

7

SKYLAB
EXPERIMENT BRIEFING

S190 (A&B)
MULTISPECTRAL PHOTOGRAPHIC CAMERAS

Instructor
P. Taylor

SKYLAB CREW PREFLIGHT TRAINING

FOR TRAINING PURPOSES ONLY

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DENVER DIVISION

S190 MULTISPECTRAL PHOTOGRAPHIC FACILITY OBJECTIVES

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S190A

MULTISPECTRAL PHOTOGRAPHIC CAMERAS

- PROVIDE PHOTOGRAPHIC FACILITY TO ALLOW STUDIES OF THE VALUE OF MULTISPECTRAL PHOTOGRAPHY USING VARIOUS FILM/FILTER COMBINATIONS

S190B

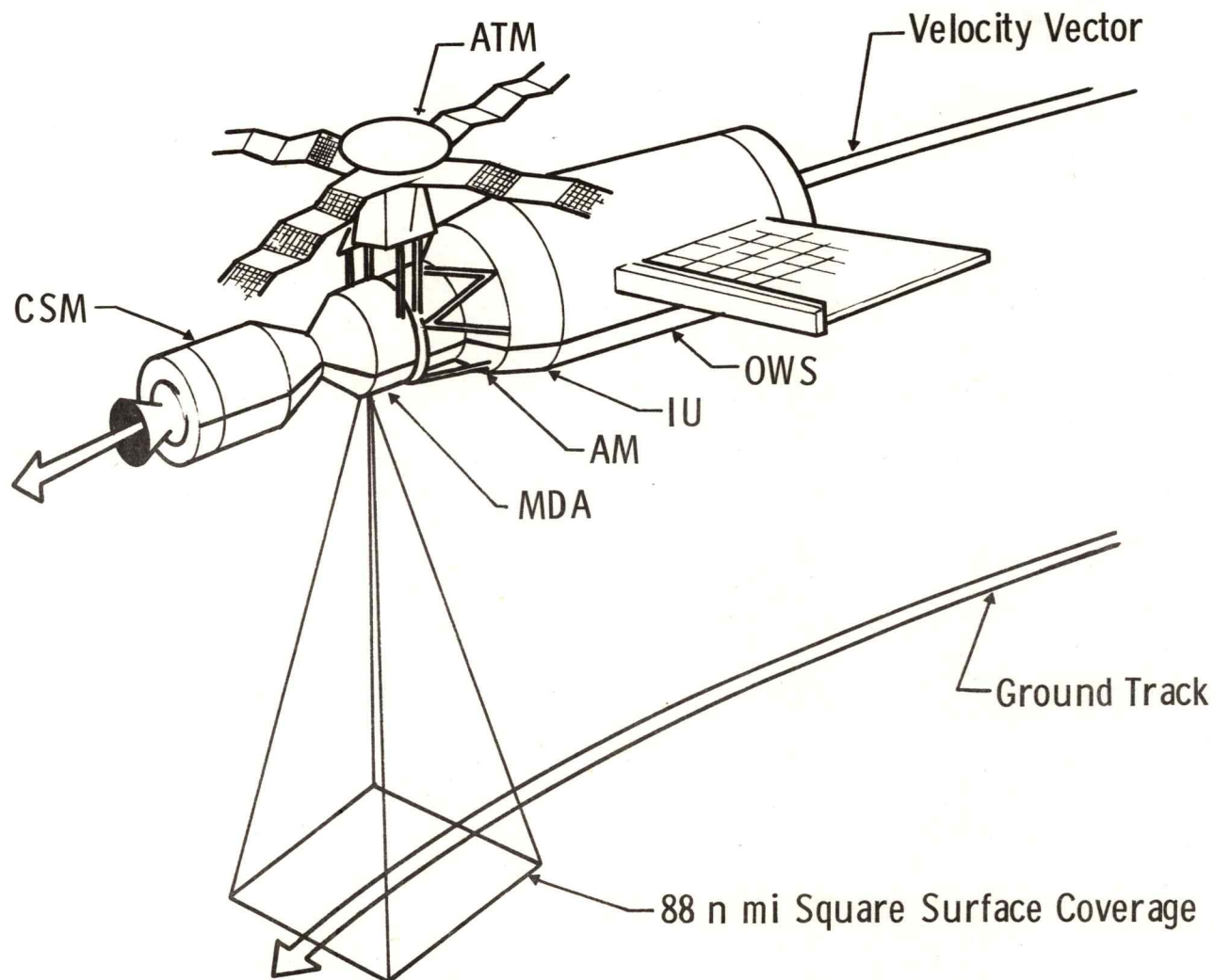
EARTH TERRAIN CAMERA

- OBTAIN HIGH-RESOLUTION PHOTOGRAPHIC DATA OF SMALL AREAS WITHIN THE FIELDS OF VIEW OF THE EREP SENSORS

SURFACE COVERAGE, MULTISPECTRAL PHOTOGRAPHIC FACILITY

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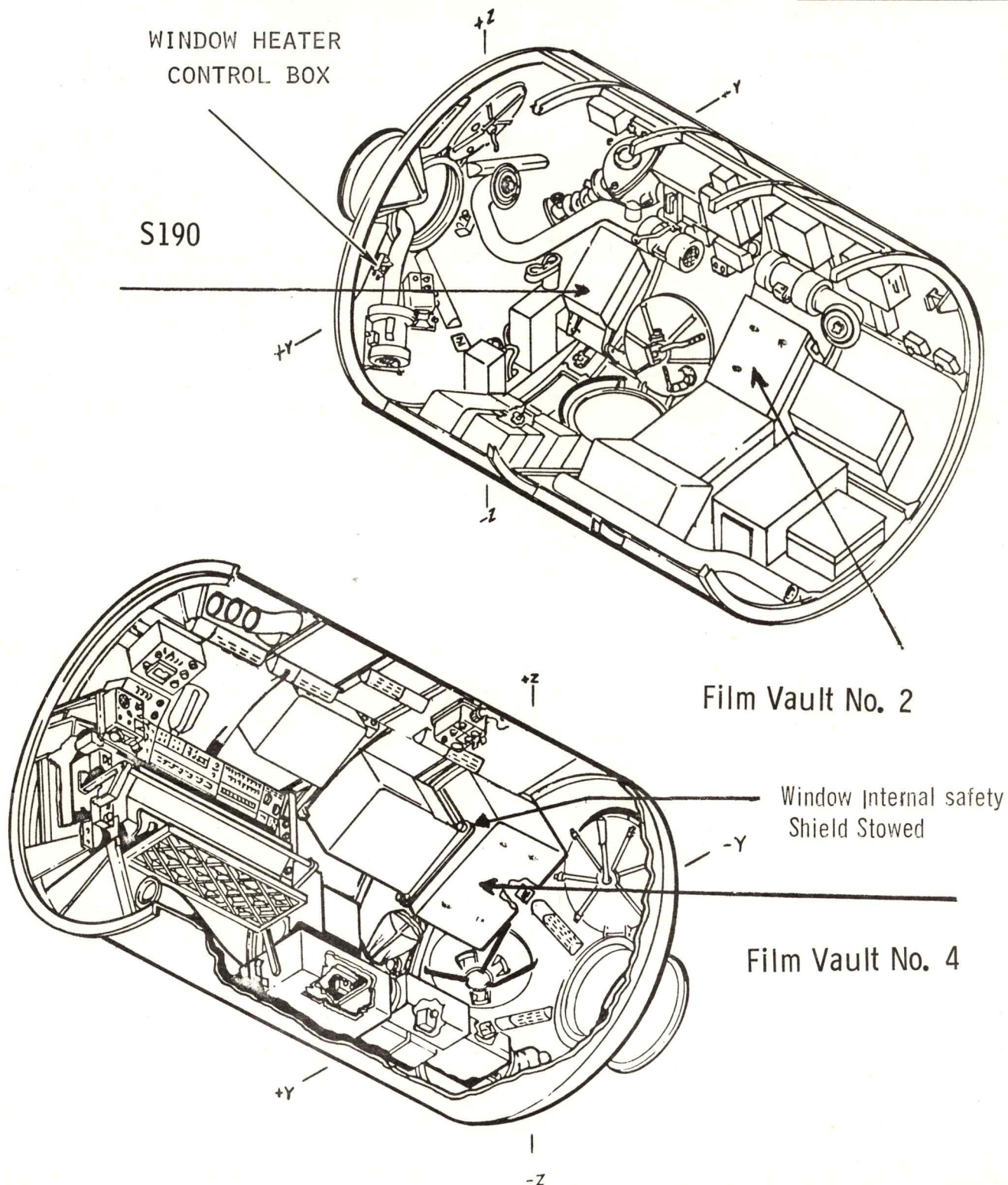


