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BUREAU OF SHIPS GROUP 1

TECHNICAL INSPECTION REPORT

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Classification (Cancelled) (Changed to Security Information)
By Authority of JOINT CHIEFS OF STAFF JCS 1795/36 DATED 16 APRIL 1949
Date 28 FEB 1951

U.S.S. SKIPJACK (SS184)

TEST BAKER

VOLUME 2 OF 2

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BUREAU OF SHIPS GROUP

TECHNICAL INSPECTION REPORT

6 OPERATION CROSSROADS. U.S.S. SKIPJACK (SS184).
TEST BAKER, VOLUME 2[U].

1 Bureau of Ships Group technical inspection rept.,

11 1947. 12 200p.

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10 C. L. Gaasterland

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SUBMITTED:

C. L. Gaasterland,
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APPROVED:

F. X. Forest,
Captain, U.S.N.

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USS SKIPJACK (SS184)



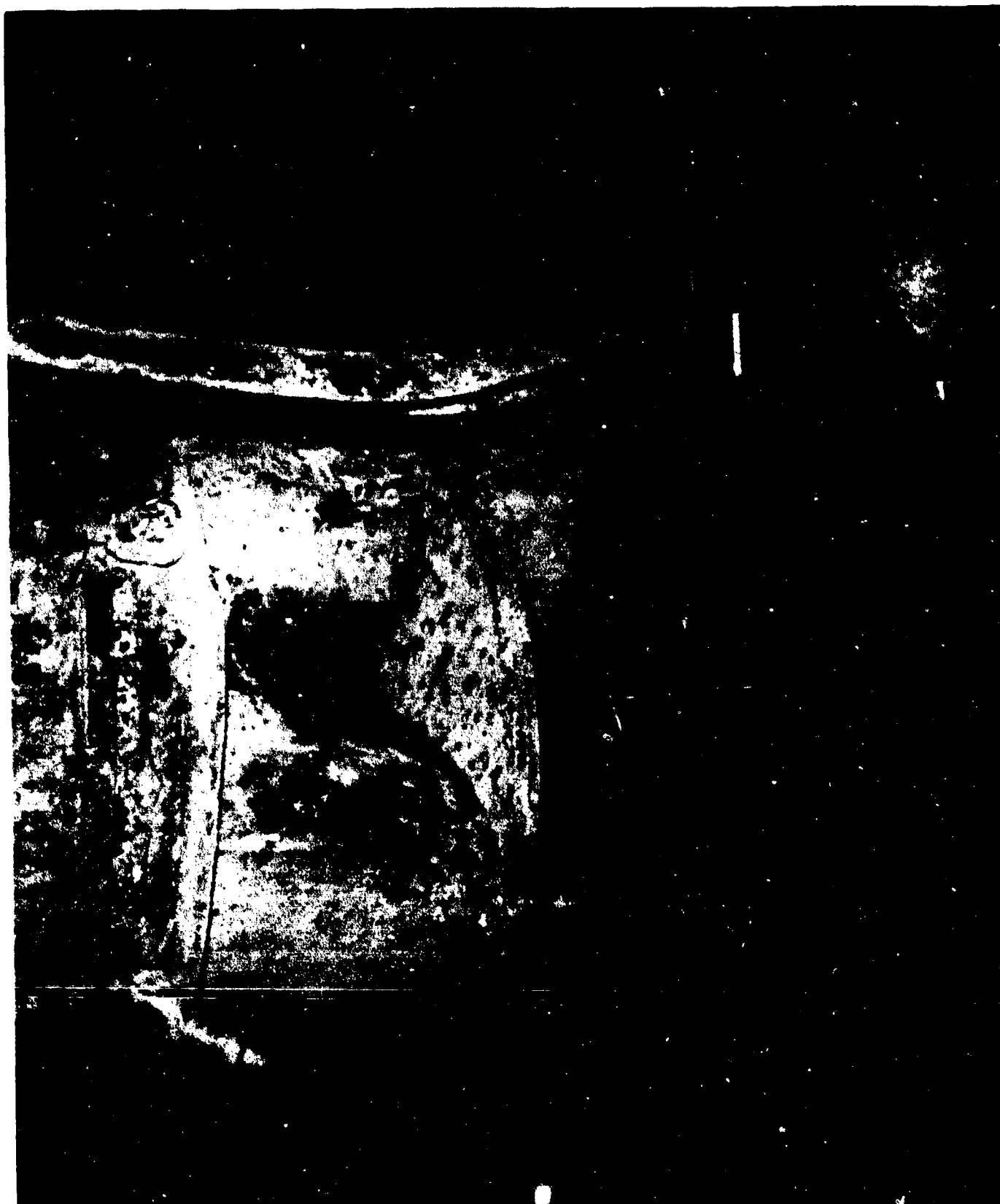
AB-CR-SM-6500-5. Crushed deck at frames 29-31 port.

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AB-CR-SM-6500-7. Buckled supports for superstructure at frames 29, 30 and 31, port.

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AB-CR-SM-6500-9. Compression failure of superstructure bracket at frame 34, port looking outboard.

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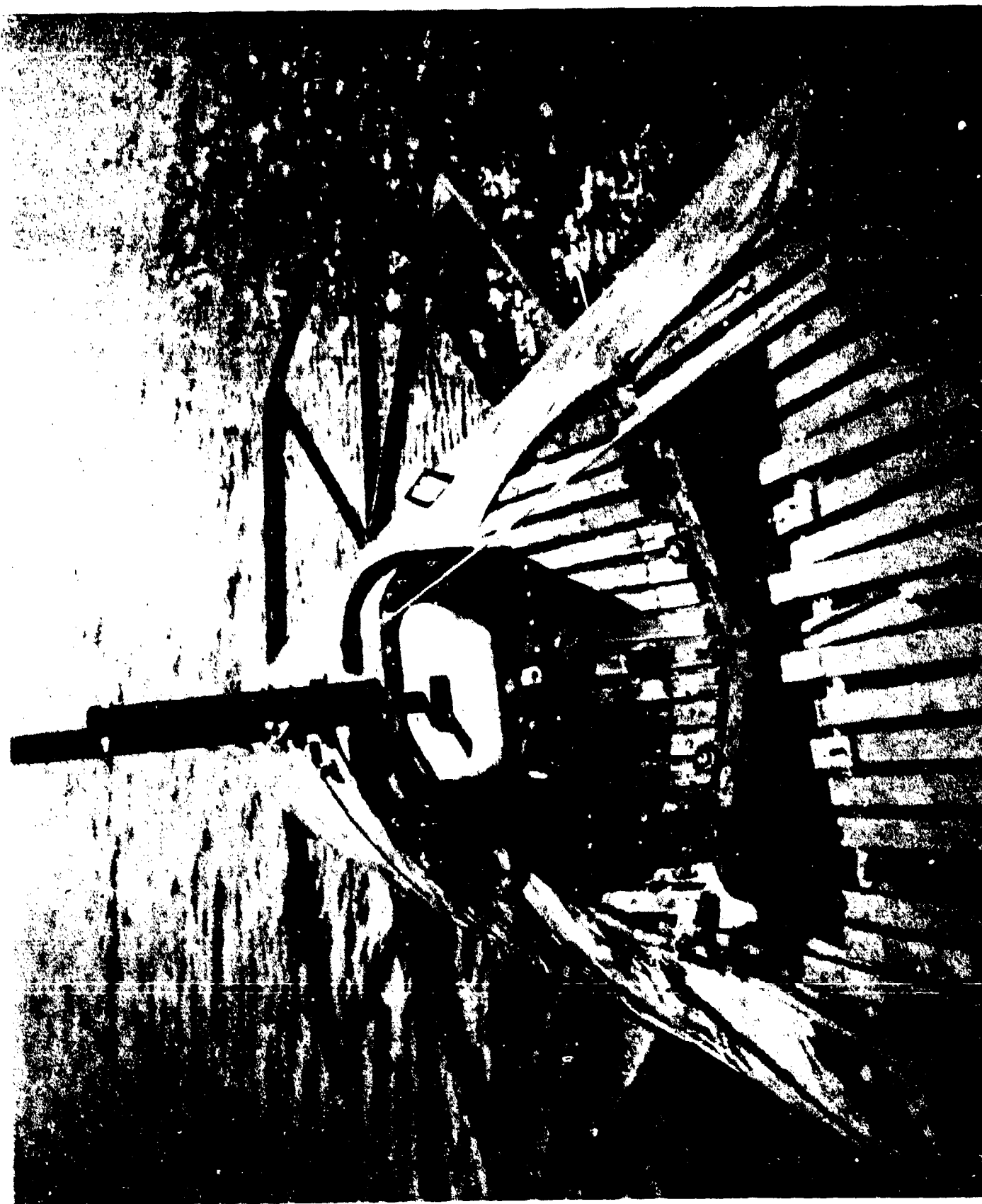
AB-CR-SM-6500-11. Superstructure bulkhead at frame 59, port, looking forward.

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AB-CR-SM-6501-2. Crushed main deck, frames 173-179, looking aft.

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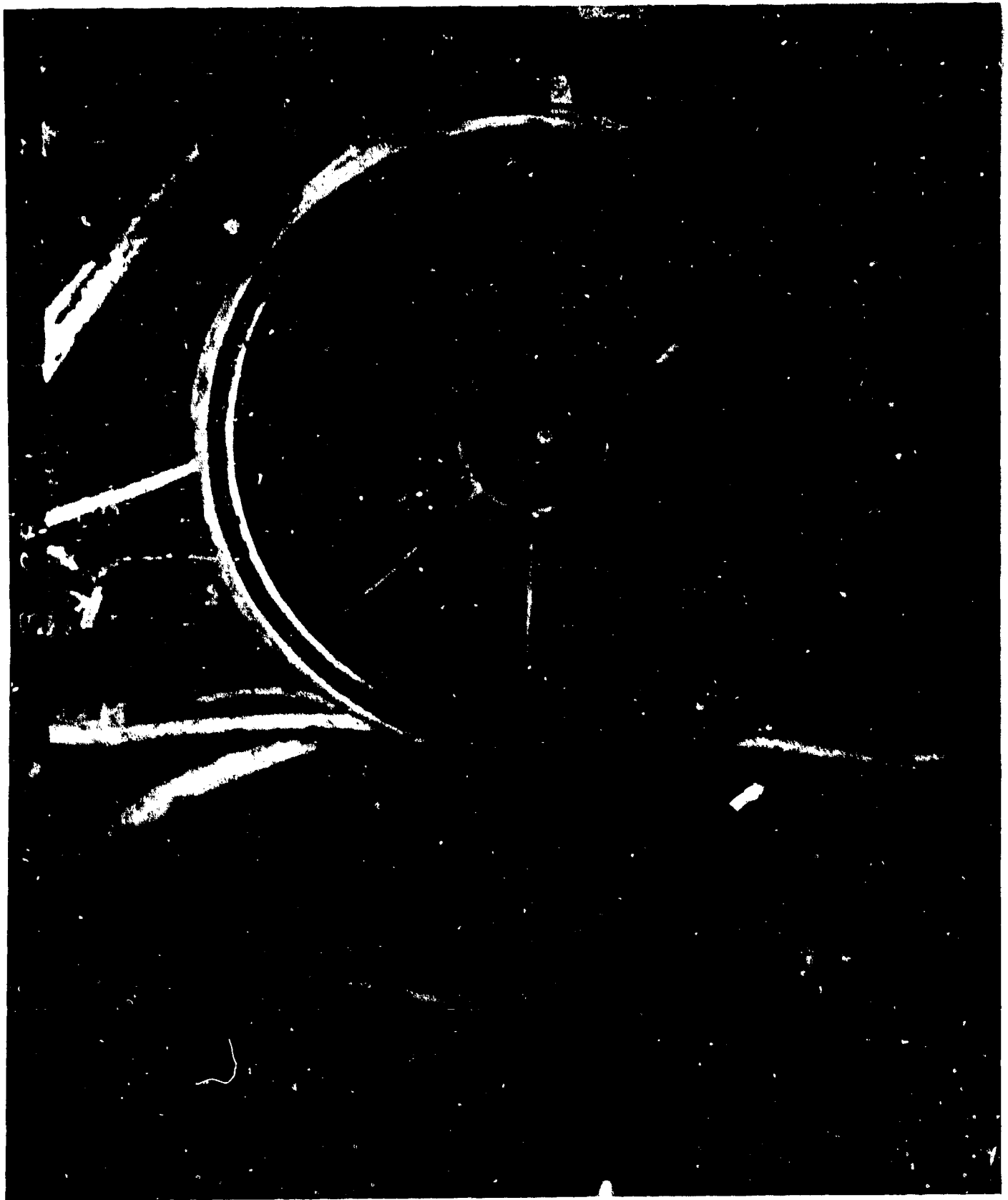
AB-MIG-6518-11. Torpedo tube No. 1 Breech door.

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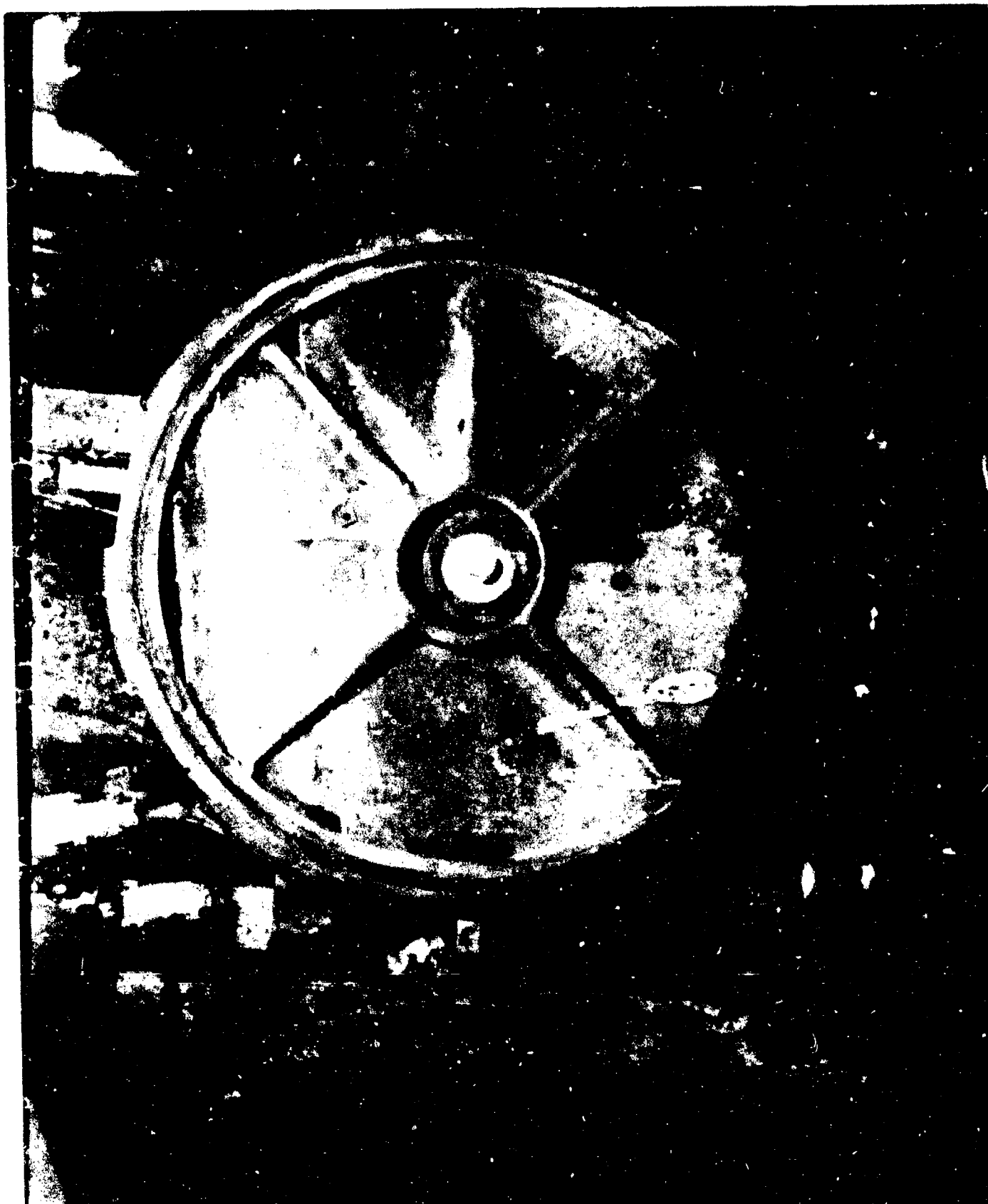
AB-CR-MIG-6519-1. Torpedo tube No. 2 Breech door.

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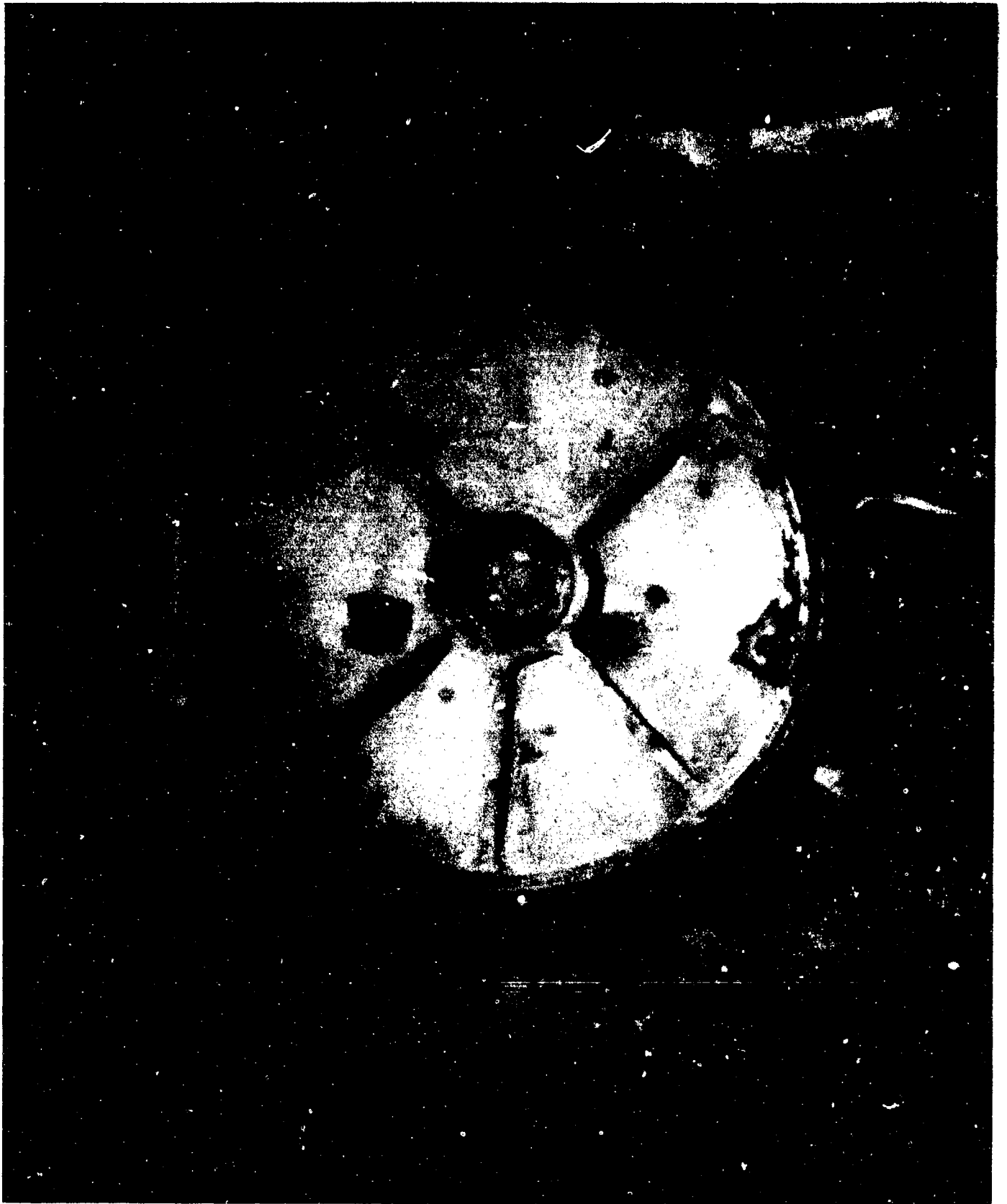
AB-CR-MIG-6518-12. Torpedo tube No. 3 breech door.

