Apollo 13: Abort

HONR 269i

To the Moon and Back: The Apollo Program

Early Apollo Crew Planning

Apollo 7 (C) CDR: Schirra CMP: Eisele LMP: Cunningham

Apollo 8 (D) CDR: McDivitt CMP: Scott LMP: Schweickart ⇒ Apollo 9 (E) CDR: Borman CMP: Collins √ LMP: Anders

Apollo 10 (F) CDR: Stafford CMP: Young LMP: Cernan Apollo 11 (G) \rightarrow Apollo 12 (H)CDR: ConradCDR: ArmstrongCMP: Gordon \rightarrow CMP: LovellLMP: Williams \uparrow \uparrow \uparrow BeanHaise

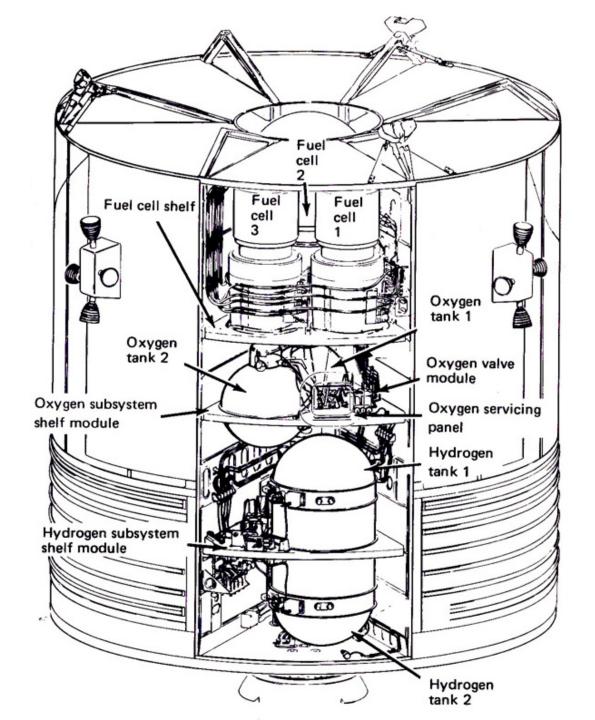
The Apollo 13 and 14 Crews

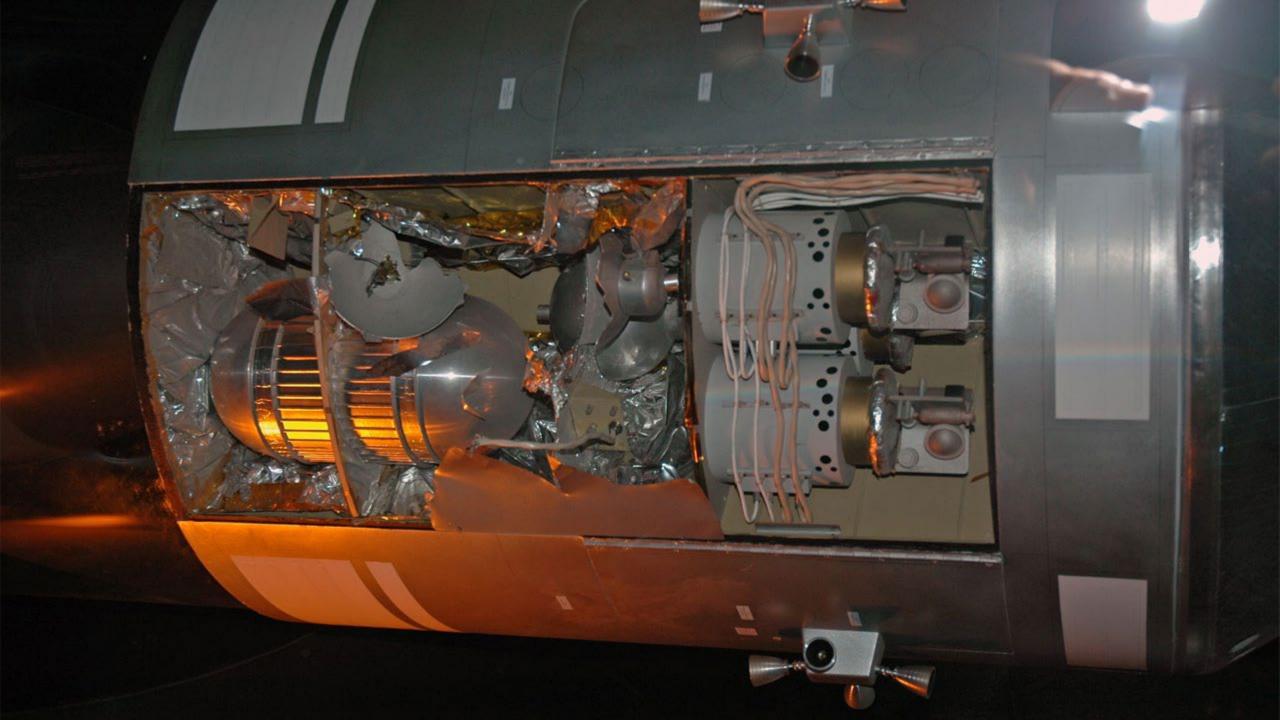
Apollo 7	Apollo 10 Backup	Apollo 13	Apollo 14
CDR: Schirra	CDR: Cooper	CDR: Shepard	CDR: Shepard
CMP: Eisele	CMP: Eisele	CMP: Roosa	CMP: Roosa
LMP: Cunningham	LMP: Mitchell (Schirra says no)	LMP: Mitchell (McDivitt says no)	LMP: Mitchell

