



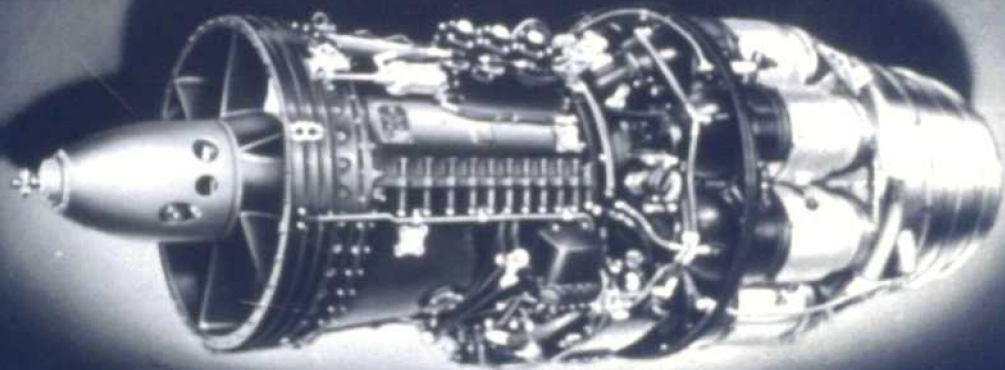
A
ROLLS - ROYCE
Instructional Strip-Film



MAINTENANCE OF THE

AVON 1

TURBO JET AERO-ENGINE



PREPARED UNDER THE TECHNICAL DIRECTION OF THE ROLLS-ROYCE AERO-ENGINE SCHOOL, DERBY, ENGLAND.

Engine Removal

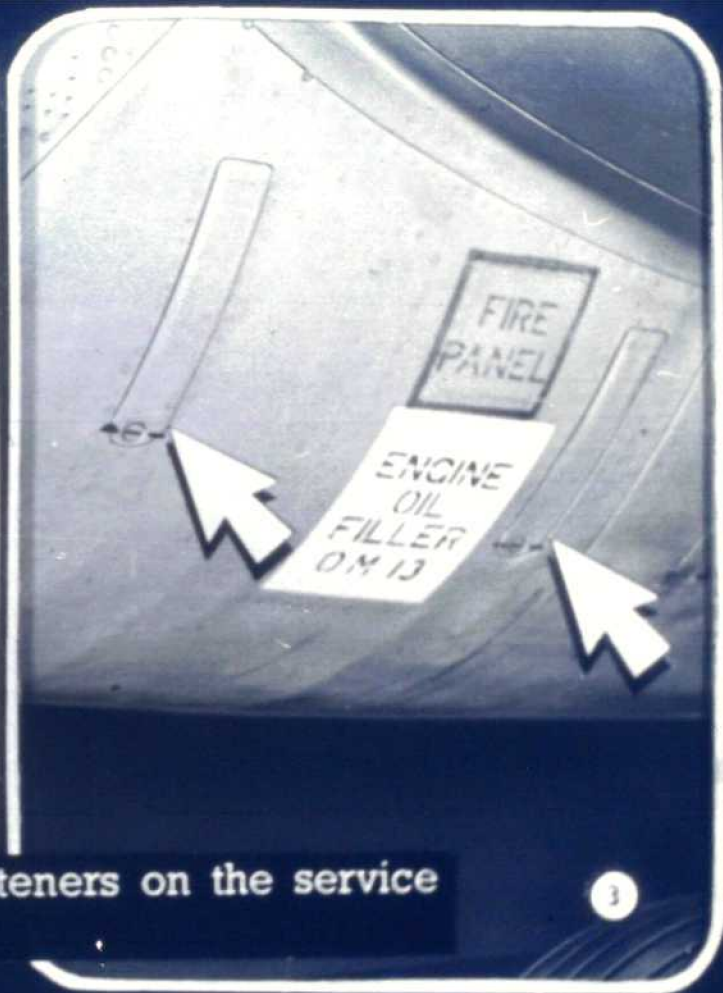
Canberra Aircraft.