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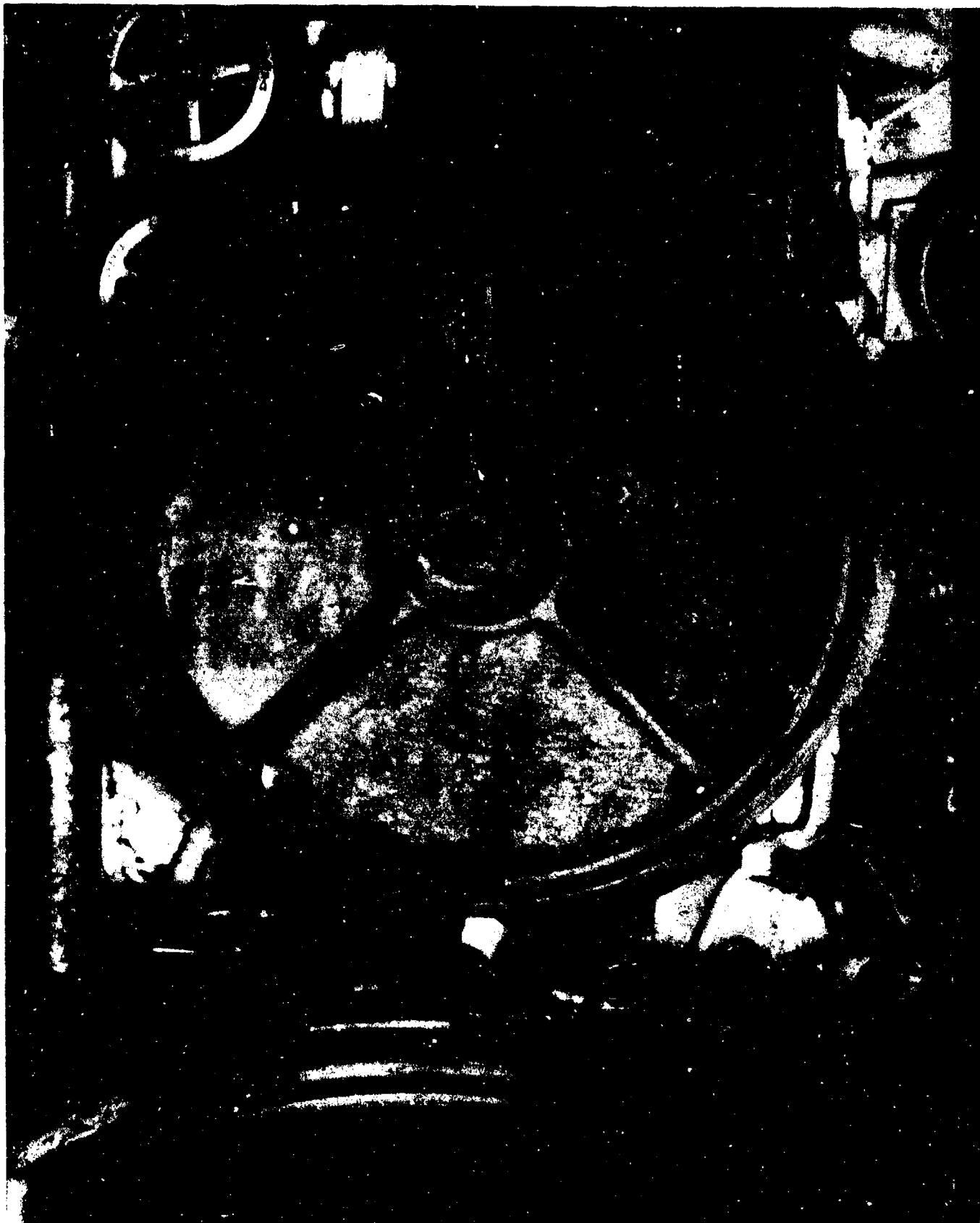
AB-CR-MIG-6519-2. Torpedo tube No. 4 Breech door.

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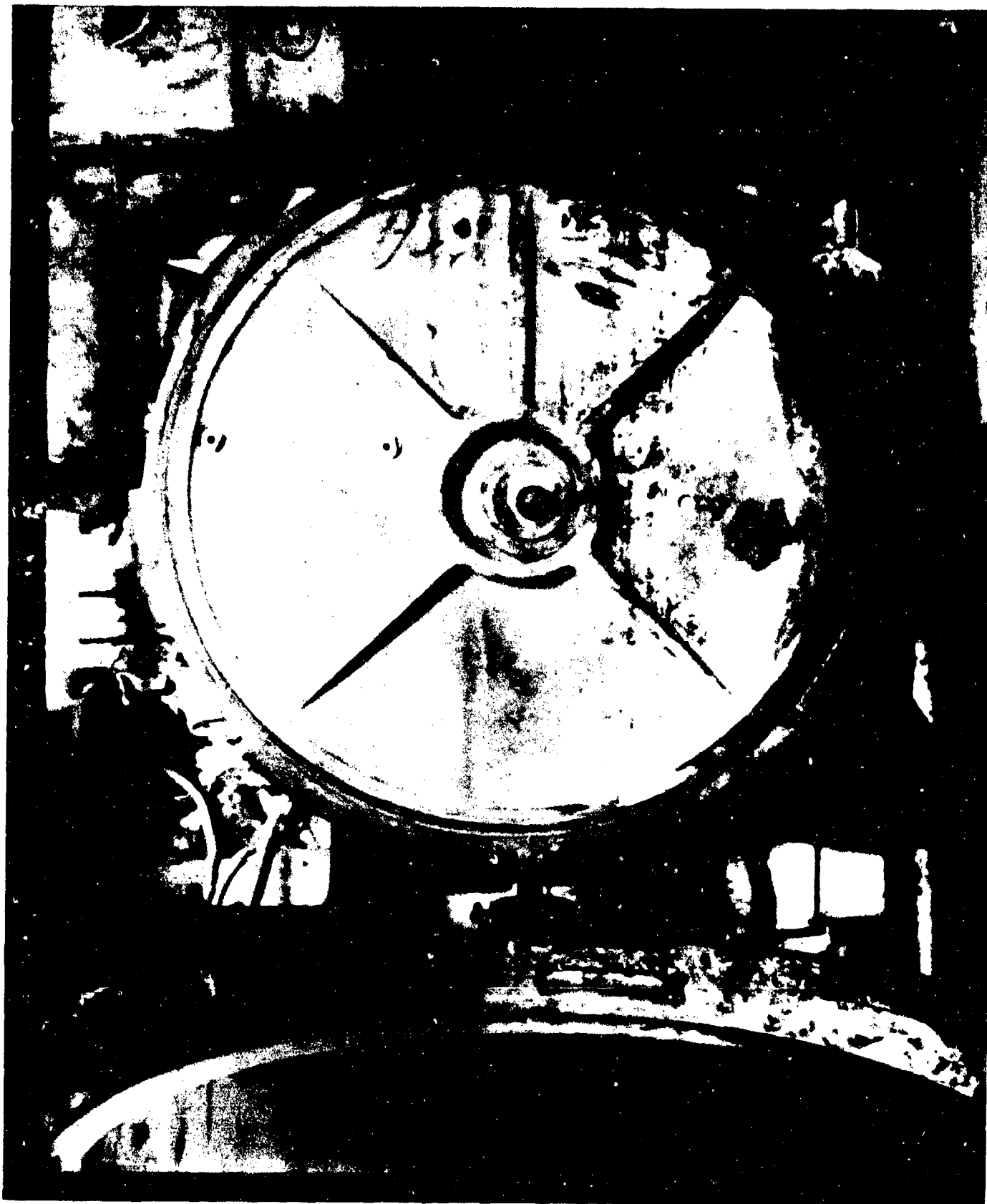
AB-CR-MIG-6516-2. Torpedo tube No. 5 breech door.

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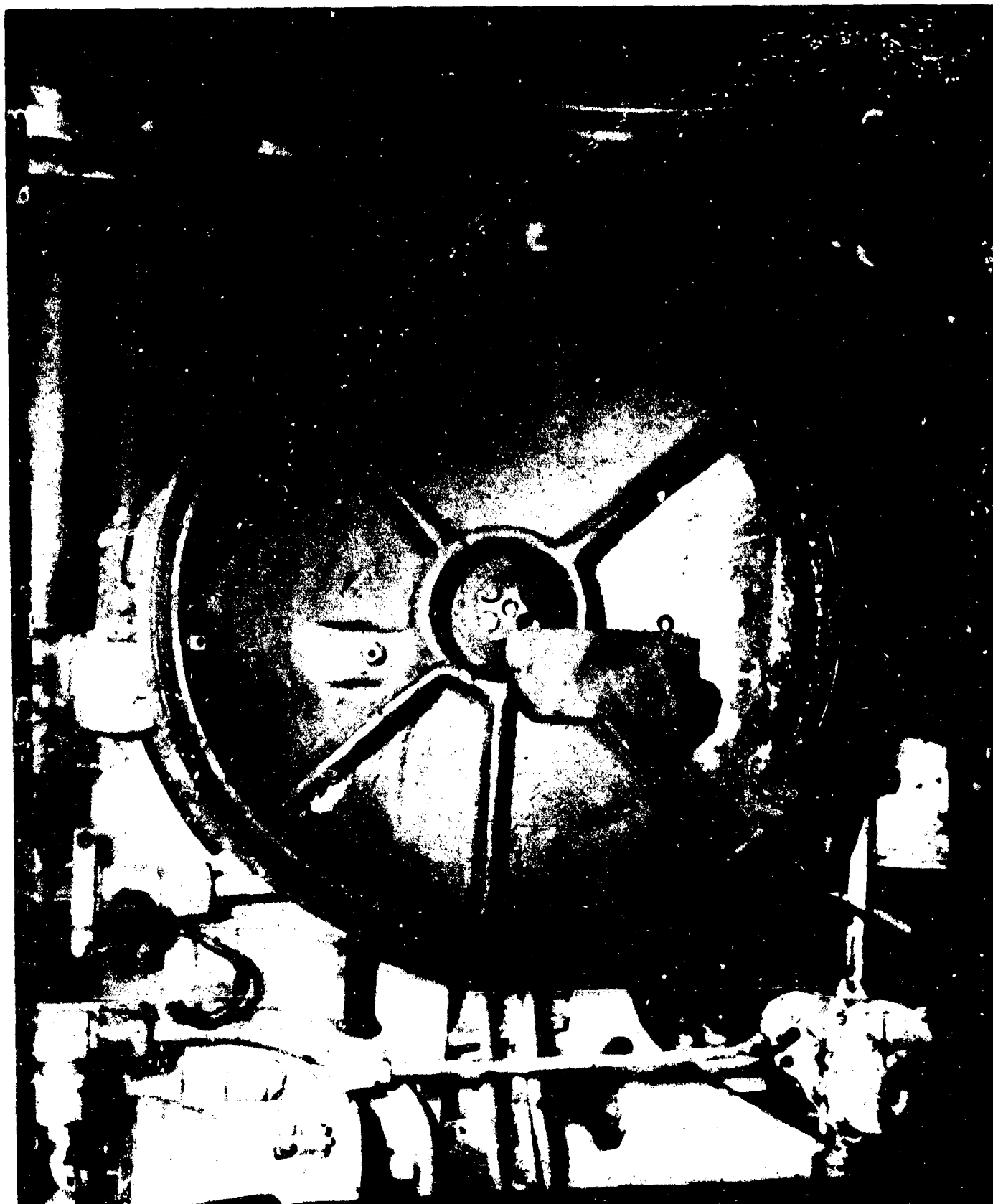
AB-CR-MIG-6516-1. Torpedo tube No. 6 breech door.

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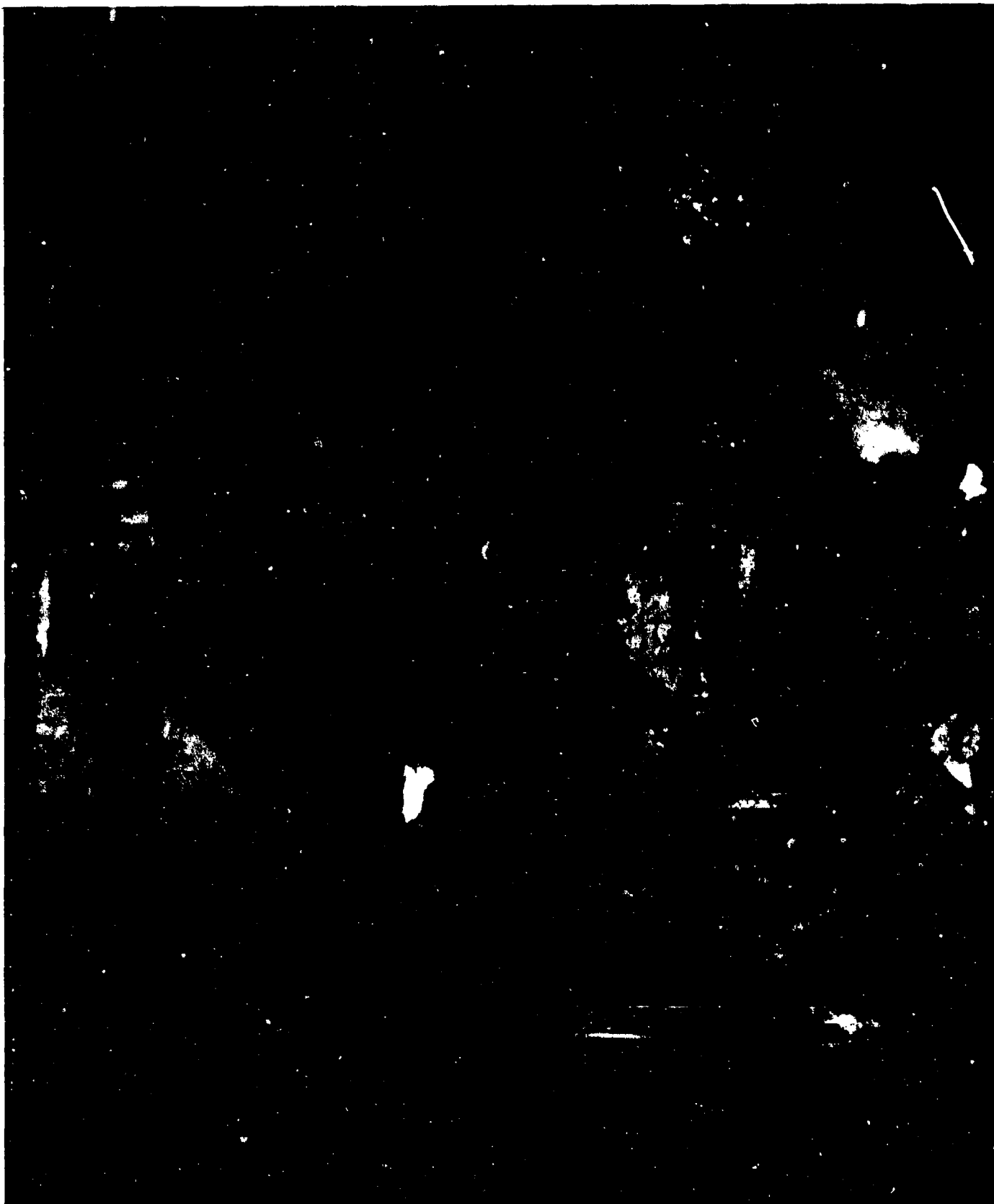
AB-CR-MIG-6516-3. Torpedo tube No. 7 breech door.

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AB-CR-MIG-6515-11. Torpedo tube No. 8 Breech door.

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AB-CR-MIG-6516-4. Bulge in bottom of torpedo tube number 8.

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AB-CR-MIG-6516-5. Bulge in bottom of torpedo tube number 7.

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AB-CR-MIG-6524-1. Failure of straps on impulse flasks for after torpedo tubes.

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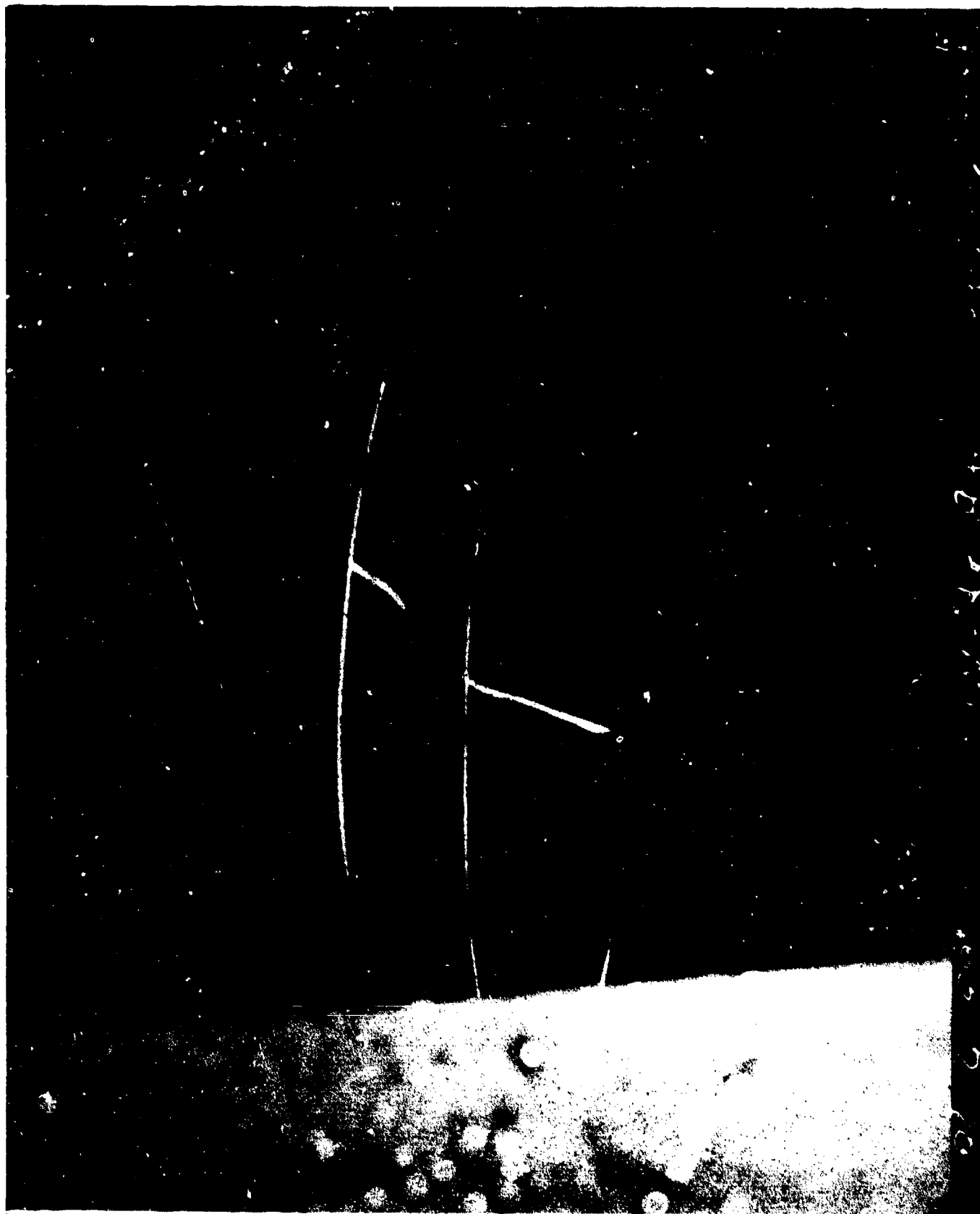
AB-CR-MIG-6517-9. Dimple in circular hull plating between frames 139 and 141 at the 12' water line.

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AB-CR-MIG-6517-10. Dimple in circular hull plating between frames 139 and 141 at the 7' water line.

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AB-CR-MIG-6517-11. Dimple in circular hull plating between frames 141 and 143 at the 7' water line.

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AB-CR-MIK-6529-4. General view of dimples in single hull plating - port side of forward torpedo room and trim tank.

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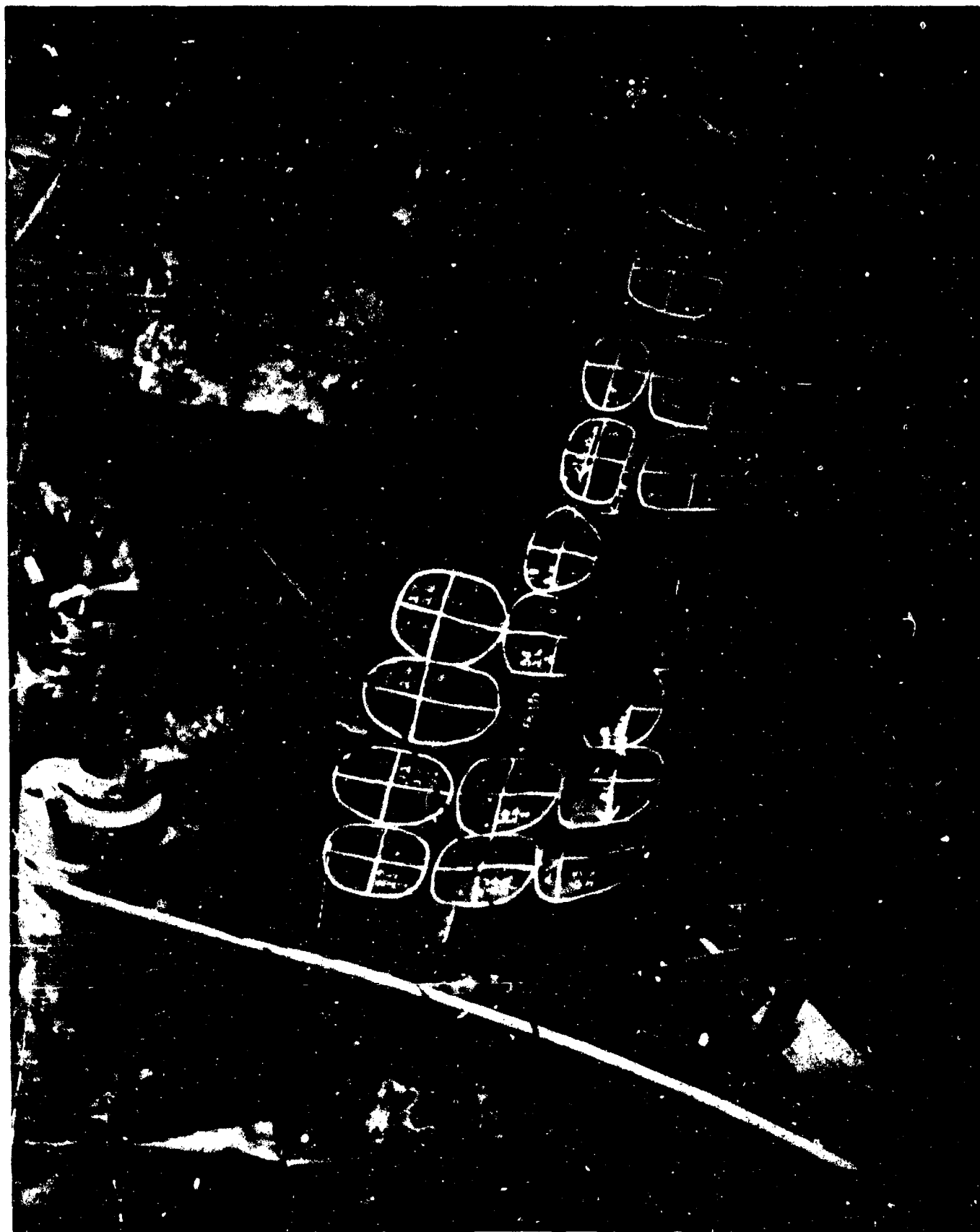
AB-CR-MIK-6530-1. General view of dimples in single hull plating - port side of after engine room, from below.