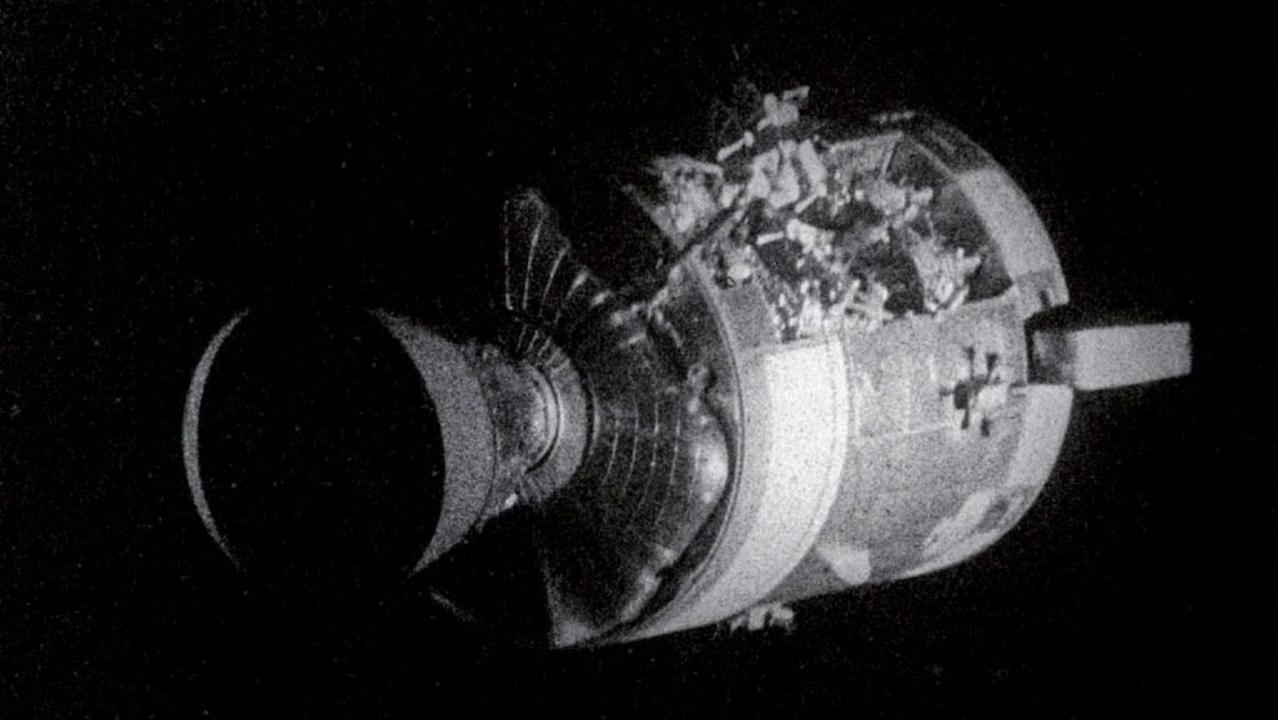
Apollo 9	Apollo 8	Apollo 11 Backup	Apollo 14	Apollo 13	Apollo 13
CDR: Borman	CDR: Borman	CDR: Lovell	CDR: Lovell	CDR: Lovell	CDR: Lovell
CMP: Collins	CMP: Lovell	CMP: Anders	CMP: Mattingly	CMP: Mattingly	CMP: Swigert
LMP: Anders	LMP: Anders	LMP: Haise	LMP: Haise	LMP: Haise	LMP: Haise
		(Borman says no)			