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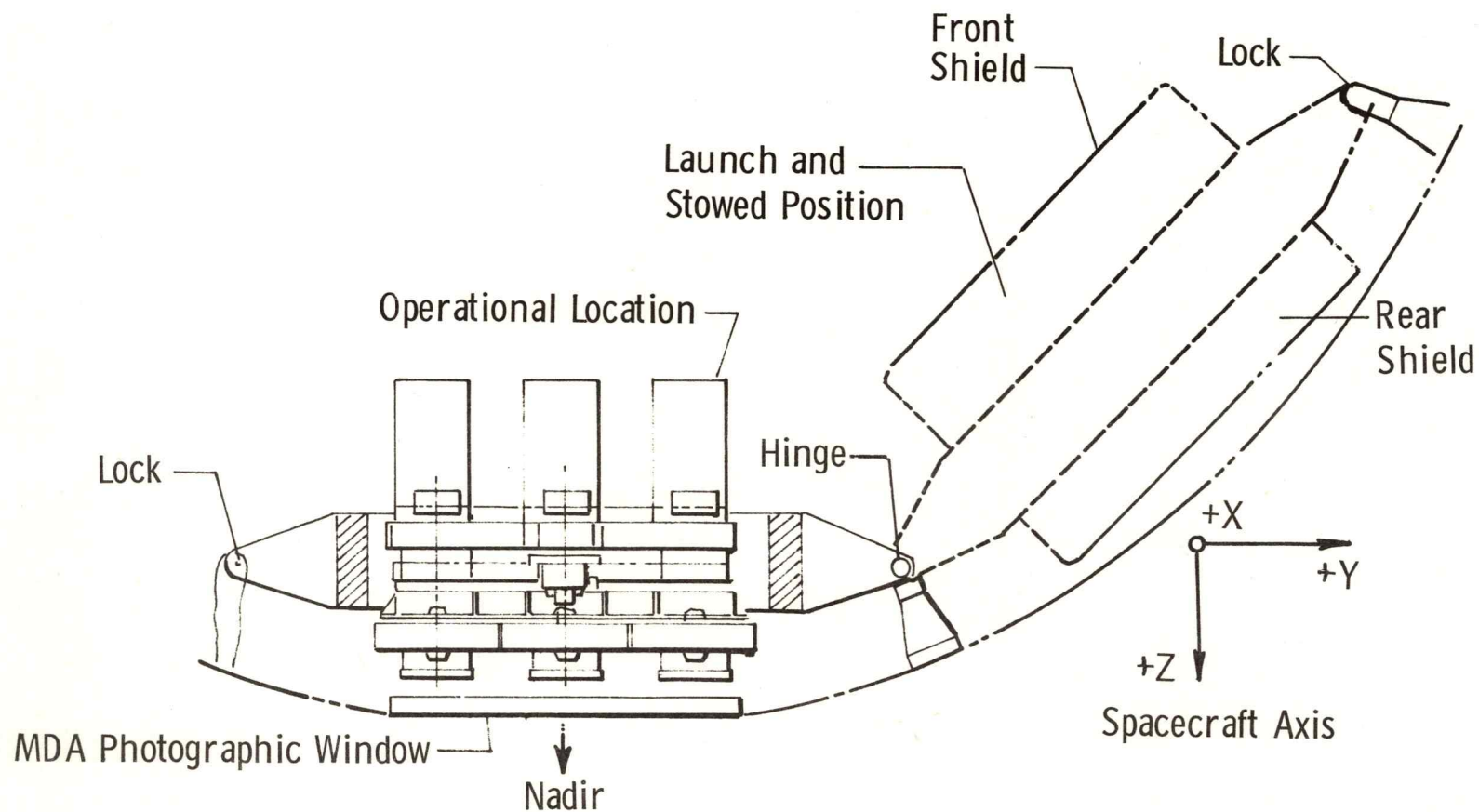
MDA INTERNAL ARRANGEMENT



CAMERA ARRAY LOCATION

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View Looking Toward Command Module

S-190 SPECIFICATIONS

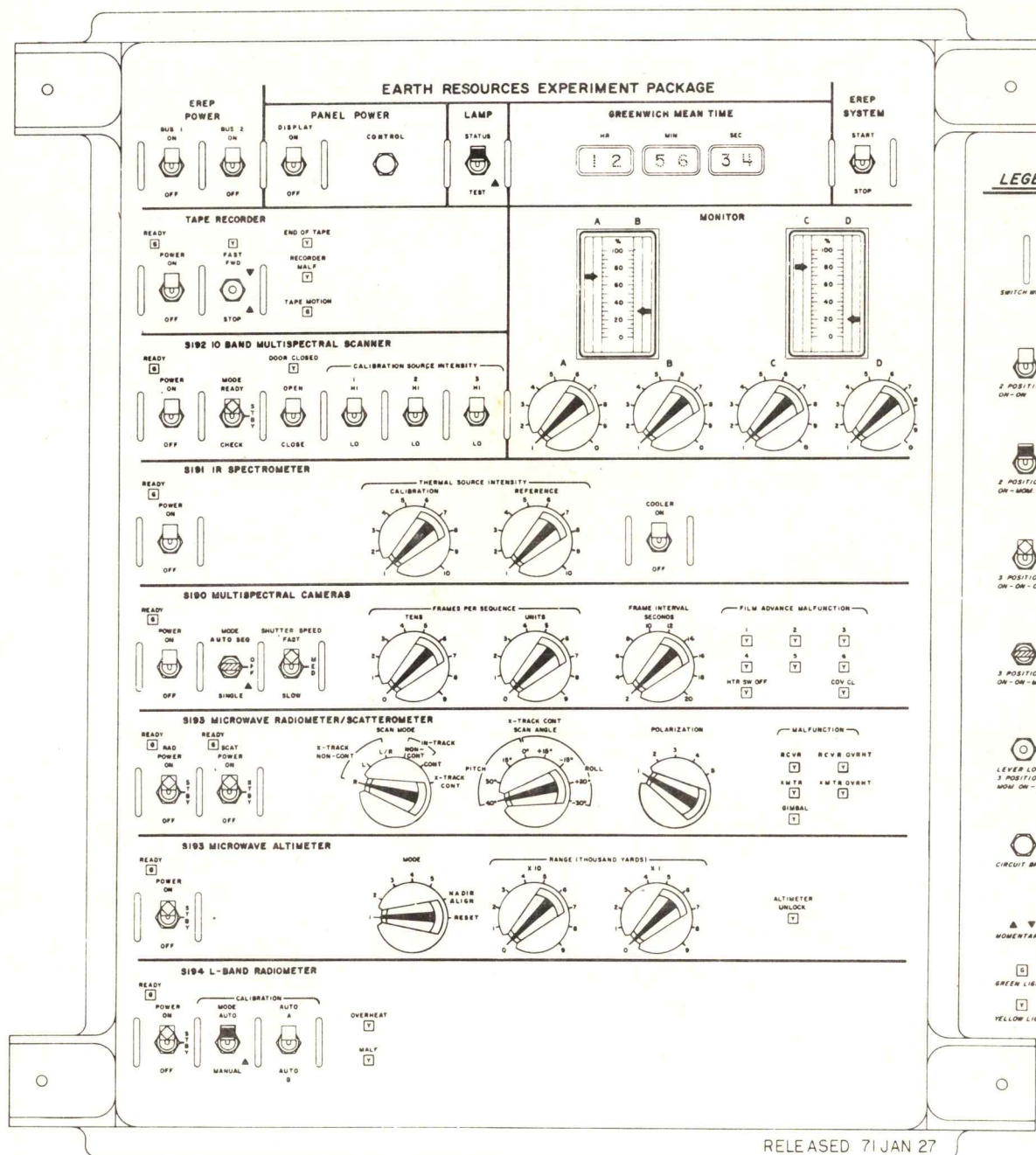
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- **LENSES**
 - 6-INCH FOCAL LENGTH
 - f/2.8 APERTURE
- **FILM**
 - 70 mm
 - 400 FRAMES/CASSETTE
 - 2.5 OR 4 MIL BASE
- **FORMAT**
 - 2-1/4 × 2-1/4 INCHES
- **APERTURE STOPS**
 - f/2.8 TO f/16 IN 1/2 STOP INCREMENTS (ACCURACY ±1.5 PERCENT)
- **SHUTTER SPEED**
 - 2.5, 5, AND 10 MILLISECONDS (REPEATABILITY OF 2.5 PERCENT)
 - 75 PERCENT EFFICIENCY
 - 4-MILLISECOND SYNCHRONIZATION
- **FMC**
 - 10 TO 30 MILLIRADIANS/SEC (ACCURACY 5 PERCENT)