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AB-CR-MIK-6529-5. General view of dimples in single hull plating - port side of after engine room, from above.

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AB-CR-MIK-6529-6. General view of dimples in single hull - port side of after torpedo room - from above.

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AB-CR-MIK-6529-12. General view of dimples in single hull - port side of after torpedo room, from below.

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AB-CR-MIK-6530-2. General view of dimples in single hull - starboard side of after torpedo room, from below.

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AB-CR-MIK-6529-7. General view of dimples in single hull - starboard side of after torpedo room, from above.

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AB-CR-MIK-6529-10. General view of dimples in single hull - starboard side of forward torpedo room.

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AB-CR-MIK-6529-9. General view of dimples in single hull-starboard side of forward torpedo room.

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AB-CR-MIK-6529-8. General view of dimples in single hull - starboard side of forward torpedo room and trim tank.

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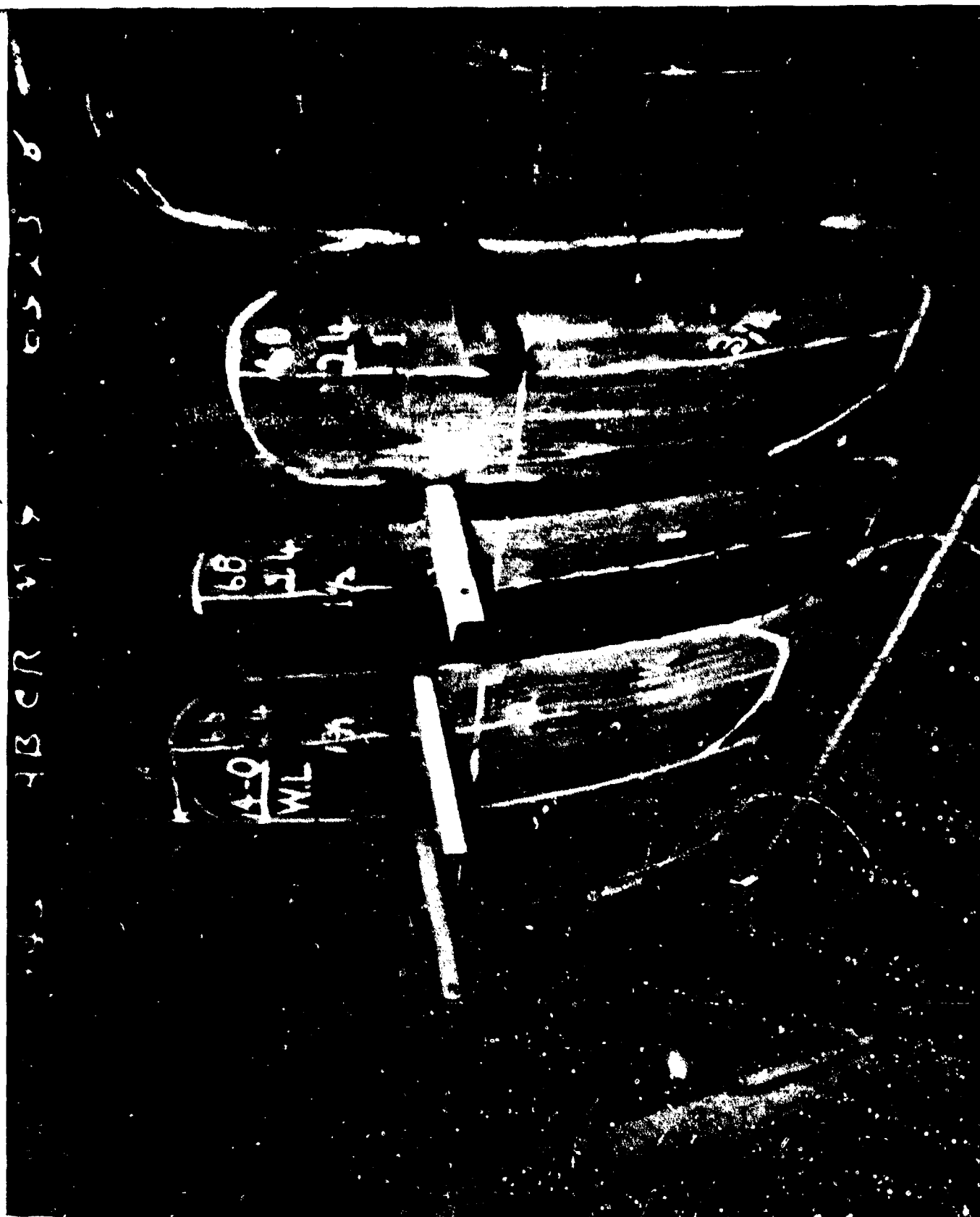
AB-CR-MIG-6523-7. Dimples in non-circular pressure hull - frames
13-17 port.

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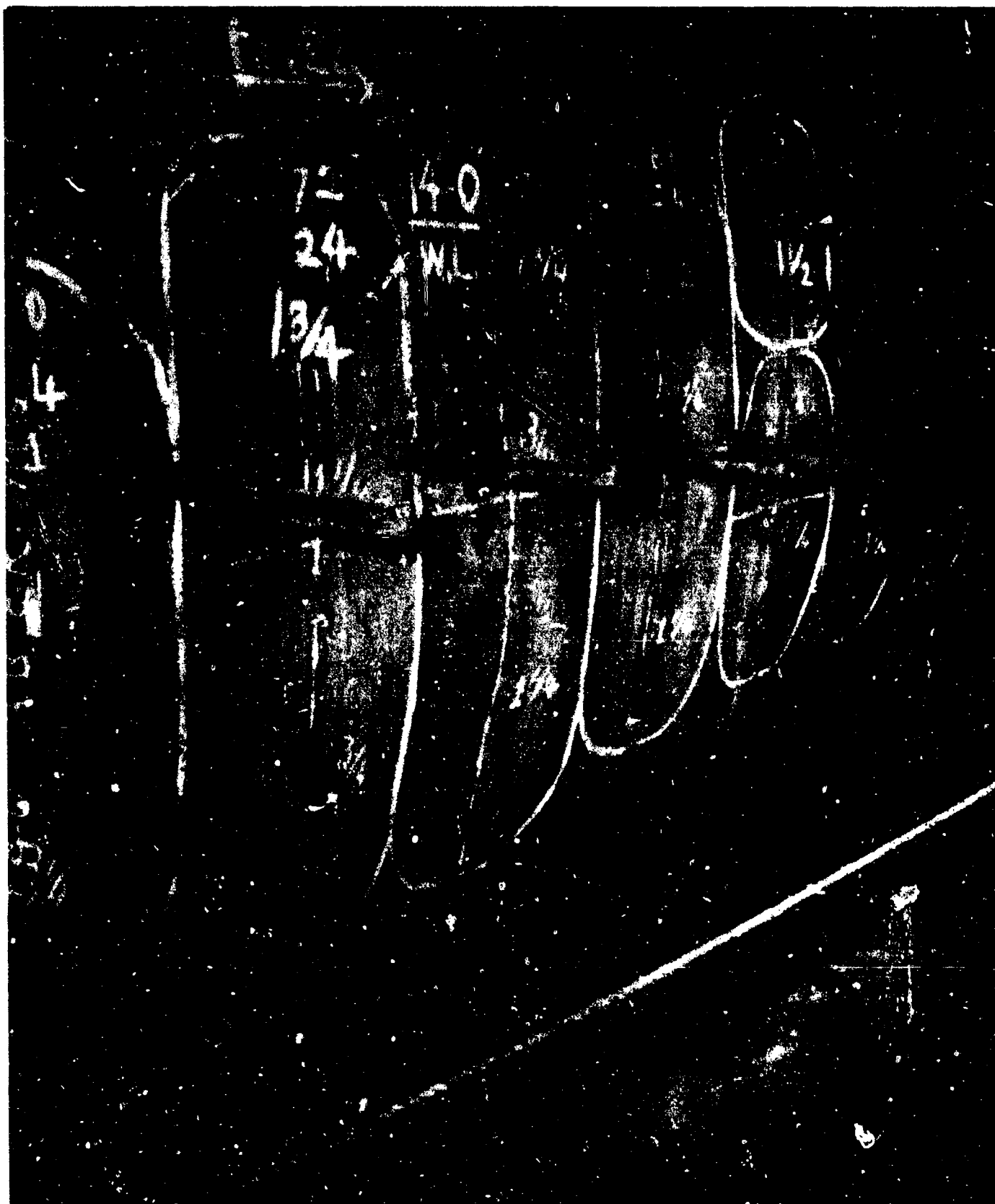
AB-CR-MIG-6523-8. Dimples in non-circular pressure hull - frames 17-21 port.

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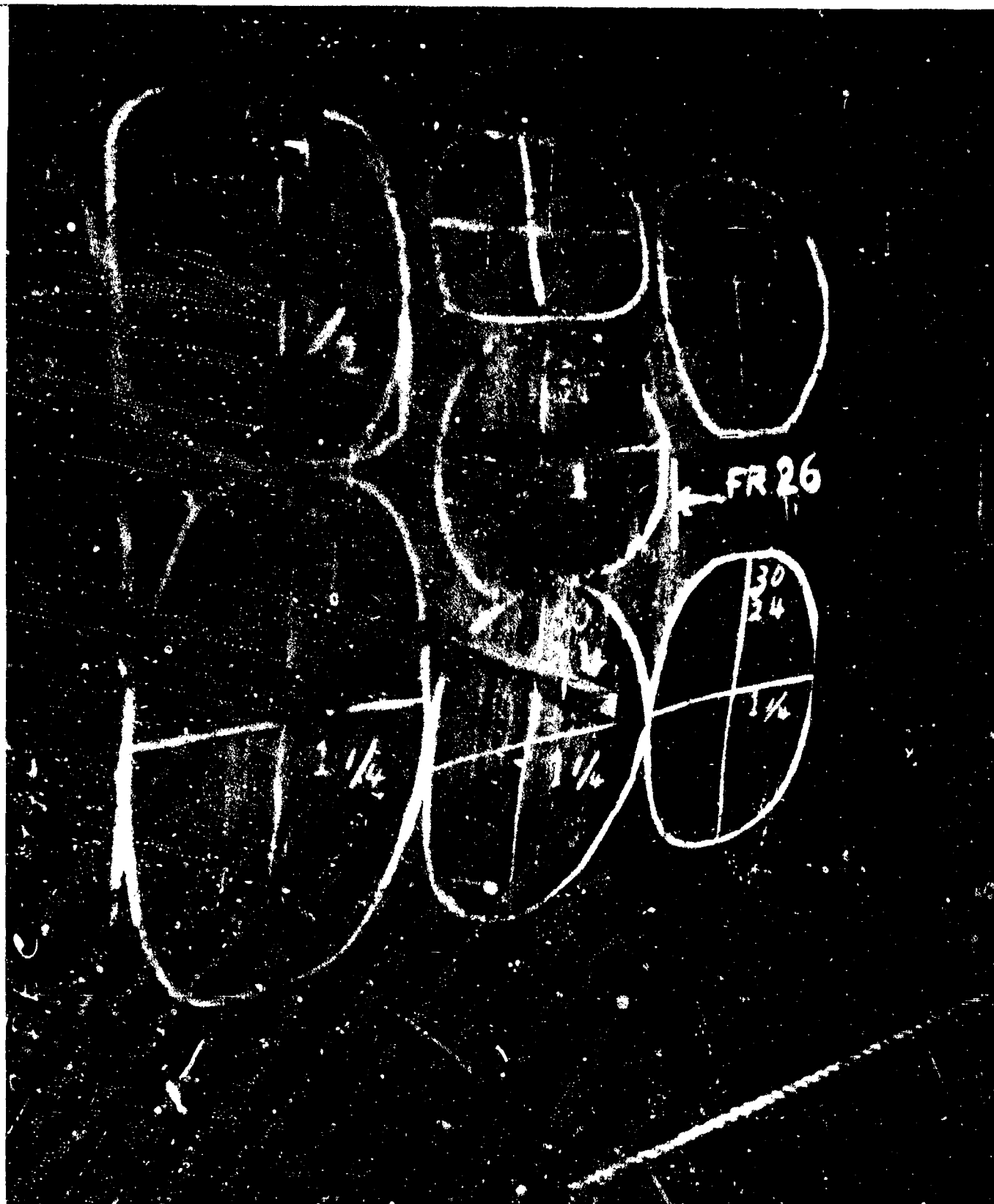
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AB-CR-MIG-6523-9. Dimples in non-circular pressure hull - frames 21-25 port.

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AB-CR-MIG-6523-11. Dimples in non-circular pressure hull - frames 24-27 port.

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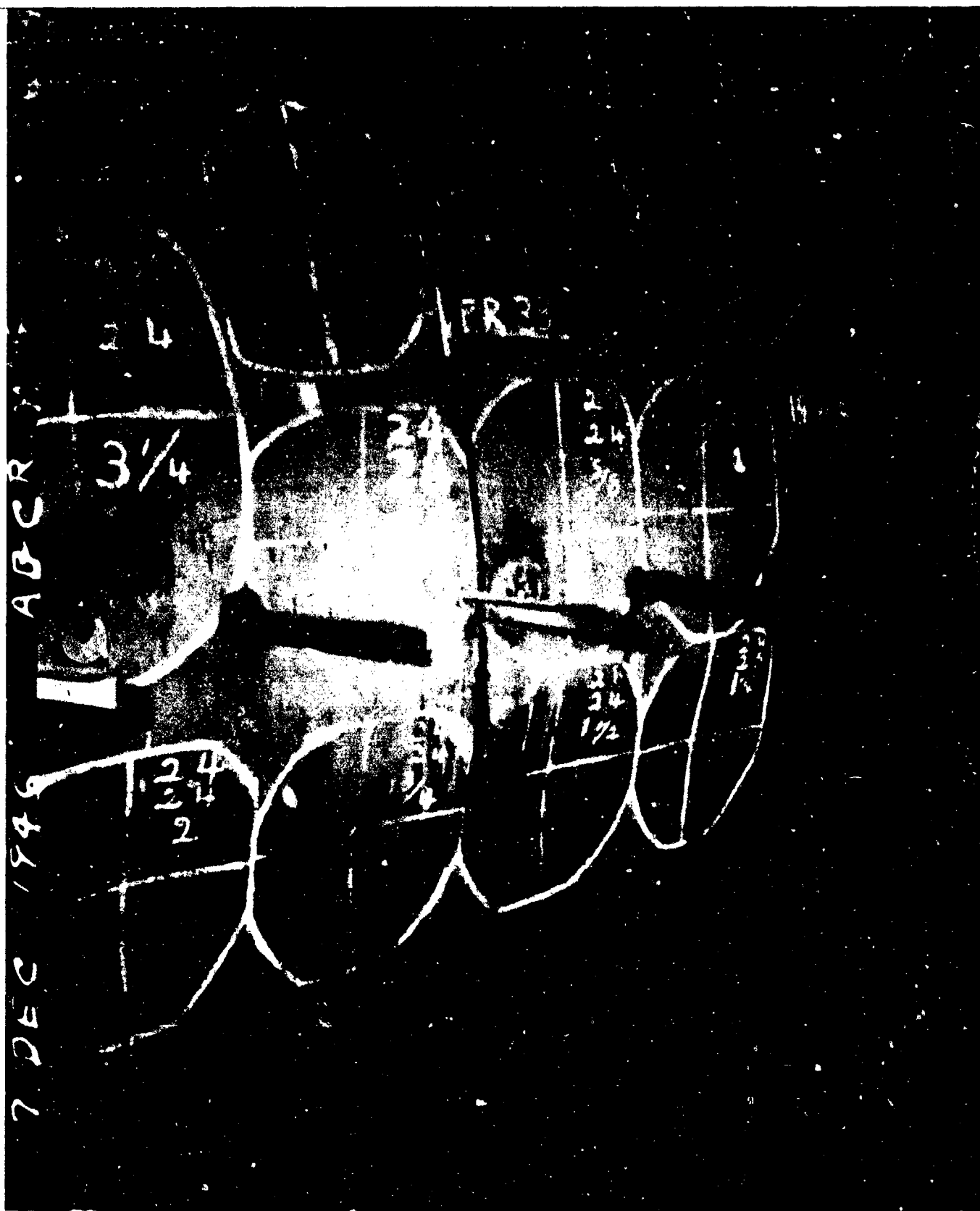
AB-CR-MIG-6523-12. Dimples in non-circular pressure hull - frames 28-33 port.

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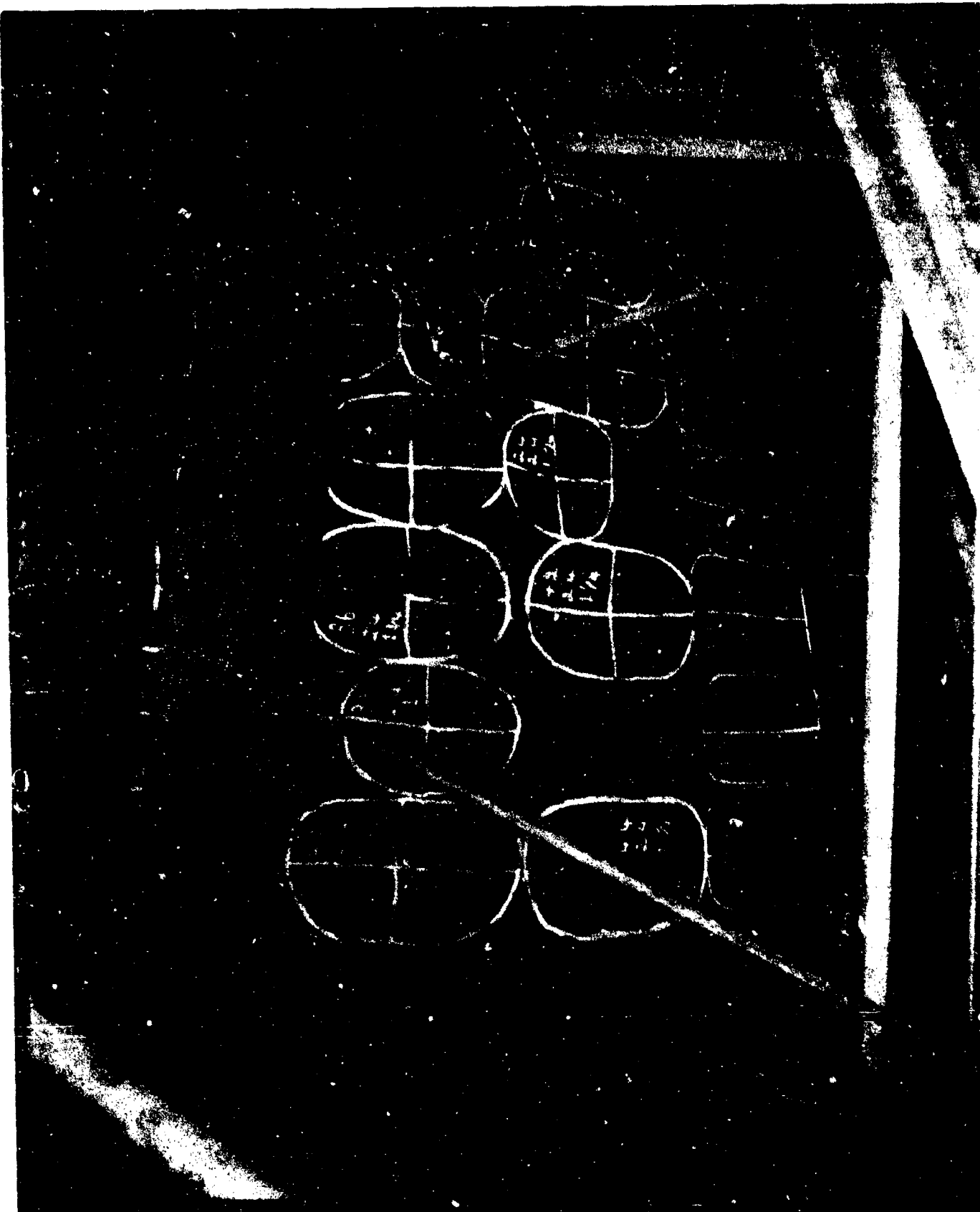
AB-CR-MIG-6526-4. Dimples in non-circular pressure hull-frames
32-35 port.

