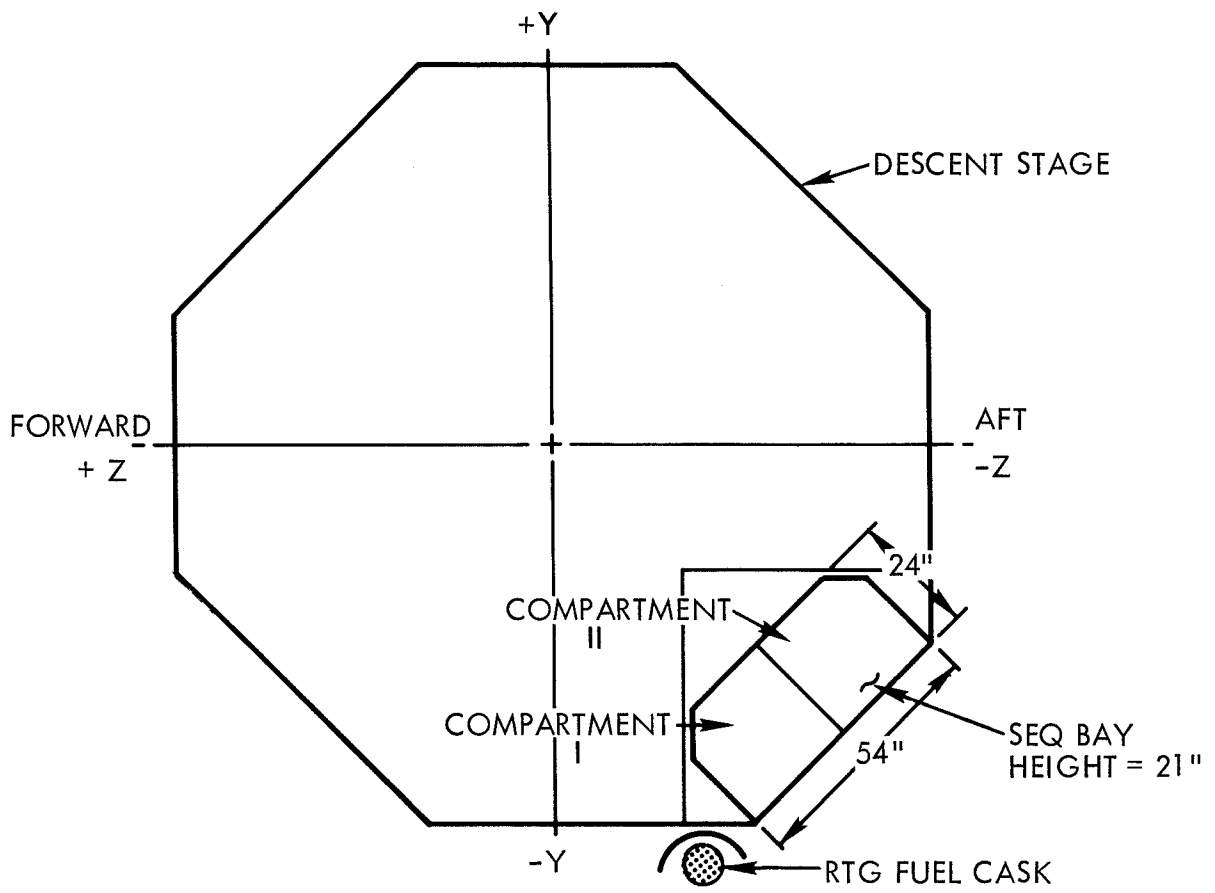


**A COMPENDIUM OF LUNAR
SURFACE EXPERIMENTS**

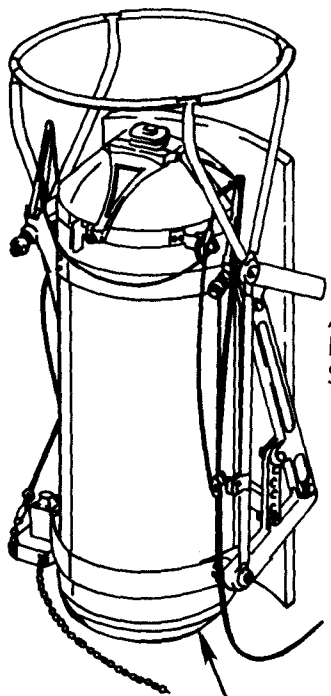
PICTORIAL DESCRIPTIONS

APOLLO J-1 MISSION

MAY 15, 1970

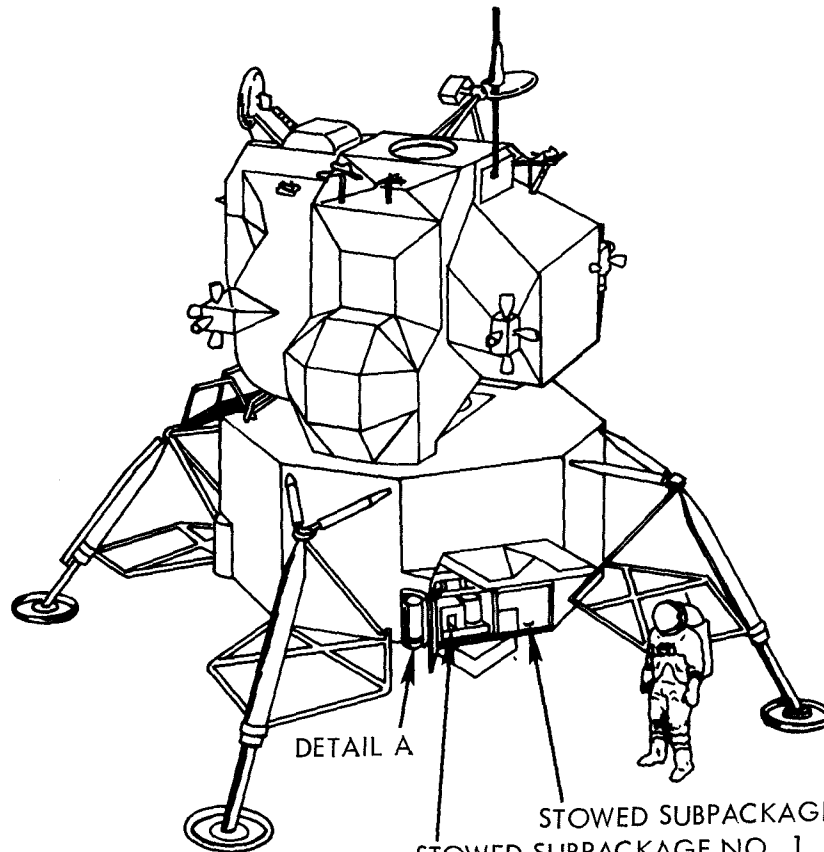


ALSEP STORAGE IN LM SEQ BAY



ATTACHED TO
LM DESCENT
STAGE

DETAIL A

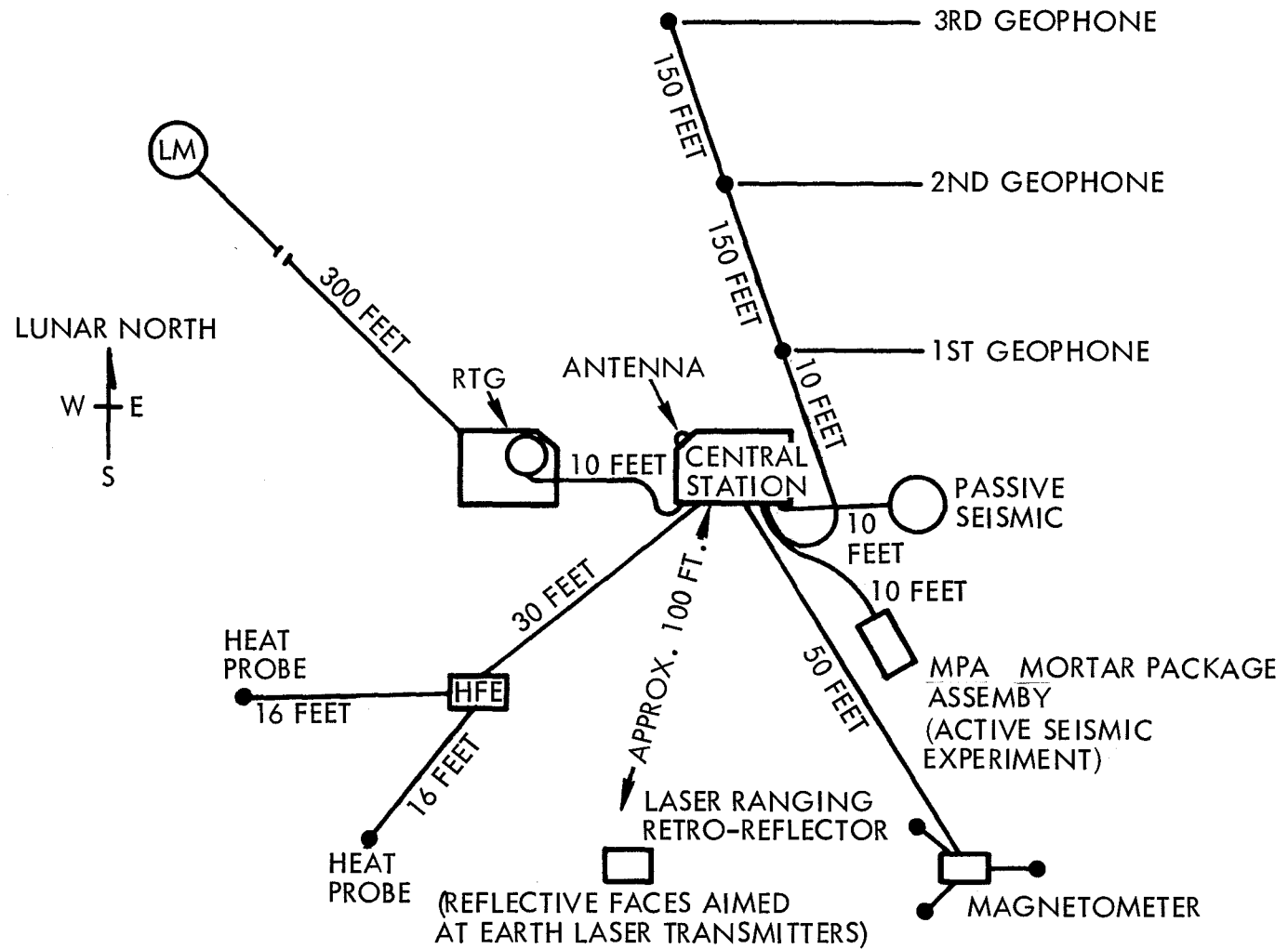


DETAIL A

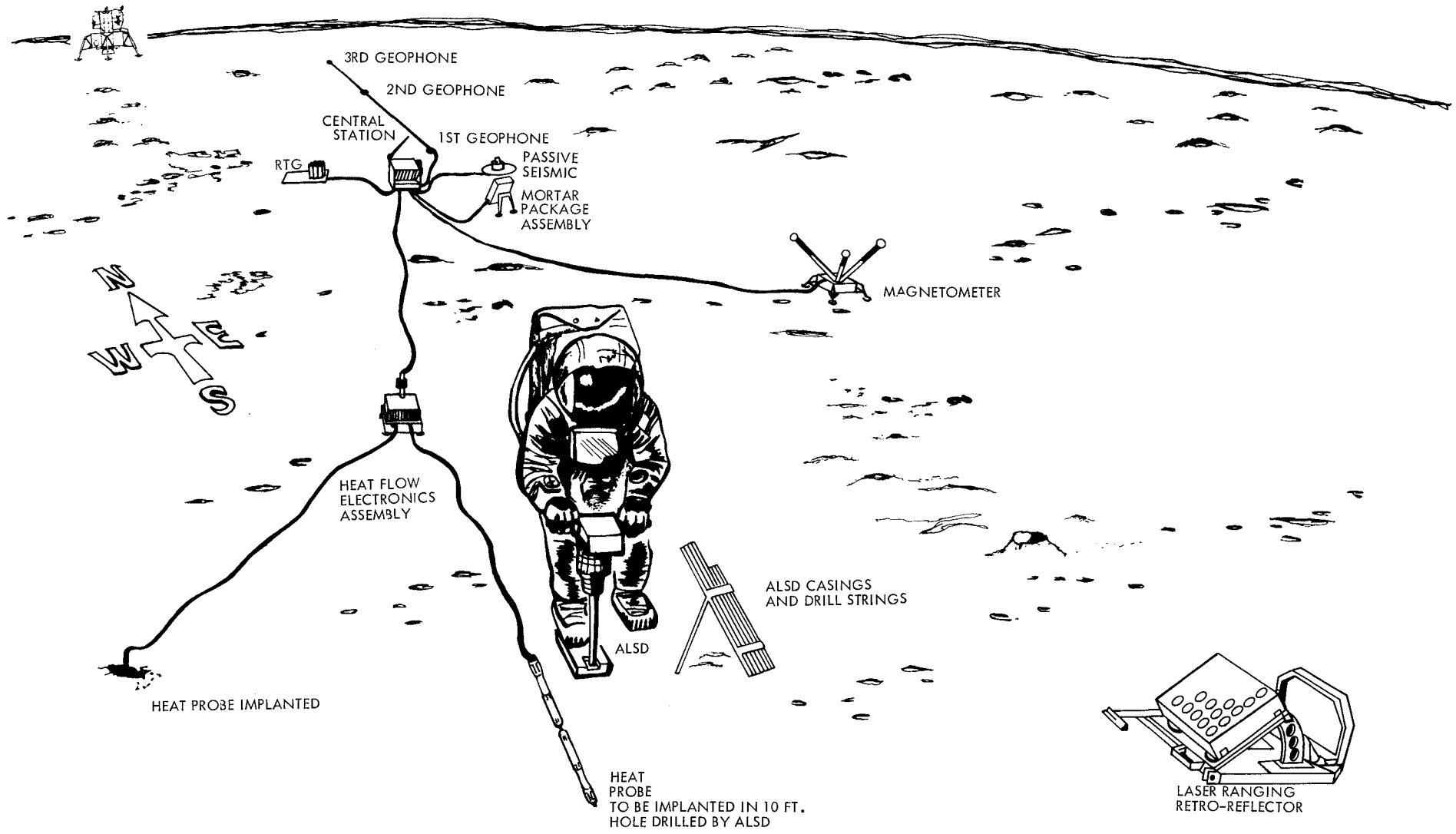
STOWED SUBPACKAGE NO. 2
STOWED SUBPACKAGE NO. 1