EREP CONTROL AND DISPLAY PANEL

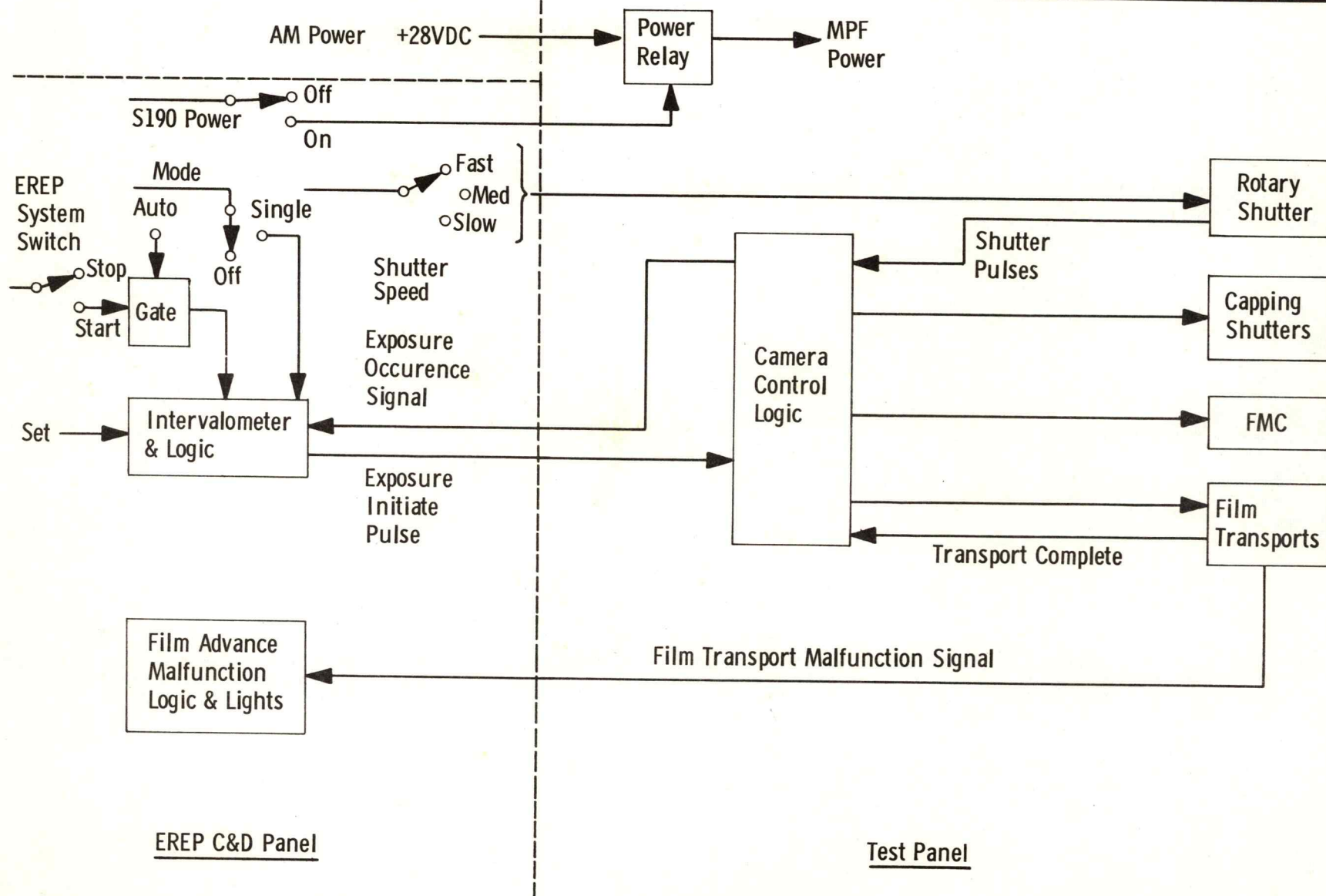


RELEASED 71 JAN 27

CAMERA CONTROL DIAGRAM

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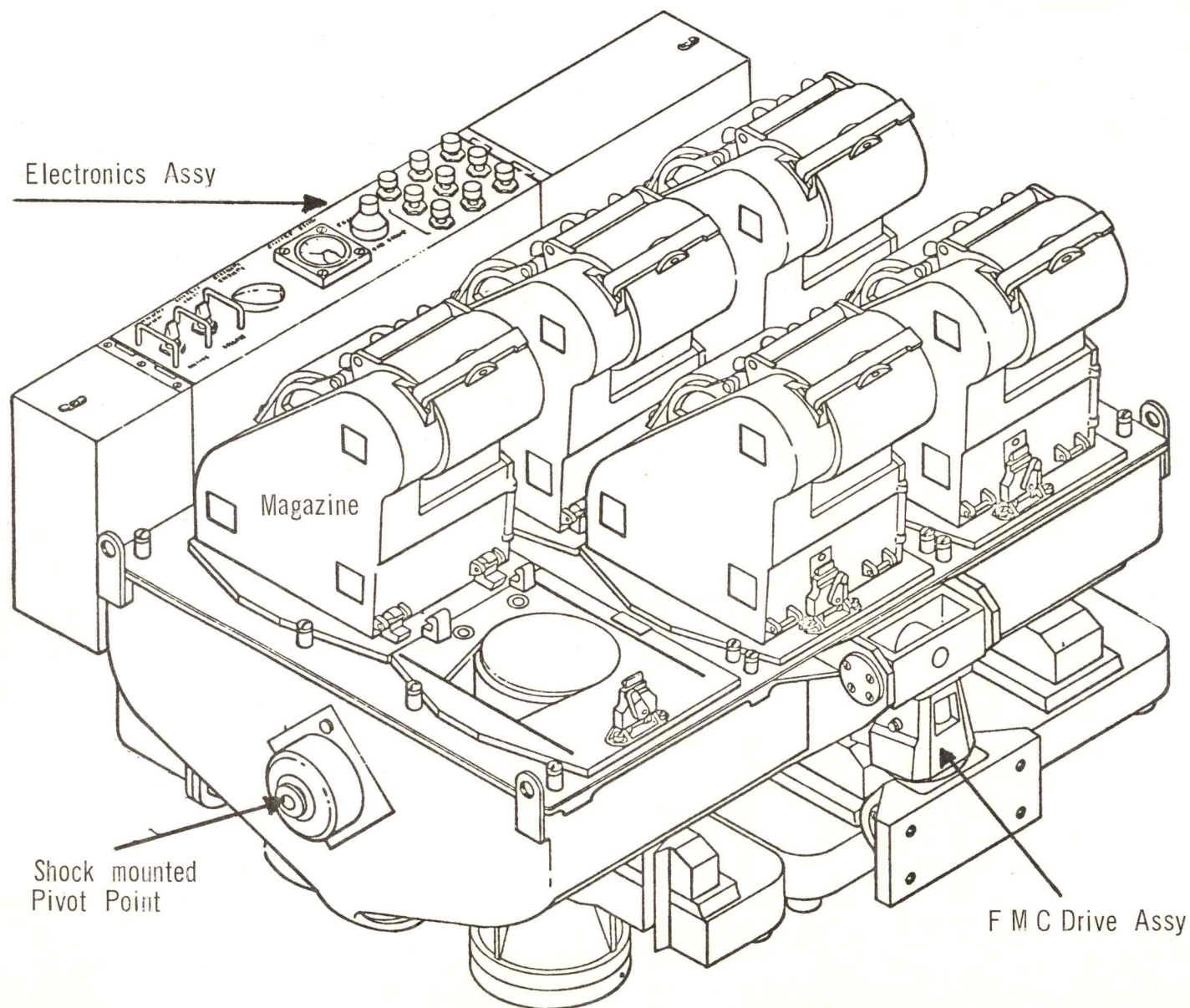


S-190 BORESIGHTED CAMERA ARRAY

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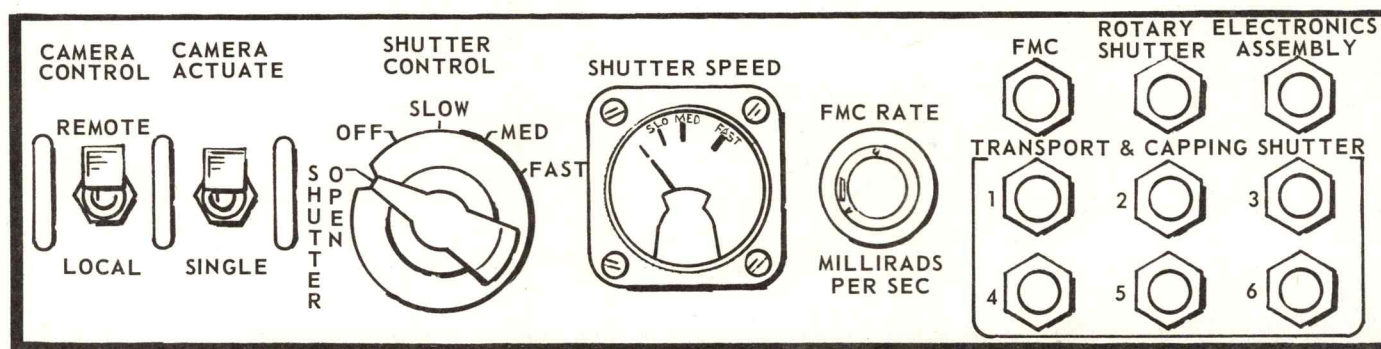
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EXPERIMENT S190 TEST PANEL