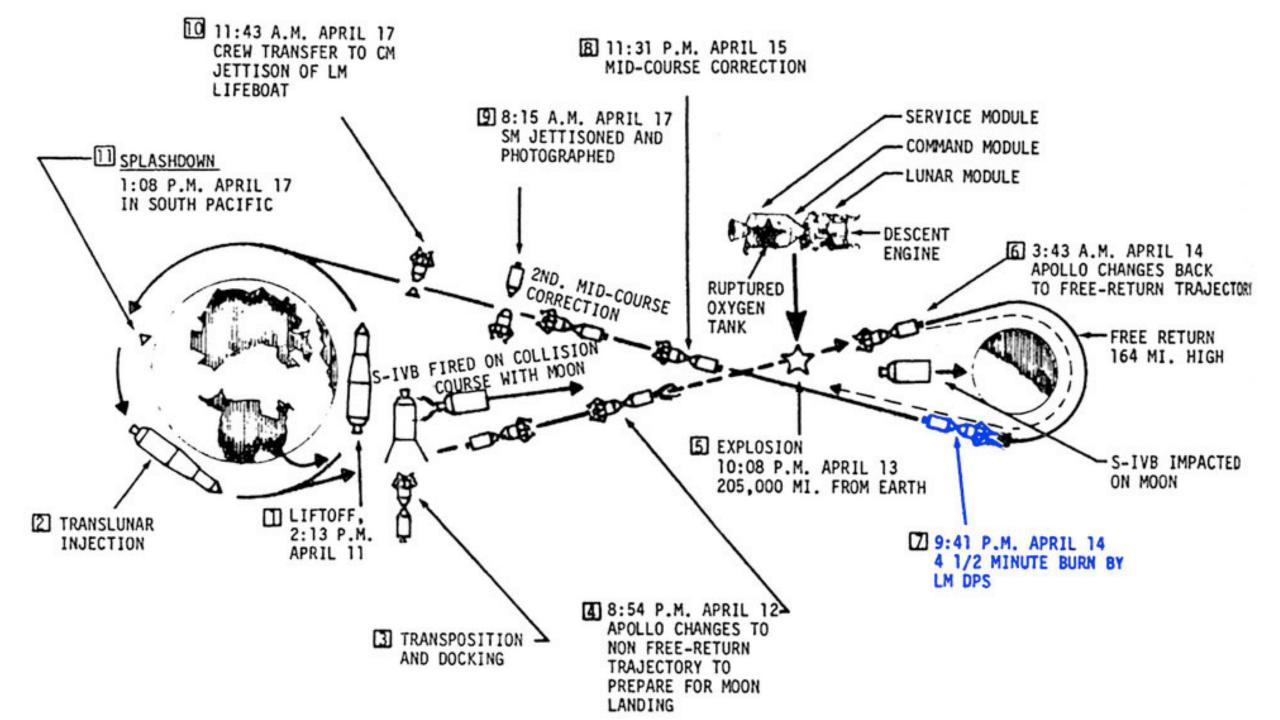


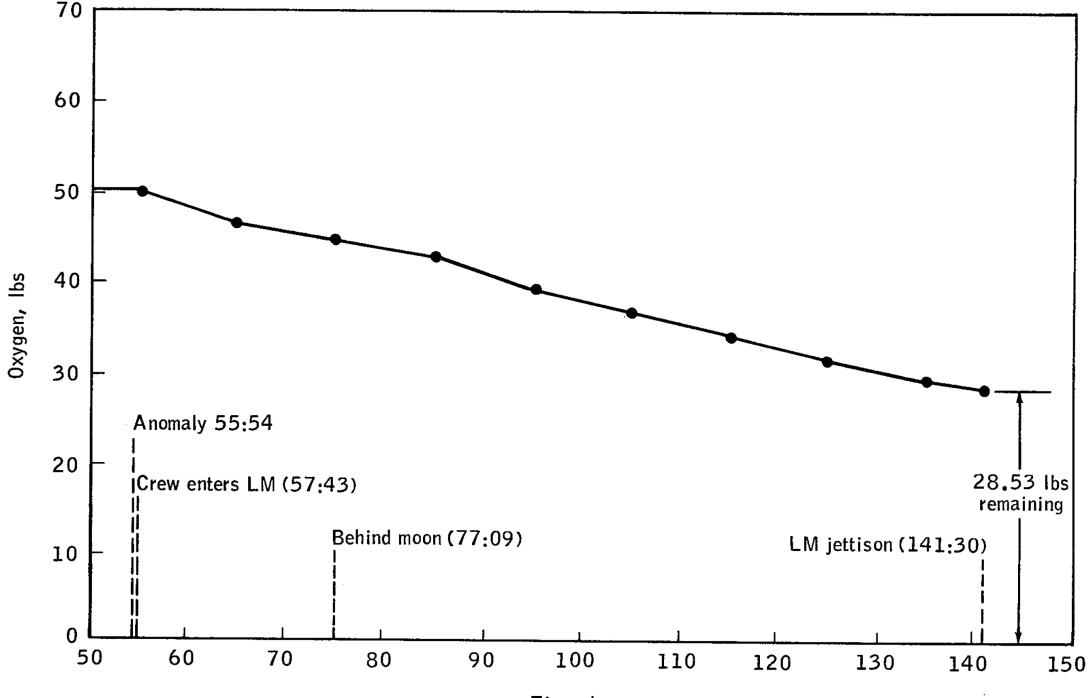




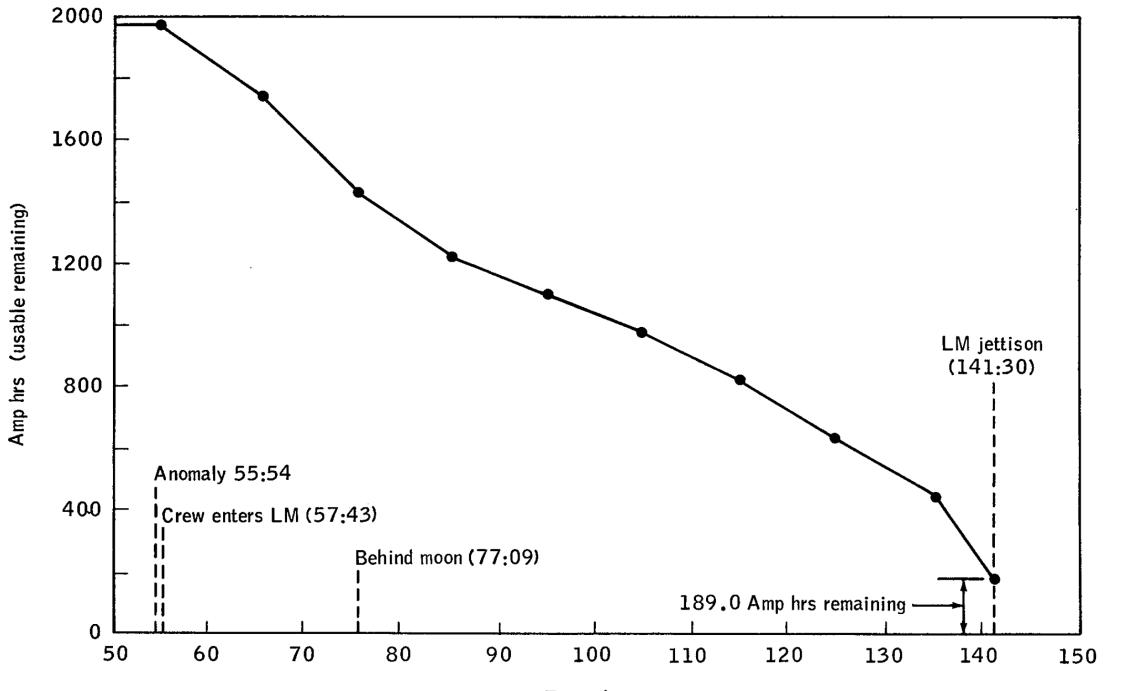




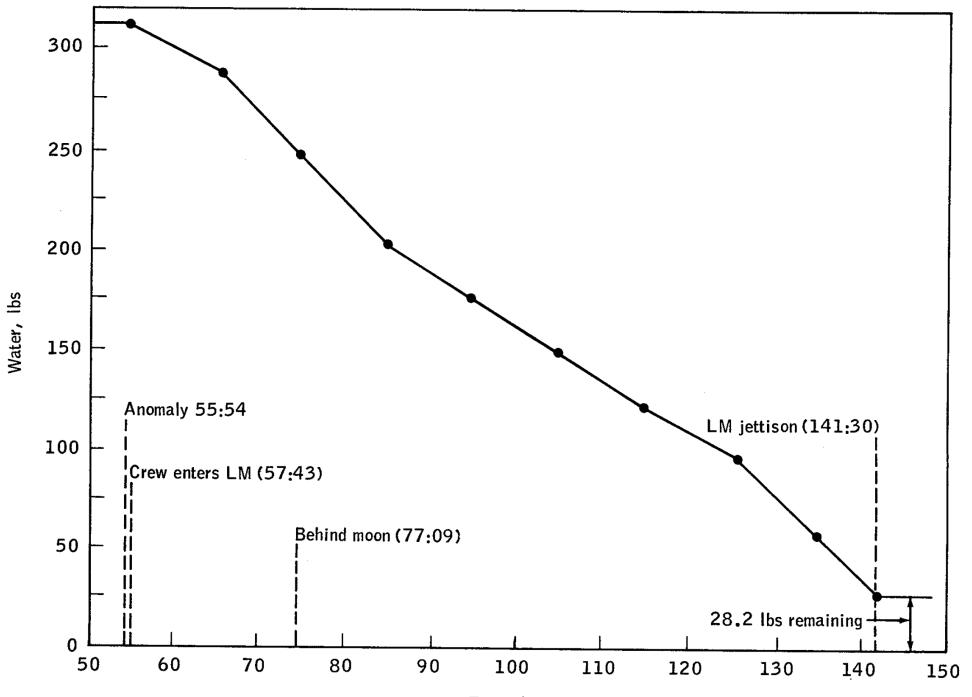




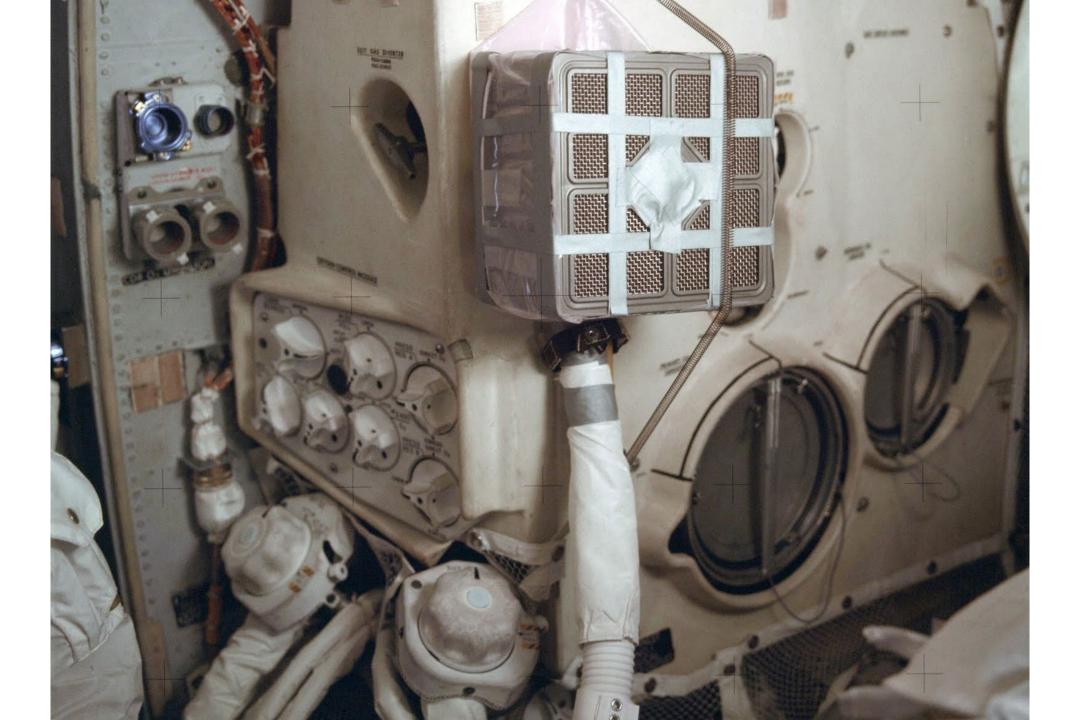
Time, hours



Time, hours



Time, hours



- #1) Place the LCG bag over the top of the square lithium-hydroxide canister. The bag must be pulled down to just over the triangular ventilator slots on the side. NOTE: Be careful not to rip the bag because there are only three bags onboard.
- #2) Tear the duct tape down the middle lengthwise to double the linear length.
- #3) Seal the bag to the square canister by wrapping the duct tape around the canister where the bag opening is. NOTE: The tape must seal the opening to prevent leakage of air flow.