A1D

14-J-247

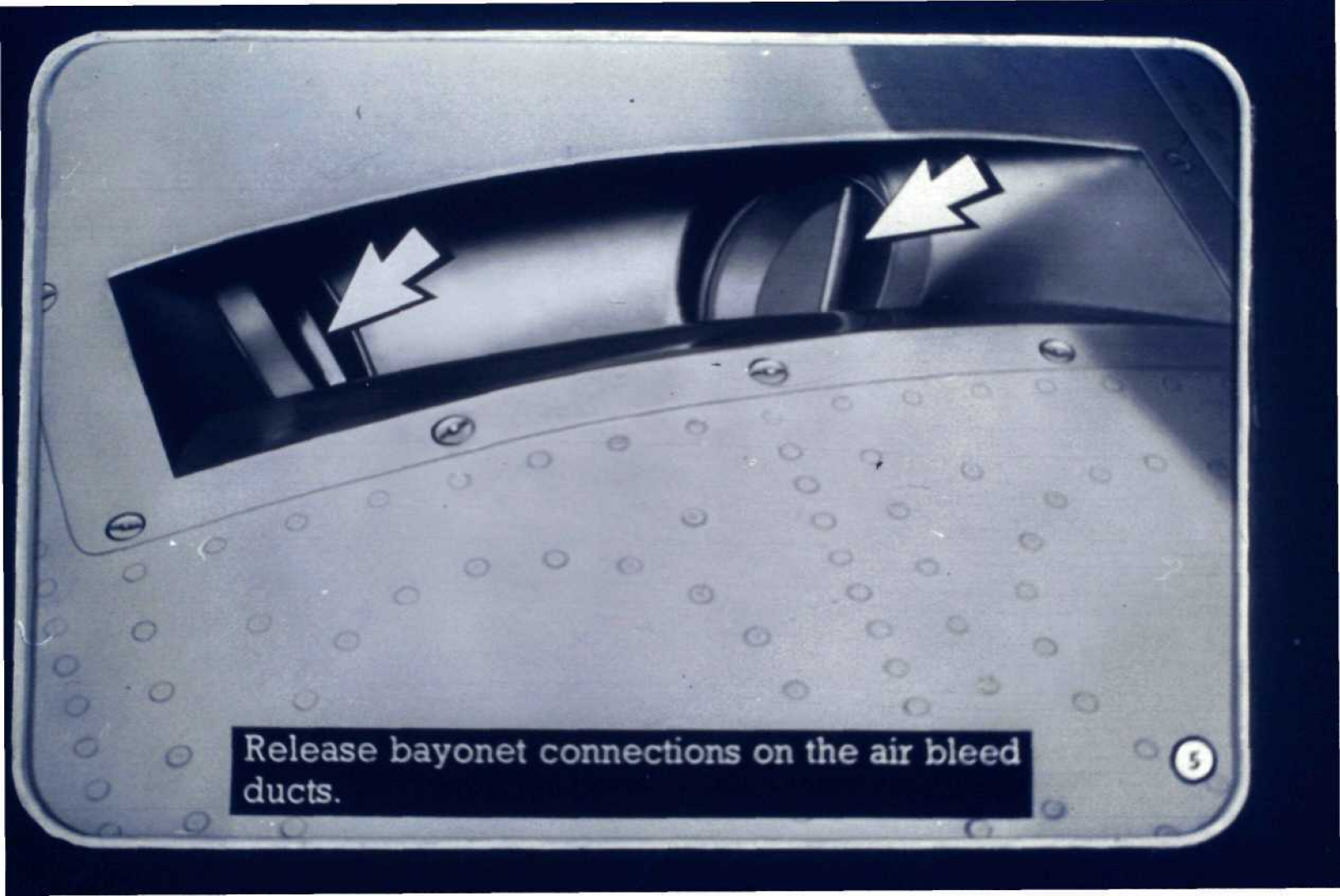


Release four toggle fasteners on the service panel :—



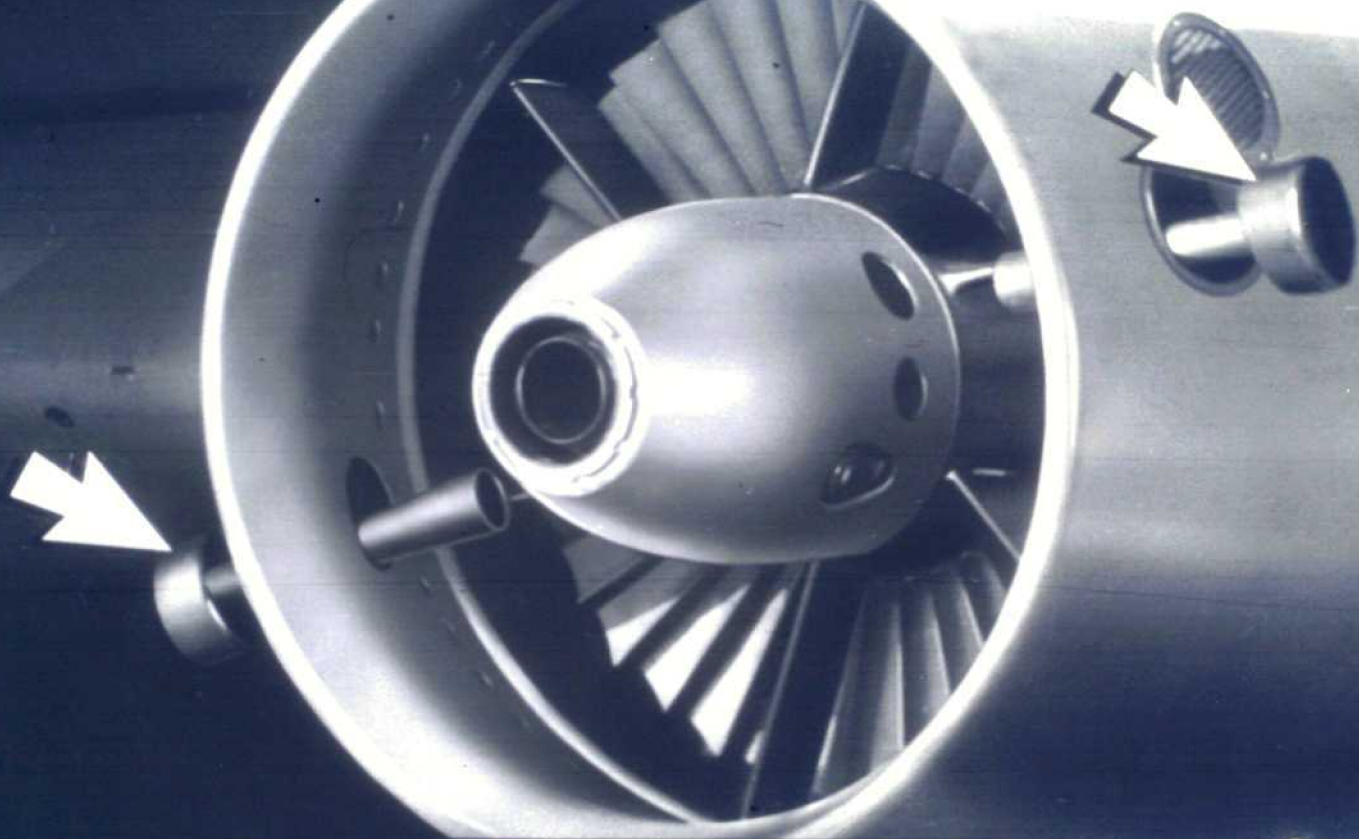


—and remove panel.



Release bayonet connections on the air bleed ducts.

5



Remove turbo starter exhaust ducts.

6



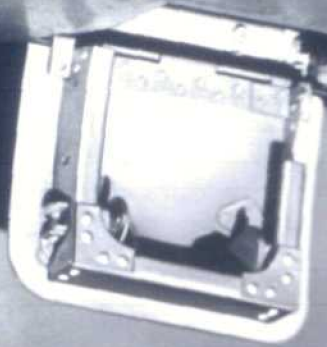
Remove 41 quarter B.S.F. front cowling screws.

7

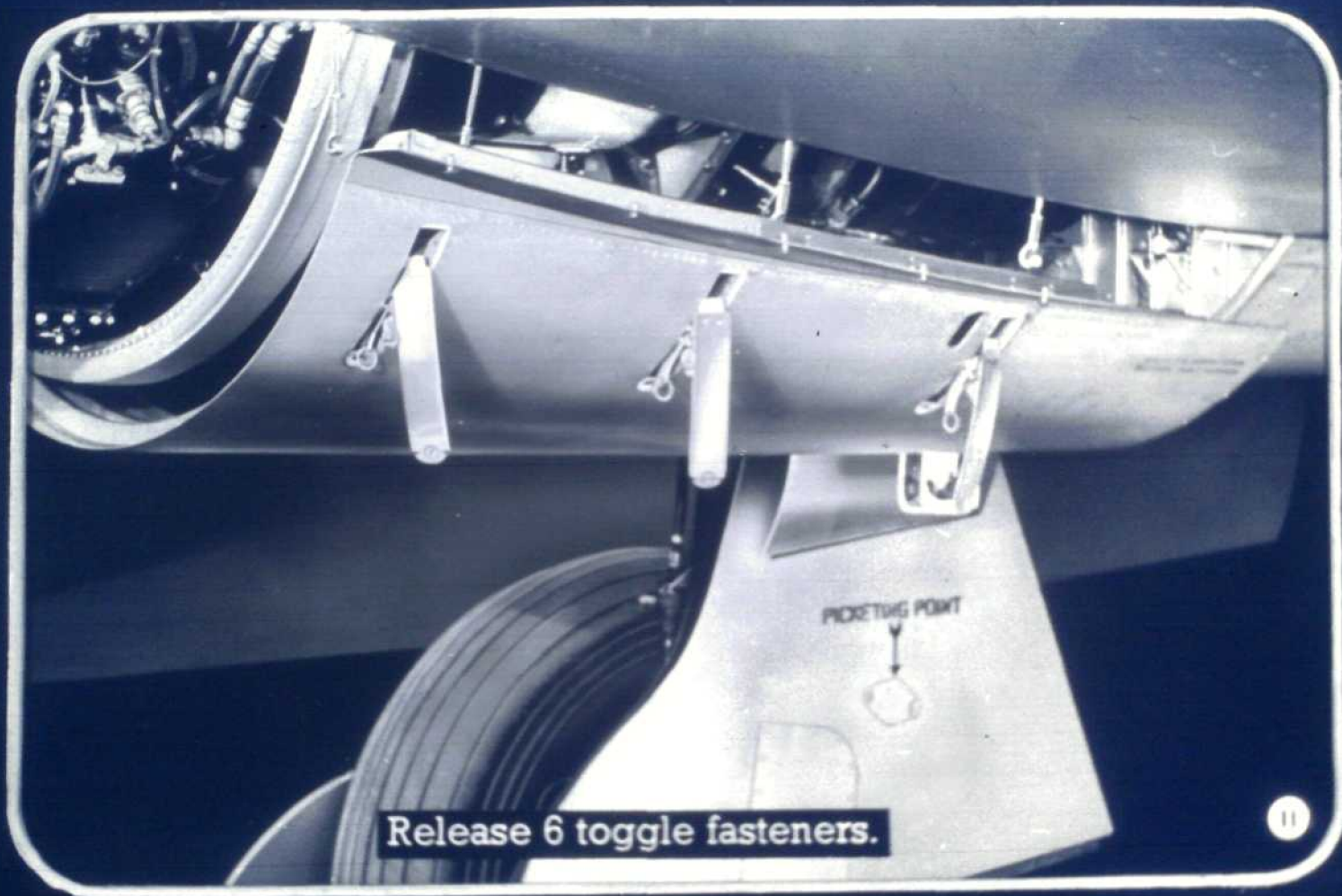
SLINGING OK BRIDGE
02/103 SHT 5 INSIDE

Remove the top rear cowling by releasing the 8 toggle fasteners and 10 Dzus fasteners.

**WALKING
POINT
INSIDE**



On the bottom rear cowling disconnect the cowling flap linkage, ten Dzus fasteners, eight two B.A. screws and two $\frac{1}{4}$ " B.S.F. screws.



Release 6 toggle fasteners.



