2-1. INTRODUCTION

This section describes the procedures necessary to properly install, connect all cabling and ready the system for operation.

2-2. UNPACKING

Upon delivery check all items received against the enclosed packing slip. Examine equipment for possible damage immediately upon receipt, since claims for damage in transit will not be honored by the carrier unless prompt action is taken.

2-3. CAMERA HEAD MOUNTING

The bottom of the Camera Head contains a row of threaded holes (six 3/8-16 and two 1/4-20) for mounting the Camera Head onto a tripod. The pan bar is also secured to the tripod.

2-4. VSA UNIT AND VIEWFINDER INSTALLATION

1. Place the shield plate on the bottom of the Viewfinder and secure the top cover of the VSA Unit to the bottom of the Viewfinder with four screws provided.

2. Set the VSA Unit into the top cover and secure in place with four screws provided.

3. Secure the bottom cover of the VSA Unit in place with two screws provided and attach mounting brackets to Viewfinder.

4. Attach the combined Viewfinder and VSA Unit to the rear of the Camera Head by securing the mounting bracket to the Camera Head with four allen bolts provided.

2-5. LENS INSTALLATION

1. Secure the lens in place with three allen screws provided (see Figure 2-3).

2. Mount the zoom crank and focus drive handle to the pan bar.

3. Connect the zoom and focus drive cables to the underside of the lens assembly. The zoom-drive connection is located on the right side and the focus-drive connection is located on the left side of the lens (as viewed from the rear of the camera).

PRECAUTION

To prevent burn damage to the vidicon target, never aim the camera at the sun or other intense light sources. Always keep the lens capped when not in use.

2-6. CABLE INTERCONNECTION

Connect system cables as shown in Figure 2-1. Refer to Figures 2-2, 2-3, and 2-4 for location of connectors and receptacles.

2-7. DEFLECTION YOKE REMOVAL (see Figures 2-5 and 2-6)

1. Level and secure the Camera Head and remove the Viewfinder and VSA Unit.

2. Remove the two screws in each side cover and remove both covers.

3. Loosen captive bolts near top of Cemera Head and swing back Camera Head top cover.

4. Remove two screws from the hinged PW boards on both sides of the Camera Head and swing boards open.

5. Remove shield plates from both sides of RGB assembly by unscrewing three ornamental nuts on each.

6. Disconnect the following electrical connections from the three deflection yokes.

   a. Yoke connector
   b. Tube socket
   c. Preamplifier connections; blue and black wires on terminals 1 and 2, respectively, of Preamp Board.
   d. Ground wire from tube socket
   e. Ground wire from yoke assembly.

NOTE

Sequence for removing yoke assemblies is blue (top), green (center), and red (bottom). Mount yokes in reverse order.

7. Remove the BLUE YOKE (top) assembly as follows:

   a. Loosen Lock knob and open locking mechanism.
   b. Lift yoke rotation bar.
   c. Slide yoke out of RGB assembly.

8. Remove the GREEN YOKE (center) assembly as follows:

   a. Remove the two allen bolts from the RGB assembly.
   b. Slide the yoke assembly with its holder out of RGB assembly.

2-7. DEFLECTION YOKE REMOVAL (Continued)

9. Remove the RED YOKE (bottom) assembly as follows:

   a. Remove the four allen bolts from the front of the Camera Head; see Figure 2-3.
   b. Loosen screws on RGB assembly locking tabs (inside camera front).
   c. Rotate RGB assembly approximately 45° with red yoke in direction of video board.
   d. Loosen Lock knob and open locking mechanism.
   e. Lift yoke rotation bar.
   f. Slide yoke out of RGB assembly.

2-8. PICK-UP TUBE REPLACEMENT (see Figure 2-7)

1. Loosen cover locking screw on yoke assembly.

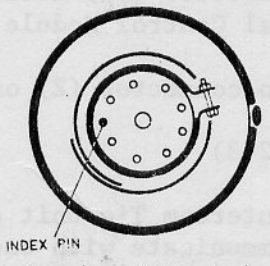
2. Slide front cover forward and remove.

3. Remove the two brass screws and remove filter disc.

4. Loosen tube clamp at rear of yoke assembly.

5. If a tube is present, pull forward to remove.

6. Insert new tube through front of yoke assembly. Slide tube back as far as possible and position it as shown in Sketch A.