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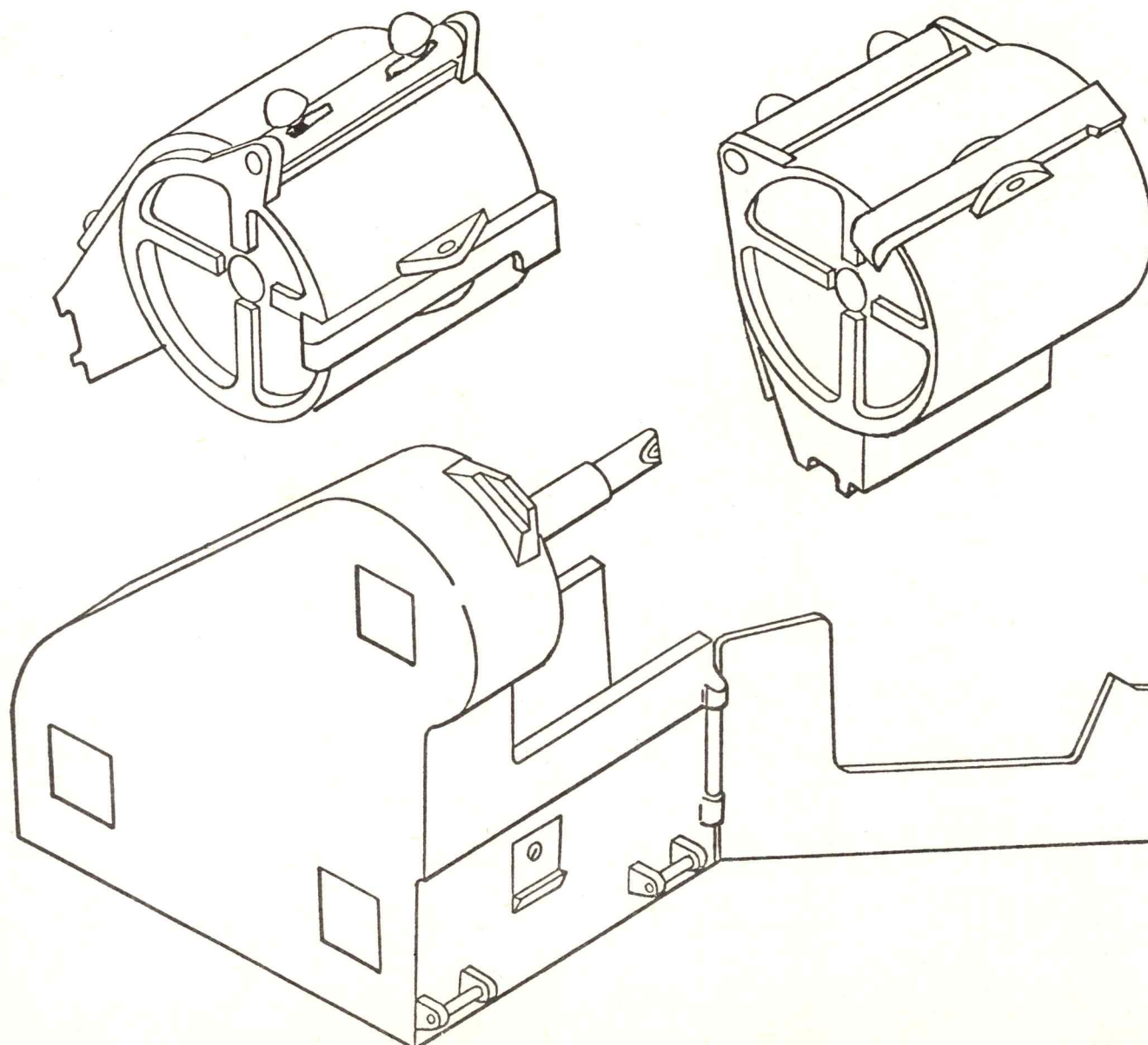


S-190 CASSETTES AND MAGAZINE

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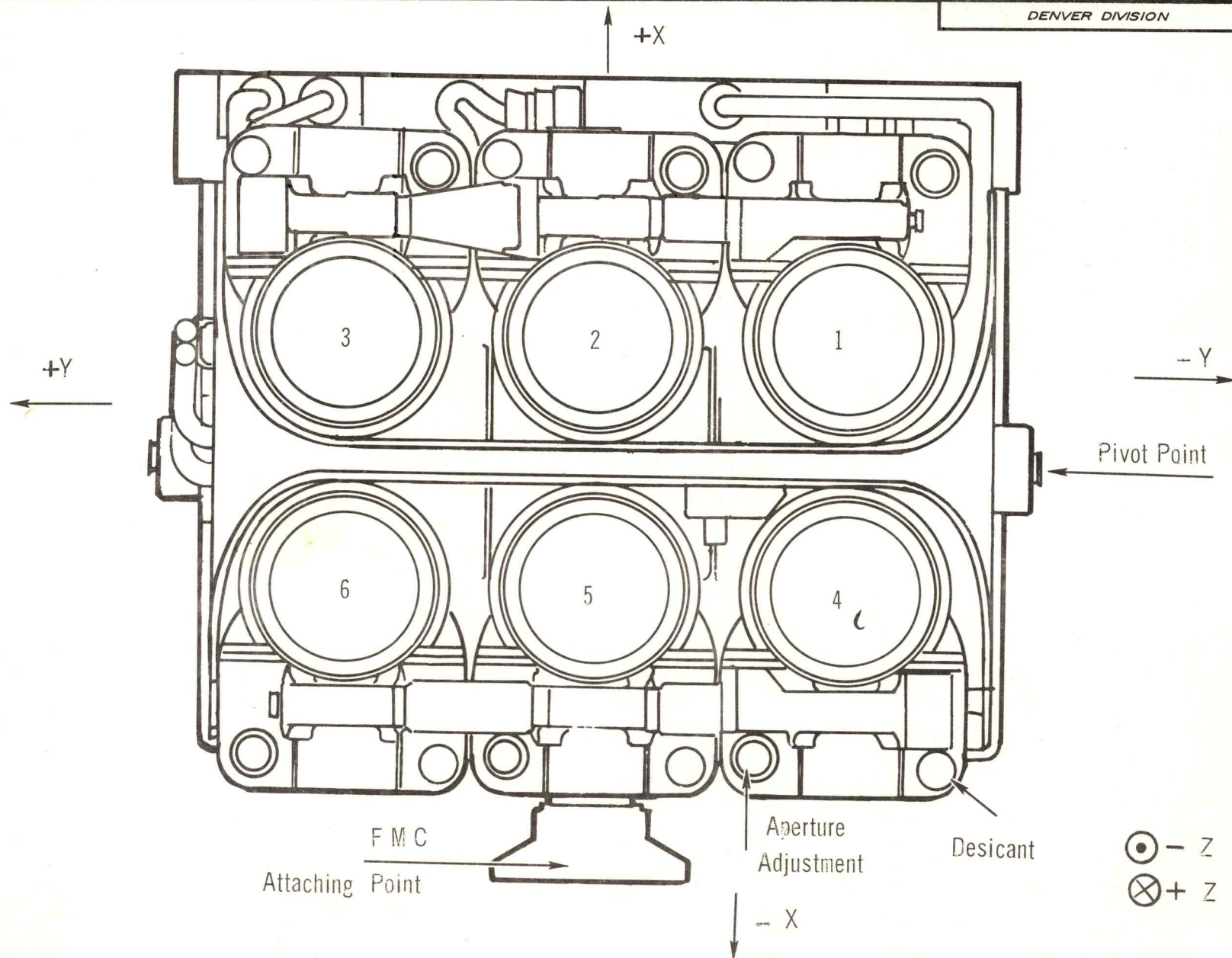