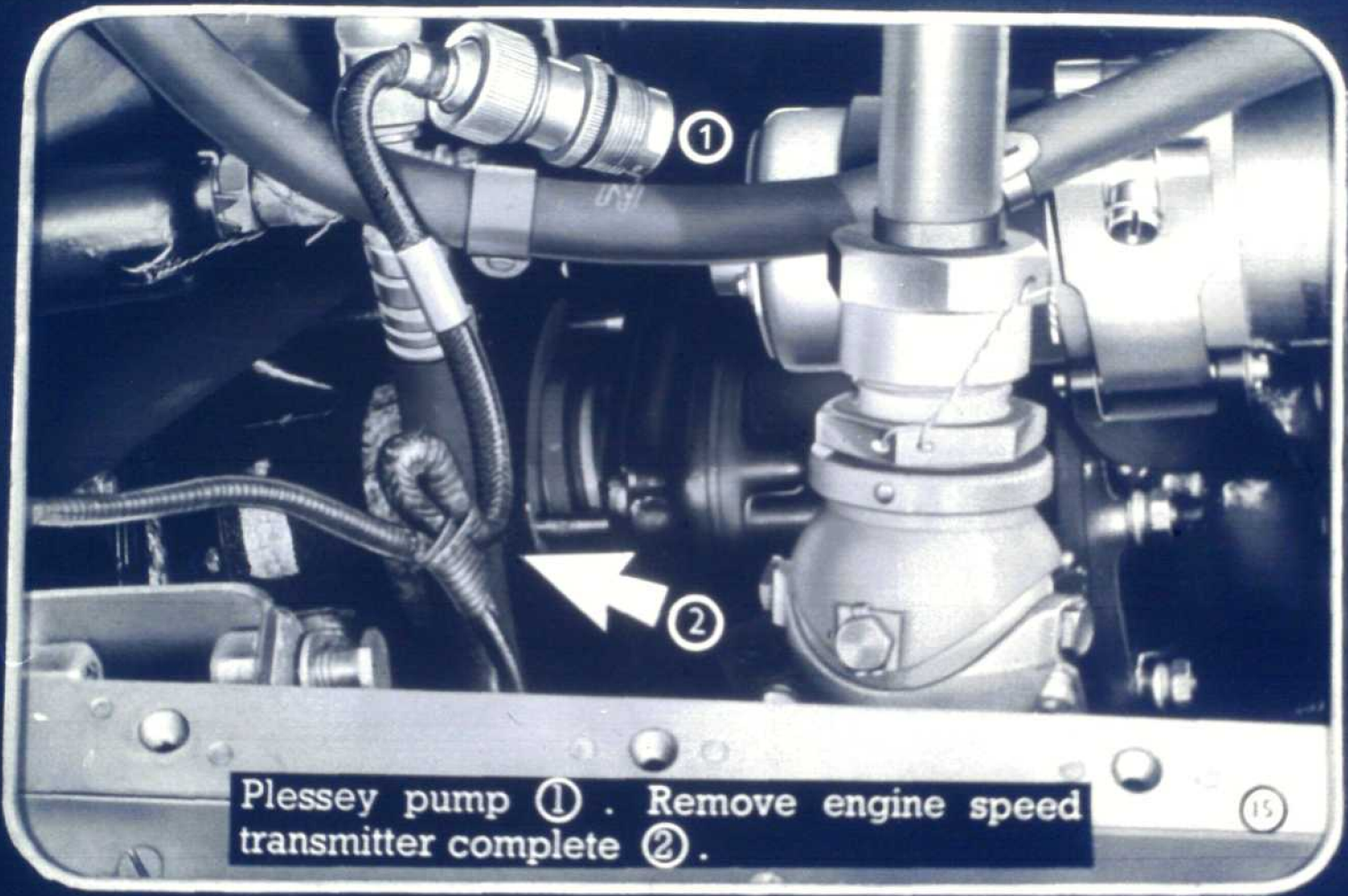
Release and remove the upper cowling hoop.

TRIDGE
GUIDE

**Disconnect the electrical wiring to the
following :—**



—the torch igniter assembly, port and starboard.



Plessey pump ① . Remove engine speed transmitter complete ② .

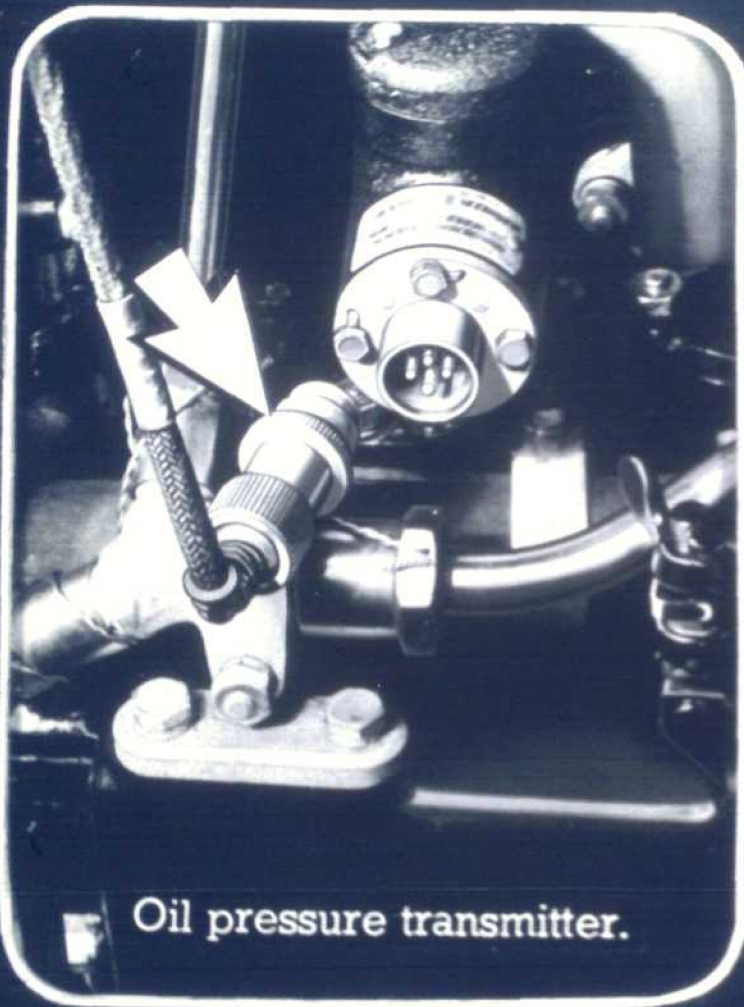


SOLENOID

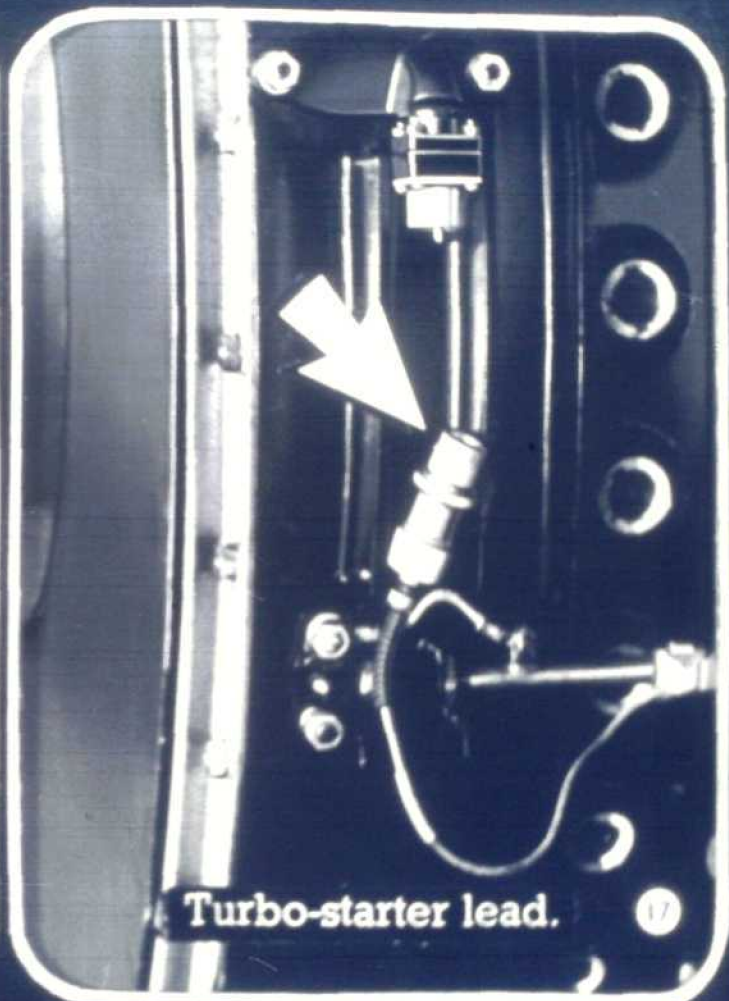
L.P. SWITCH

Fuel pump solenoid. Remove L.P. fuel warning switch, complete.