SKETCH A. TUBE POSITION

NOTE

Check that Mu-metal shield on tube is back far enough that it does not touch the alignment ring magnets.

7. If vidicon tubes are being installed, replace filter disc and secure with two brass screws. (A clear filter disc is used with Green Tube, and infrared filter discs are used with the Blue and Red tubes.)

8. If Plumbicon tubes are being installed, the filter discs are not used.

2-8. PICK-UP TUBE REPLACEMENT (Continued)

9. Replace front cover on yoke assembly and secure in place with front locking screw.

10. Tighten tube clamp until tube is snug. Do not overtighten clamp since glass shell is fragile.

11. Install the yoke assemblies in the RGB assembly in the reverse order of removal.

12. Connect all electrical connections that were removed in paragraph 2-7.

13. Replace the shield plates on both sides of the RGB assembly and secure with lockwashers and ornamental nuts.

2-9. SELECTING LOCAL CONTROL OPERATION

1. Remove Local Control Module from Camera Head.

2. Connect plug (F) to connector on rear of Local Control Module and replace module in Camera Head.

2-10. SELECTING REMOTE CONTROL OPERATION

1. Remove Local Control Module from Camera Head.

2. Connect plug (F) to connector (F2) located in Local Control Module cavity and replace Local Control Module in Camera Head.

3. Connect camera cable to connector (Z) on left side of Camera Head.

2-11. INTERCOM TIE UNIT (Figure 2-8)

Application of the LDH-1 Intercom Tie Unit enables up to six LDH-1/00S Color Camera Systems to communicate with each other on a 4-wire line. This unit may be employed with the following Remote Control Modules with no additional modifications.

Remote Control Unit	Modification Note
8902 0602 (SN 239 - up)	None Required
8902 0603/8902 1931 [All]	None Required
All Others	See Instruction Supplement P/N 4900 0751