- #4) Poke or cut a hole in the middle of the top of the covering bag approximately the diameter of the hose from the red suit.
- #5) Insert the hose into the hole. Secure the hose connection into the LCG bag with duct tape. NOTE: The tape must seal the opening to prevent leakage of air flow.
- #6) Cover the top of the LCG bag and hose attachment with the flight plan cover in an arch. The hose will stick out of one side of the arch.
- #7) Attach the two sides of the cardboard flight plan cover that make contact with the square filter using a six inch long piece of duct tape over the top. This will prevent crushing the hose and air entry on the final mounting in step #19.
- #8) Wrap the entire top sides of the filter cube with a three foot (about an arms length) piece of duct tape. Repeat wrapping on the bottom of the sides of the cube. NOTE: The tape must seal the opening to prevent leakage of air flow.
- #9) Secure the bag with strips of duct tape two per side running from one side, under the bottom and back up the other side. Repeat on the other side. The bottom of the cube will resemble a tic tac toe board when this step is completed.
- #10) Stuff the sock into the ventration hole in the center of the square scrubber. This will prevent the air from bypassing the filter. Cover the hole with a couple of pieces of tape to keep it from falling out.
- #11) Repeat steps #3 through #10 for the second canister. This will be the replacement when the first filter becomes saturated.
- #12) Open the sensor relief valve. This will normalize the pressure and allow you to attach the hose to the intake valve.
- #13) Attach the free end of the hose to the scrubber intake.
- #14) Attach the end of the bungee cord to the hook above the lithium canister mounting location on the bulkhead.
- #15) Secure the canister to the bulkhead by hooking the other end of the bungee cord below the mounting location.
- #16) Attach the crossover hose to the secondary air cleaner.
- #17) Close the sensor relief valve opened in step 12.
- #18) Set the CO2 select to secondary using the LM air cleaner selection switch on panel eleven.
- #19) Engage the air cleaning scrubber fan by flipping the ACSF switch located on panel eleven.

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Discussion Groups

- Apollo 13 Review Board Report
 - The reconstruction of what happened
- Chaikin Chapter 7
 - The astronaut's view of Apollo 13
- Cox Chapter 27
 - The initial response from Mission Control
- Apollo 13 movie
 - A unified dramatization of the events