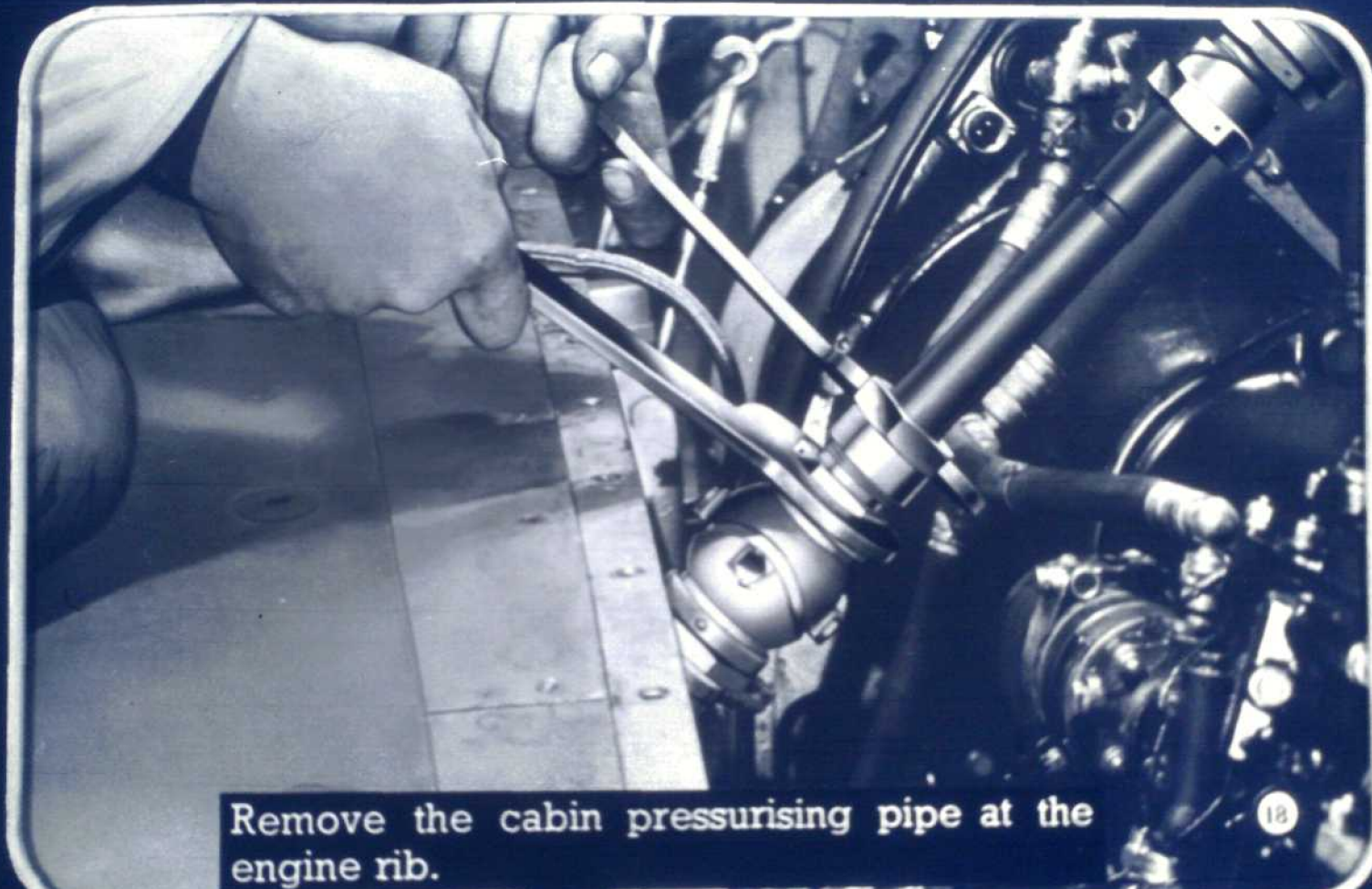
16



Oil pressure transmitter.

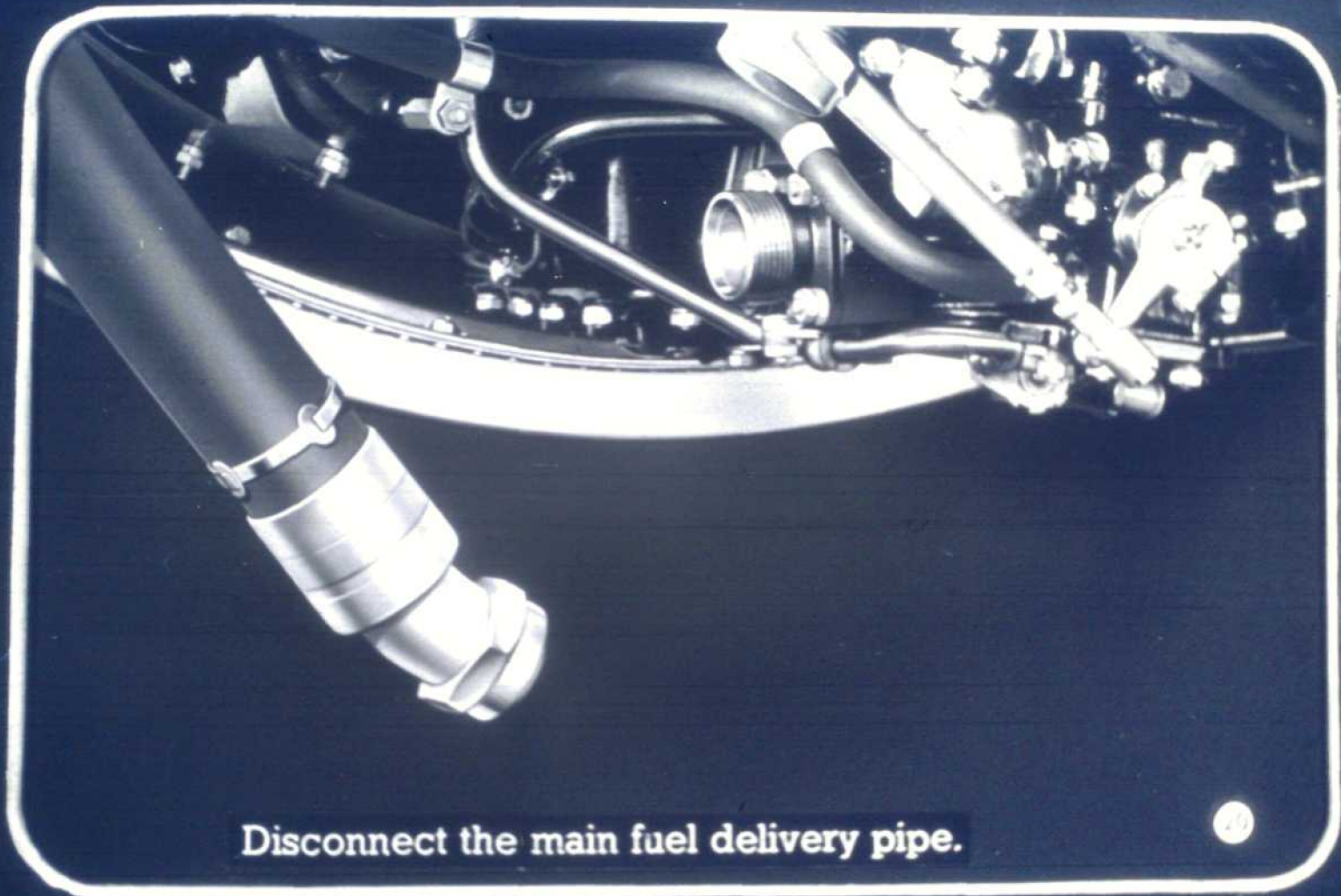


Turbo-starter lead.

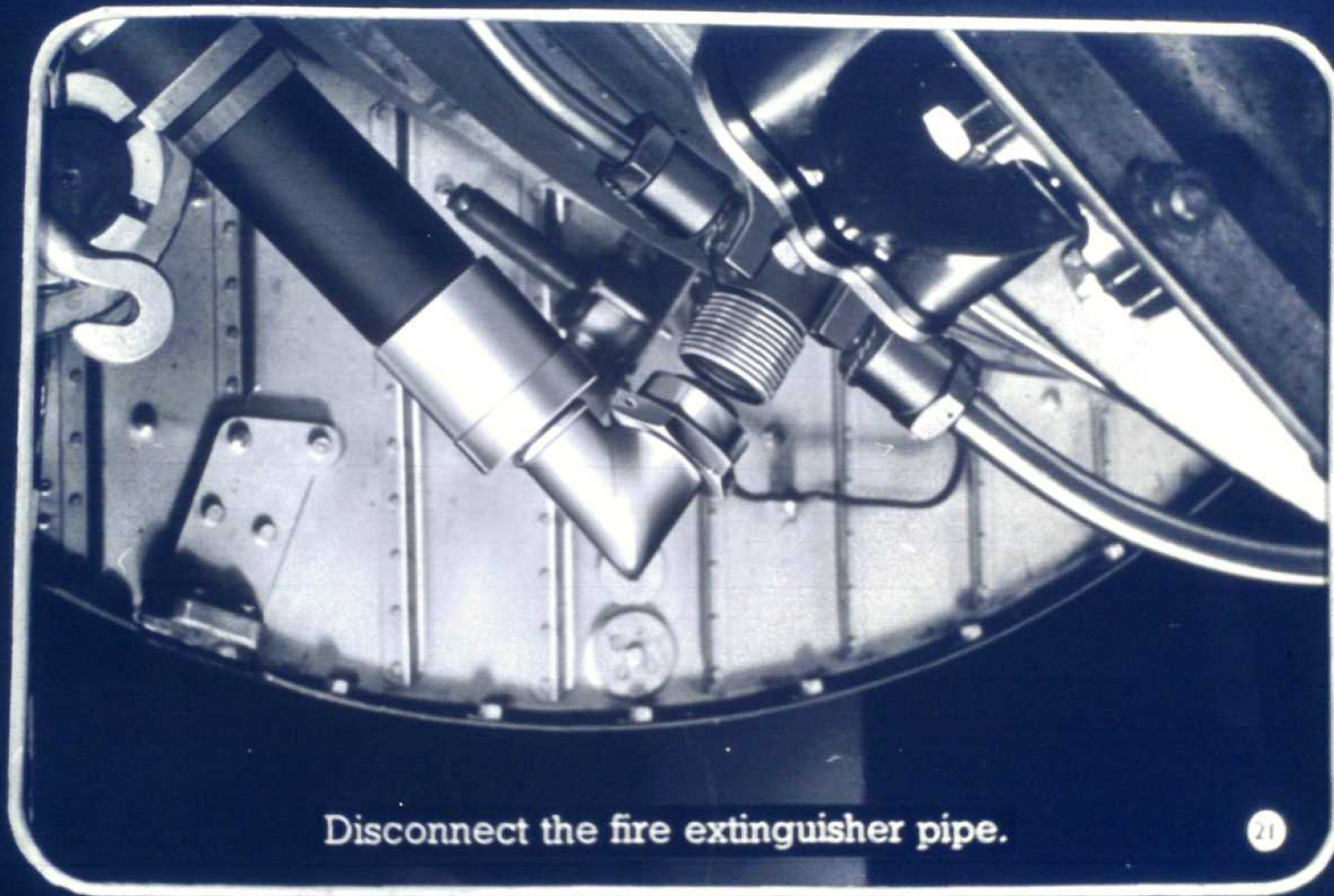


Remove the cabin pressurising pipe at the engine rib.