RTG FUEL CASK STRUCTURE ASSEMBLY

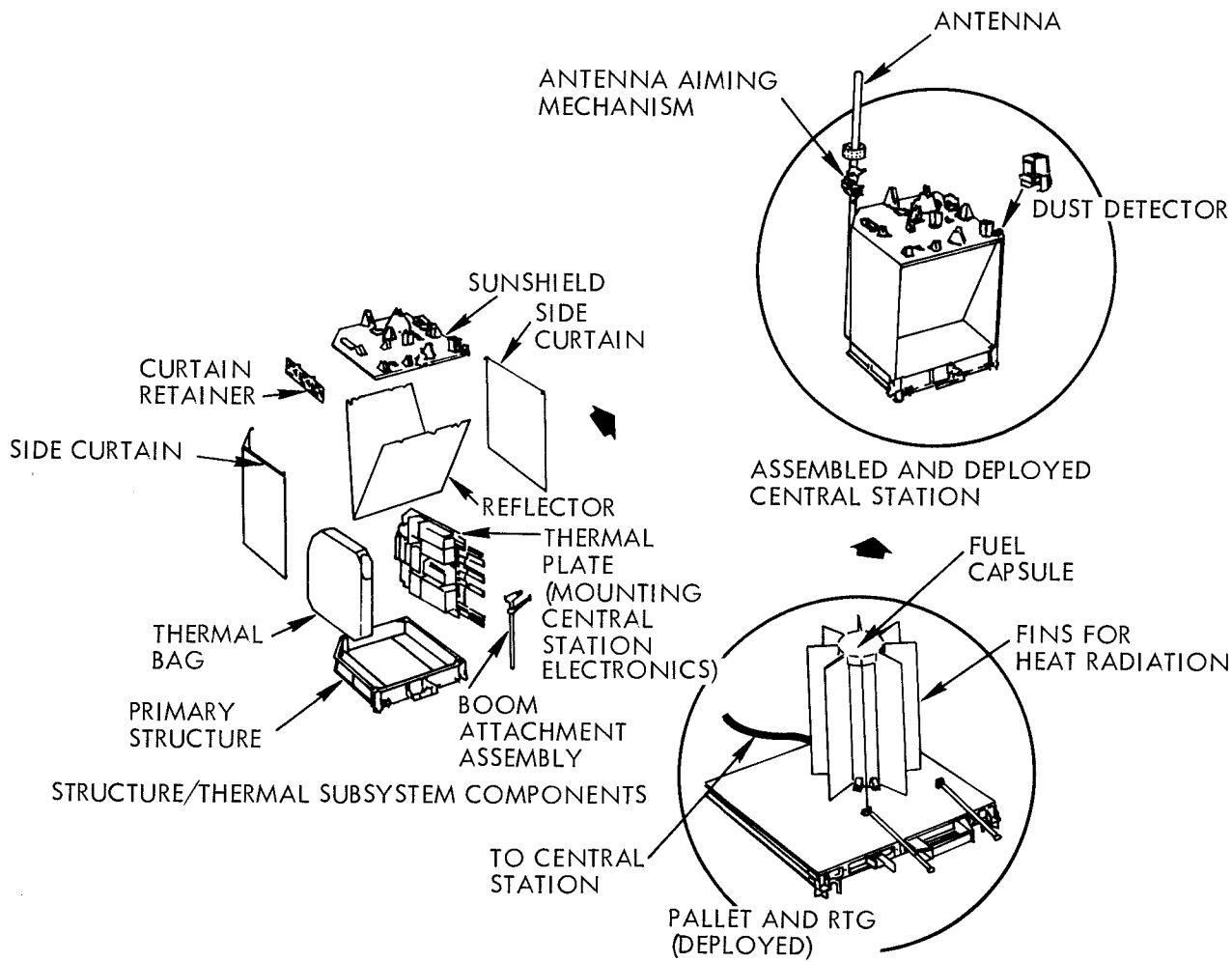
ALSEP INSTALLATION IN LM SEQ BAY



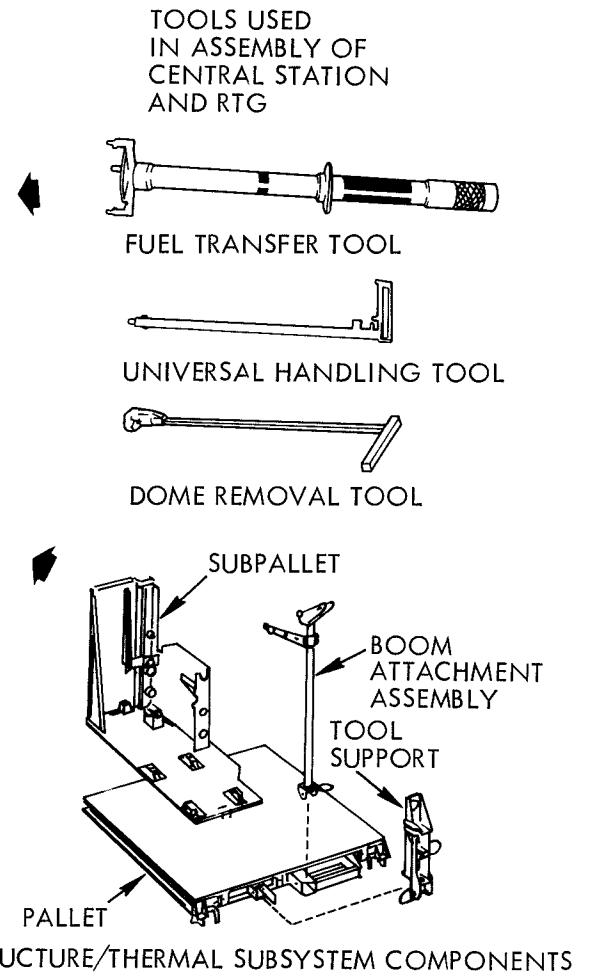
TYPICAL SCHEMATIC OF ALSEP SURFACE EXPERIMENTS AND LASER RANGING RETRO-REFLECTOR IN DEPLOYED POSITIONS FOR J-1 MISSION