BOTTOM VIEW OF BCA WITHOUT MOUNT

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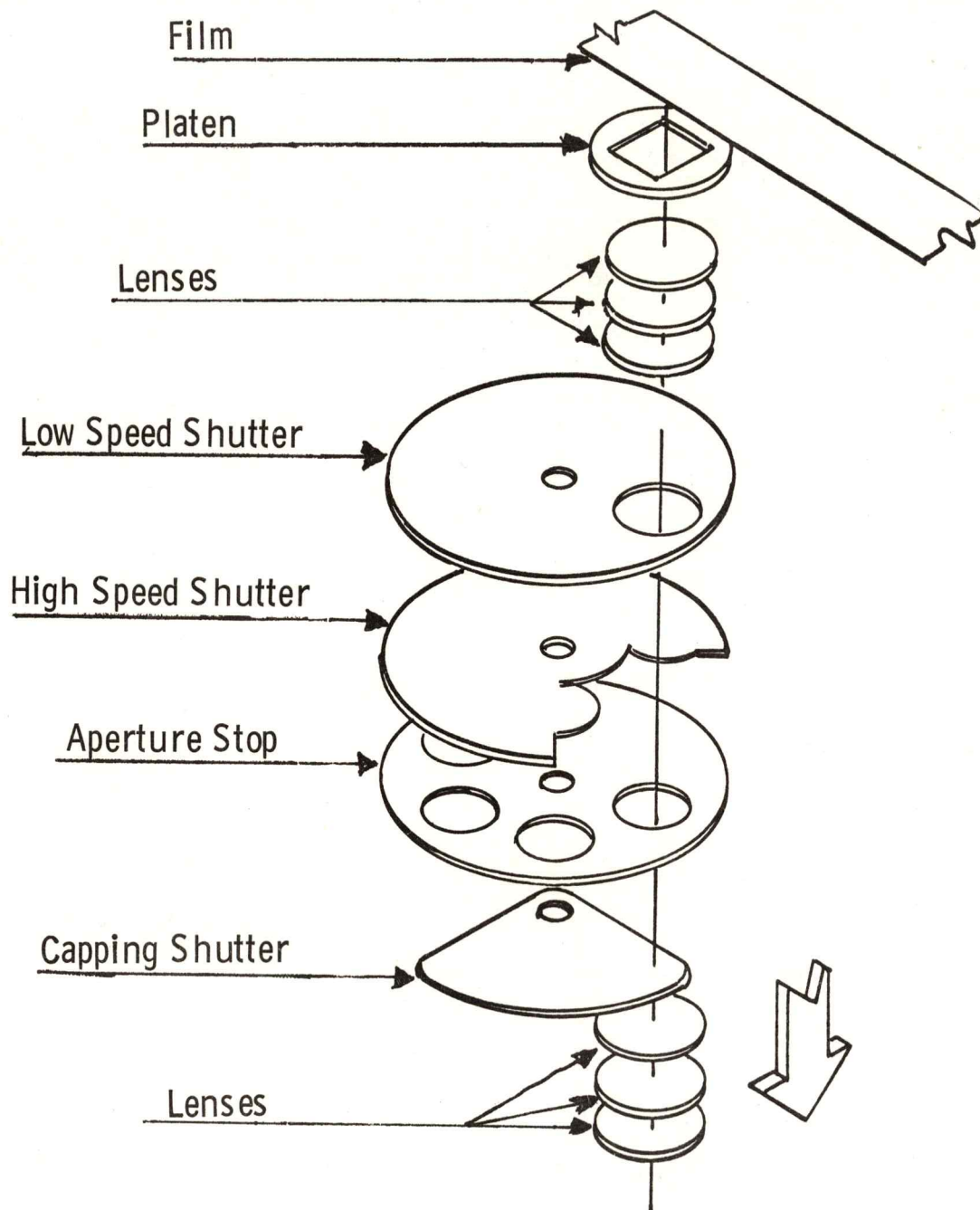


S-190 CAMERA

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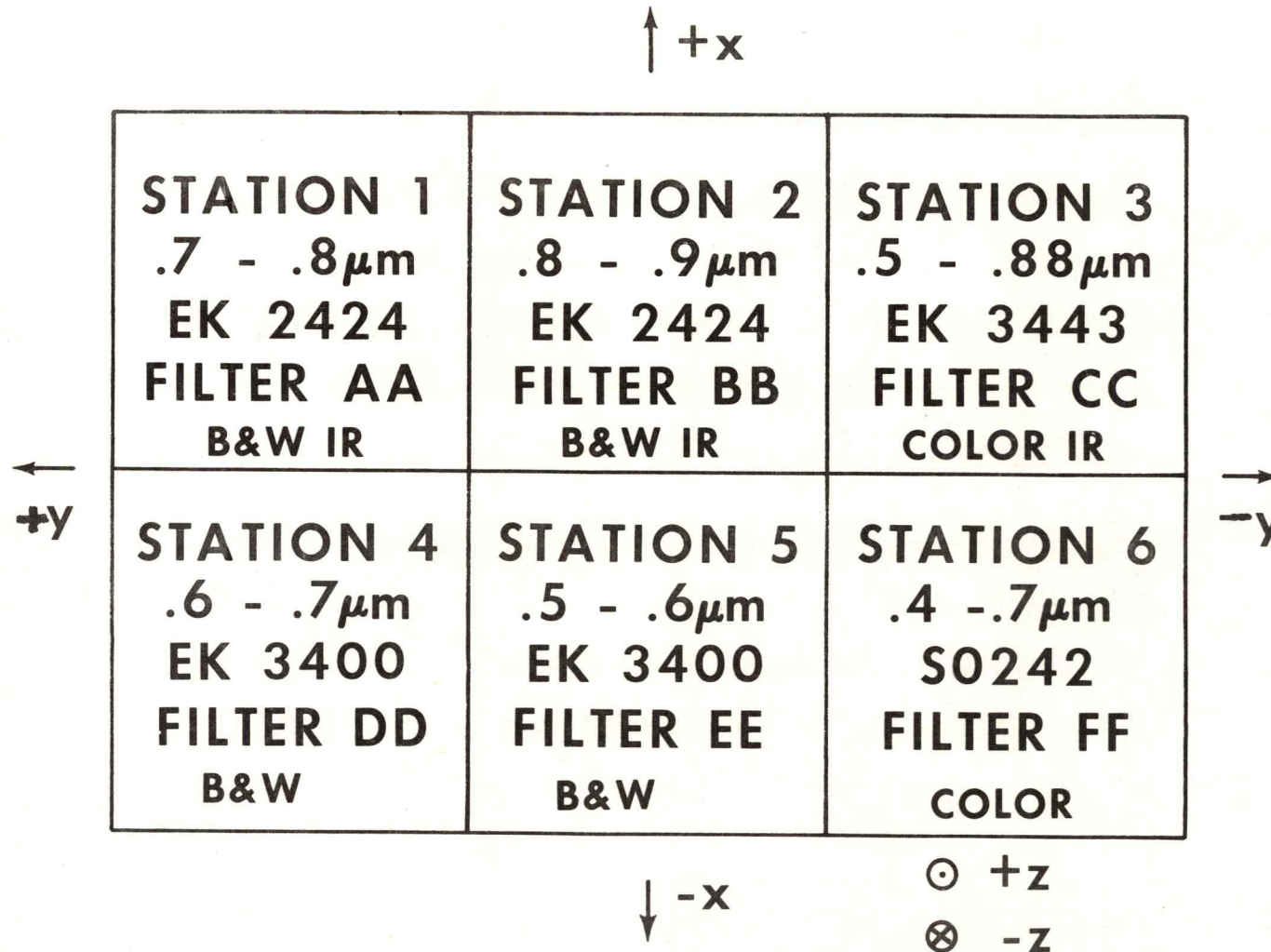


S-190 STANDARD CONFIGURATION

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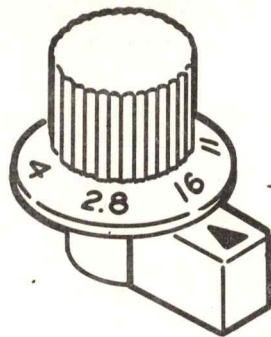


S-190 EXPERIMENT

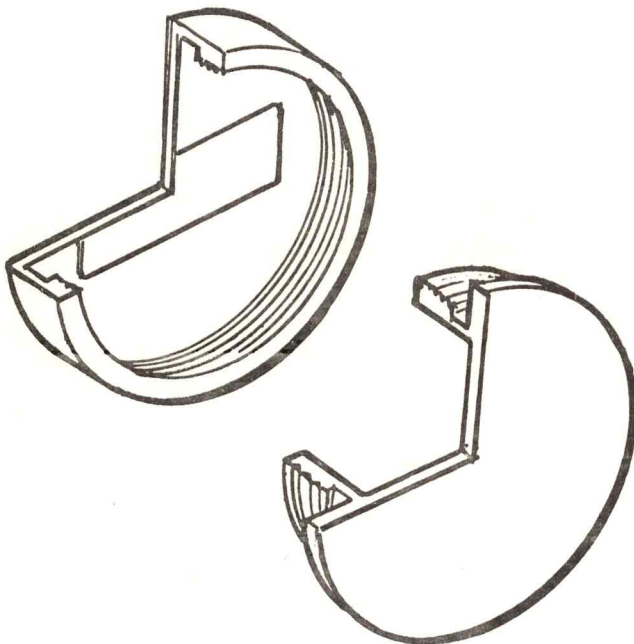
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Aperture Setting Knob