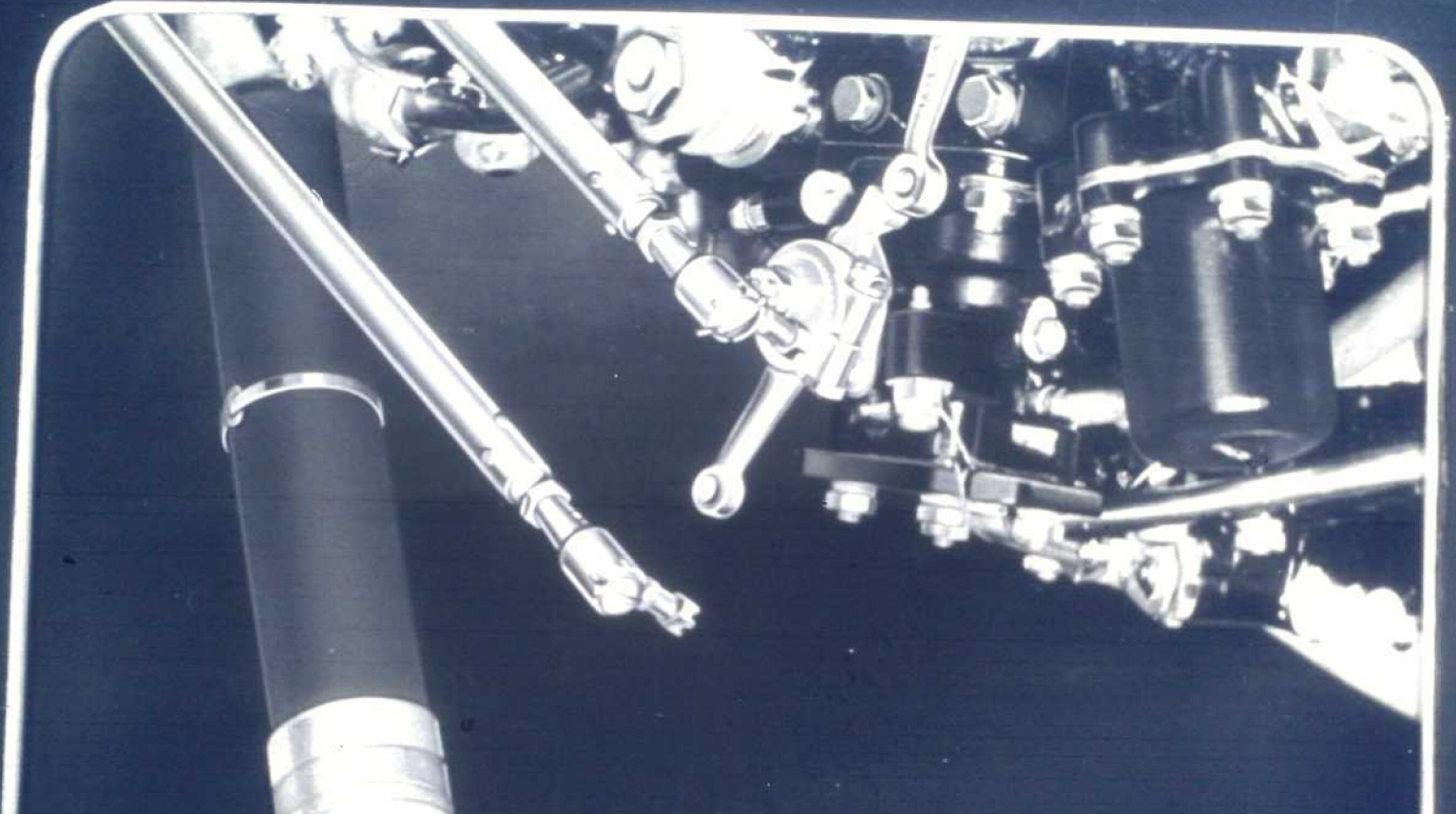
Drain the fuel from the L.P. filter.



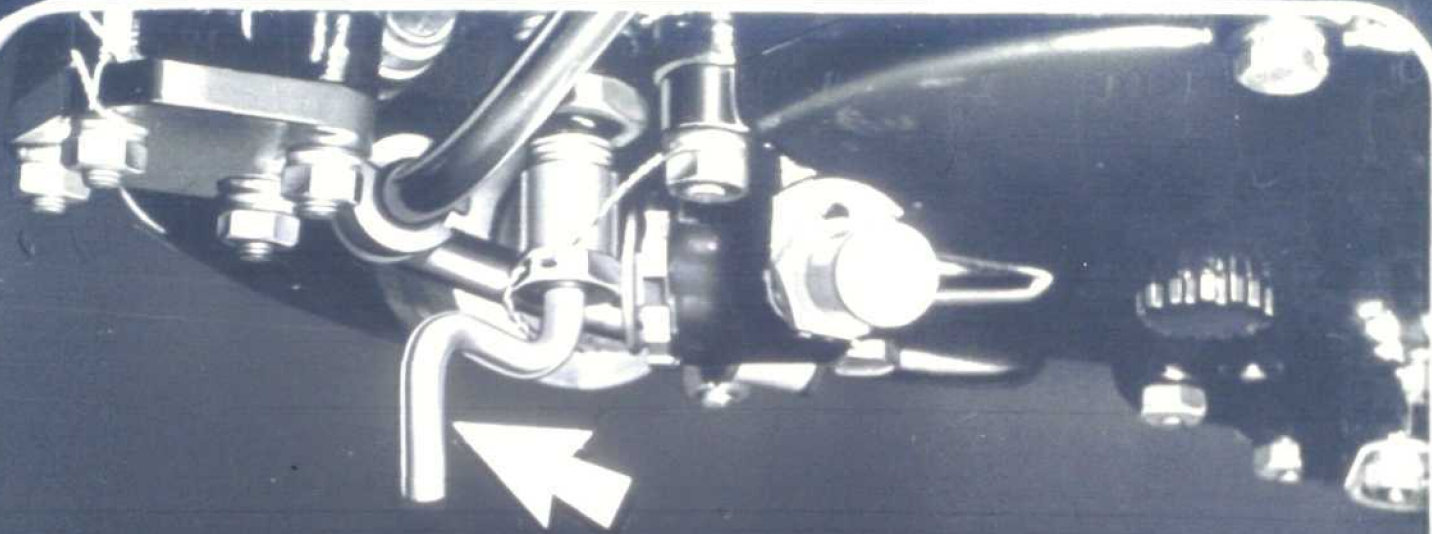
Disconnect the main fuel delivery pipe.



Disconnect the fire extinguisher pipe.



Disconnect the throttle and H.P. fuel cock controls.




Detach H.P. cock drain pipe and retain for replacement engine.



Disconnect the accessory gearbox drive.




Remove the fuel tank pressurising pipes and retain rigid portion for replacement engine.




Release and remove the heat shield.