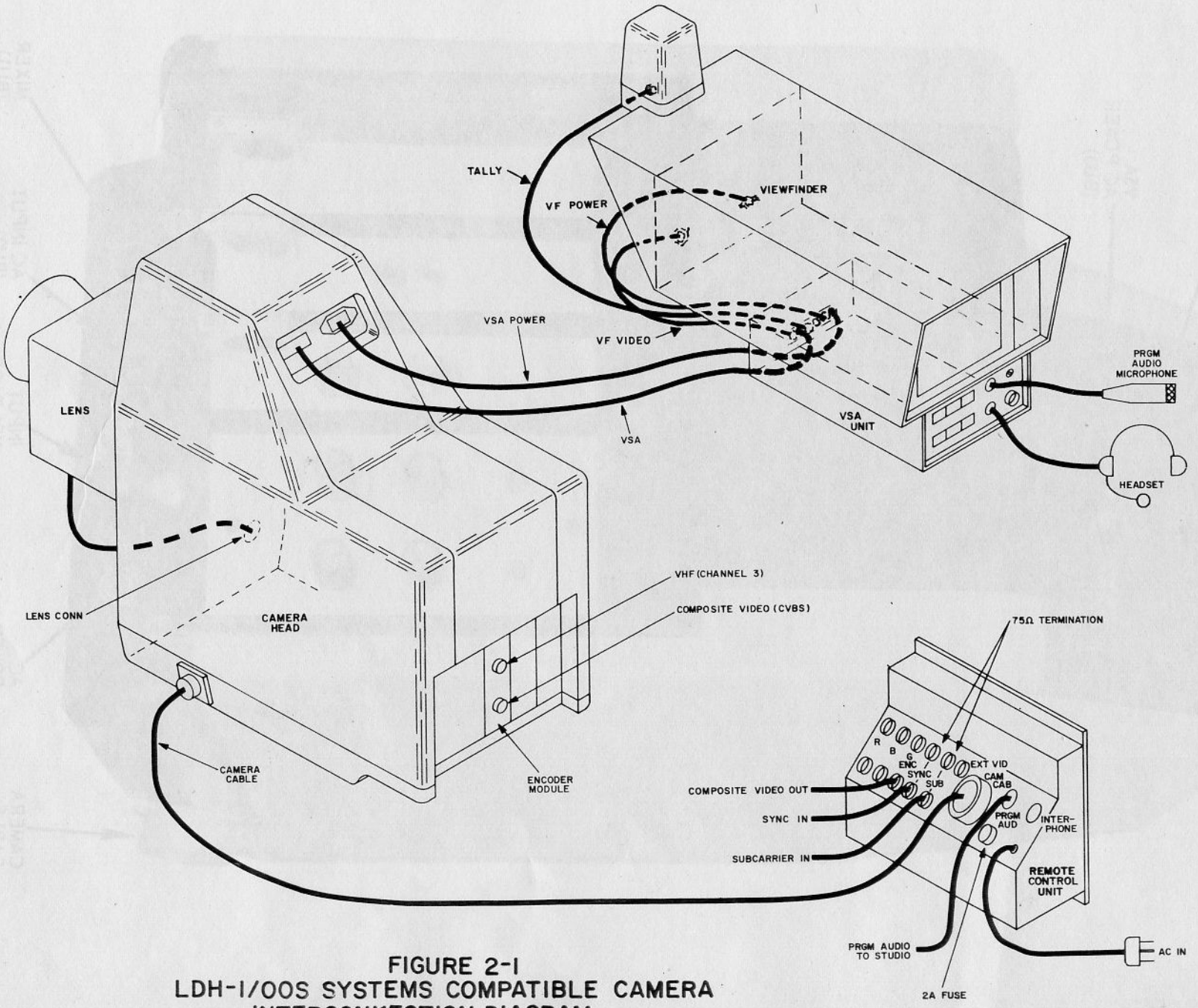


FIGURE 2-1
LDH-1/00S SYSTEMS COMPATIBLE CAMERA