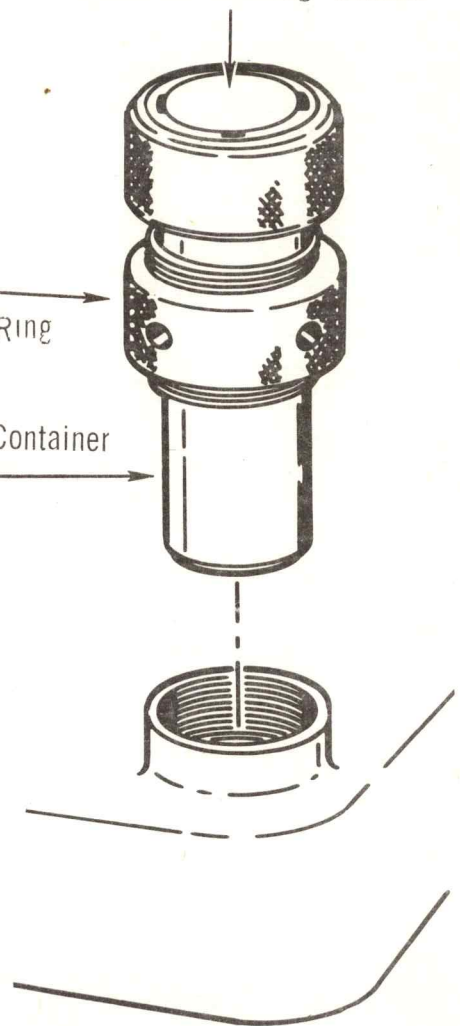


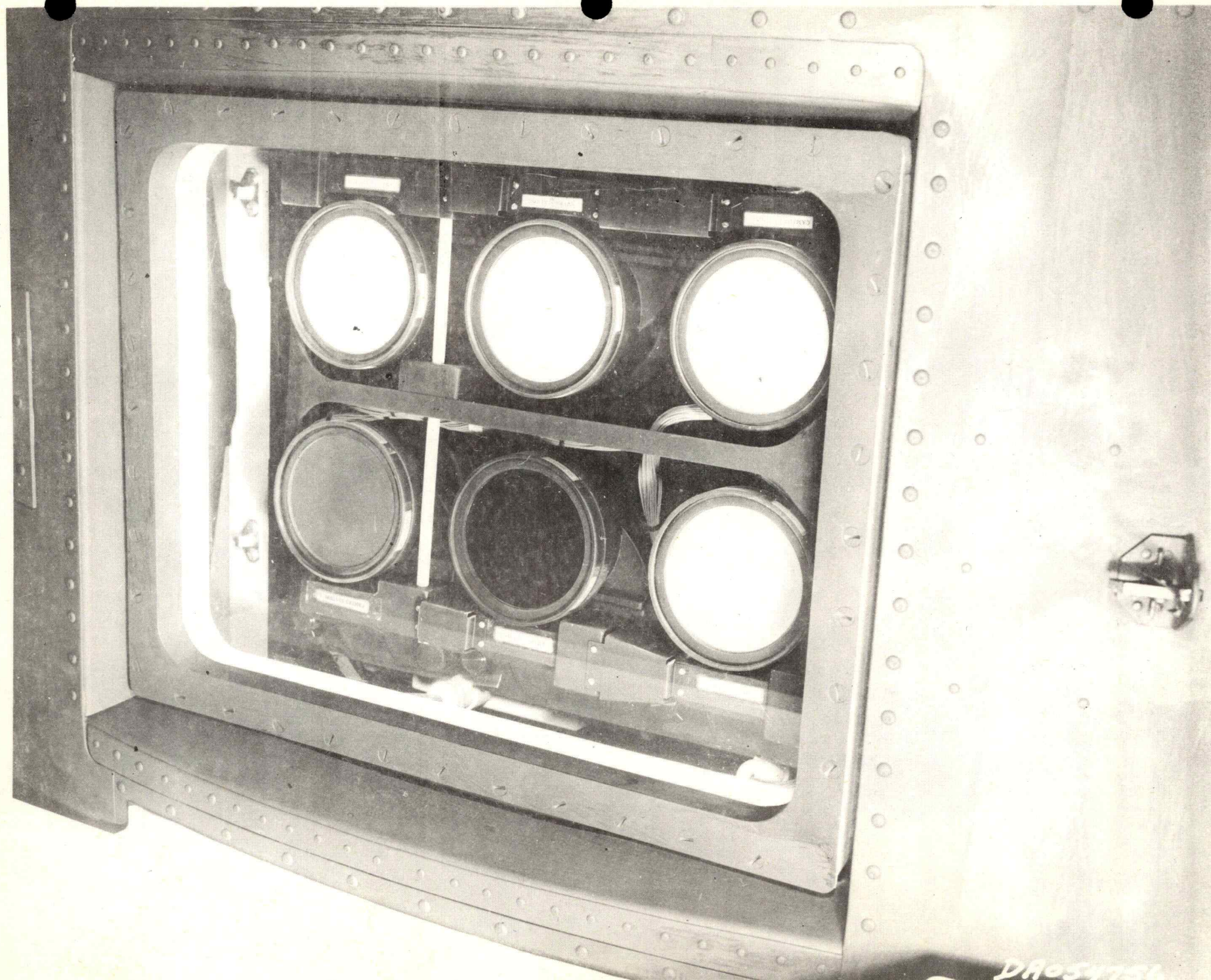
Filter Return Container

Desiccant Viewing Window

Locking Ring

Desiccant Container



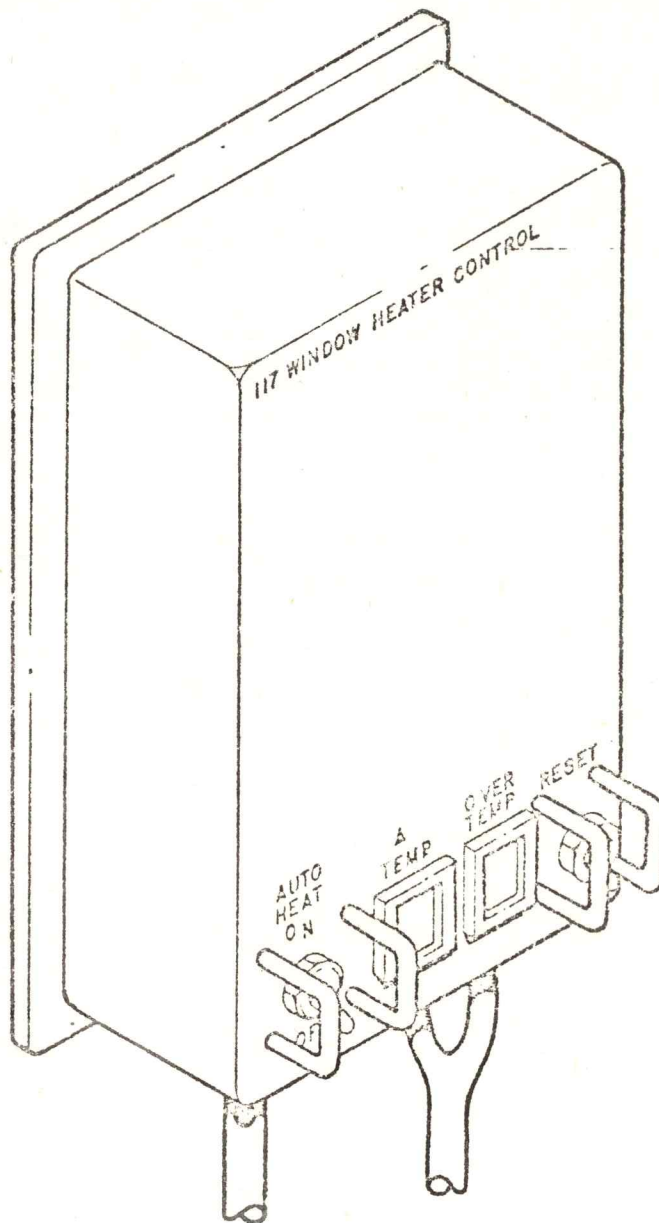


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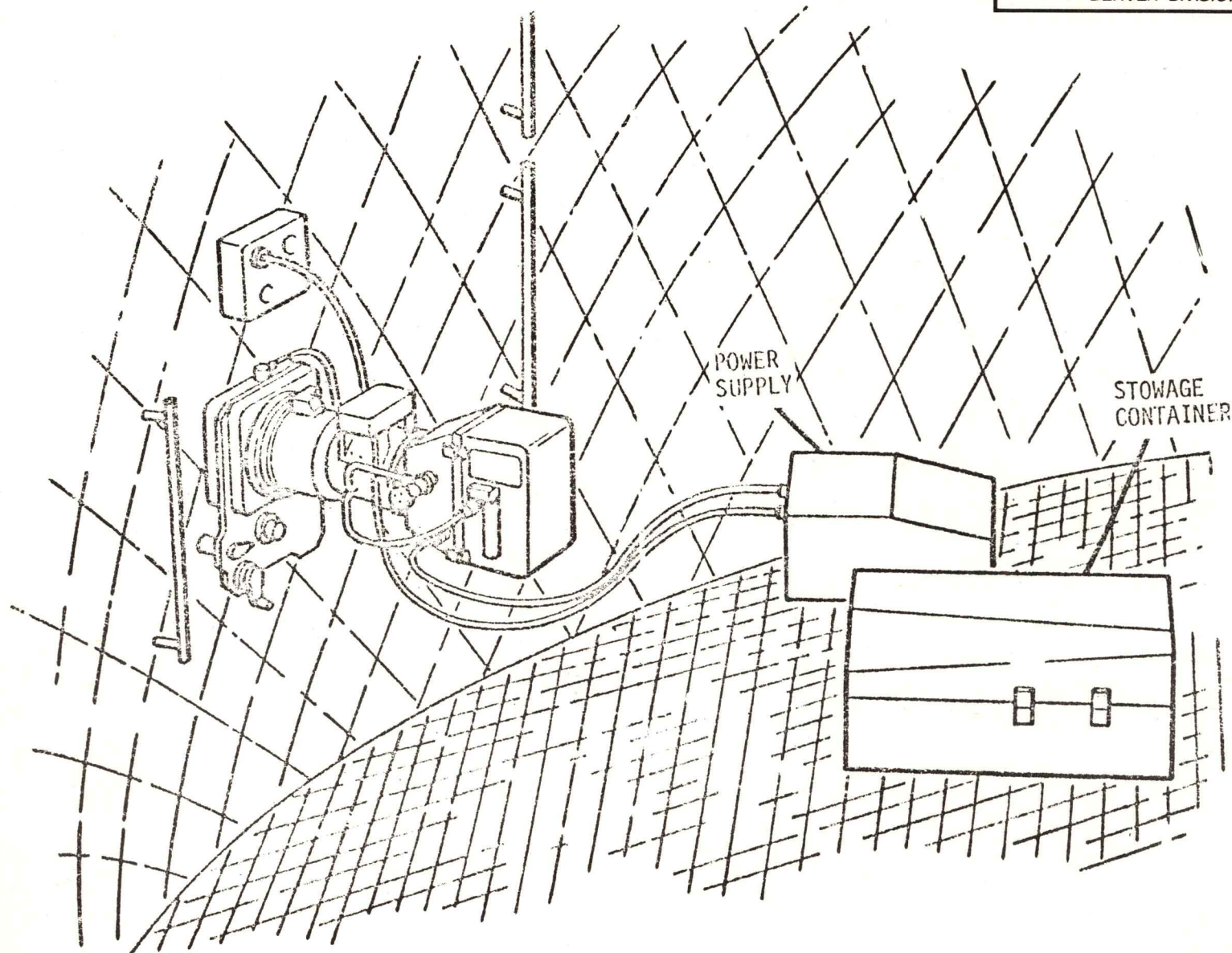
