SECTION IX
BALL TURRET

The hand control and limit unit controls the outputs of the azimuth and elevation hydraulic systems. A pair of handgrips controls the motion of the turret in azimuth and elevation. Each handgrip has a firing switch on the top end.

The switch box controls distribution of the electric power to the various units in the turret. The terminal block in the top left end of the box has convenient posts for connecting the leads of the gunner’s head set and microphone.

2. ENTERING THE TURRET.

CAUTION

Do not attempt to rotate the turret in elevation while the airplane is on the ground. No crew member shall be in the turret during landing or take-off and the guns of the turret shall be in the horizontal position pointing aft.

a. A Sperry ball-type power turret, equipped with twin .50-caliber machine guns, is installed in the bottom of the fuselage aft of the radio compartment.

b. A hydraulic unit provides power for driving the turret in azimuth and elevation.

KEY TO FIGURE 70

1. ELEVATION HANDCRANK
2. ELEVATION HANDGRIIP
3. FIREFIX SWITCHES
4. GUNNER REGULATOR
5. AZIMUTH HANDCRANK
6. SPOT LIGHT CLUTCH
7. ELECTRICAL SWITCH BOX
8. SPOT LIGHT CONTROLLER SWITCH
9. ORR SELECTOR SWITCHES
10. ELEVATION POWER CLUTCH

Figure 70 - Interior of Ball Turret

Figure 73 - Loading Ball Turret Ammunition Boxes