INTERCONNECTION DIAGRAM

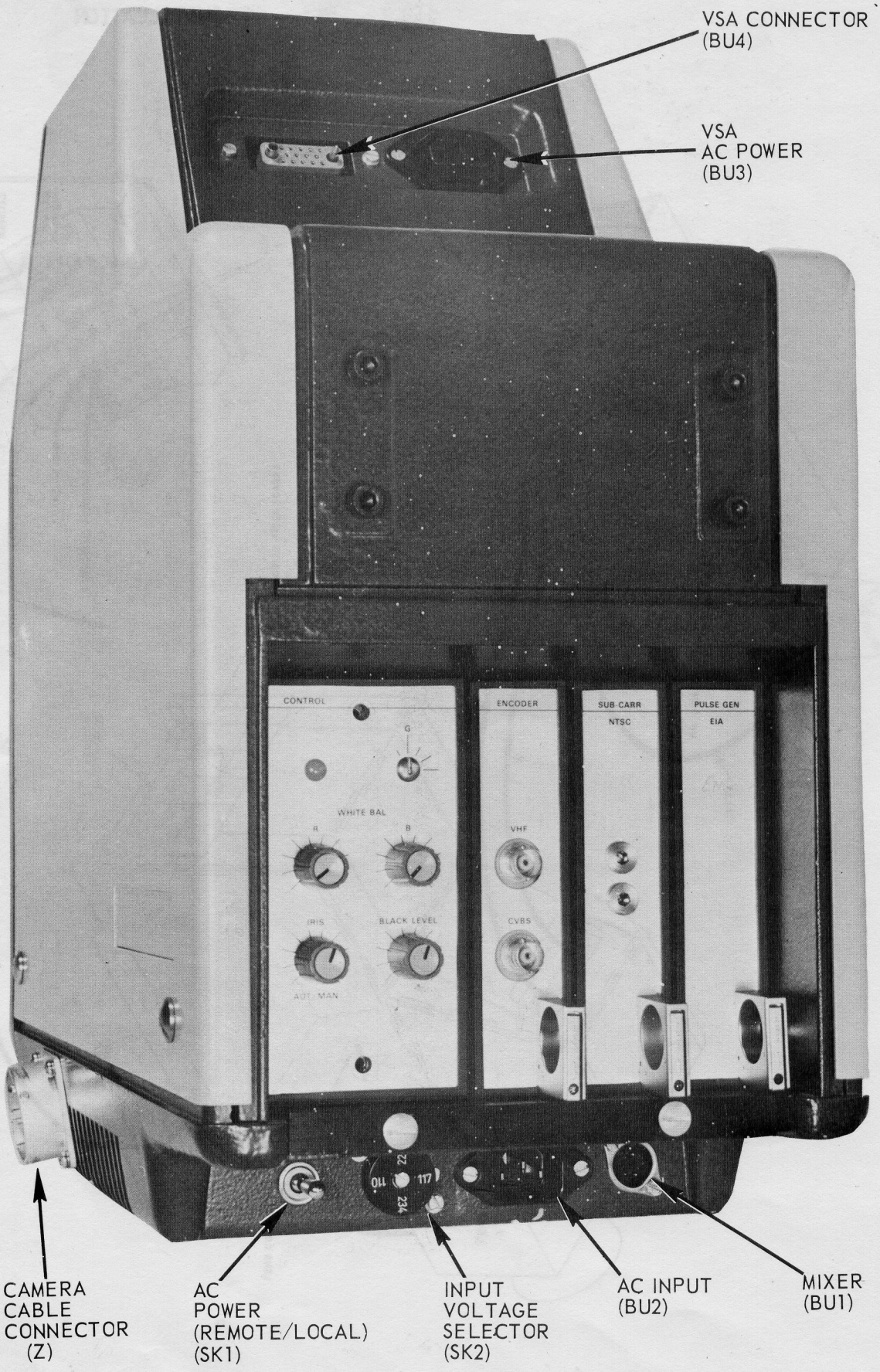


FIGURE 2-2. LDH-1/00S CAMERA HEAD (REAR VIEW)

