Space Tracker Modifications

1- Open Globe , remove servo motors and associated wiring.

2- Cut red/black motor leads from connector leaving approx. 6" leads.

3- Cut both white clutch leads from connector leaving approx. 6" leads. These will be paralleled with motor leads later .

4- Remove the three wires for limit switches leaving 6" leads .These will be used in series with reversing relays .

5- Remove circuit board , drill out pop rivets , save aluminum angle for use to mount 3 X 5 relay/ pulser circuit board .

6- Glue approx. 2" piece of ¼ inch fuel line in holes in servo base , later the 10 turn potentiometer will be pushed into the fuel line to turn the pot .

7- Prepare bracket to mount the 10 turn pot and attach to base with self- taping screws . See potentiometer mounting diagram .

8- Mount four SPDT 12VDC relays on topmost portion of circuit board .

9- Assemble motor pulser circuit just below reversing relays . See circuit board and pulsed motor controller diagrams .

10- Wire relays . See relay wiring diagram . Voltage is 15VDC , switched voltage is pulsed 15VDC .

11- Each limit switch is grounded on one side the other to the negative side of the relay coil , then to positive 15VDC in the control box .

12- Construct Control Box using 2 each 15VDC meters ,2 each DPDT reversing switches , adjusting pots . See Control Box diagram .

13- Use 9 conductor cable at least 22 gauge connecting Control Box to rotator . Use a Molex somewhere in this line to ease installation .

14- Use 6 conductor cable to wire secondery servo to primary servo via Molex . It is installed after the primary and the Molex connector makes it easier .