PERSPECTIVE REPRESENTATION OF ALSEP SURFACE EXPERIMENTS AND LASER RANGING RETRO-REFLECTOR IN DEPLOYED POSITIONS

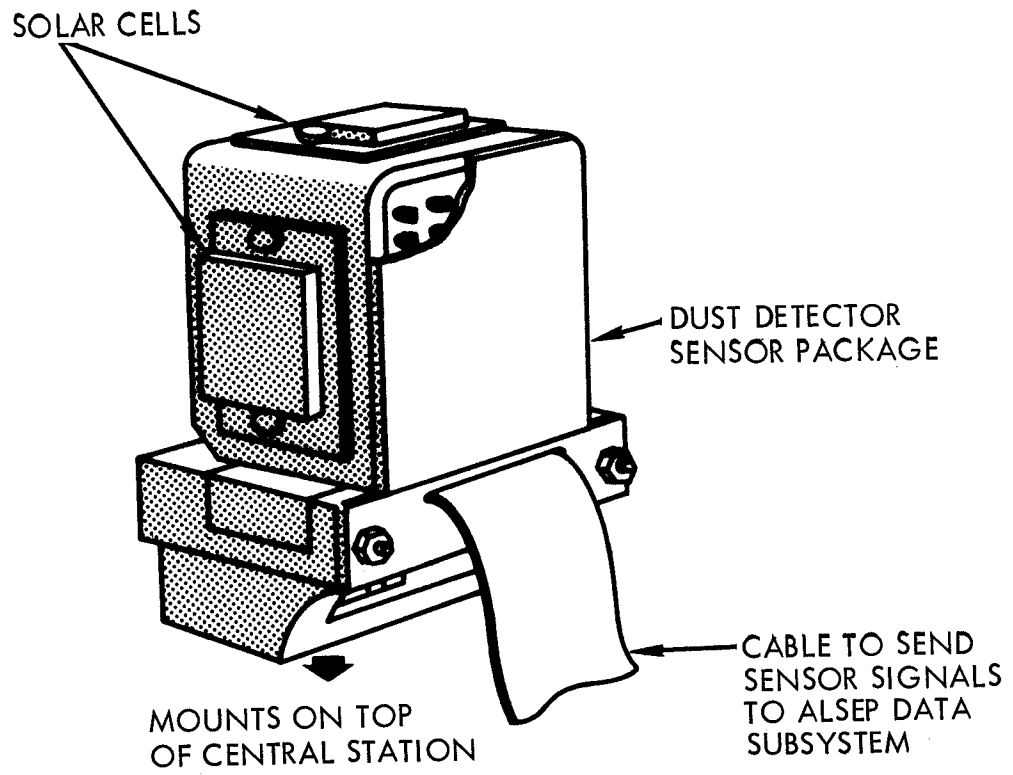


STRUCTURE/THERMAL SUBSYSTEM
COMPONENTS FROM ALSEP SUBPACKAGE NO. 1

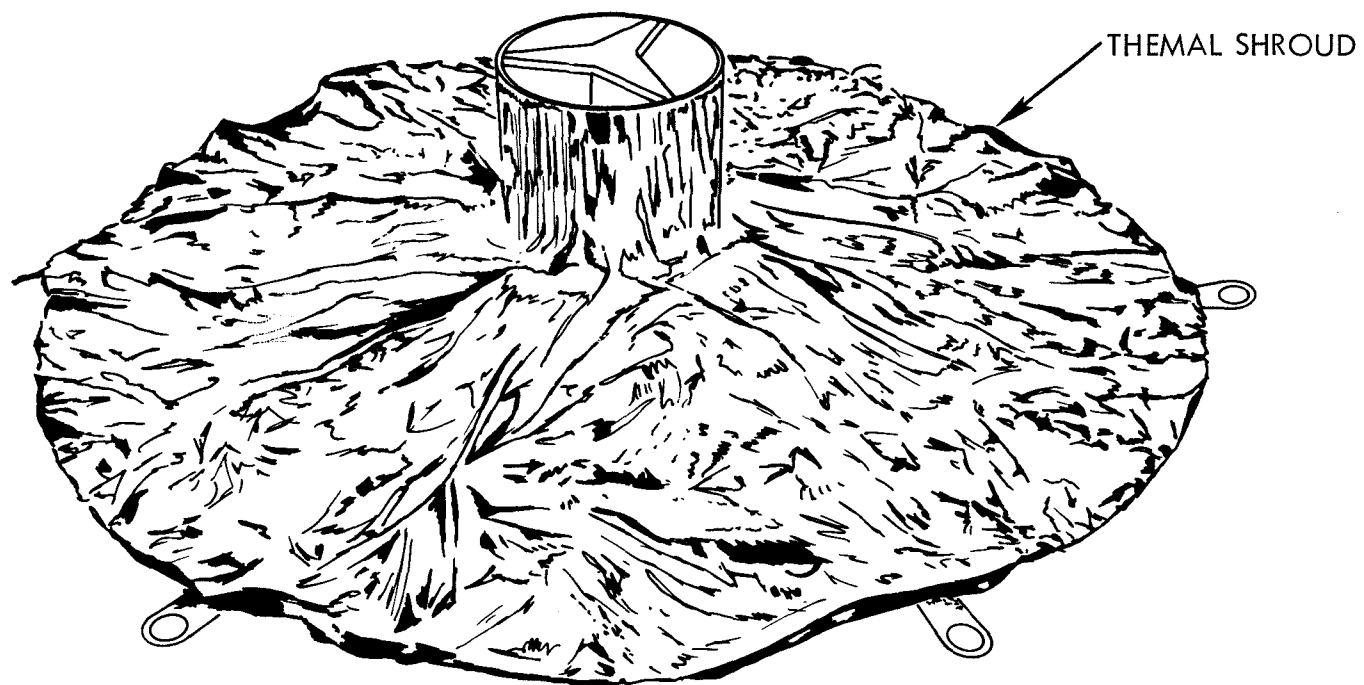


STRUCTURE/THERMAL SUBSYSTEM
COMPONENTS FROM ALSEP SUBPACKAGE
NO. 2

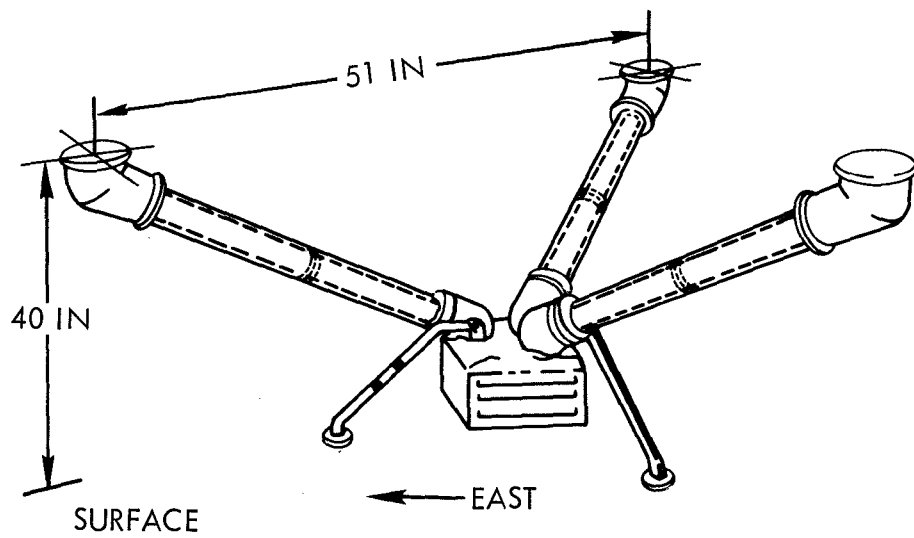
