

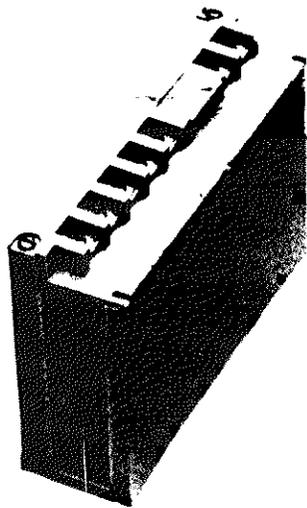
IC4484 DUAL MOTOR CONTROL

E-700 (24-84 VOLTS)

Before any adjustments, servicing, parts replacement or any other act is performed requiring physical contact with the electrical working components or wiring of this equipment, DISCONNECT THE BATTERY AND DISCHARGE CAPACITOR IC.

FUNCTION

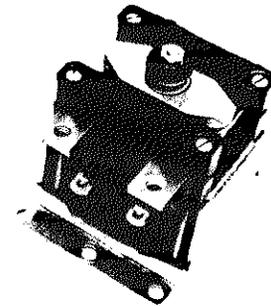
The function of the dual motor control, Fig. 1, is to connect the motor armatures of a dual motor system in parallel during a "plug" if both motors are being used. This prevents the fields from building flux in opposite directions and prohibits the motors from acting as series generators thereby causing uncontrollable torques. This function was designed for the EV-1 System.



DUAL MOTOR
CARD



4 REC (B) WITH HEATSINK



"D" CONTACTOR

Fig. 1. IC4484 E700 dual motor control

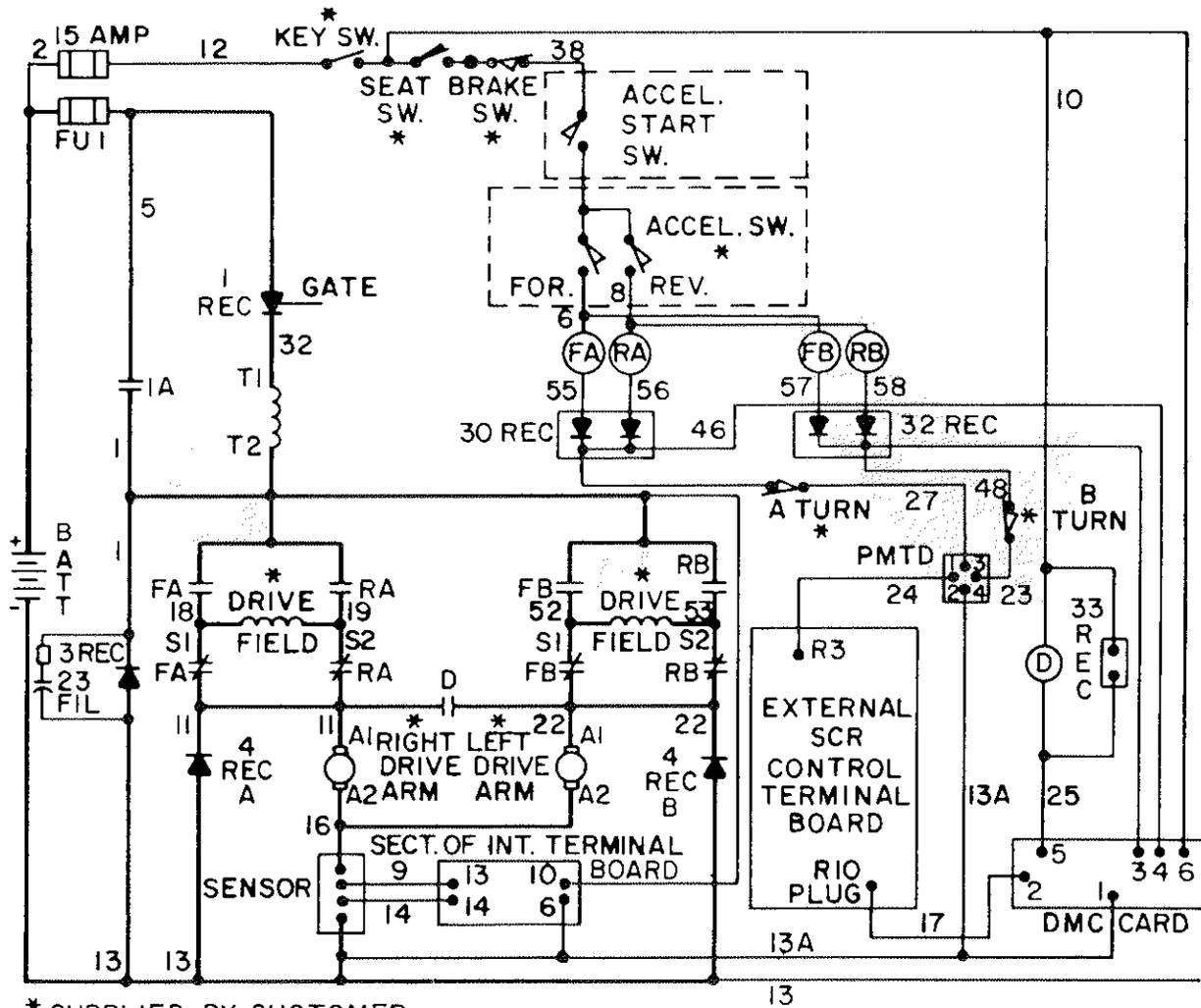
The information contained herein is intended to assist truck users and dealers in the servicing of SCR control furnished by the General Electric Company. It does not purport to cover all details or variations in equipment nor to provide for every possible contingency to be met in connection with installation, operation or maintenance.

Should further information be desired or should particular problems arise which are not covered sufficiently for the purchaser's purpose, the matter should be referred to the truck manufacturer through his normal service channels, not directly to General Electric Company.

OPERATION

The dual motor control card and "D" contactor are connected in the circuit as shown in Fig. 2. The card operates the "D" contactor after: (1) A positive signal is applied to the card; (2) the turn switches are both closed (i.e. wheels are straight, both motors are operating, and PMT driver is turned "ON" pulling terminals 3 and 4 of the dual motor card to common); and (3) the truck is "plugged." The "D" contactor remains open during normal operation or use of only one motor.

When the truck is "plugged" while using both motors, the opposite direction contactors are energized. When this occurs, the turn switches are checked for closure and a plug signal is sent to the dual motor card by the oscillator card. If turn switches are closed, the "D" contactor picks up and stays picked up until the plug signal is removed at the end of plug or a turn switch is opened during plugging.



* SUPPLIED BY CUSTOMER
 --- INSTALLED BY CUSTOMER

Fig. 2. Diagram showing connection circuit of dual motor control card and "D" contactor

GENERAL ELECTRIC COMPANY
 INDUSTRIAL CONTROL DEPARTMENT, U.S.A.