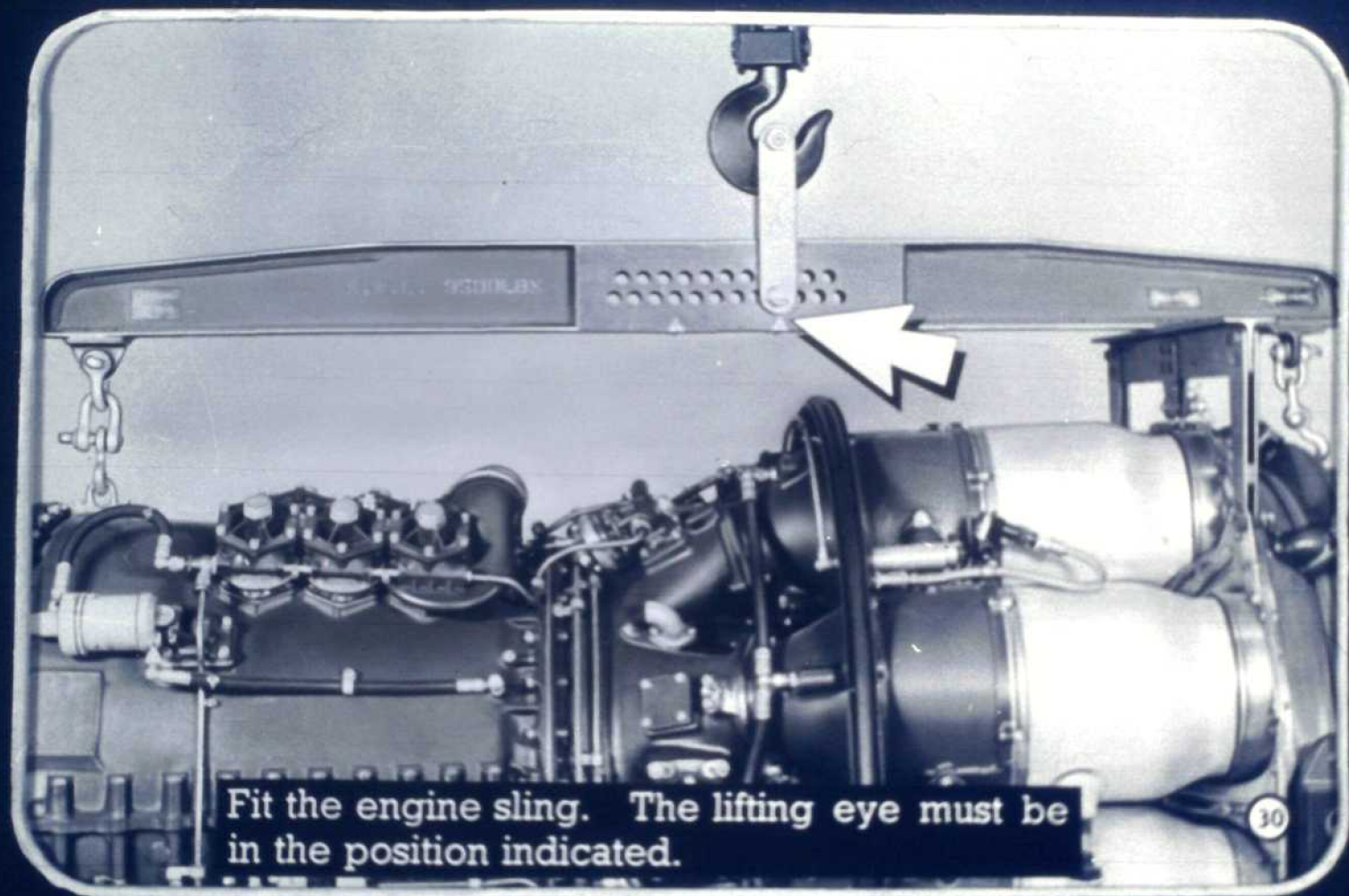
Detach clamping ring segments from the transition piece. Take care not to lose the distance pieces.



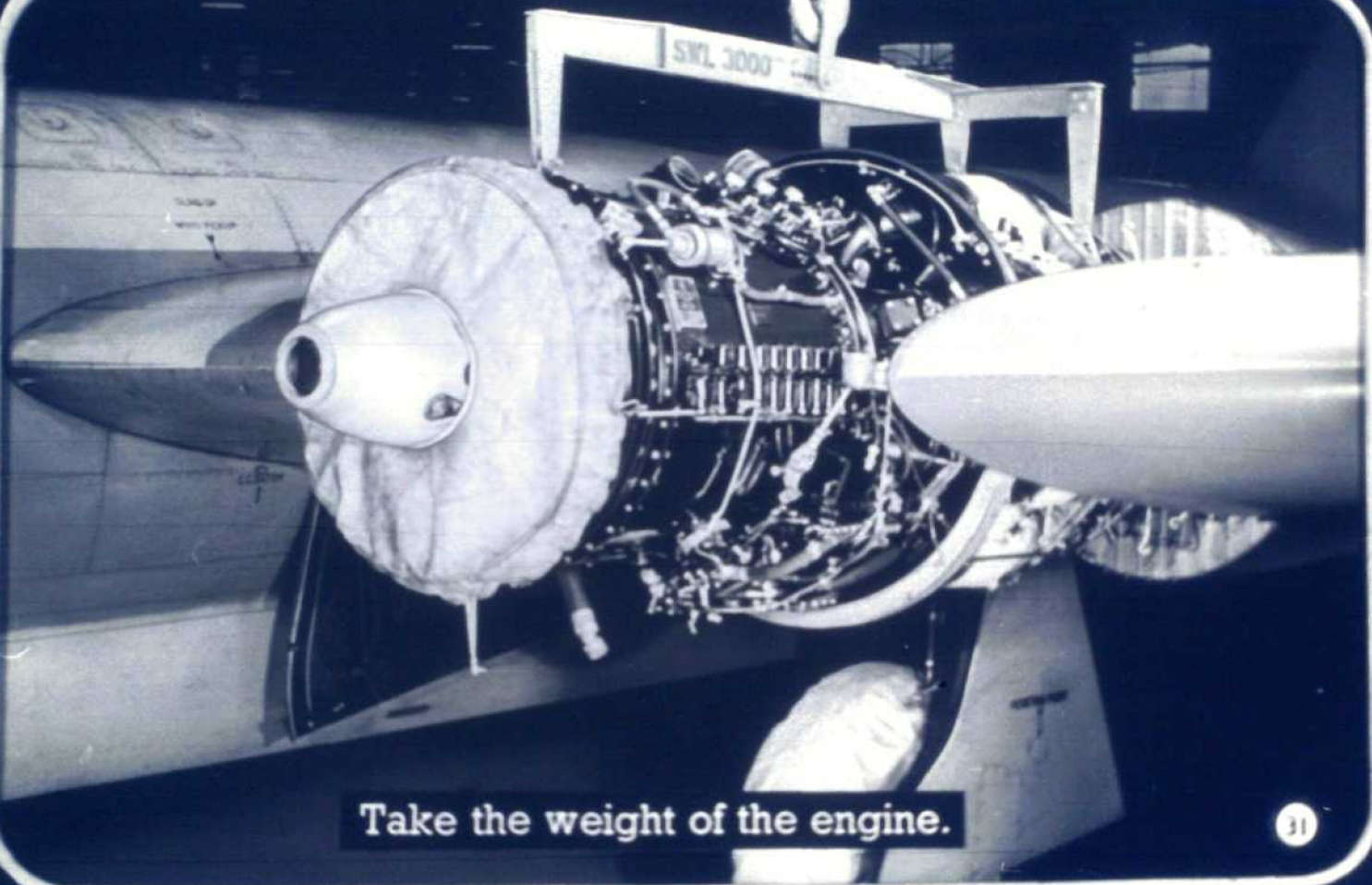
Move the jet pipe as far aft as possible.



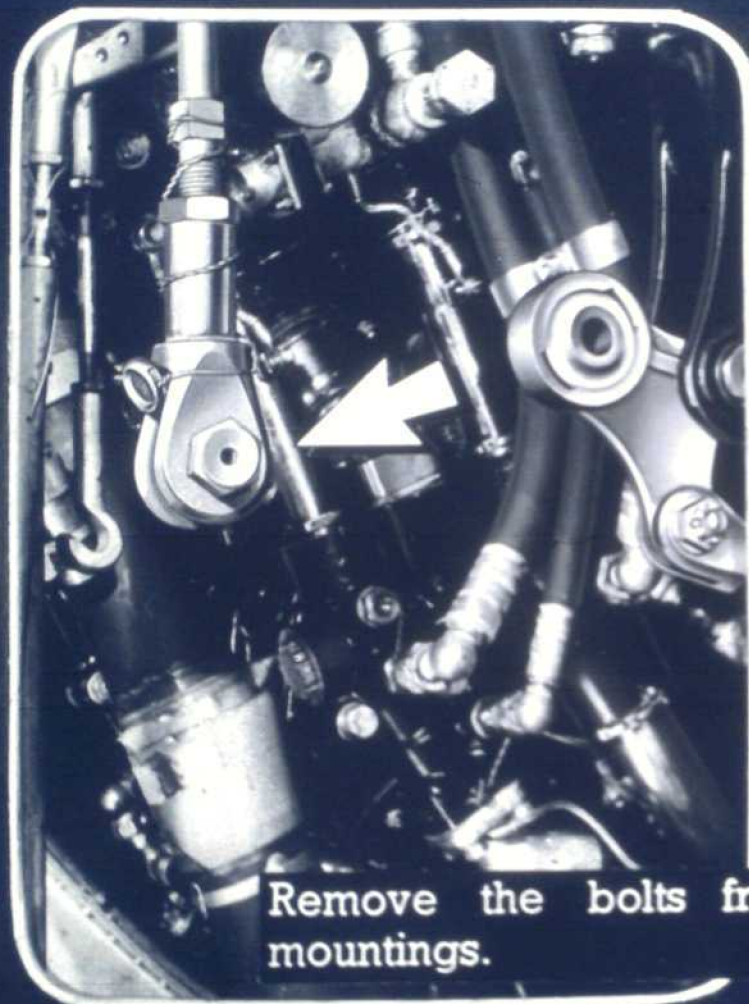
Remove the caps from the rear mounting spherical bearings.