MDA WINDOW HEATER CONTROL PANEL

S190B EARTH TERRAIN CAMERA

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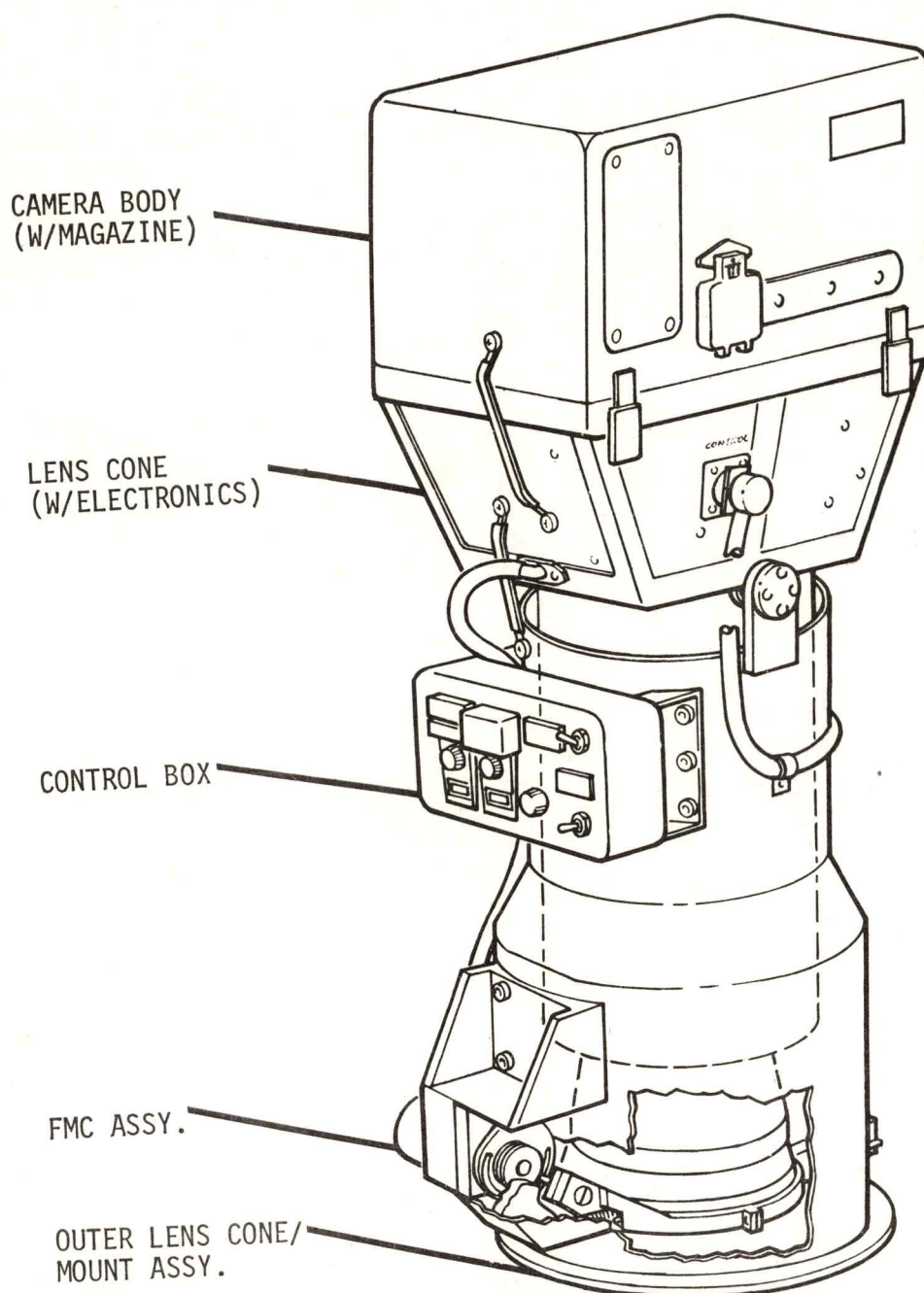


S190B EARTH TERRAIN CAMERA

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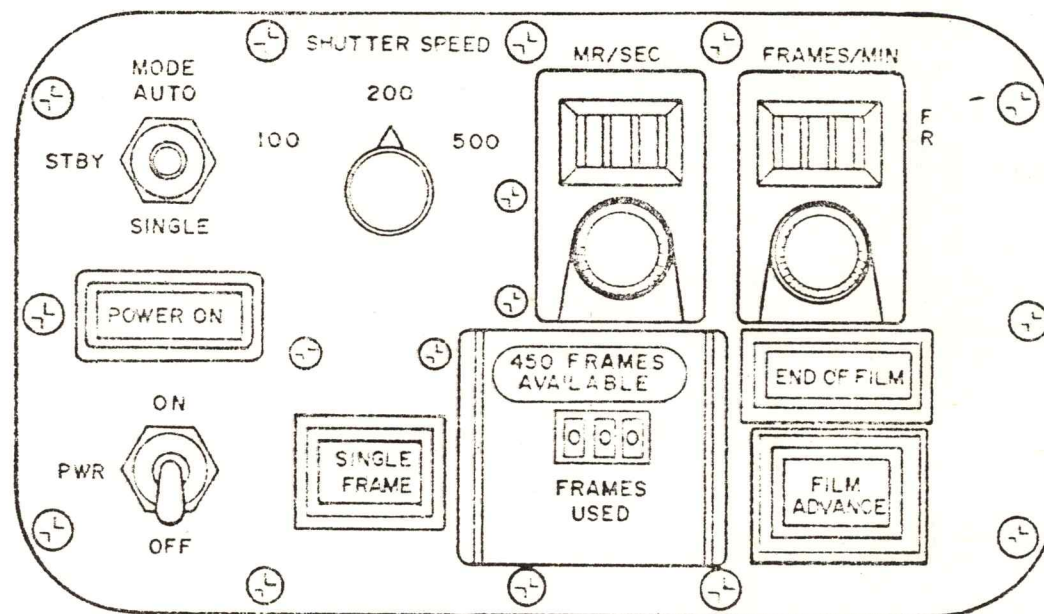
EARTH TERRAIN CAMERA AND SUPPORT EQUIPMENT