ASSEMBLY OF ALSEP CENTRAL STATION AND RTG POWER SOURCE



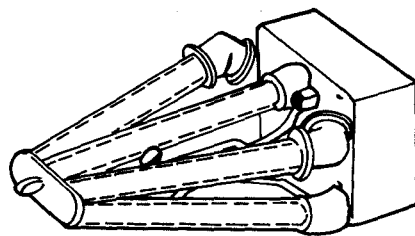
SCHEMATIC OF DUST DETECTOR EXPERIMENT (M-515)



SCHEMATIC OF DEPLOYED PASSIVE SEISMIC EXPERIMENT (S-031)

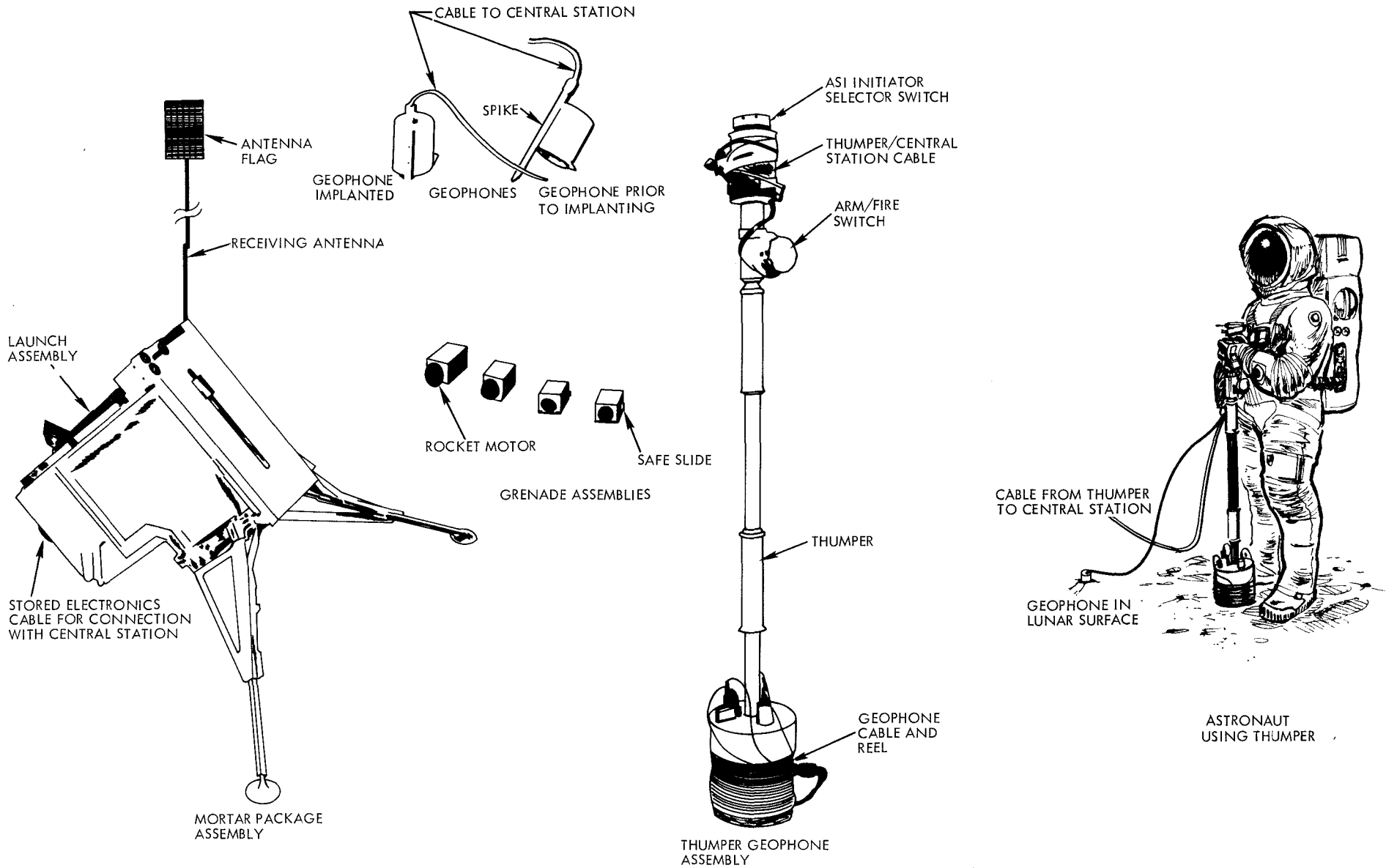


DEPLOYED



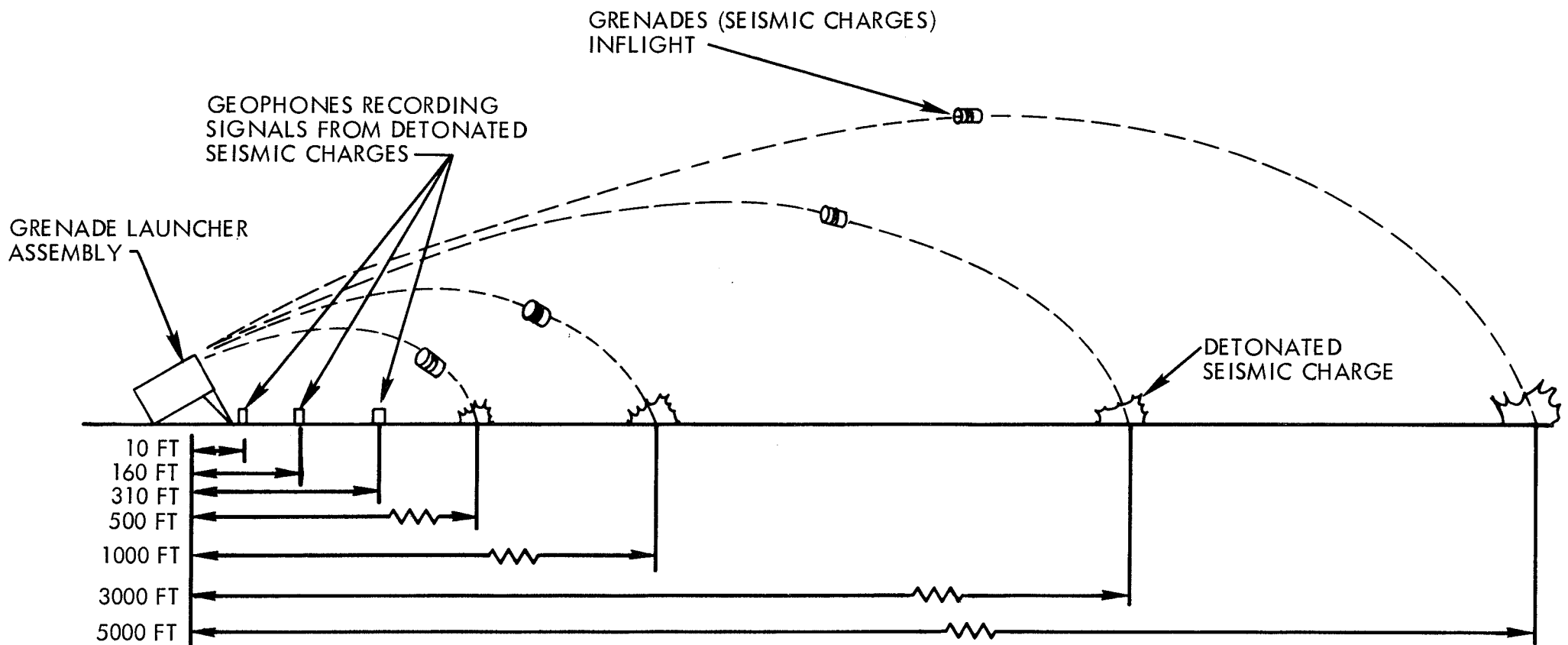
FOLDED

SCHEMATIC OF LUNAR SURFACE MAGNETOMETER EXPERIMENT (S-034)