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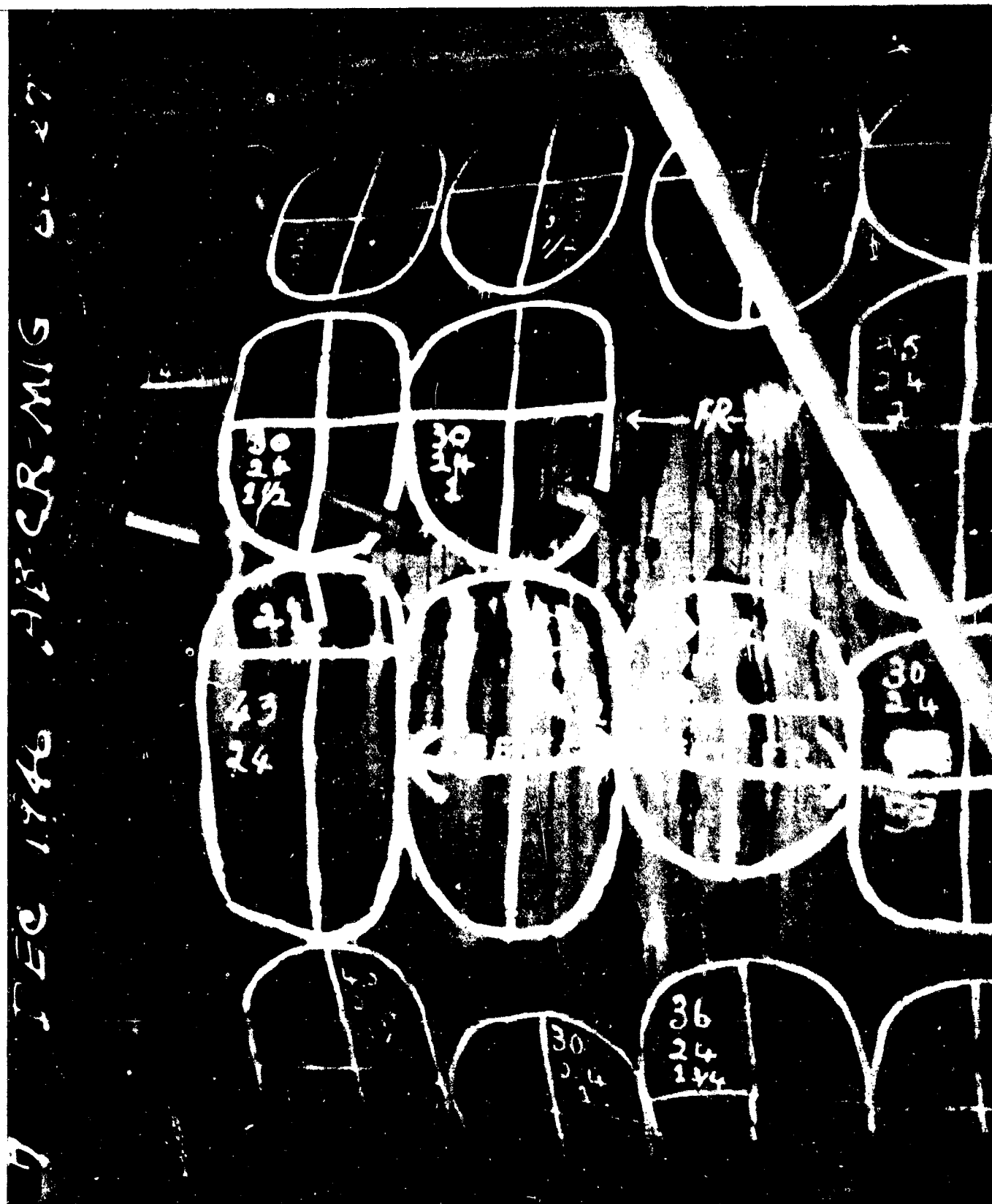
AB-CR-MIG-6527-10. Dimples in non-circular pressure hull - frames 155-162, port, from keel to maximum beam.

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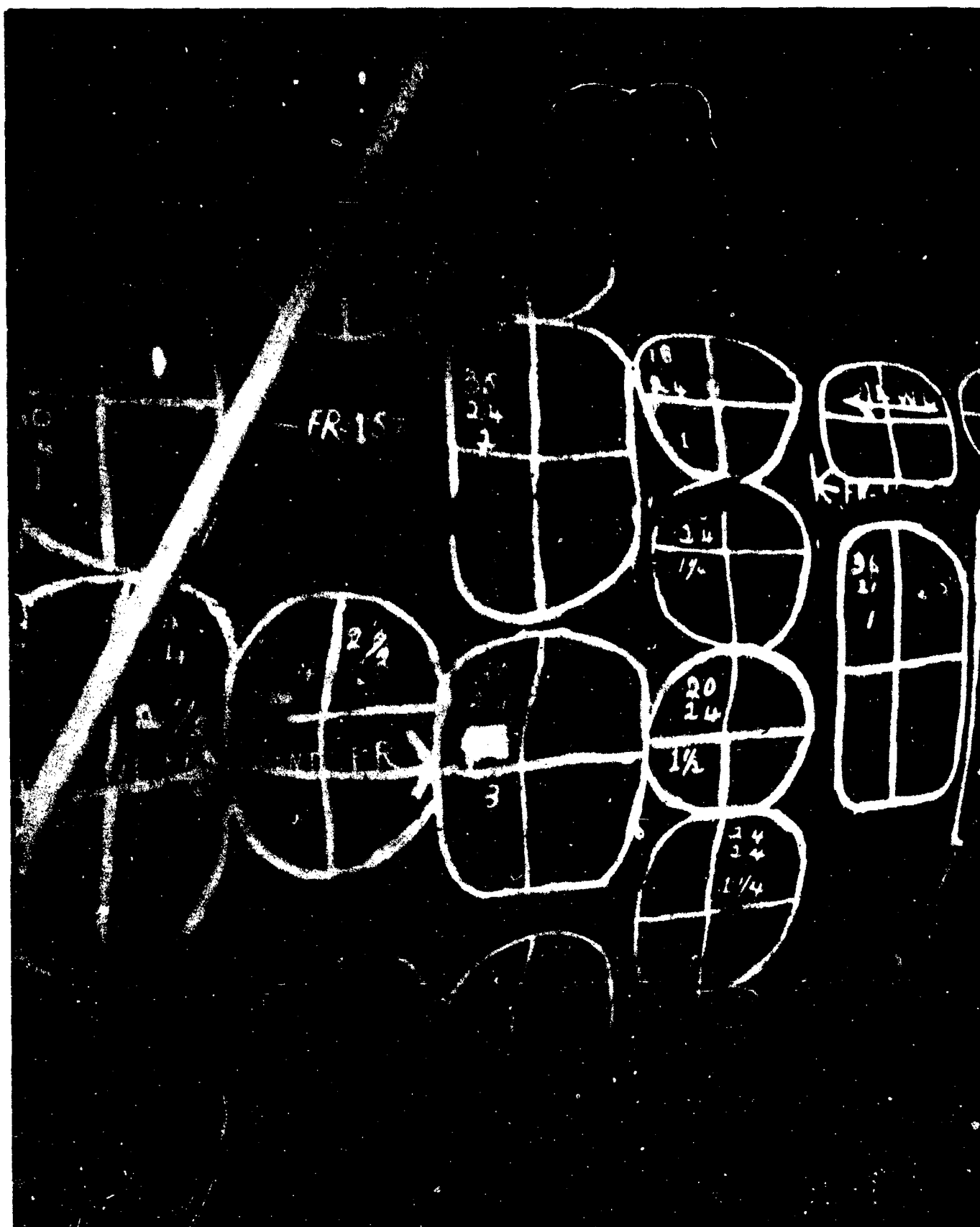
AB-CR-MIG-6527-11. Dimples in non-circular pressure hull - frames 155-159, port from maximum beam to top.

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AB-CR-MIG-6527-12. Dimples in non-circular pressure hull - frames 157-161, port.

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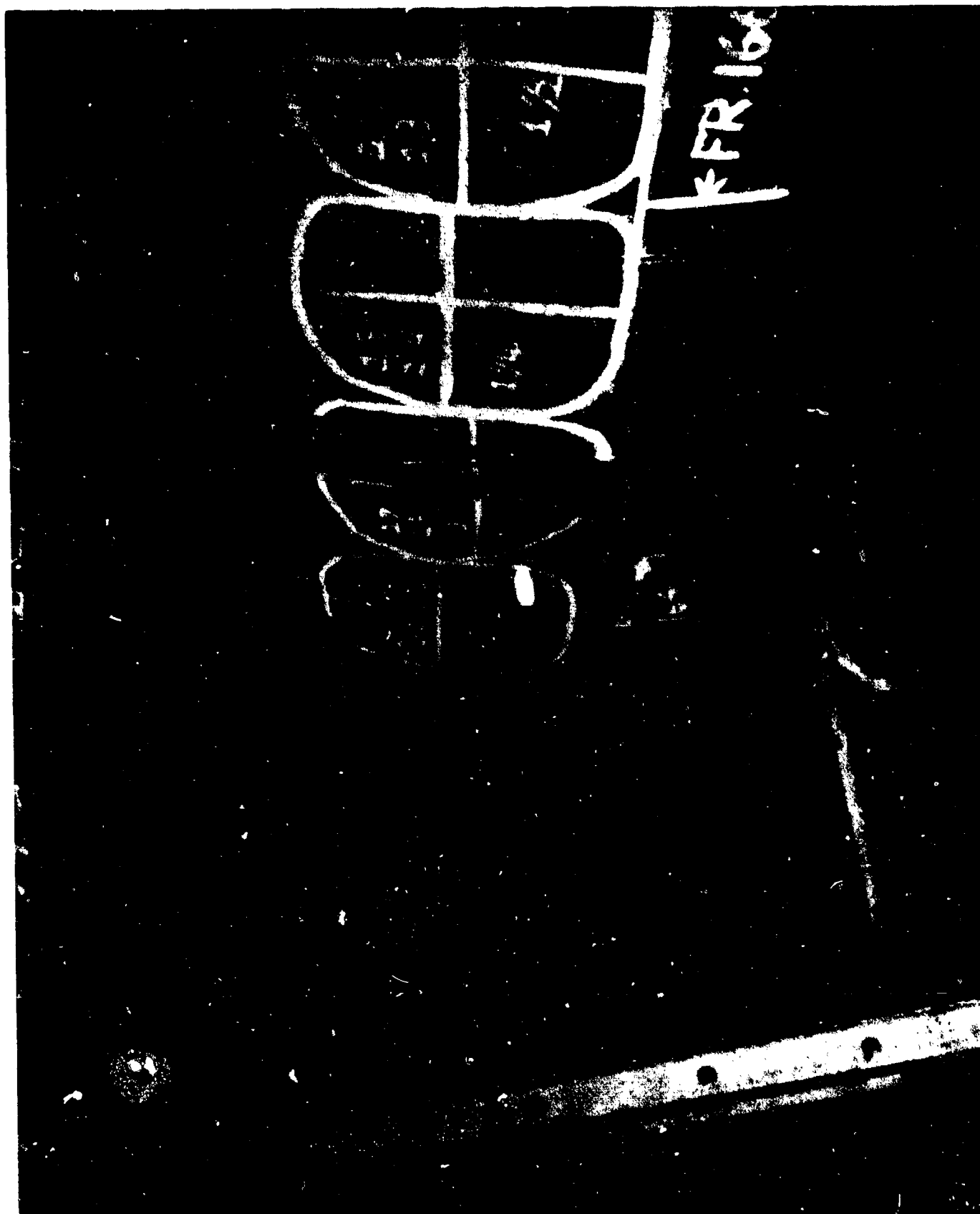
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AB-CR-MIG-6527-3. Dimples in non-circular pressure hull - frames 160-164, port.

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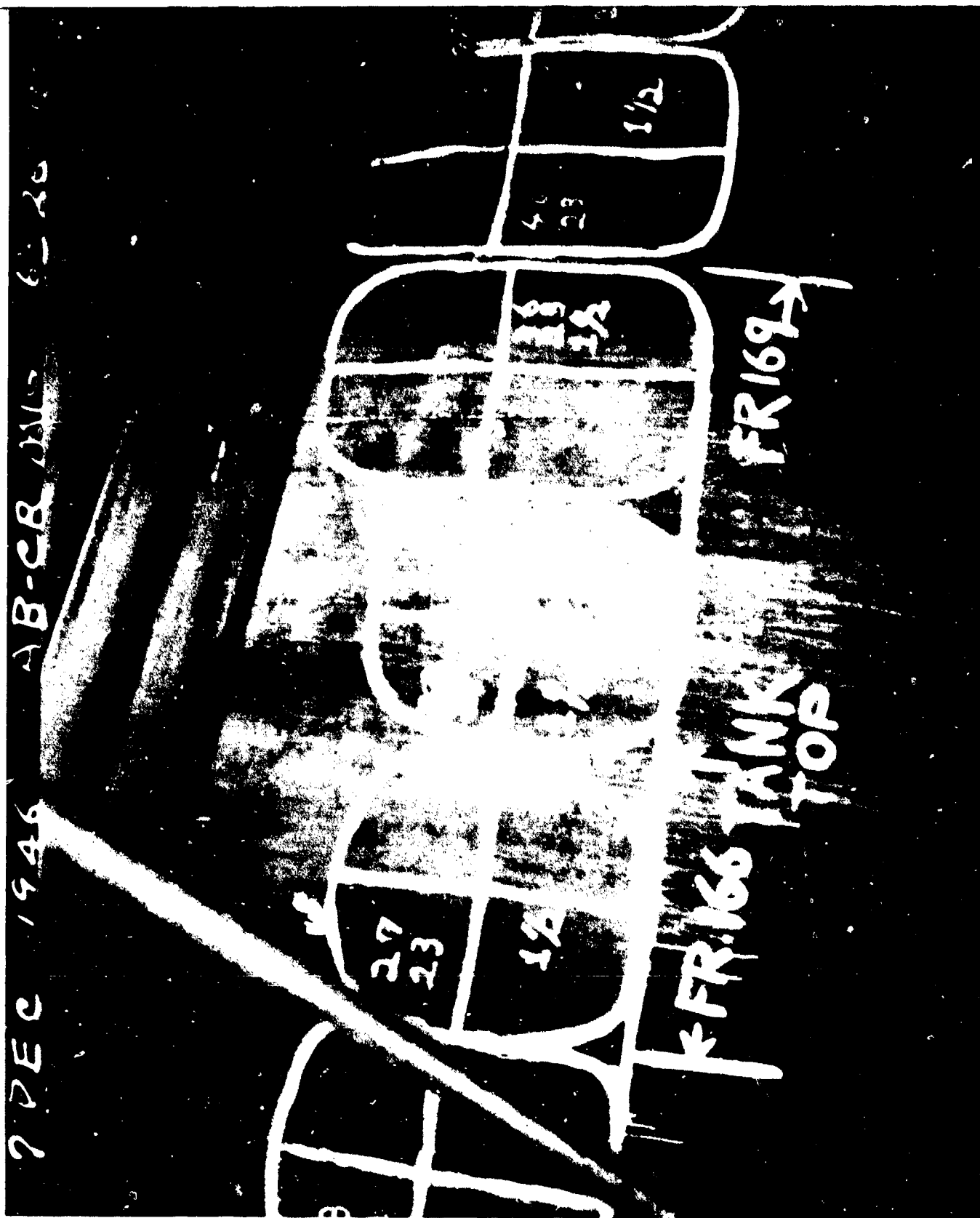
AB-CR-MIG-6526-12. Dimples in non-circular pressure hull - frames 160-166, port.

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AB-CR-MIG-6526-11. Dimples in non-circular pressure hull - frames 166-170, port.

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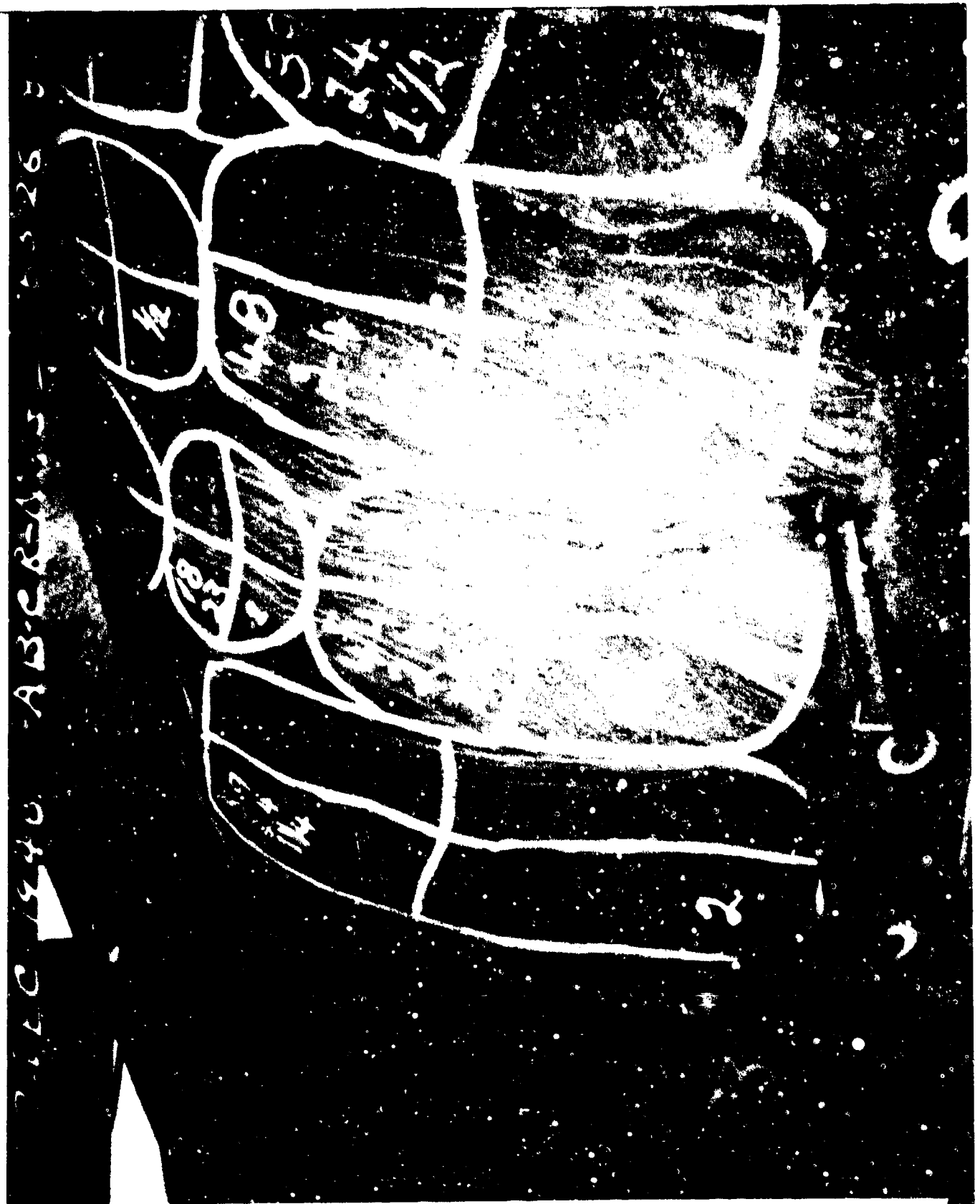
AB-CR-MIG-6526-10. Dimples in non-circular pressure hull - frames 170-177, port.