S190B EARTH TERRAIN CAMERA

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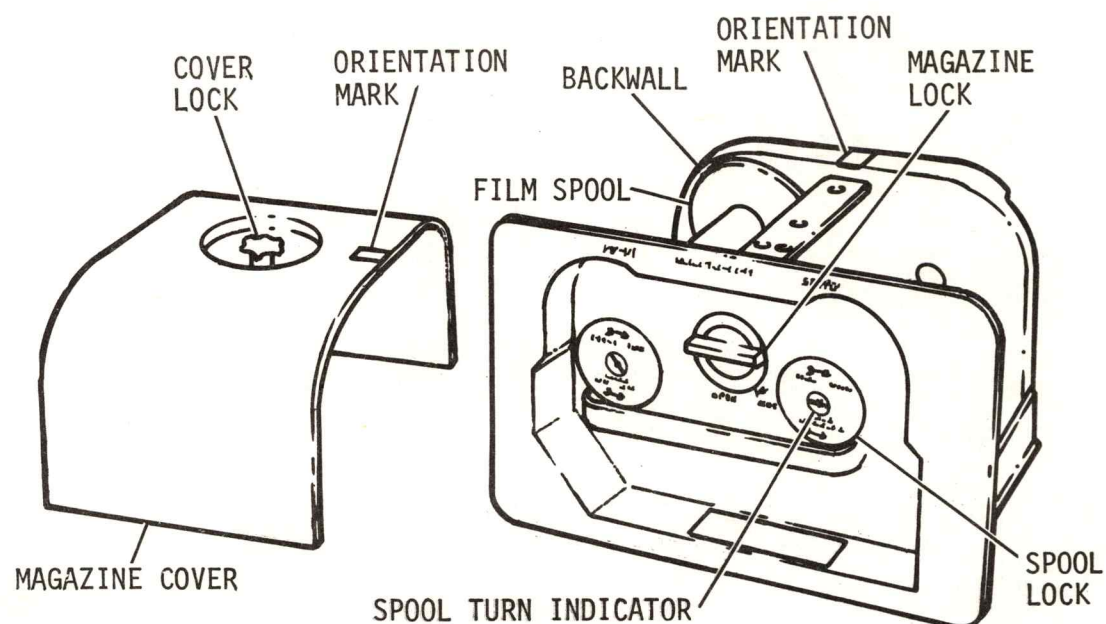
CONTROL BOX

S190B EARTH TERRAIN CAMERA

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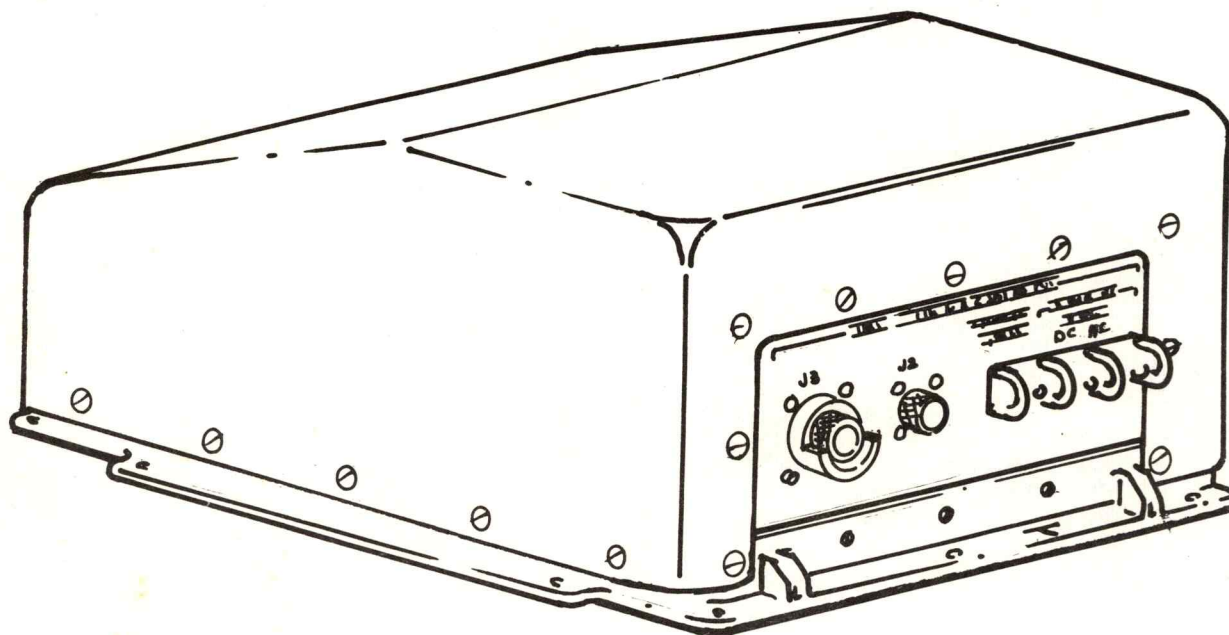
FILM MAGAZINE ASSEMBLY

S190B EARTH TERRAIN CAMERA

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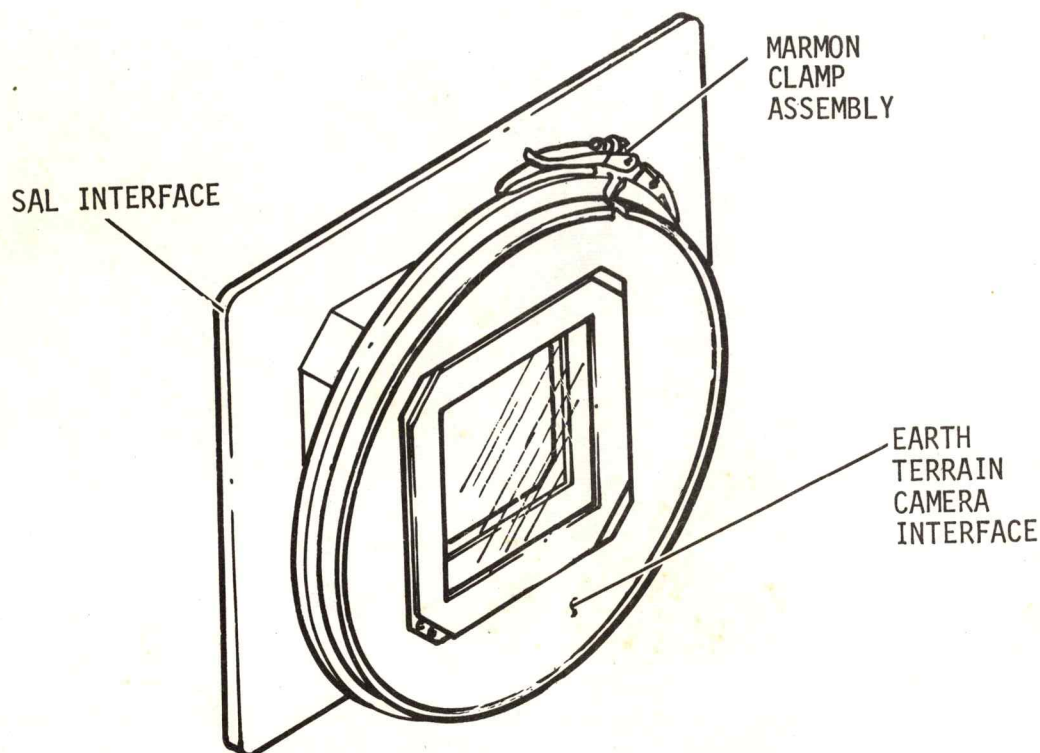
S190B POWER SUPPLY

S190B EARTH TERRAIN CAMERA

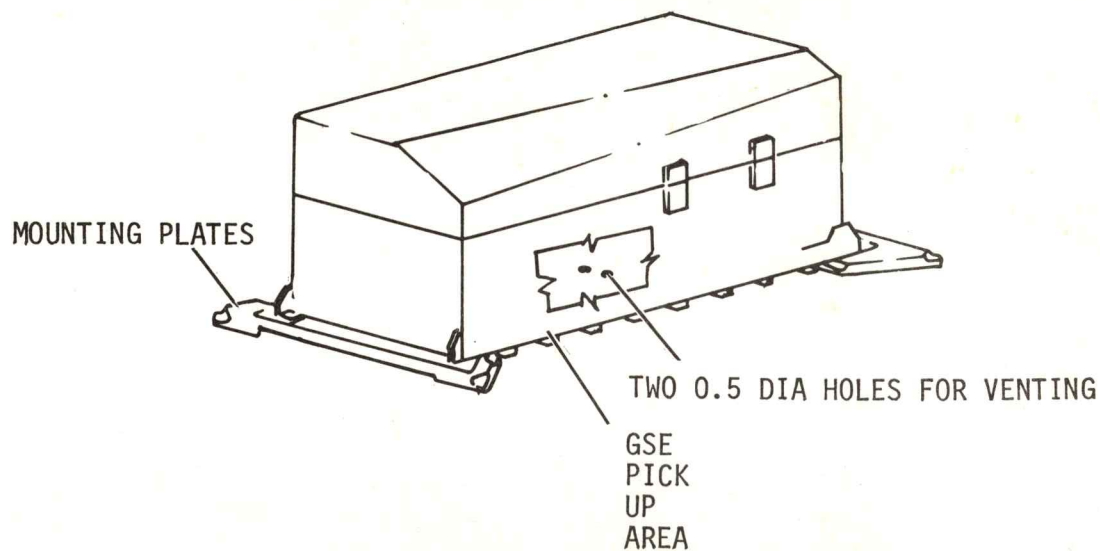
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SAL WINDOW ASSEMBLY



CAMERA STOWAGE LOCKER