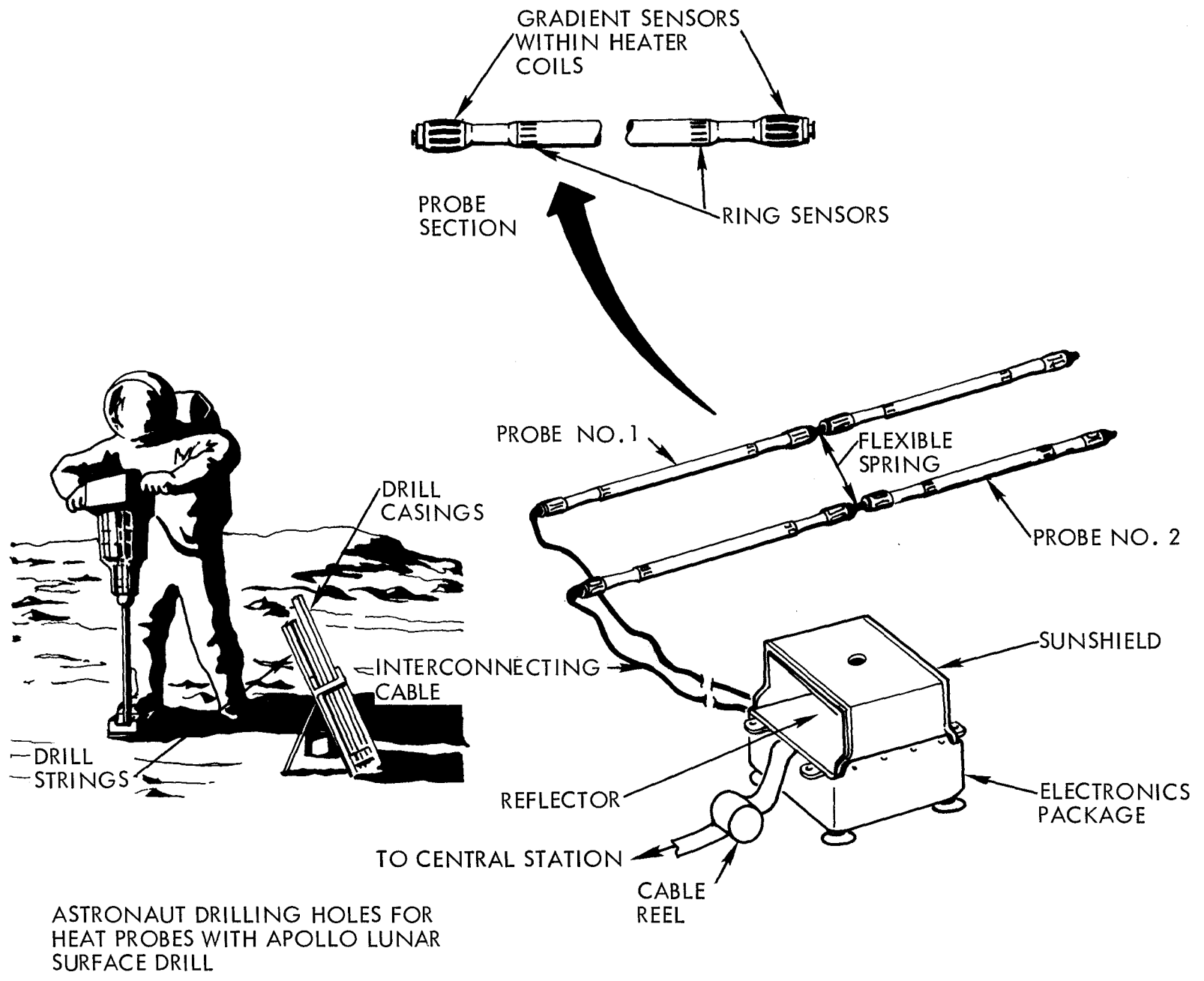


SCHEMATIC DESCRIPTION OF BASIC EQUIPMENT COMPRISING THE ACTIVE SEISMIC EXPERIMENT (S-033) (LESS ELECTRONICS)

- NOTES: (1) GRENADES TO BE ACTIVATED AT EARTH COMMAND NEARLY ONE YEAR AFTER EMBLACEMENT OF THE EXPERIMENT ON THE LUNAR SURFACE.
- (2) EXPERIMENT DESIGN PROVIDES FOR MEASUREMENT OF GRENADE LAUNCH ANGLE, GRENADE LAUNCH VELOCITY, AND TIME OF FLIGHT.

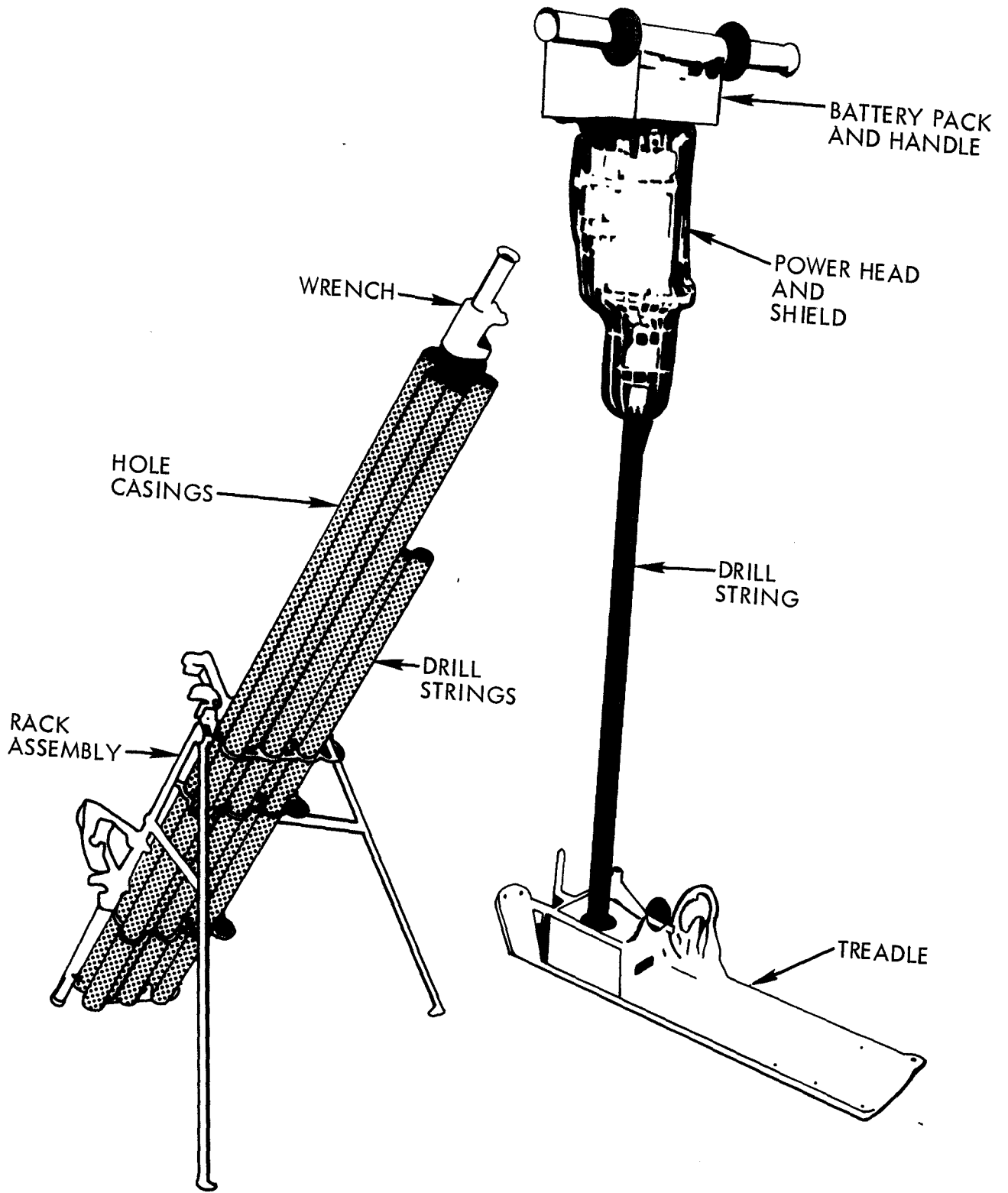


CONCEPT OF ACTIVE SEISMIC EXPERIMENT (S-033)