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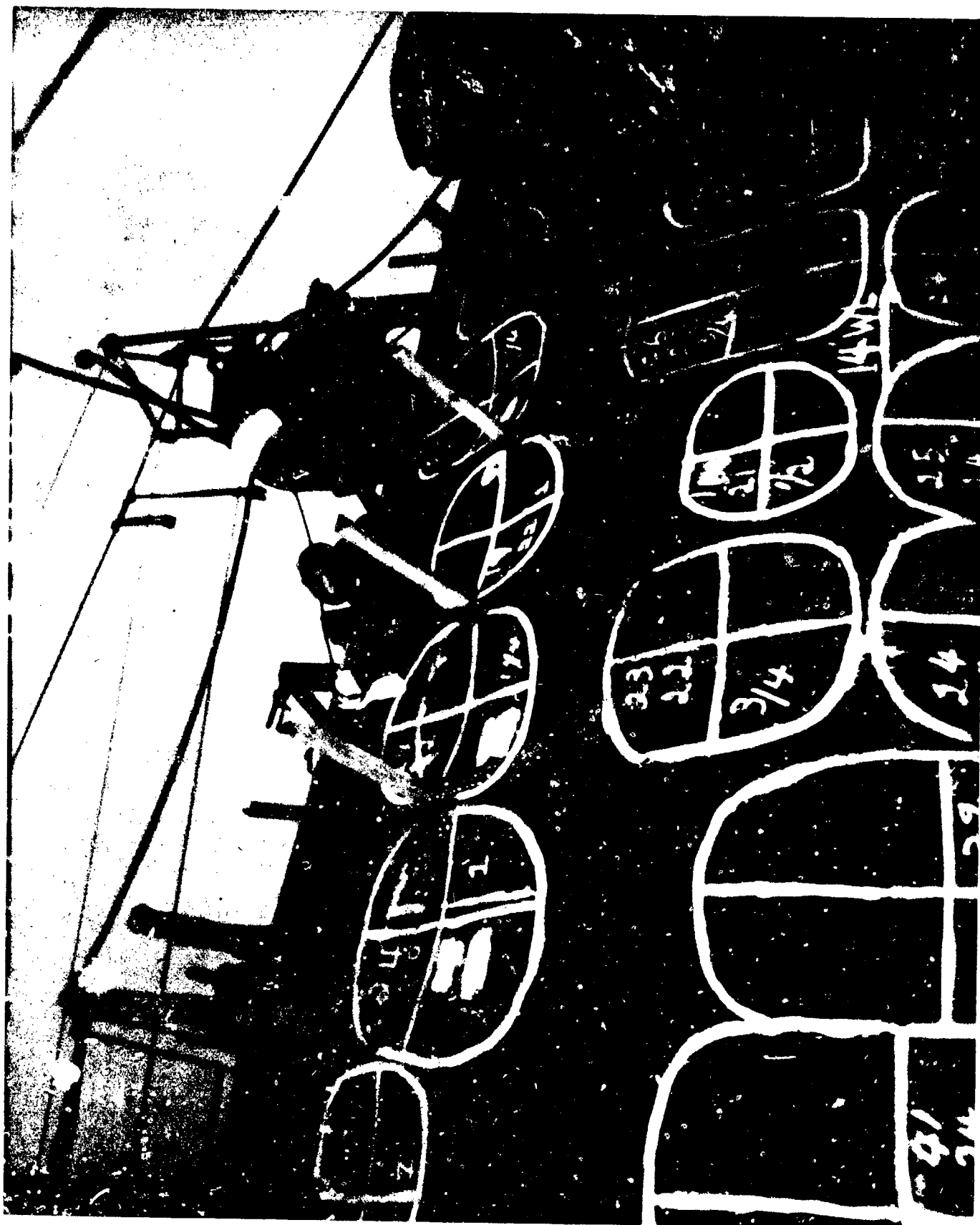
AB-CR-MIG-6526-8. Dimples in non-circular pressure hull - frames 174-177, port.

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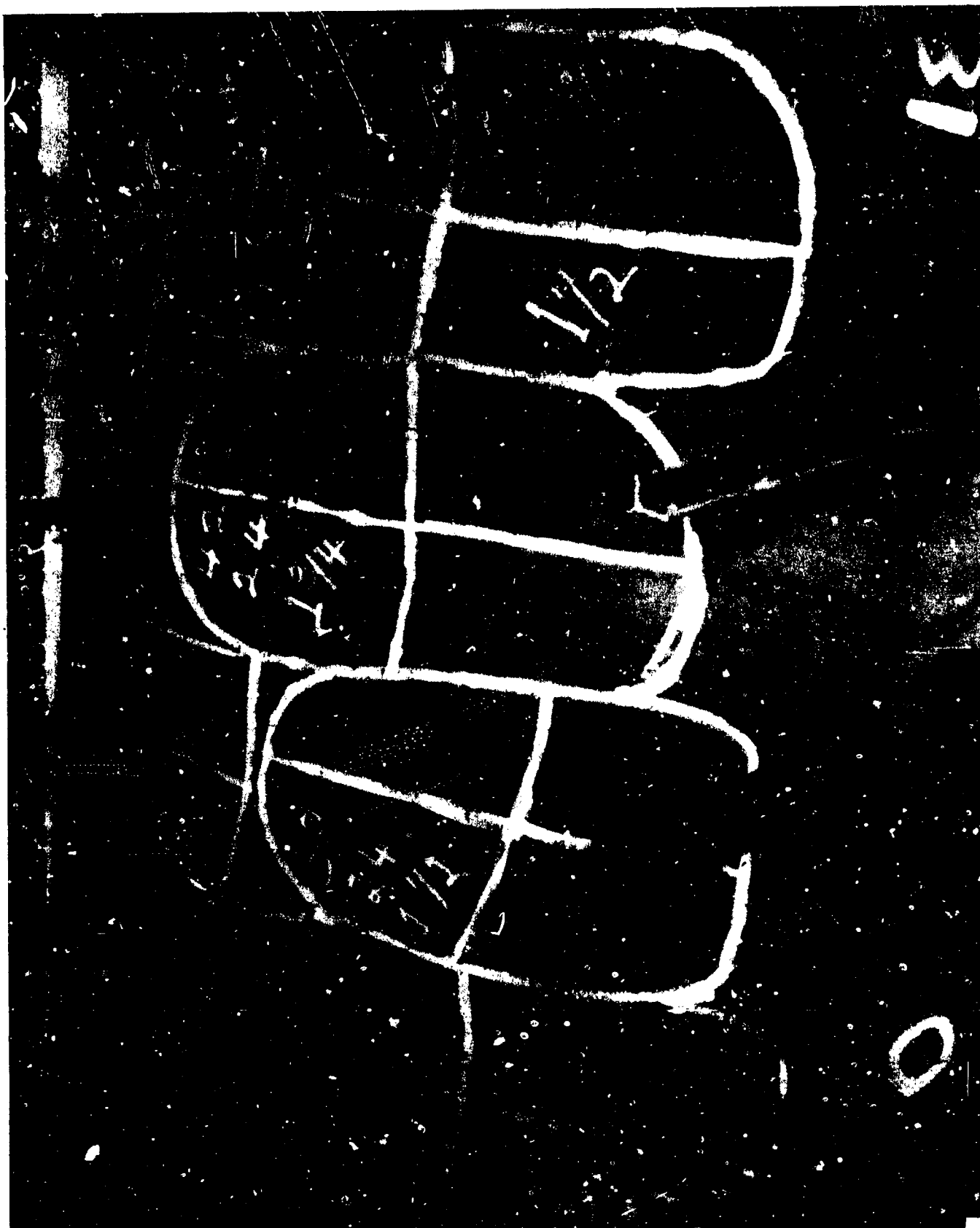
AB-CR-MIG-6527-4. Dimples in non-circular pressure hull - frames 172-178, port, maximum beam to top.

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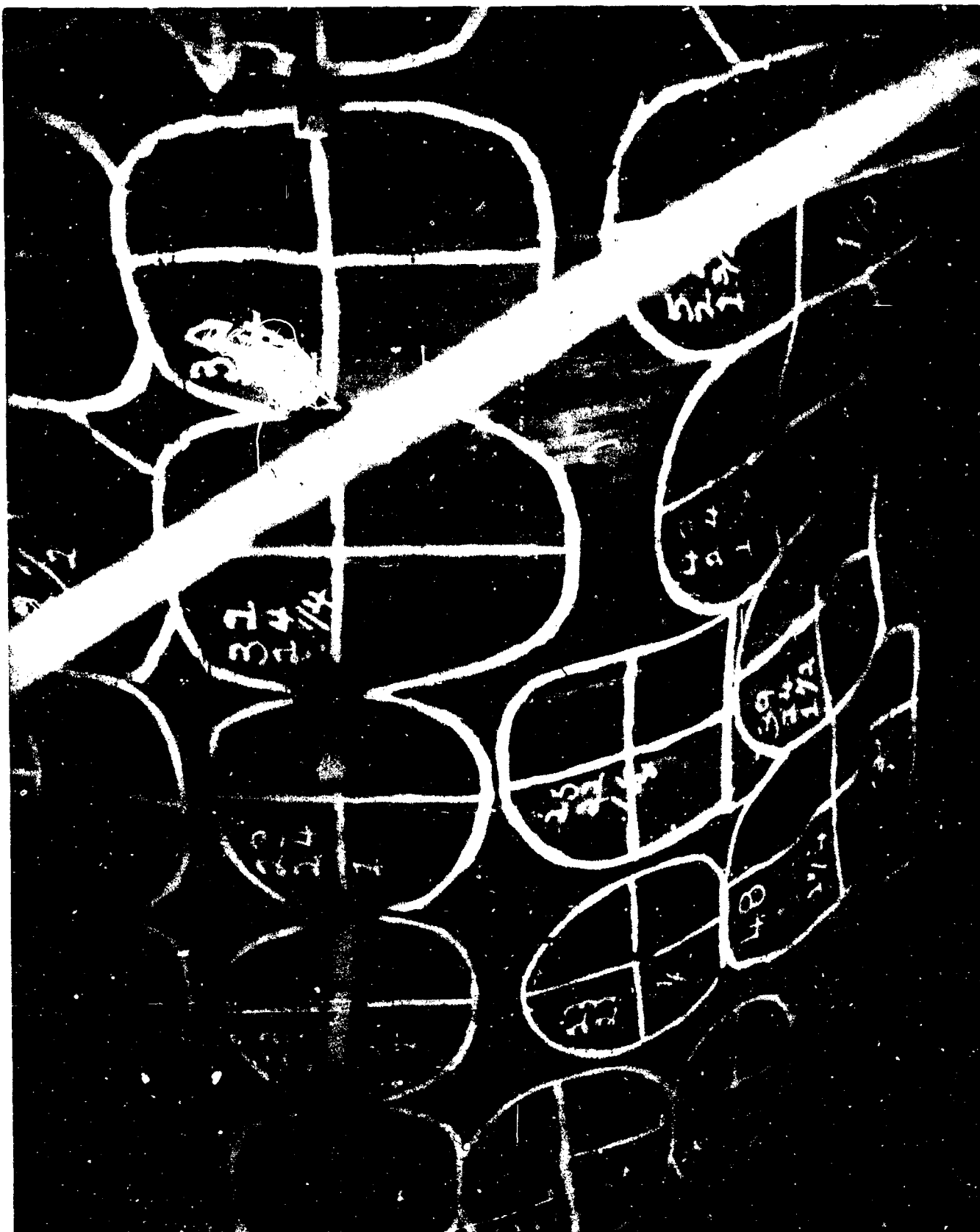
AB-CR-MIG-6526-9. Diraples in non-circular pressure hull - frames 176-180, port, just above keel.

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AB-CR-MIG-6527-5. Dimples in non-circular pressure hull - frames 176-180, port just above keel.

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AB-CR-MIG-6527-6. Dimples in non-circular pressure hull - frames 176-180, port maximum beam to top.

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AB-CR-MIG-6527-7. Dimples in non-circular pressure hull - frames 179-184, port.

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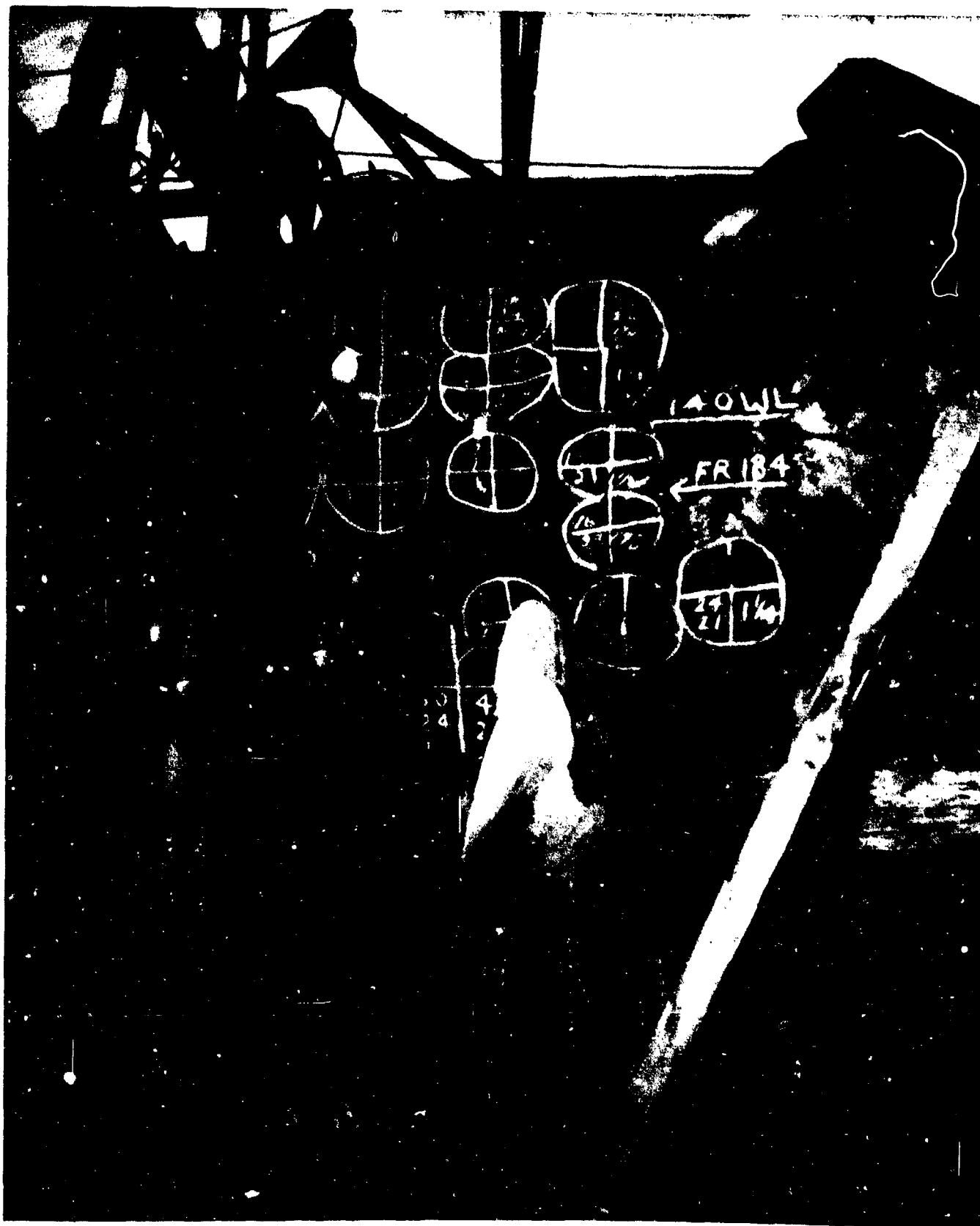
AB-CR-MIG-6527-9. Dimples in non-circular pressure hull - frames 181-183, port.

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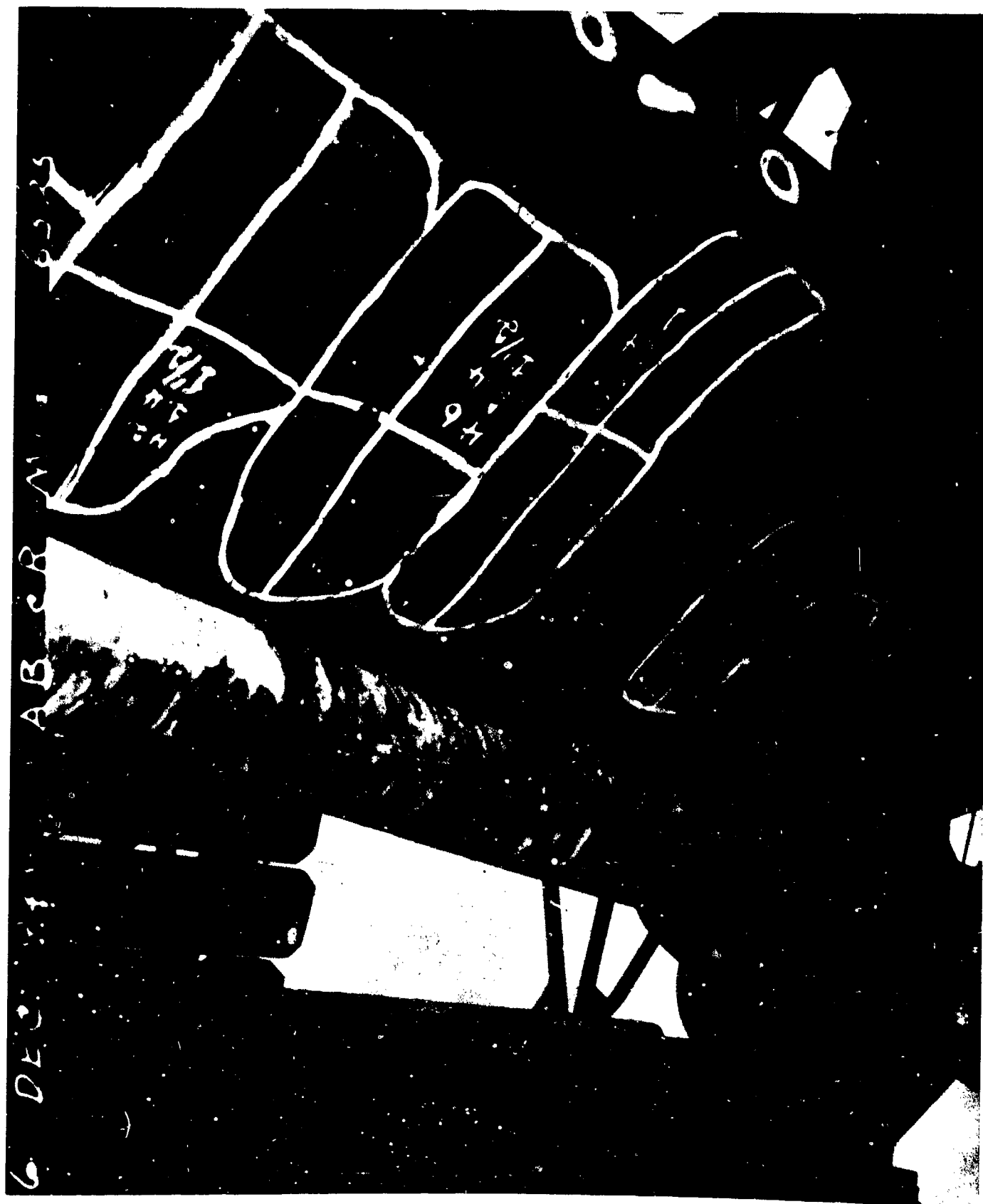
AB-CR-MIG-6527-8. Dimples in non-circular pressure hull - frames 181-185, port.

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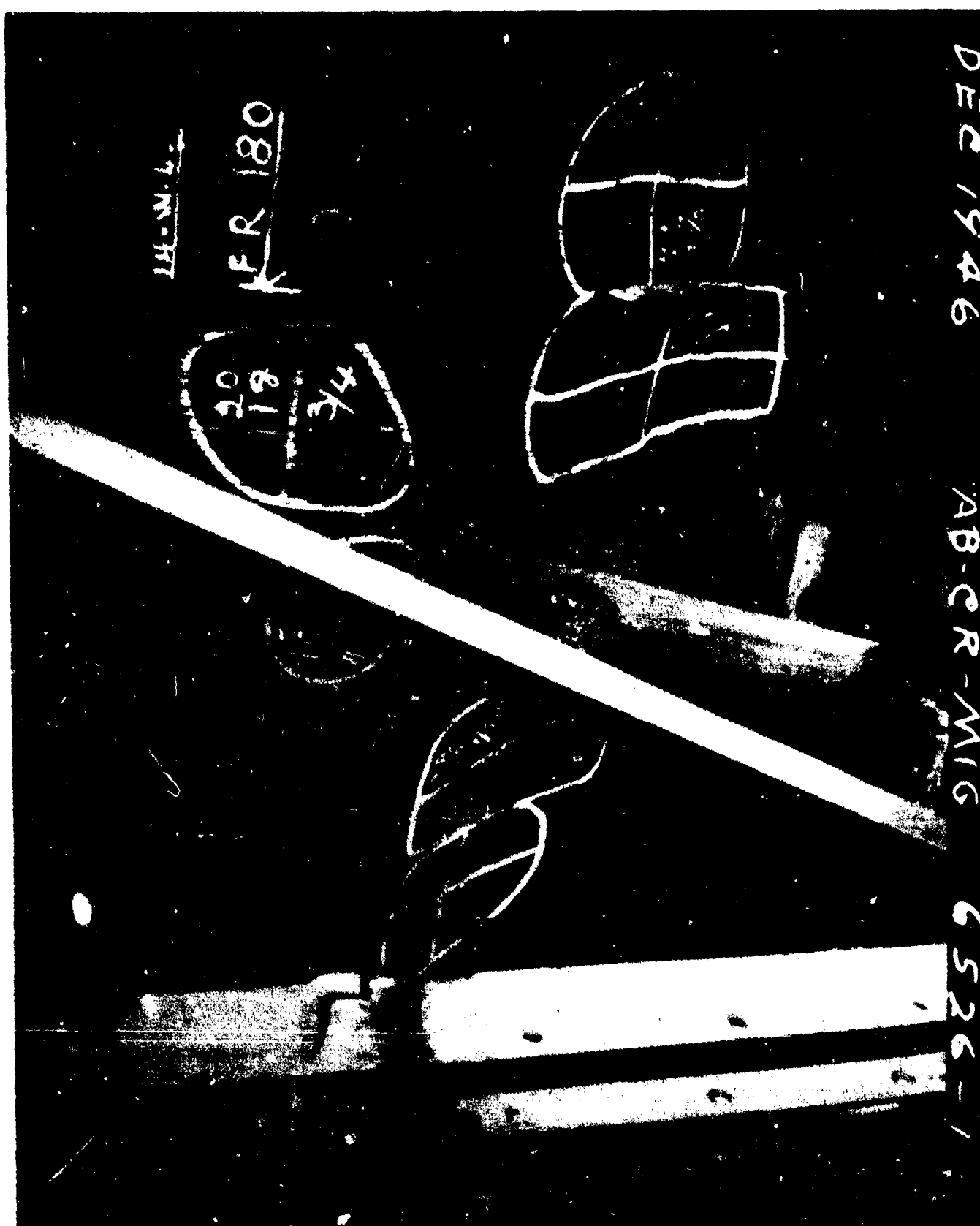
AB-CR-MIG-6525-11. Dimples in non-circular pressure hull - frames 178-184, starboard.