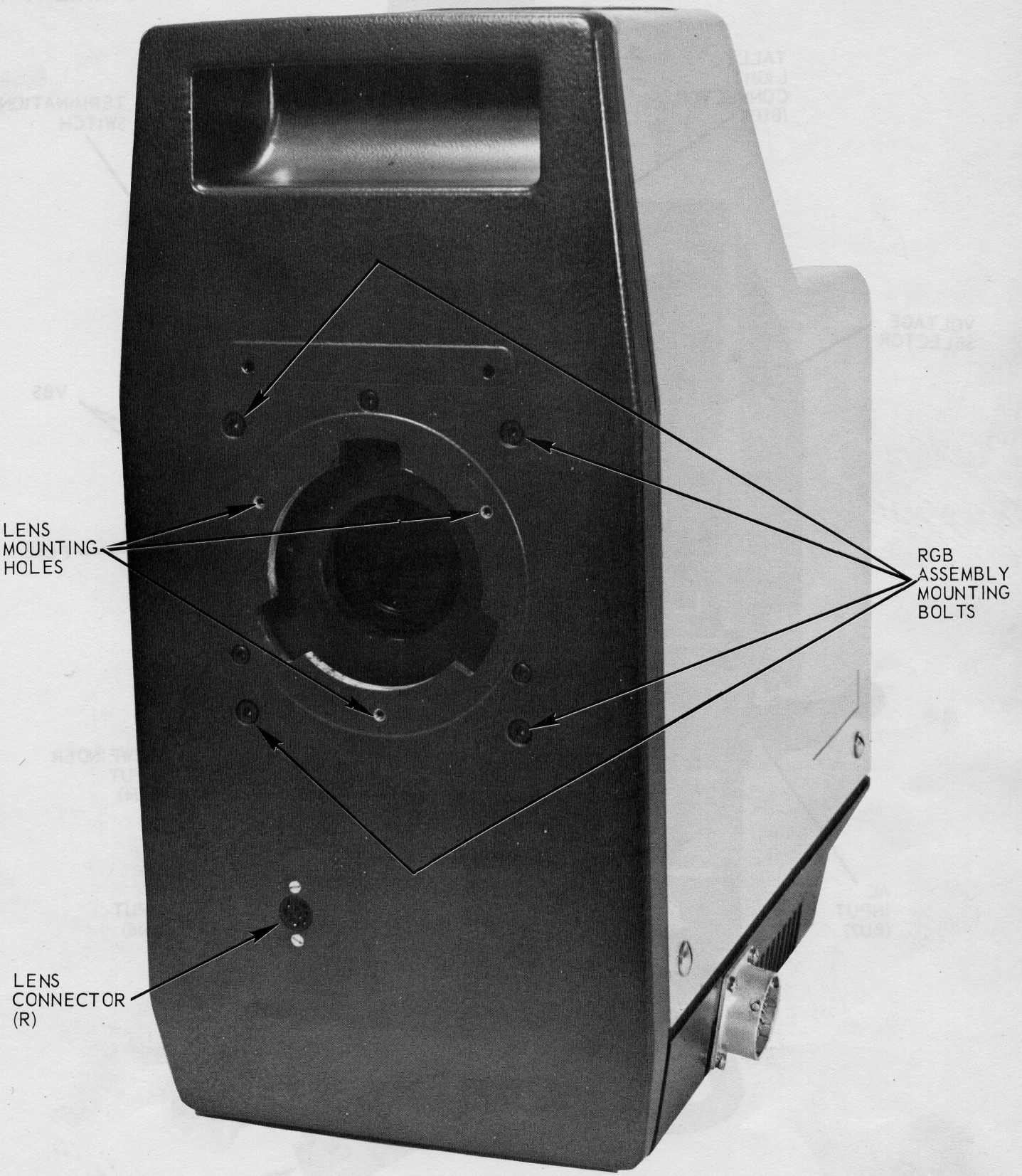


FIGURE 2-3. LDH-1/00S CAMERA HEAD (FRONT VIEW)