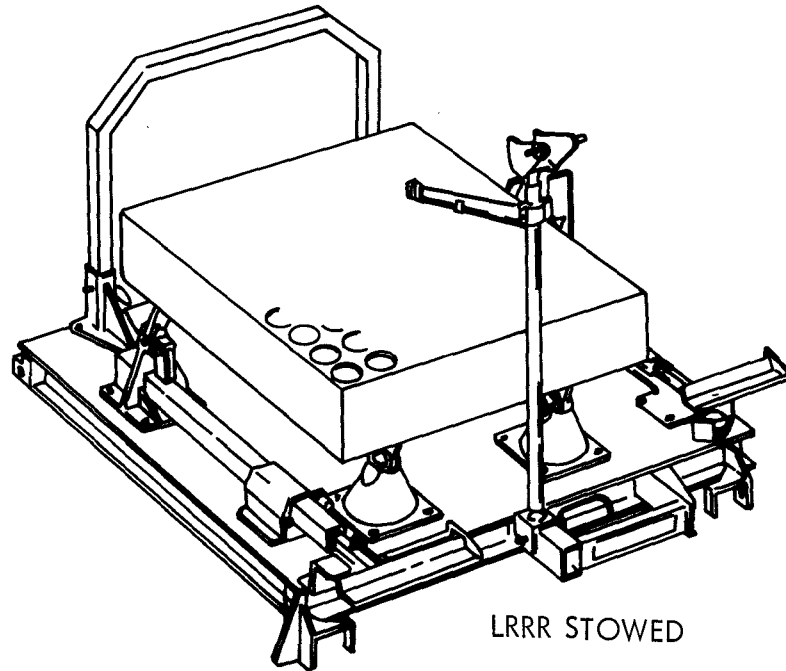


ASTRONAUT DRILLING HOLES FOR HEAT PROBES WITH APOLLO LUNAR SURFACE DRILL

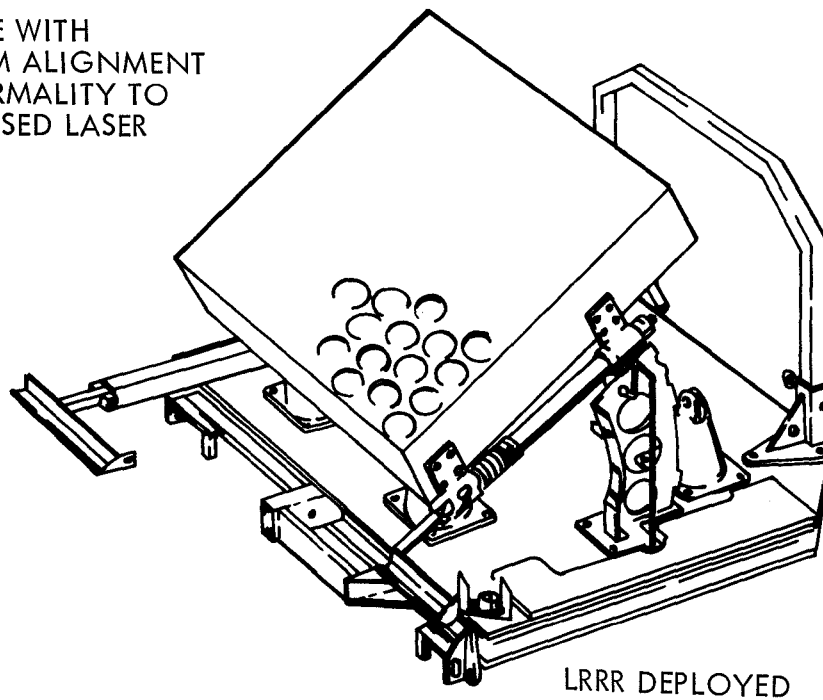
PICTORIAL PORTRAYAL OF HEAT FLOW EXPERIMENT AND SUPPORTING EQUIPMENT (APOLLO LUNAR SURFACE DRILL)



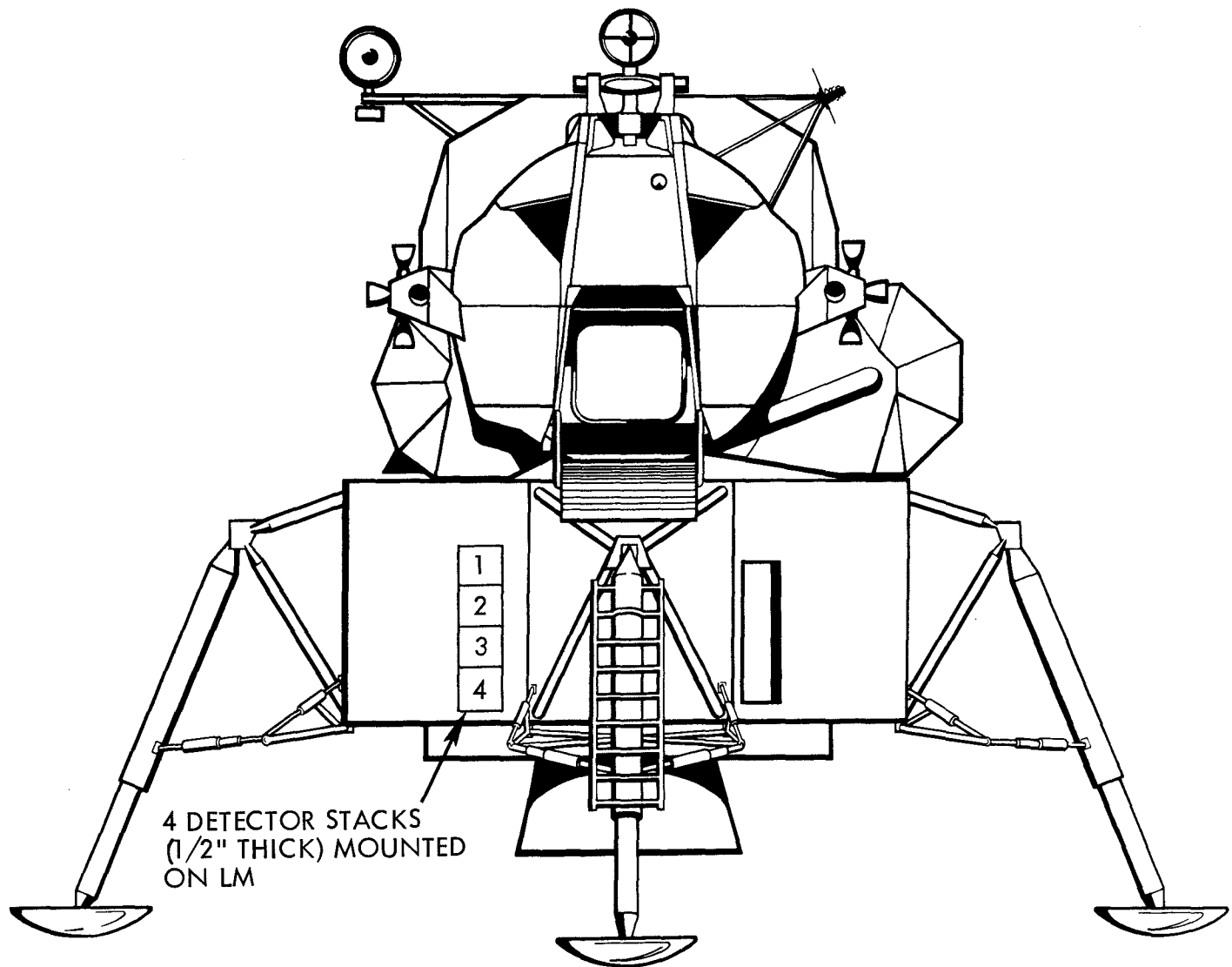
APOLLO LUNAR SURFACE DRILL (ALSD)