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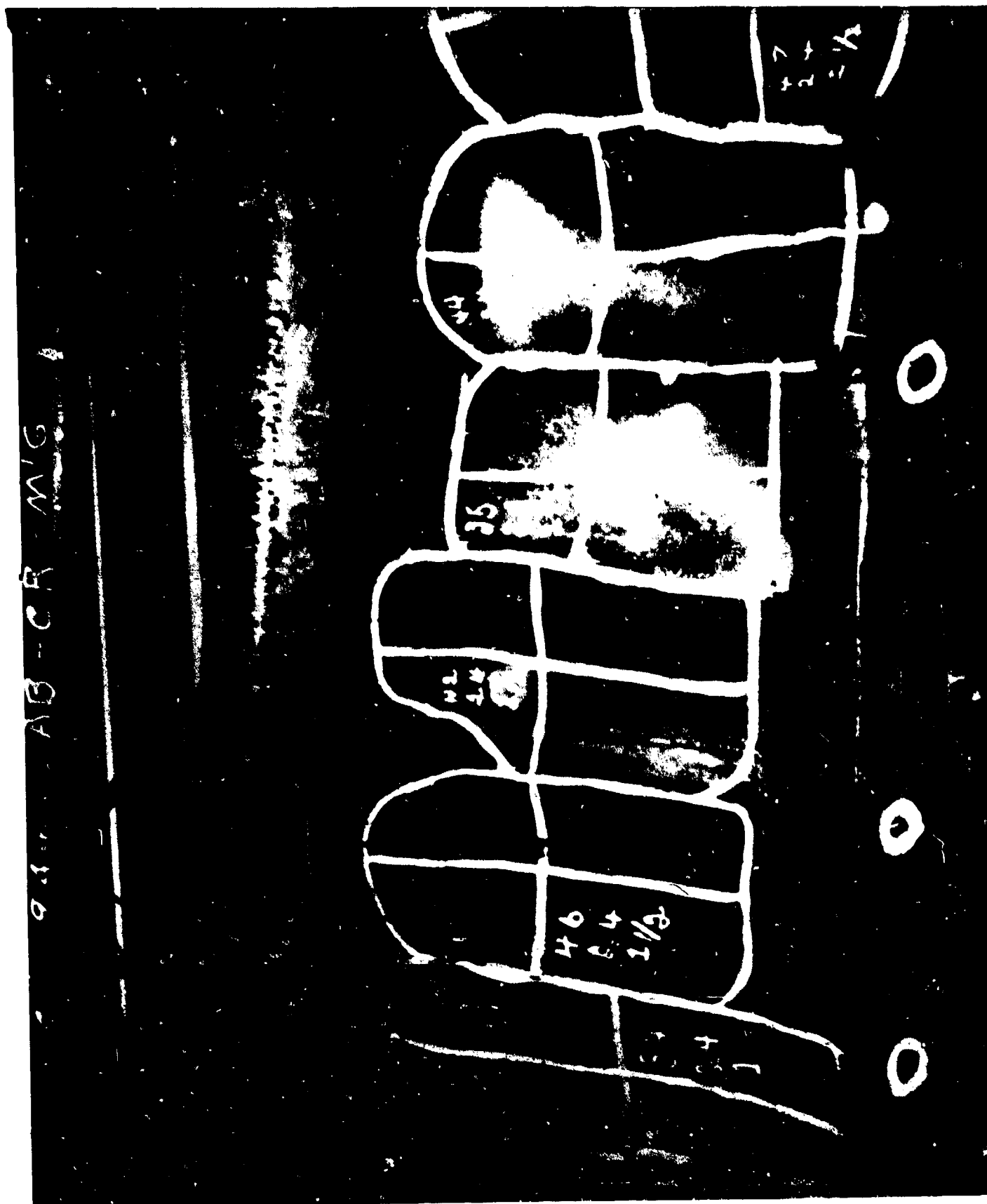
AB-CR-MIG-6b26-1. Dimples in non-circular pressure hull - frames 179-184, starboard.

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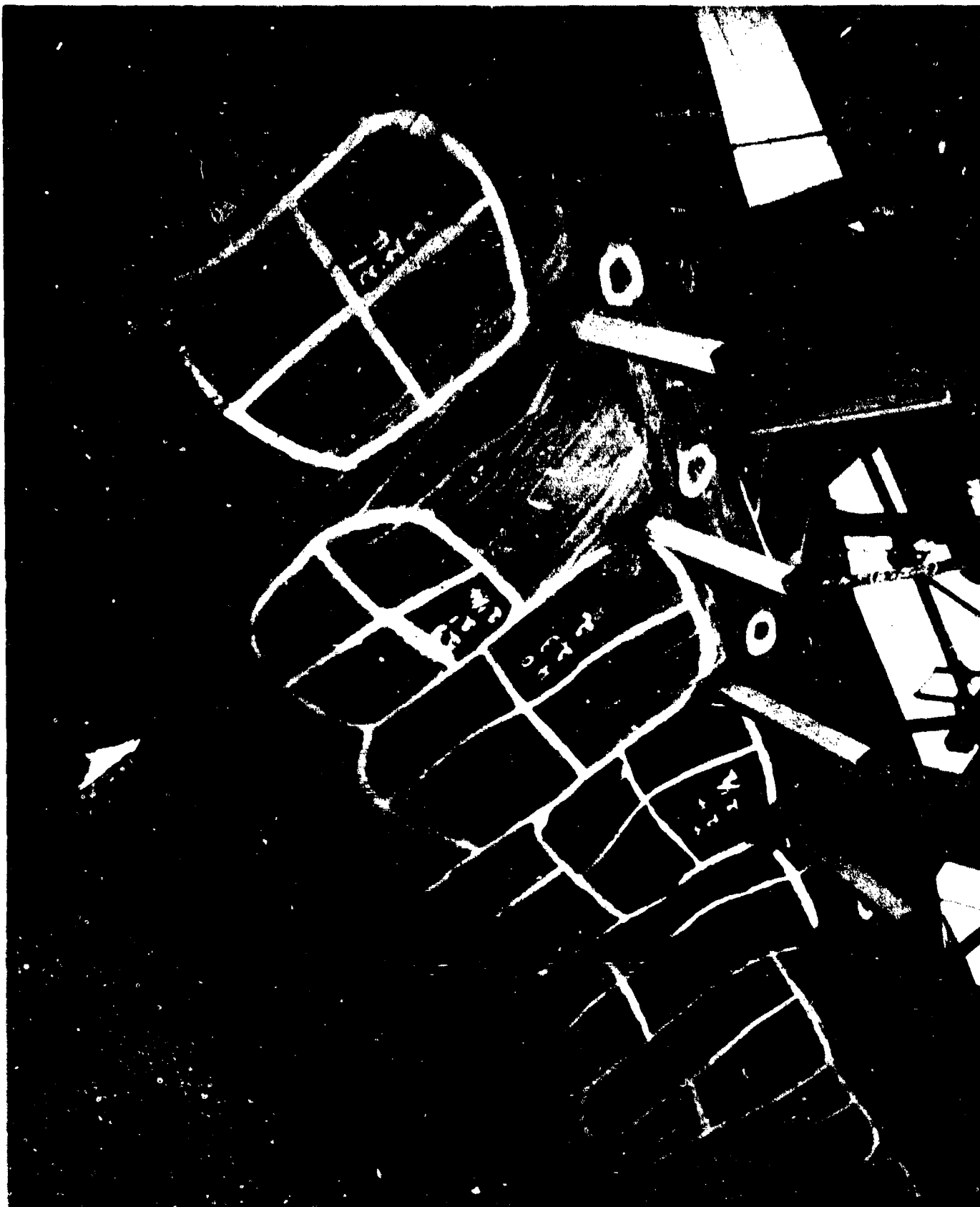
AB-CR-MIG-6525-6. Dimples in non-circular pressure hull - frames 176-181, starboard, lower part.

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AB-CR-MIG-6525-5. Dimples in non-circular pressure hull - frames 172-178, starboard, lower part.

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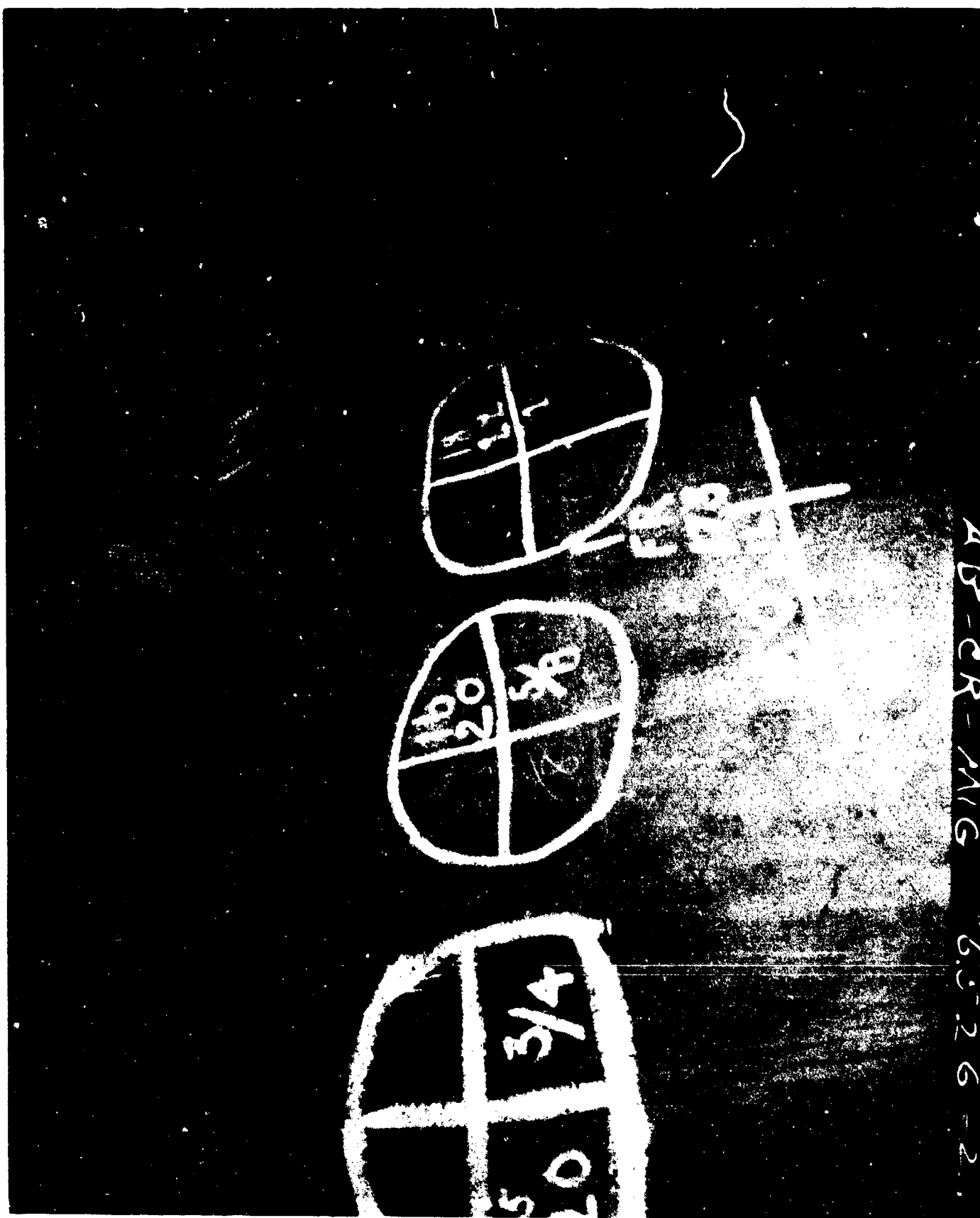
AB-CR-MIG-6526-3. Dimples in non-circular pressure hull - frames 174-178, starboard, at 18' water line.

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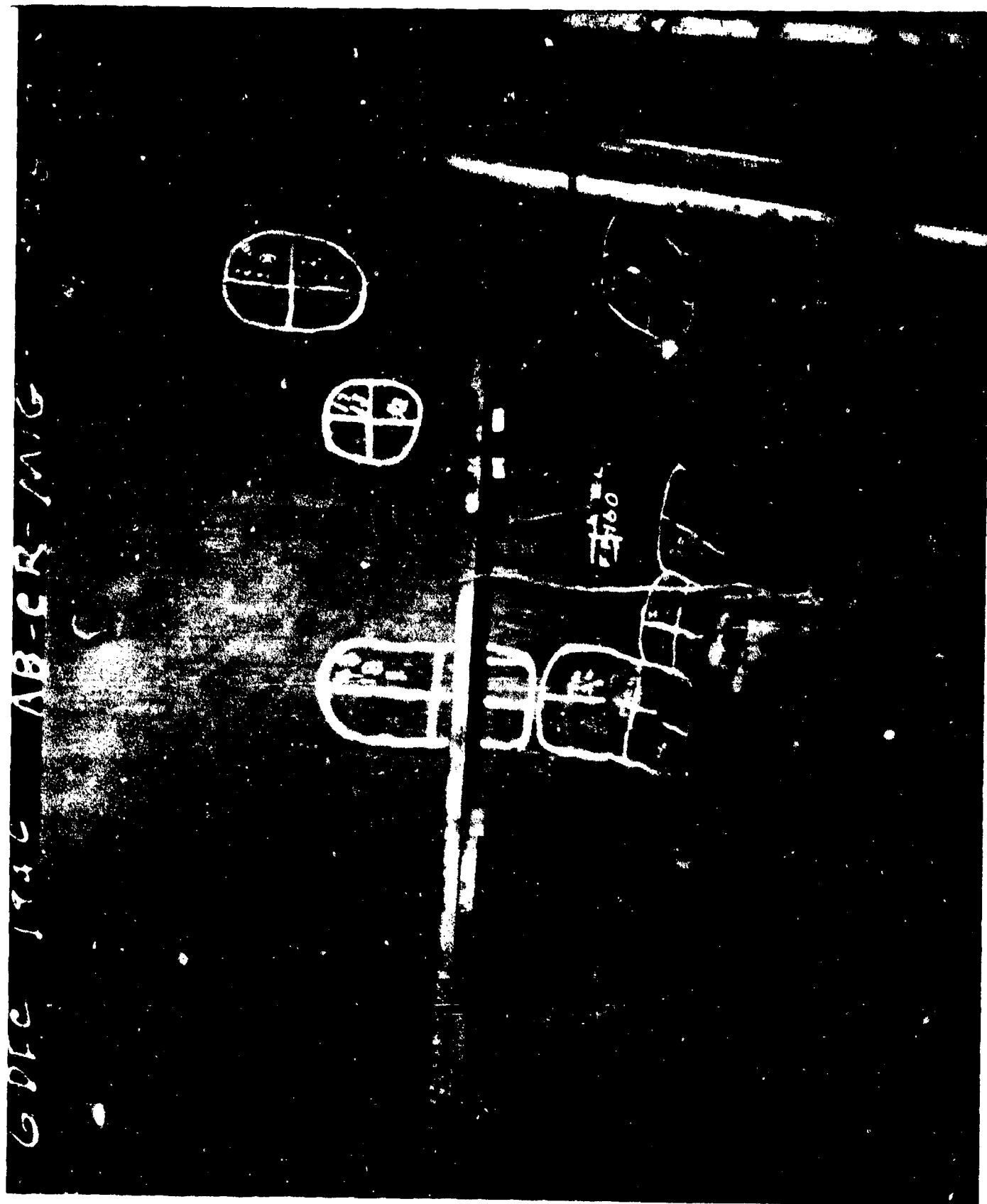
AB-CR-MIG-6526-2. Dimple in non-circular pressure hull-frames 171-175, starboard at 18' water line.

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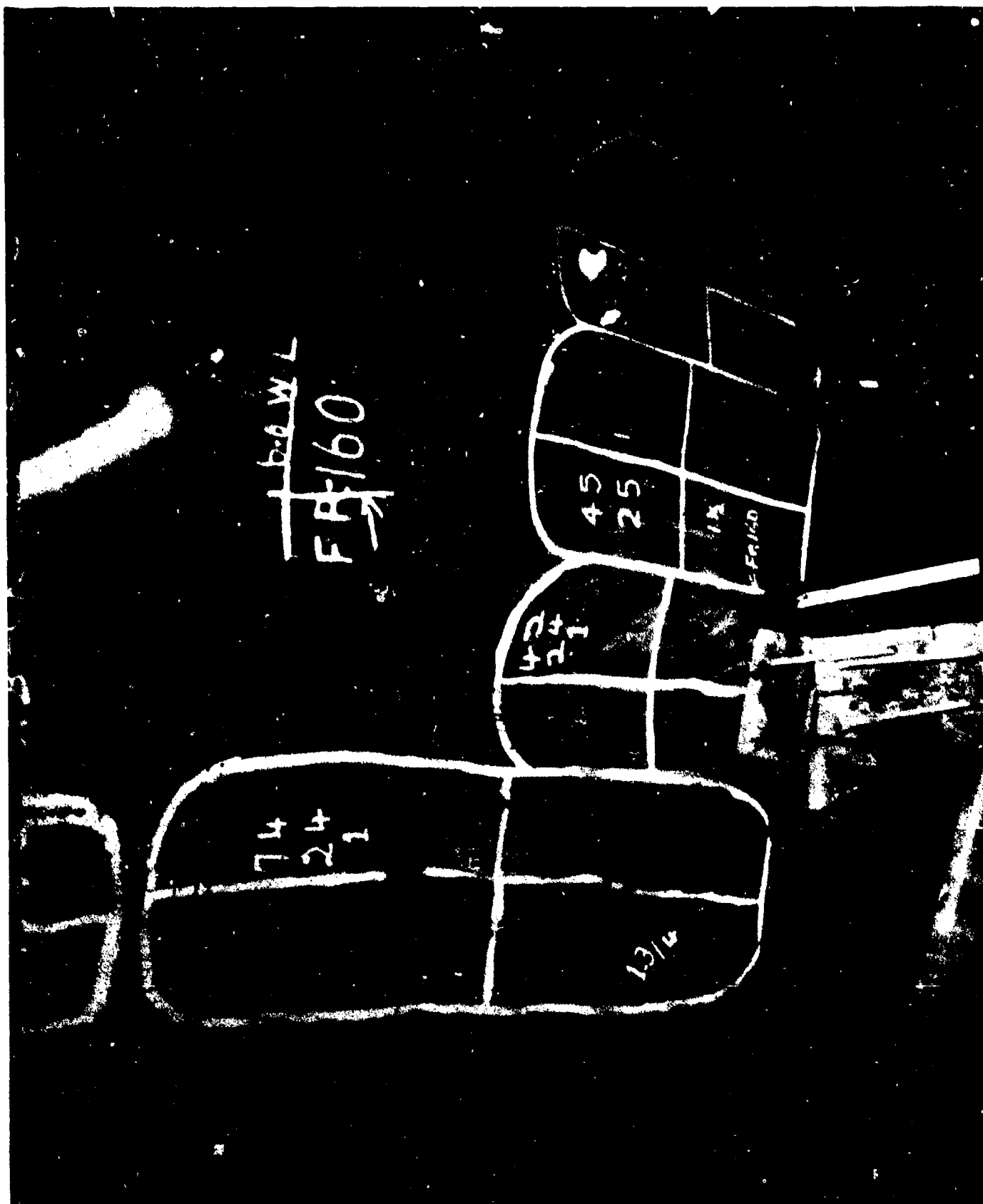
AB-CR-MIG-6525-7. Dimples in non-circular pressure hull - frames 157-164, starboard.