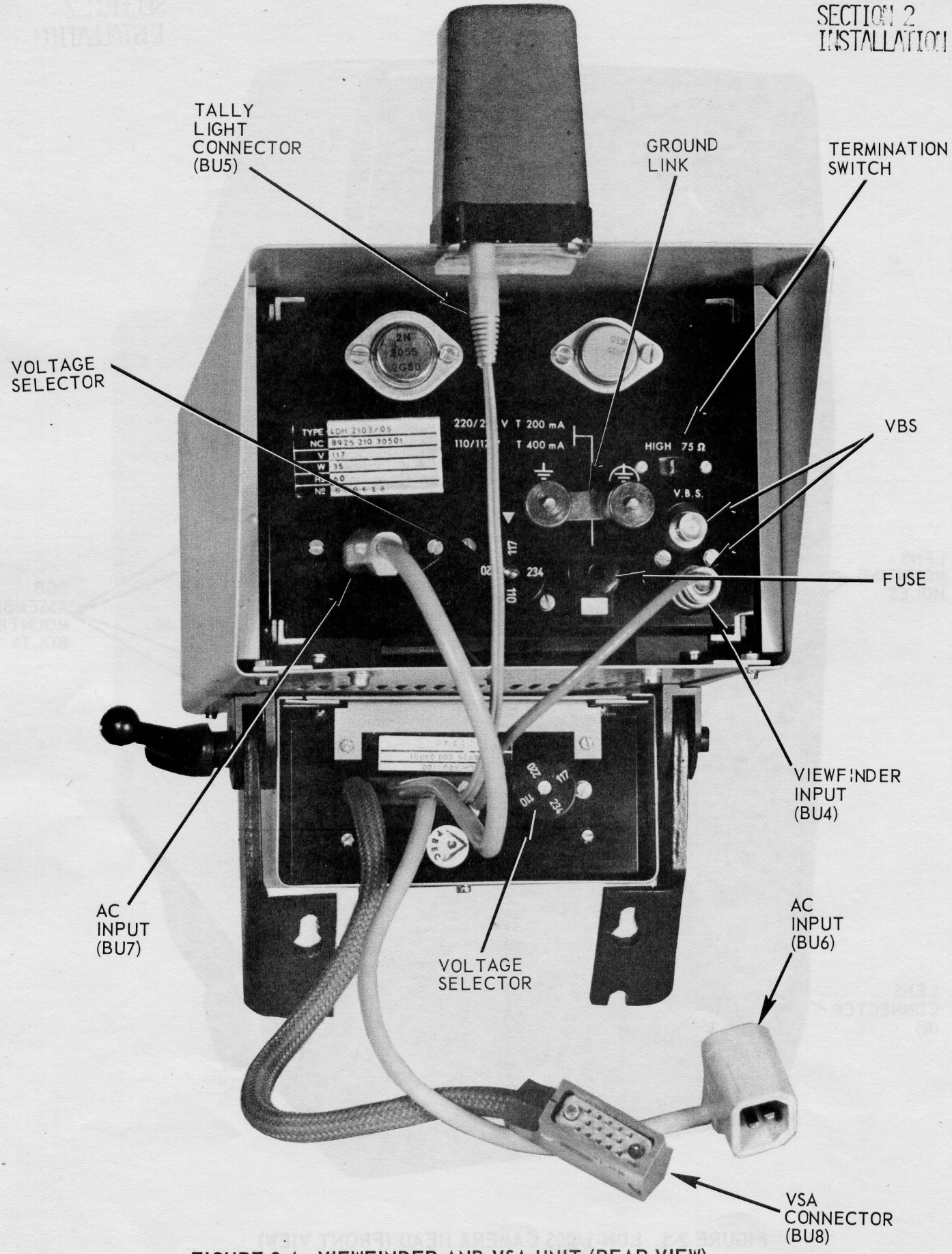


FIGURE 2-4. VIEWFINDER AND VSA UNIT (REAR VIEW)

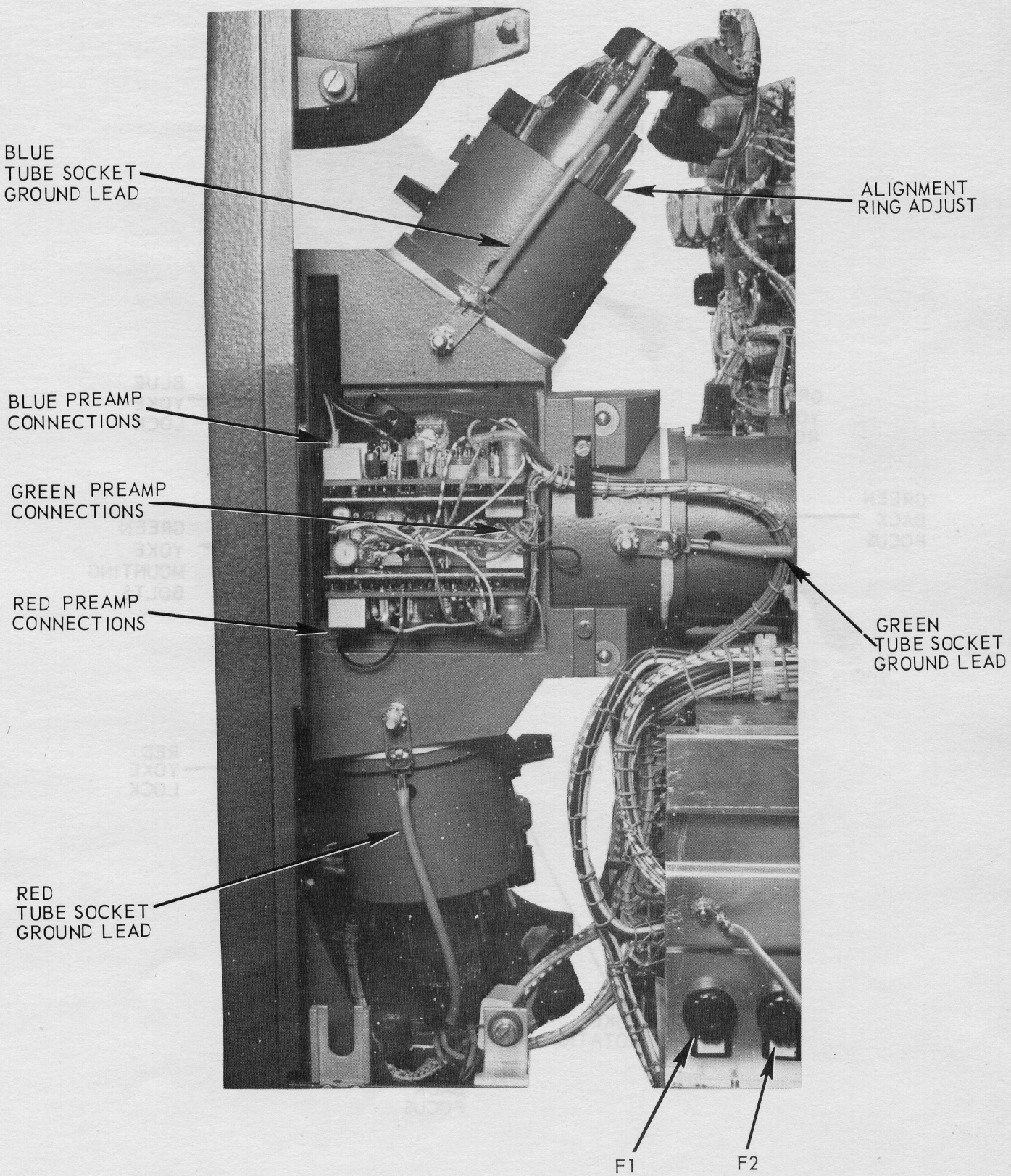


FIGURE 2-5. RGB ASSEMBLY (LEFT SIDE)