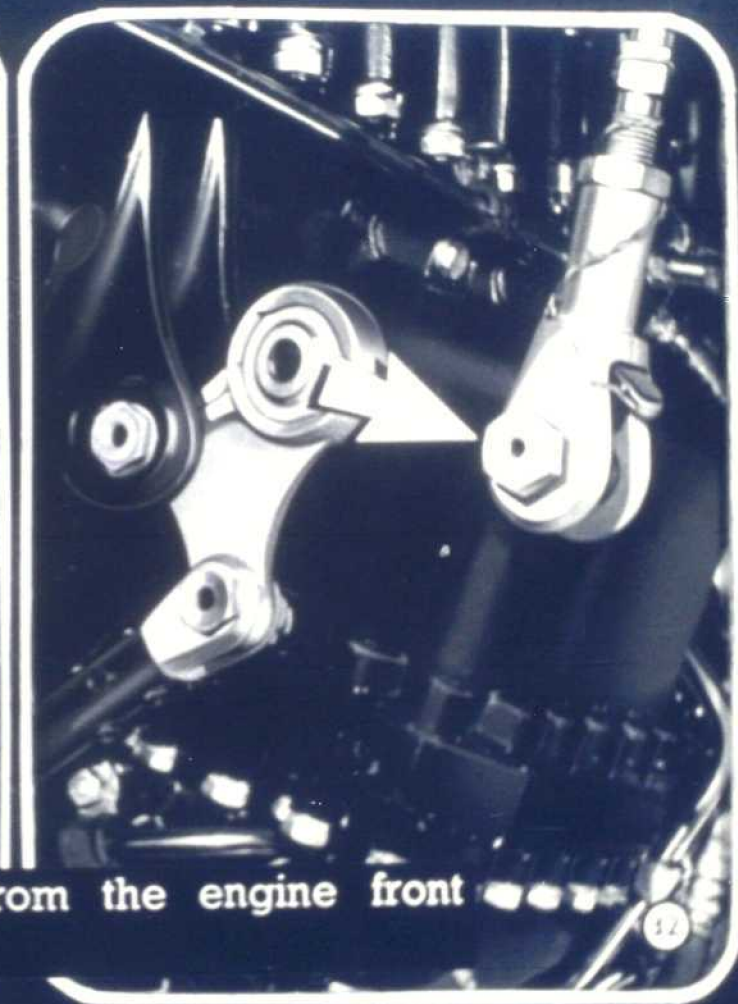
Fit the engine sling. The lifting eye must be in the position indicated.

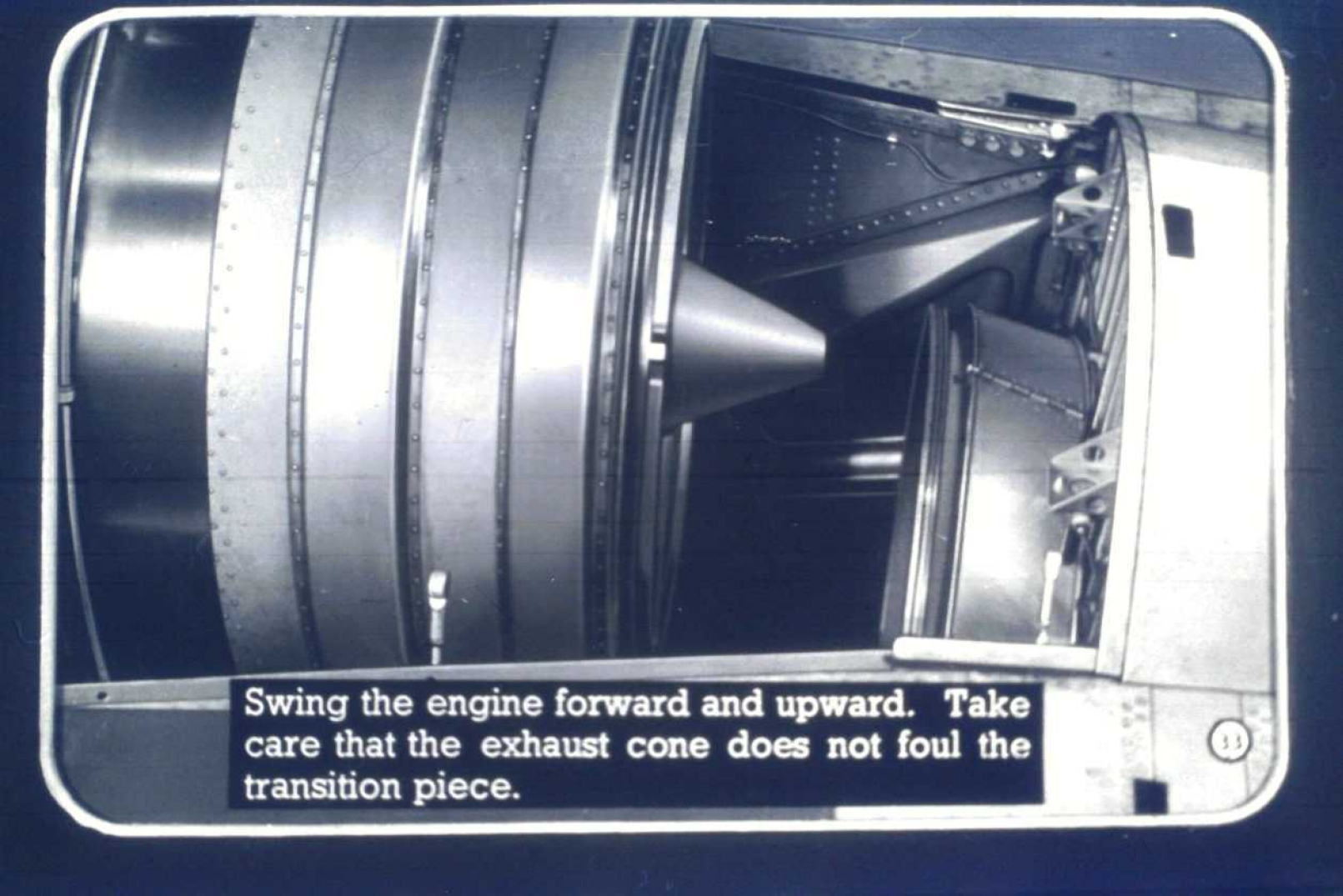


Take the weight of the engine.

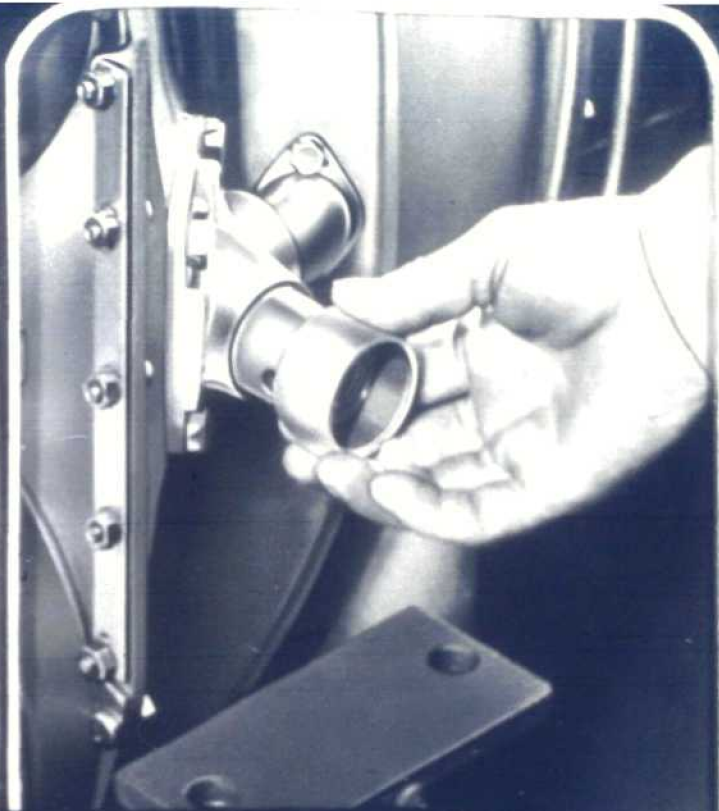


Remove the bolts from the engine front mountings.



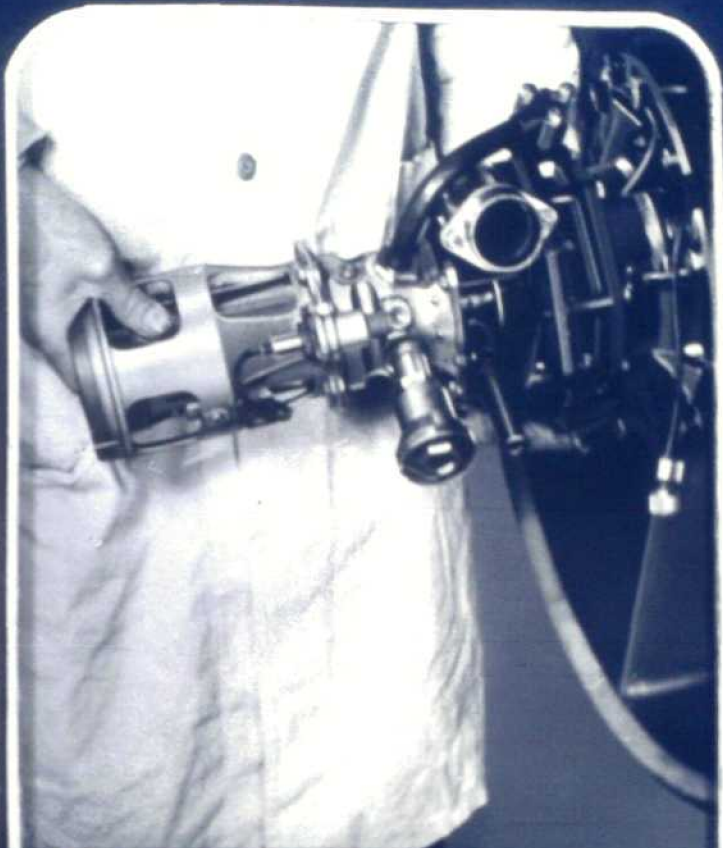


Swing the engine forward and upward. Take care that the exhaust cone does not foul the transition piece.