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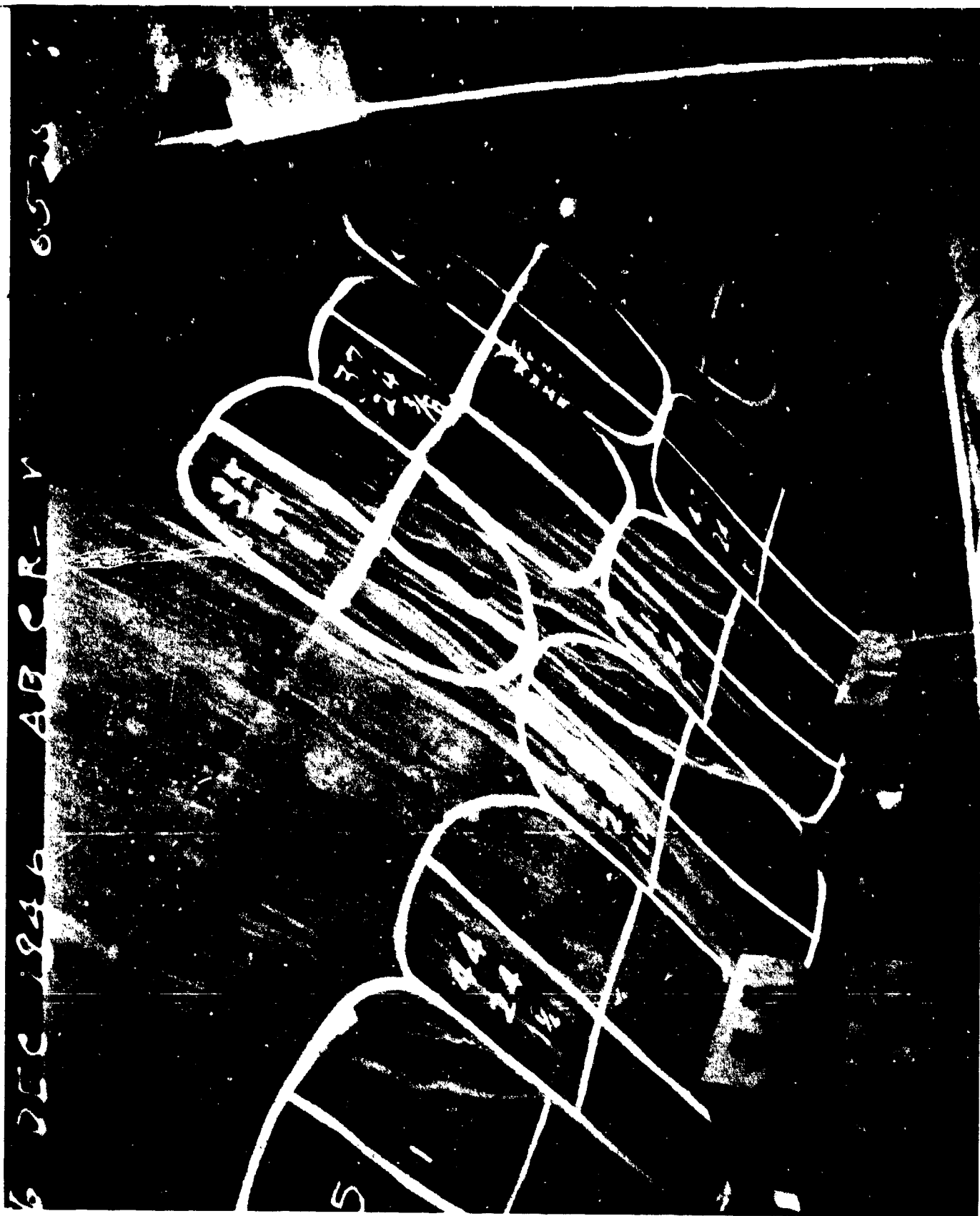
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AB-CR-MIG-6525-8. Dimples in non-circular pressure hull - frames 157-162, star board.

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AB-CR-MIG-6525-9. Dimples in non-circular pressure hull - frames 153-159, starboard.

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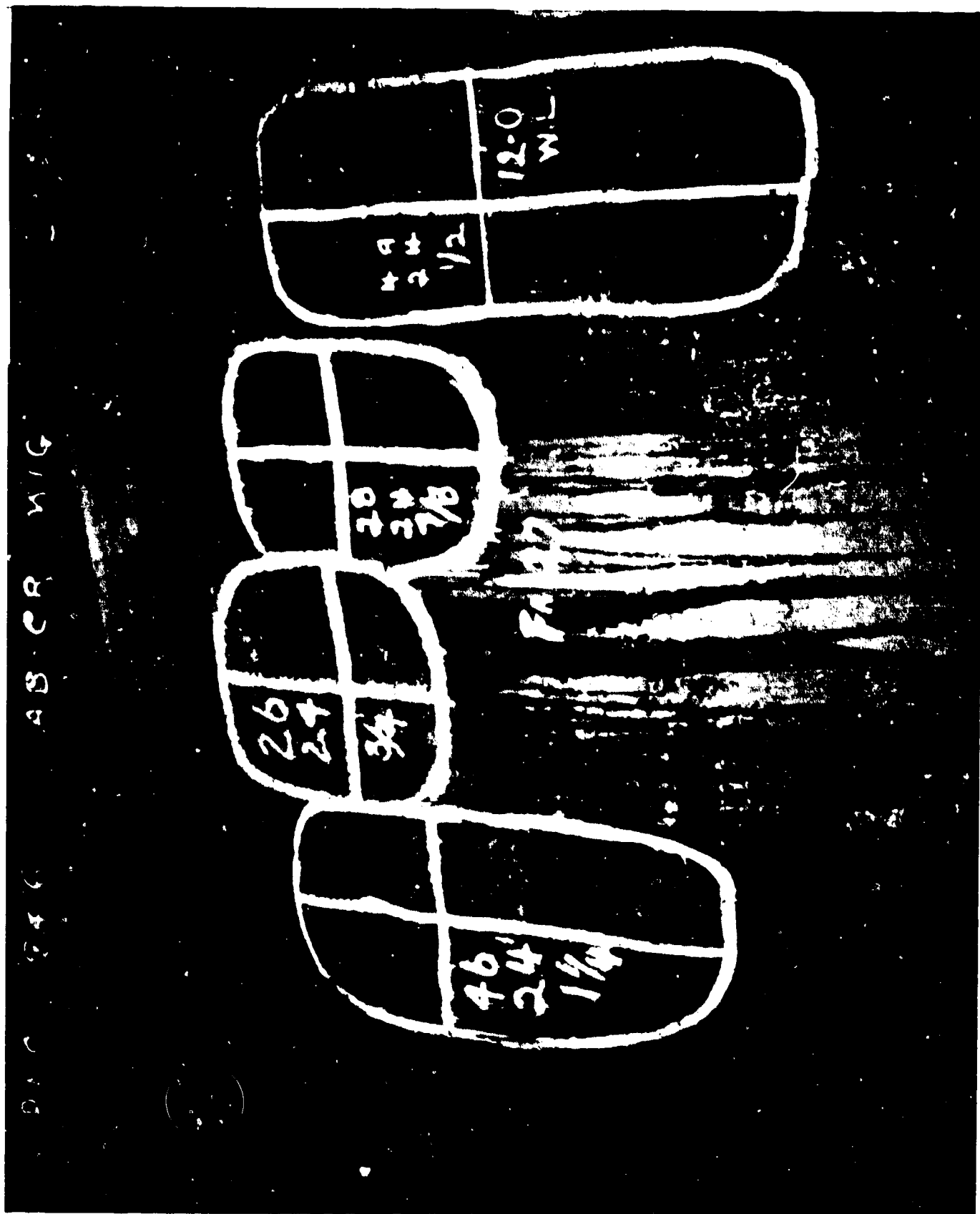
AB-CR-MIG-6525-10. Dimples in non-circular pressure hull-frames
27-33, starboard.

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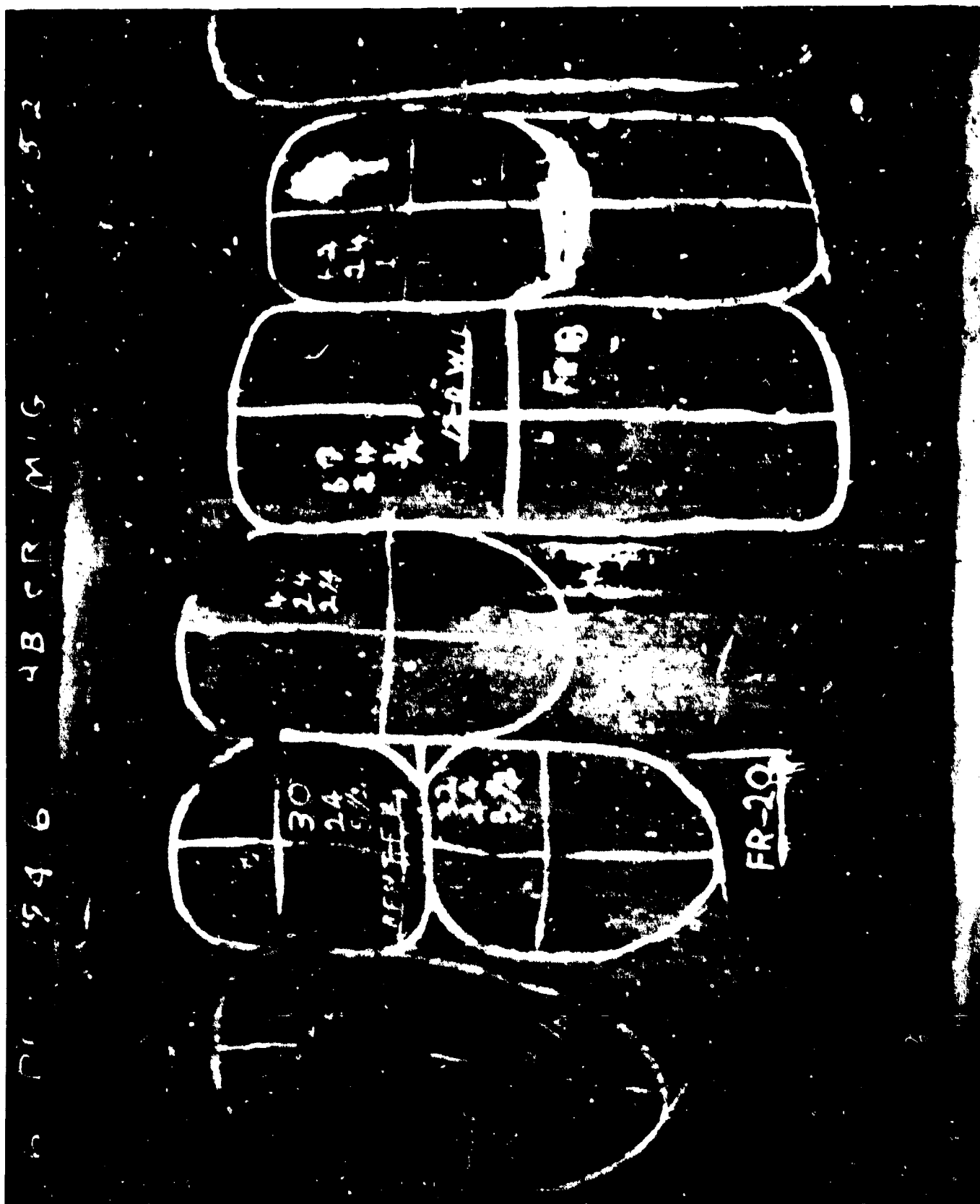
AB-CR-MIG-6525-2. Dimples in non-circular pressure hull - frames 25-29, starboard.

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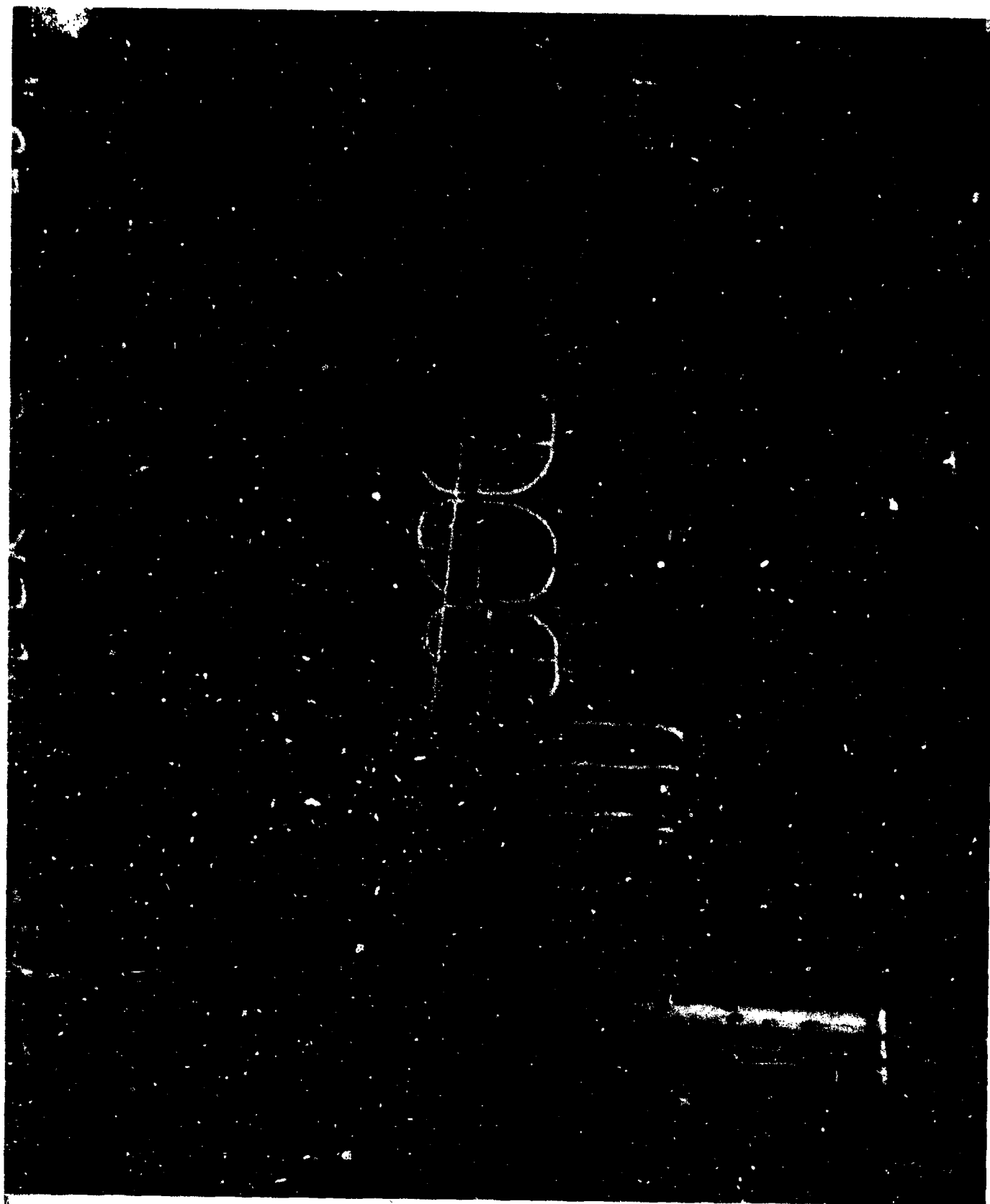
AB-CR-MIG-6525-1. Dimples in non-circular pressure hull - frames 17-22, starboard-

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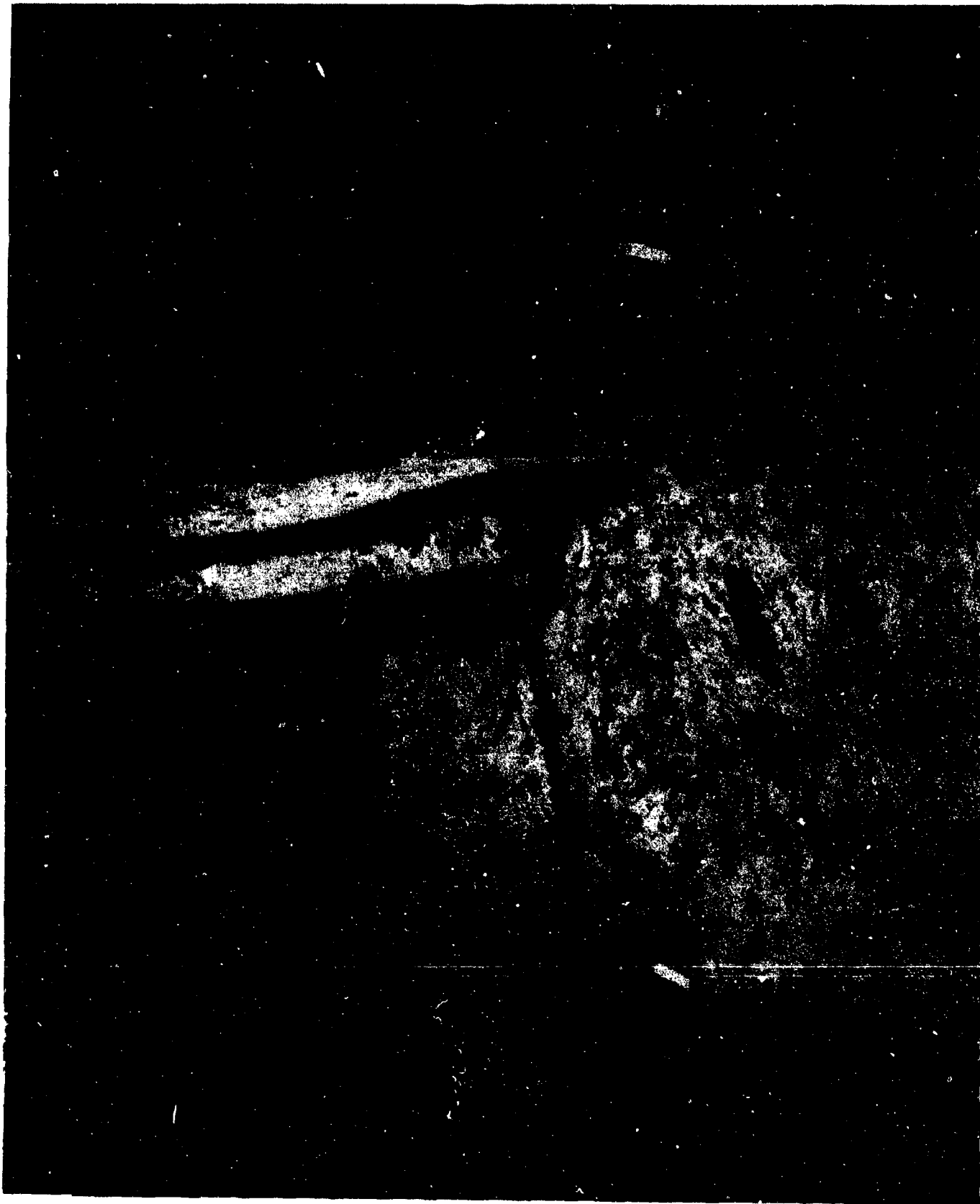
AB-CR-MIG-6525-12. Dimples in non-circular pressure hull - frames 13-17 starboard.

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AB-CR-SM-6500-10. Divers repair weld in shell fracture at frame 30, port.

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AB-CR-MIG-6518-6. View of plating fracture at frame 30, port, looking up from interior.

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AB-CR-MIG-6529-2. Plating fracture at frame 30, port, after repair weld was removed.

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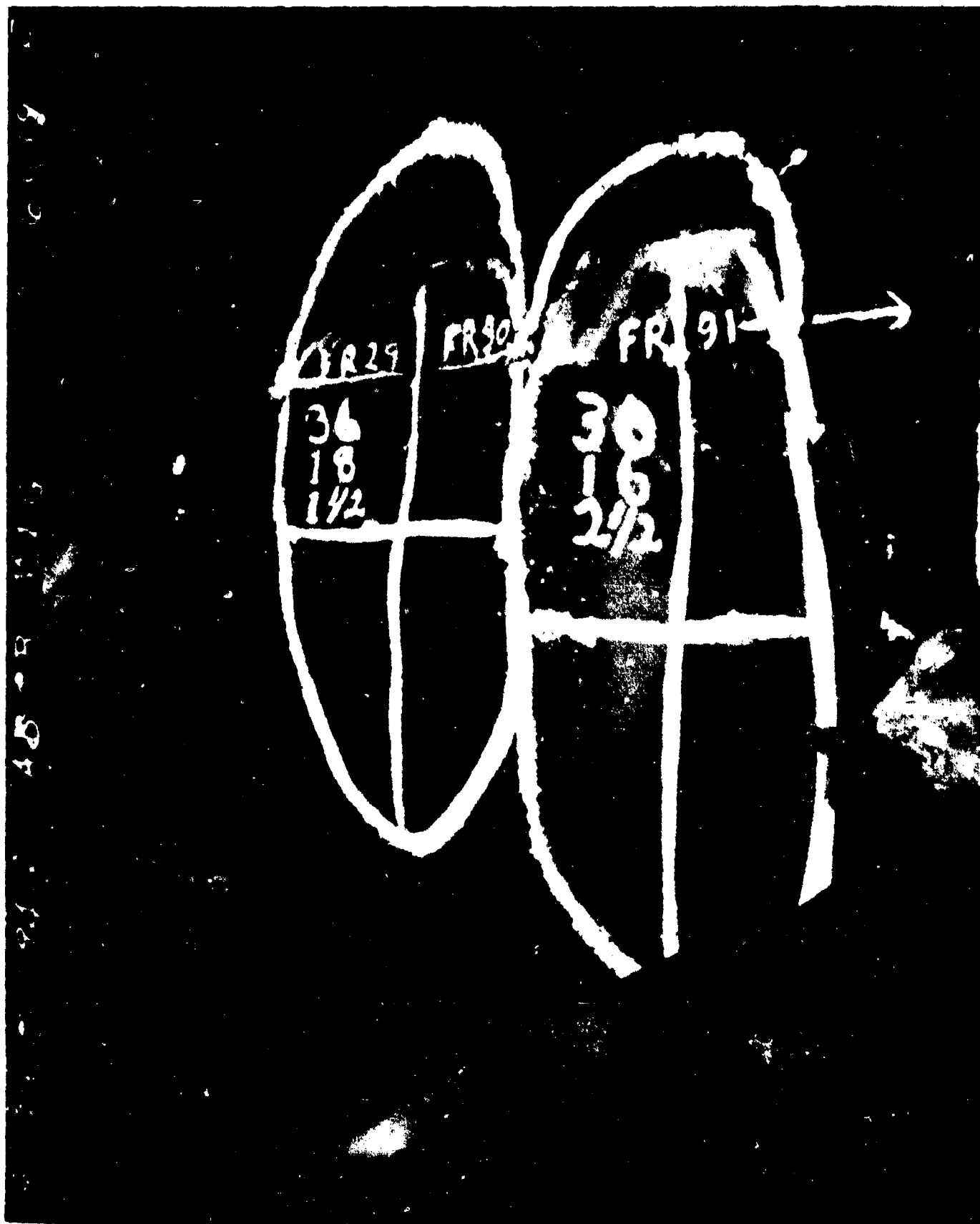
AB-CR-MIG-6529-3. Plating fracture at frame 30, port, looking up, repair weld removed.