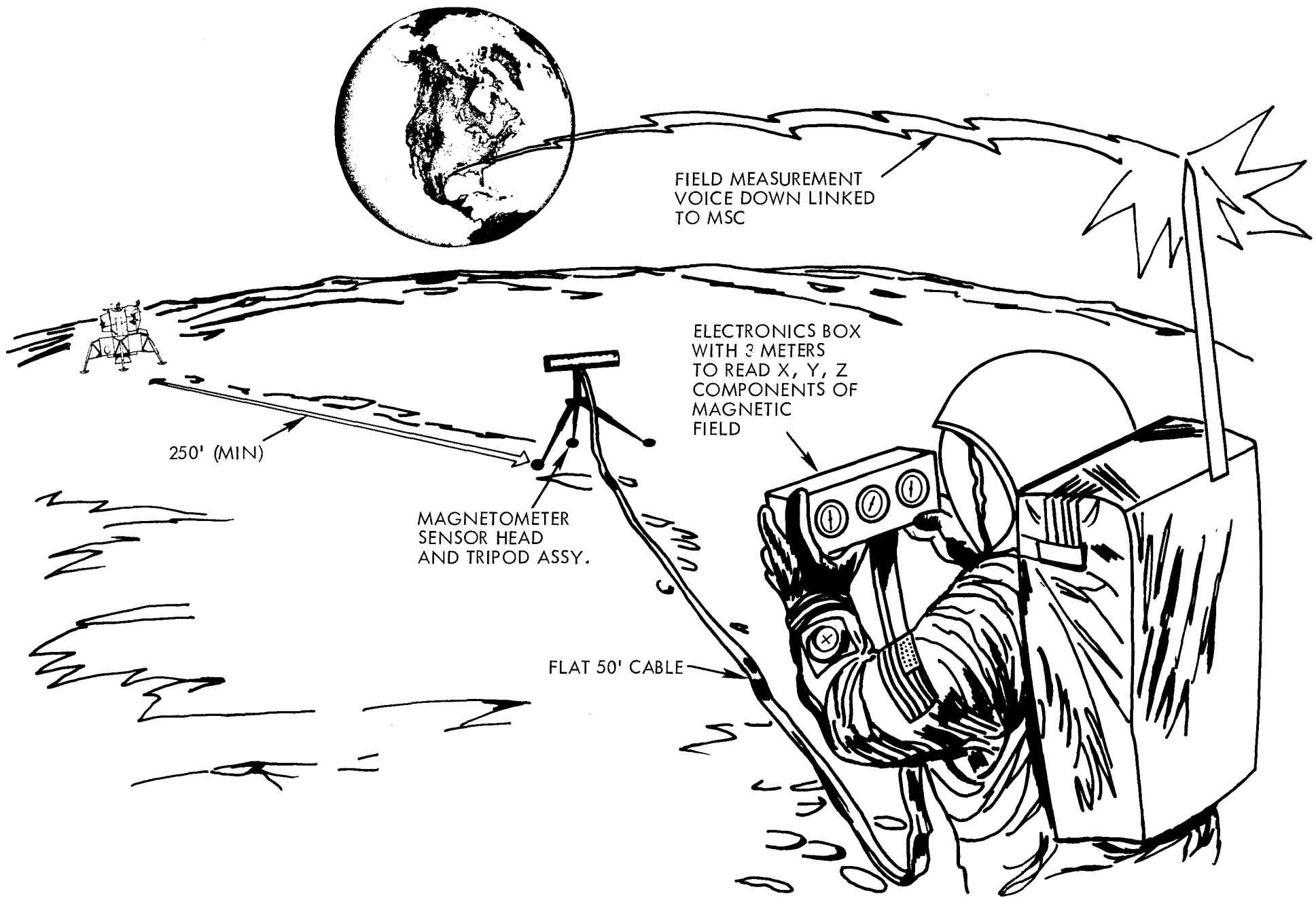
LRRR FACE WITH
MAXIMUM ALIGNMENT
AND NORMALITY TO
EARTH-BASED LASER
STATION



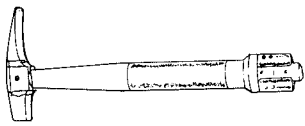
SCHEMATIC OF LASER RANGING RETRO-REFLECTOR EXPERIMENT (S-078)



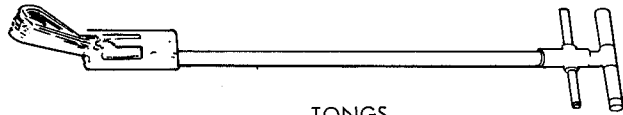
COMIC RAY DETECTORS (S-152) MOUNTED ON LM (CONCEPT ONLY
DEPICTED-EXACT LOCATION TO BE SPECIFIED BY GAC ICD)



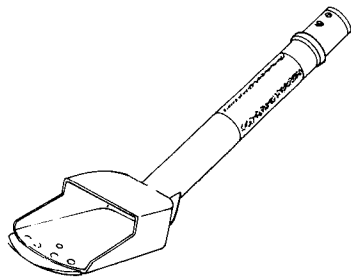
PICTORIAL REPRESENTATION OF LUNAR PORTABLE MAGNETOMETER EXPERIMENT (S-198)



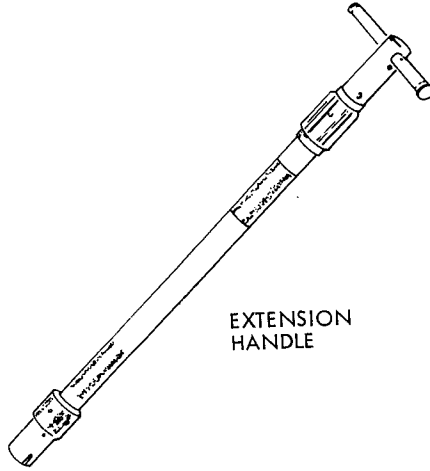
HAMMER



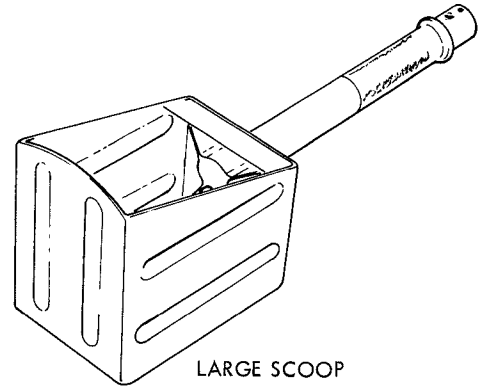
TONGS



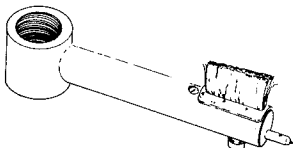
SMALL SCOOP



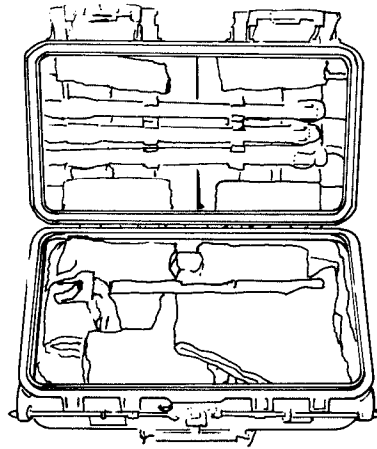
EXTENSION HANDLE



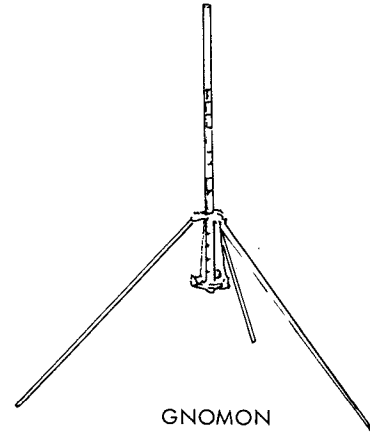
LARGE SCOOP



BRUSH/SCRIBE/LENS



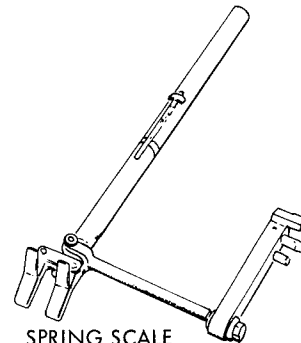
SAMPLE RETURN CONTAINER
(INCLUDING TOTE BAG AND SAMPLE BAGS)



