance Factory Service 1-800-357-4566
    - Is current draw too large for AC supply breaker? — **Yes** → Increase AC supply capacity or reduce number of chargers on circuit
  - Is abnormal light on? — **Yes** → Is charger compatible with battery? — **No** → Change charger or batteries
    - Is charger compatible with battery? — **Yes** → Does battery have dead cells? — **No** → Contact Motor Appliance Factory Service 1-800-357-4566
      - Does battery have dead cells? — **Yes** → Replace Battery

- Does AC breaker trip? — **Yes** → Do charger volts match battery volts? — **No** → Change charger or batteries
  - Do charger volts match battery volts? — **Yes** → Are connections to AC breaker okay? — **No** → Secure connections
  - Are connections to AC breaker okay? — **Yes** → Is wiring to SCR's correct? — **No** → Correct wiring
  - Is wiring to SCR's correct? — **Yes** → Are SCR's okay? — **No** → Replace SCR's
  - Are SCR's okay? — **Yes** → Contact Motor Appliance Factory Service 1-800-357-4566

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