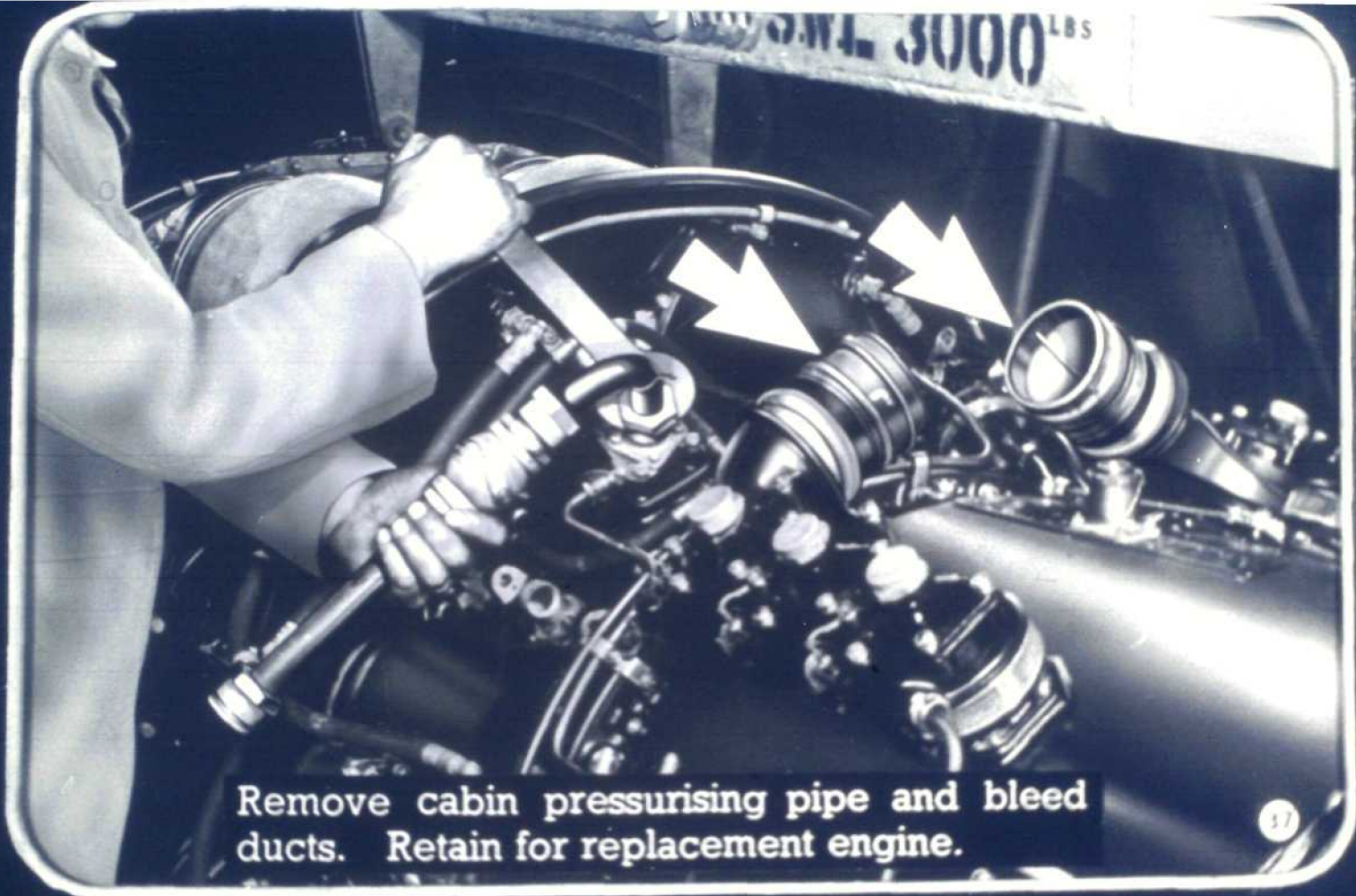


Position engine over stand and remove the spherical collars from the engine trunnions. The inboard side is pegged.

Secure engine to a stand.



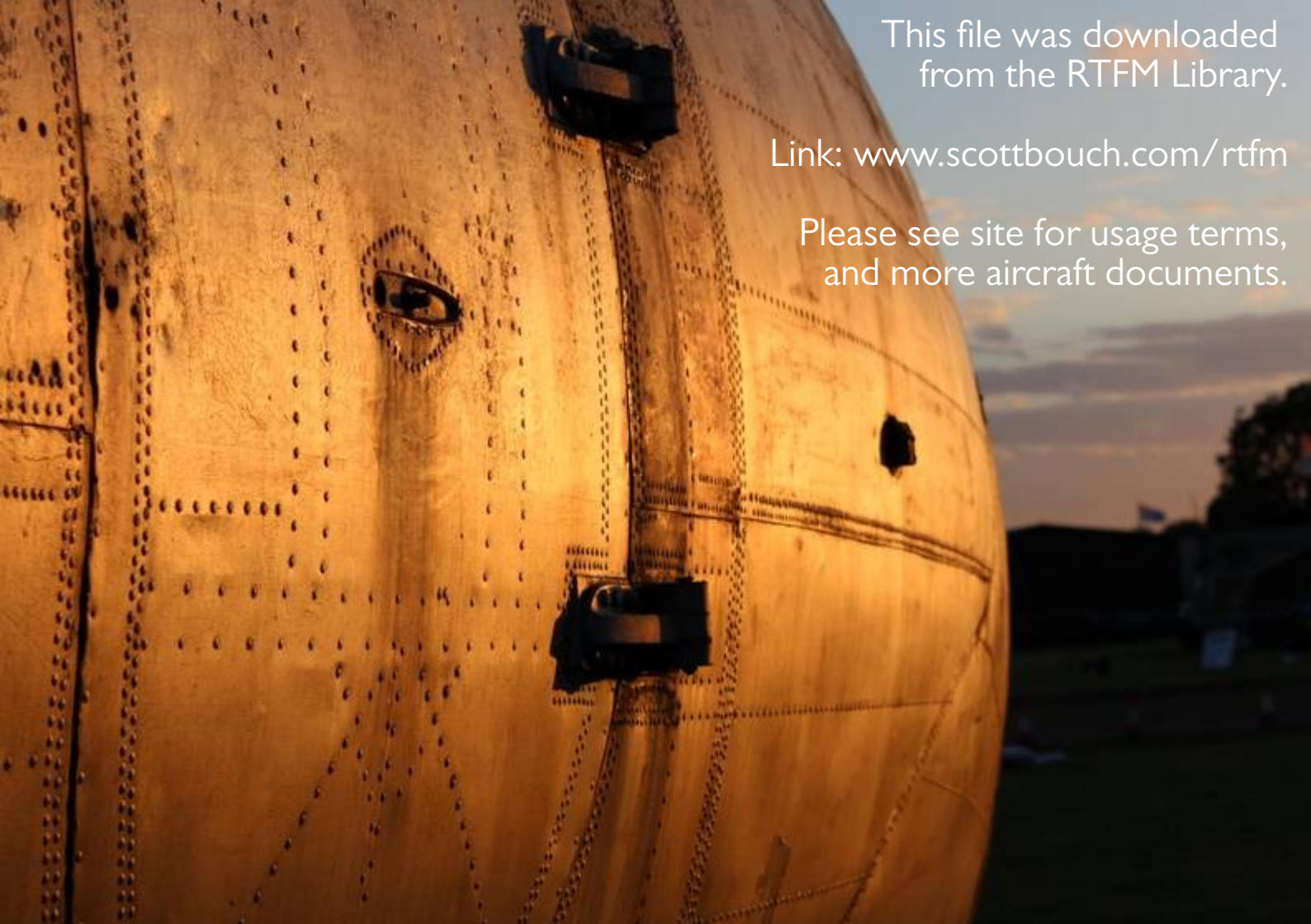
Remove the turbo-starter. Retain for replacement engine.



Remove cabin pressurising pipe and bleed ducts. Retain for replacement engine.



**Blank all apertures. Inhibit fuel system and
crate engine ready for despatch.**



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