GNOMON



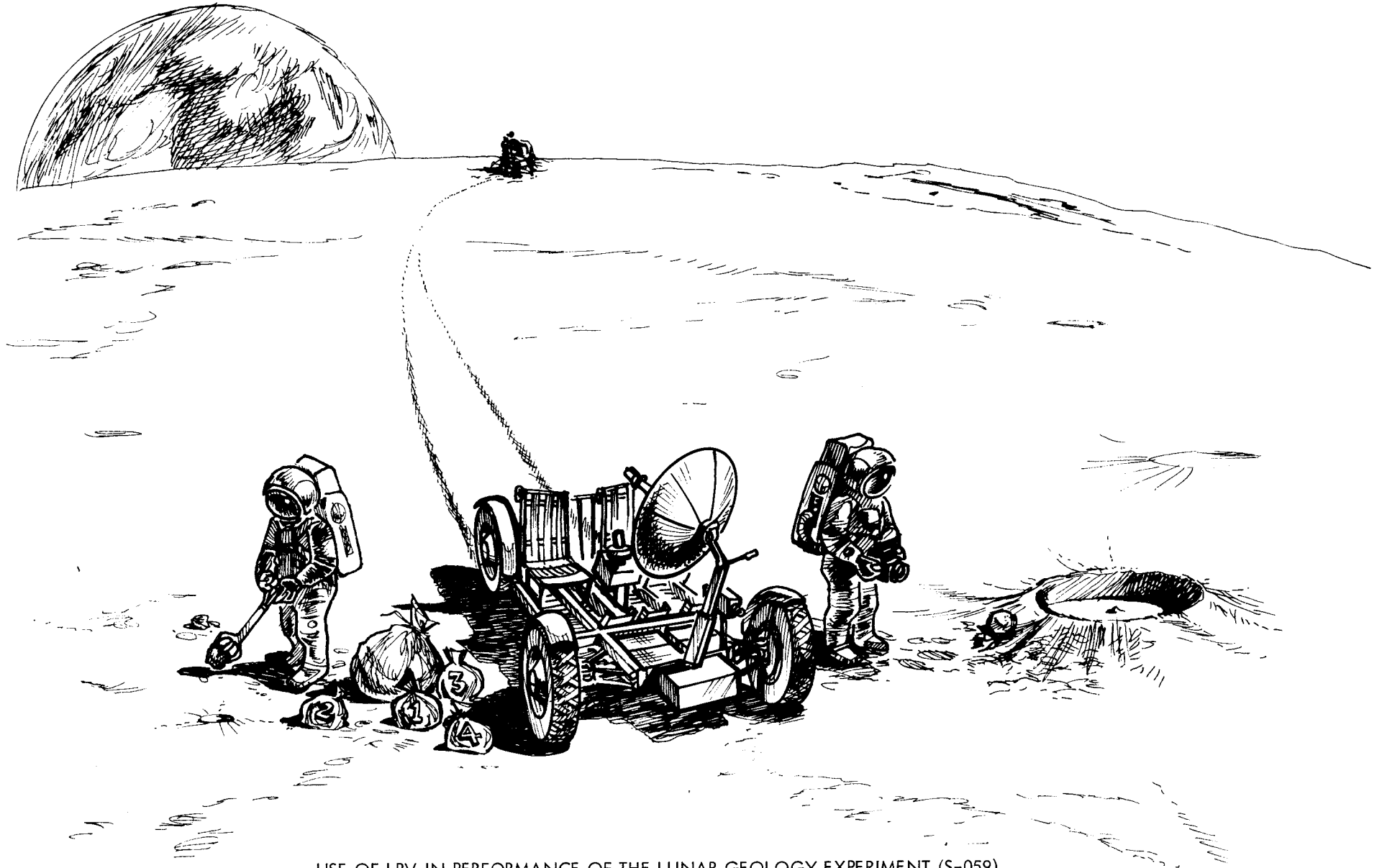
COLOR PATCH



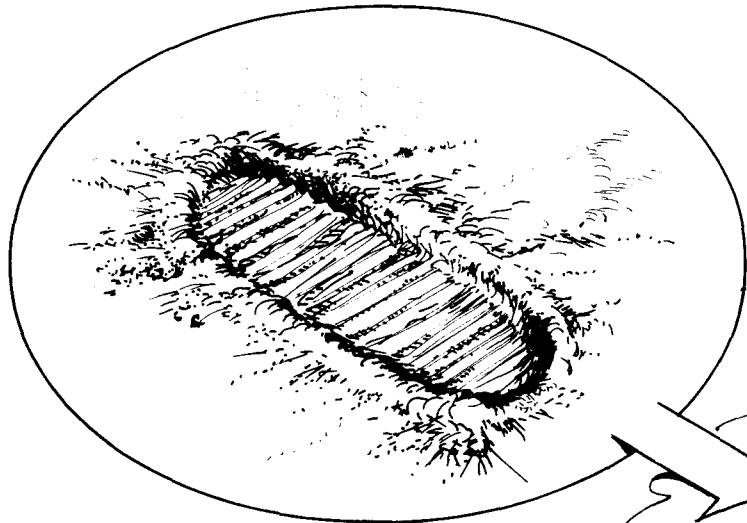
SPRING SCALE

NOTE: LUNAR GEOLOGICAL EXPLORATION CAMERA
AND LUNAR SURFACE CLOSE-UP STEREO CAMERA
ARE PRIME DOCUMENTATION EQUIPMENT AS WELL.

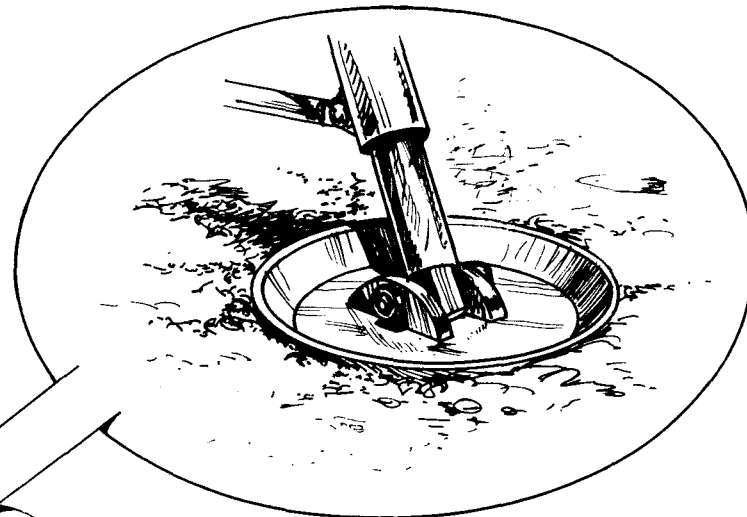
MAJOR EQUIPMENT USED IN PERFORMANCE OF THE LUNAR GEOLOGY INVESTIGATION EXPERIMENT (S-059)



USE OF LRV IN PERFORMANCE OF THE LUNAR GEOLOGY EXPERIMENT (S-059)

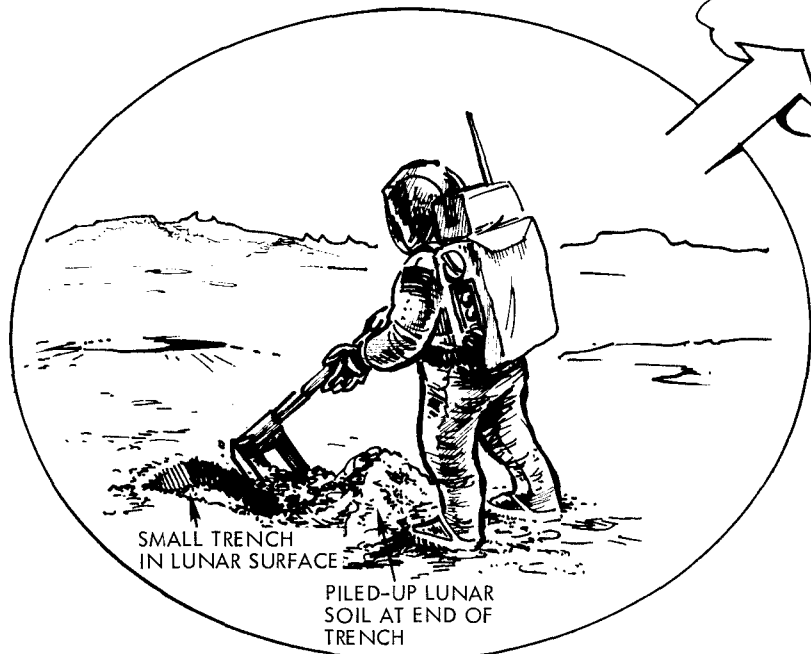


DEPTH OF PENETRATION AND CHARACTERISTICS INDICATED FROM PHOTOGRAPHS OF ASTRONAUT FOOT PRINTS LEFT IN LUNAR SOIL



DEPTH OF PENETRATION AND CHARACTERISTICS INDICATED FROM PHOTOGRAPHS OF LM LANDING PAD IMPRESSIONS MADE IN LUNAR SOIL

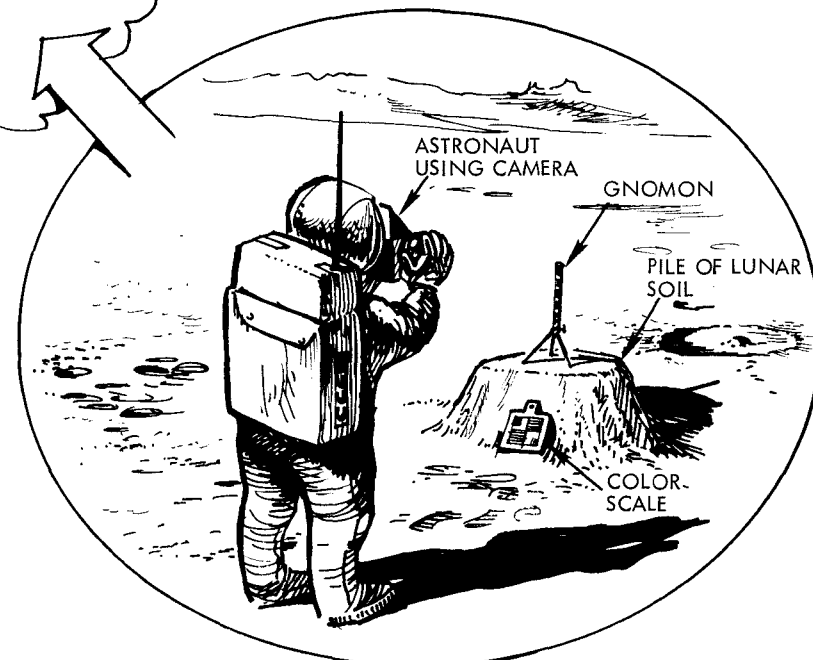
DATA



SMALL TRENCH IN LUNAR SURFACE

PILED-UP LUNAR SOIL AT END OF TRENCH

COMMENTS FROM ASTRONAUTS CONCERNING EASE OR DIFFICULTY IN USING TOOLS FOR GEOLOGY AND OTHER TASKS INCLUDING ADHESION OF SOIL TO TOOLS, EASE OF "DIGGING", ETC.



ASTRONAUT USING CAMERA

GNOMON

PILE OF LUNAR SOIL

COLOR SCALE

COMMENTS AND PHOTOGRAPHS MADE BY ASTRONAUTS CONCERNING SOIL, CONSISTENCY, COLOR, FINENESS, ETC.