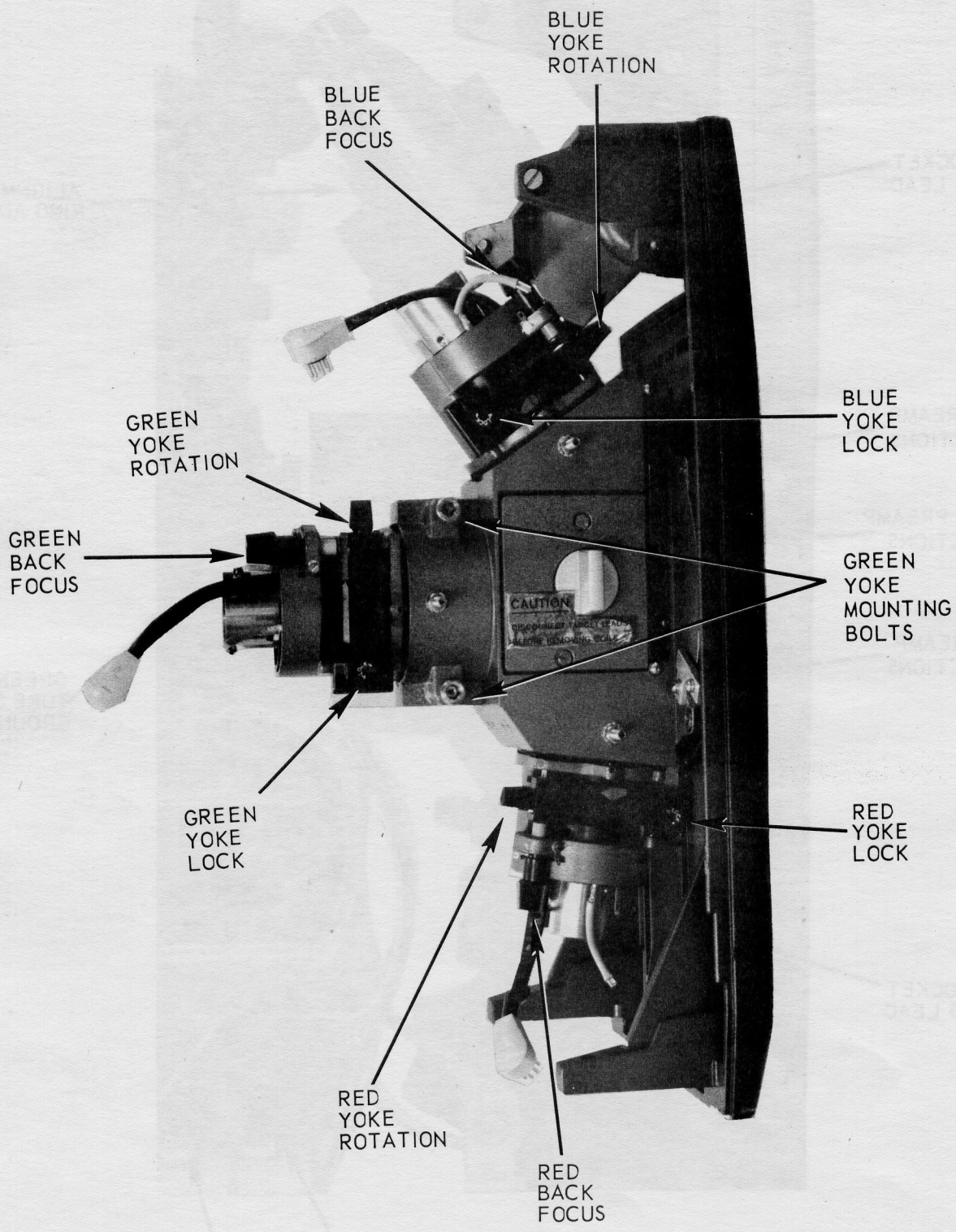


FIGURE 2-6. RGB ASSEMBLY (RIGHT SIDE)