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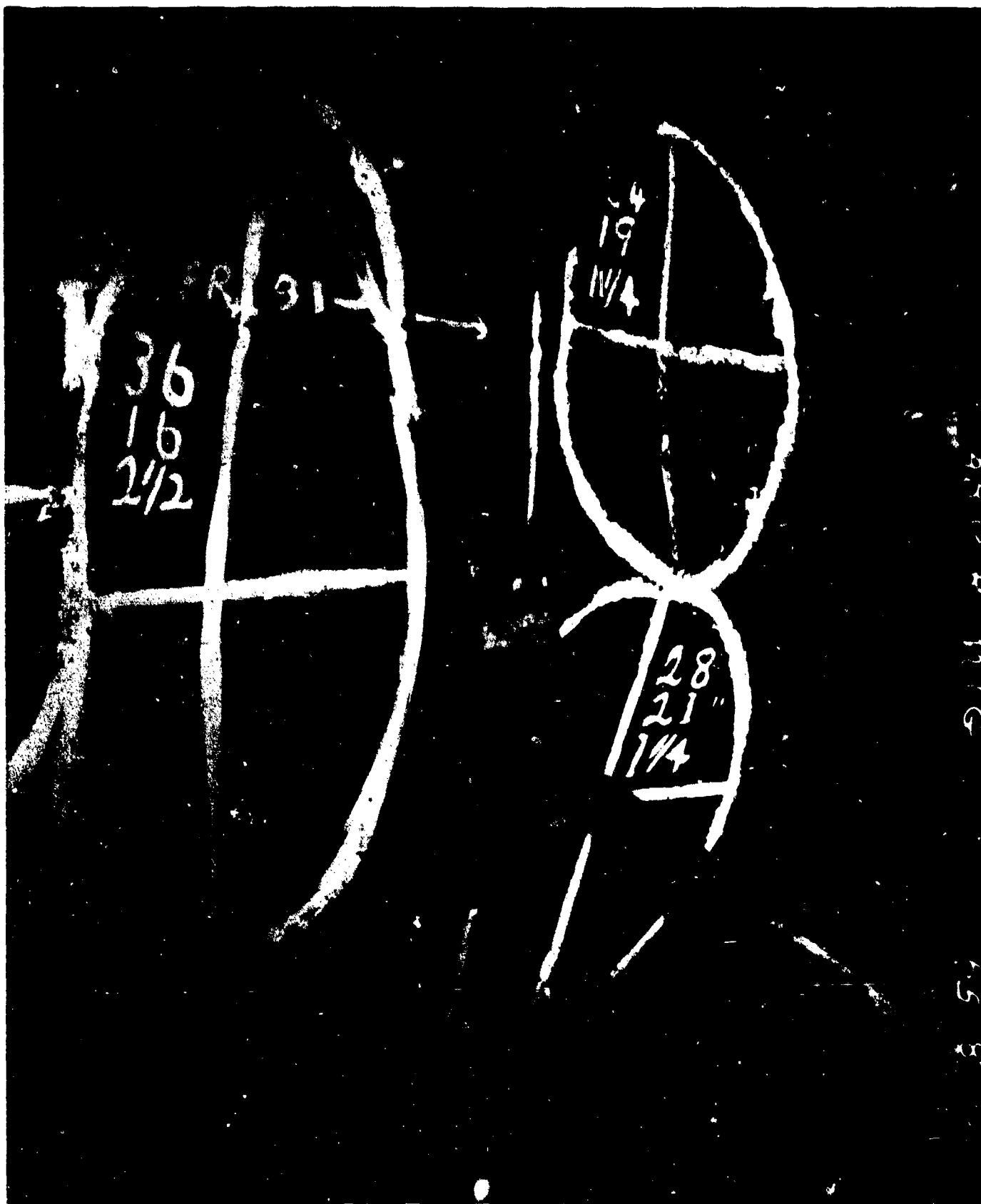
AB-CR-MIG-6518-5. Dimple in top of non-circular pressure hull - frames 29-31 port.

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AB-CR-MIG-6518-6. Dimple in top of non-circular pressure hull - frames 30-32 port.

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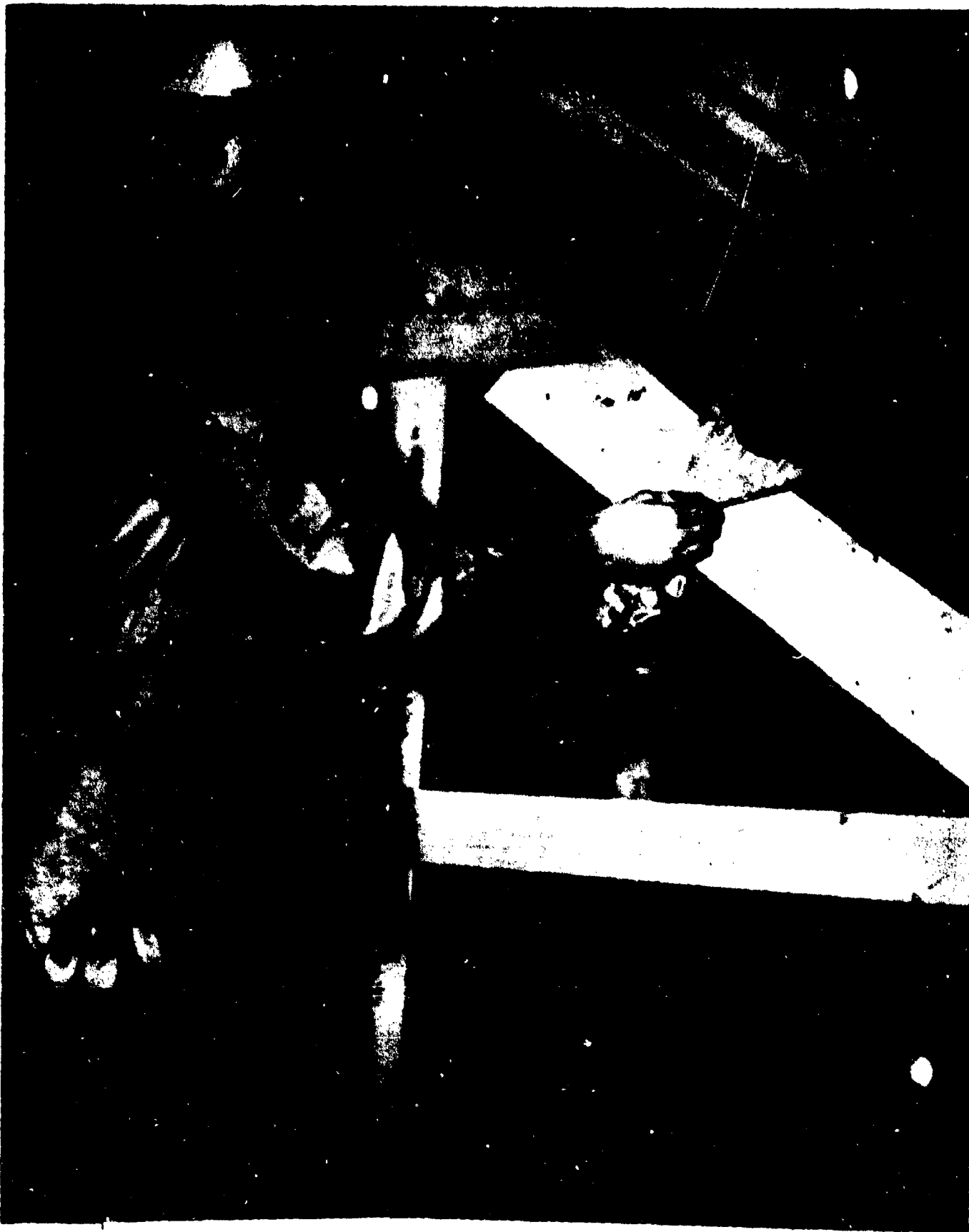
AB-CR-MIG-6520-11. Overall view of method for measuring frame distortion of non-circular hull.

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AB-CR-MIG-6520-12. Close up of scribing operation where frame distortion is not abrupt.

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AB-CR-MIG-6528-1. Distortion of frame 21, starboard, looking forward
Note web wrinkle and shell bulge.

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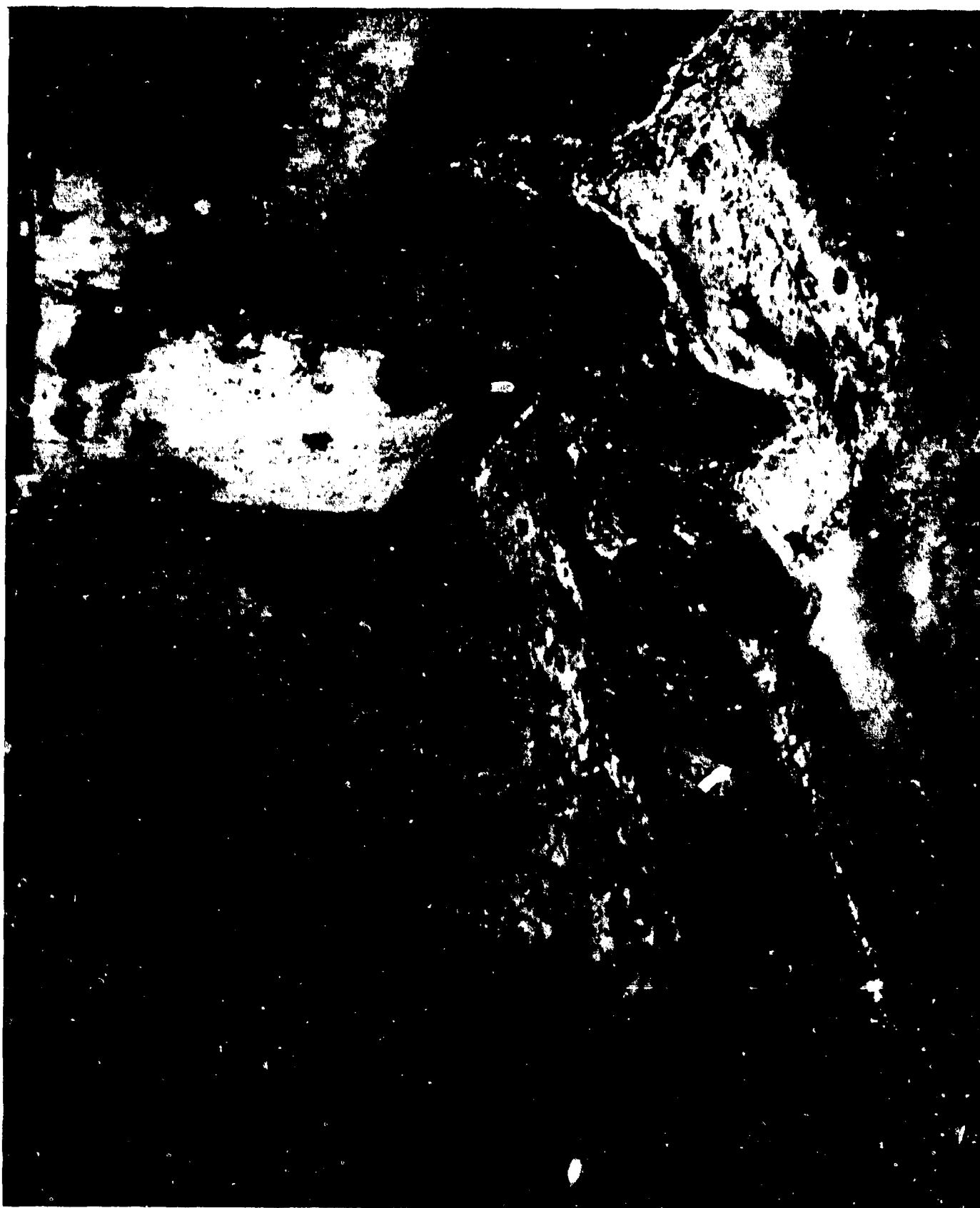
AB-CR-MIG-6528-4. Bulge in frame 31, port, 4' above tank top - Looking forward.

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AB-CR-MIG-652 -2. Distortion at foot of frame 31, port, looking aft.

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AB-CR-MIG-6528-3. Flange distortion of frame 32, port, looking out-board.

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AB-CR-MIG-6516-10. Frame 158, port, showing general collapse and buckled flange.

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AB-CR-MIG-6528-6. Collapse of floors at frames 177 and 178, just to starboard of keel. Looking aft.

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AB-CR-MIG-6528-7. Collapse of floors at frames 177 and 178, just to port of keel. Looking aft.

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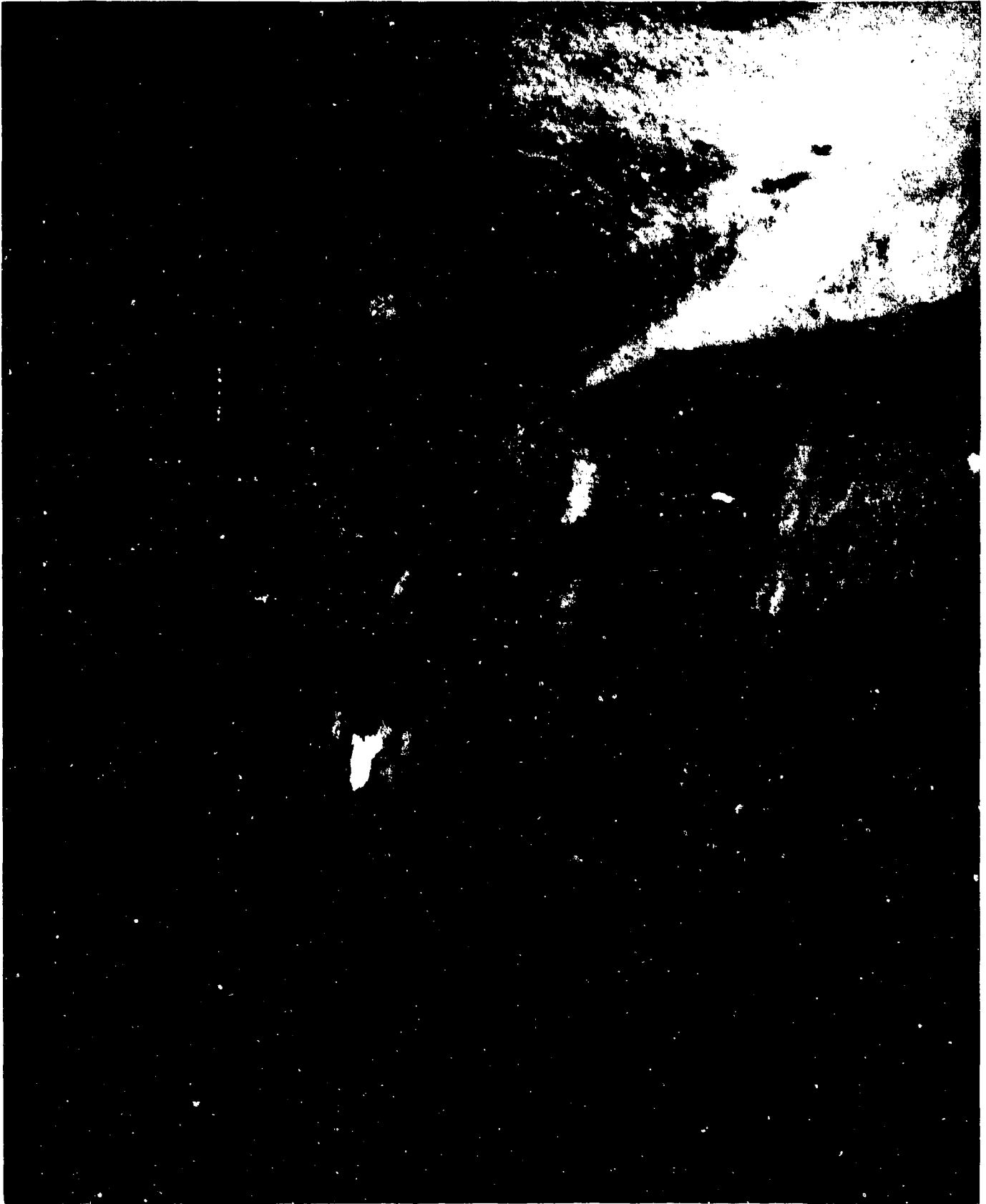
AB-CR-MIG-6520-8. Frame 24, starboard. Cracked weld at intersection of face plate in bulkhead with tank top.

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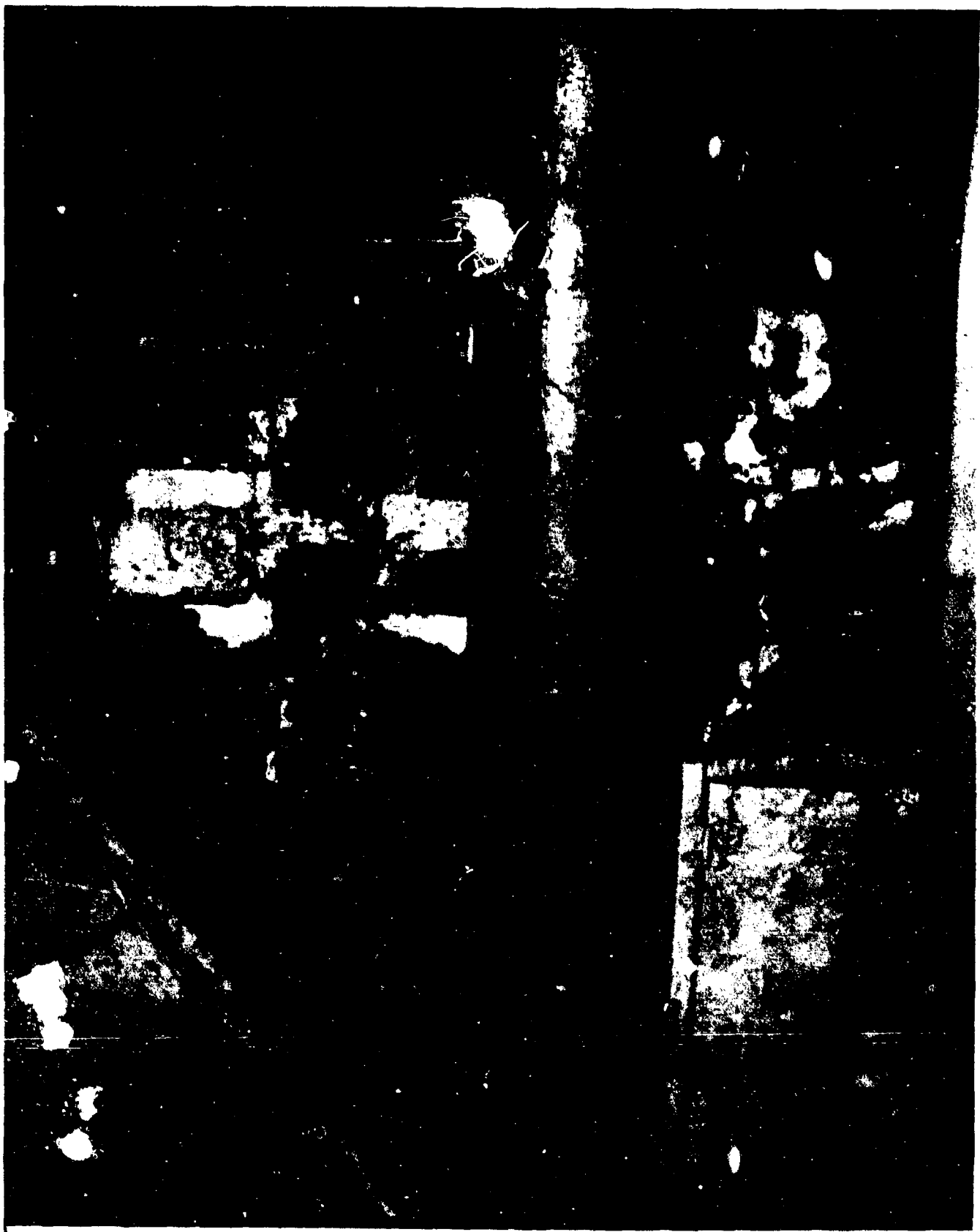
AB-CR-MIG-6520-9. Frame 25, starboard, cracked weld at intersection of face plate in floor with tank top.

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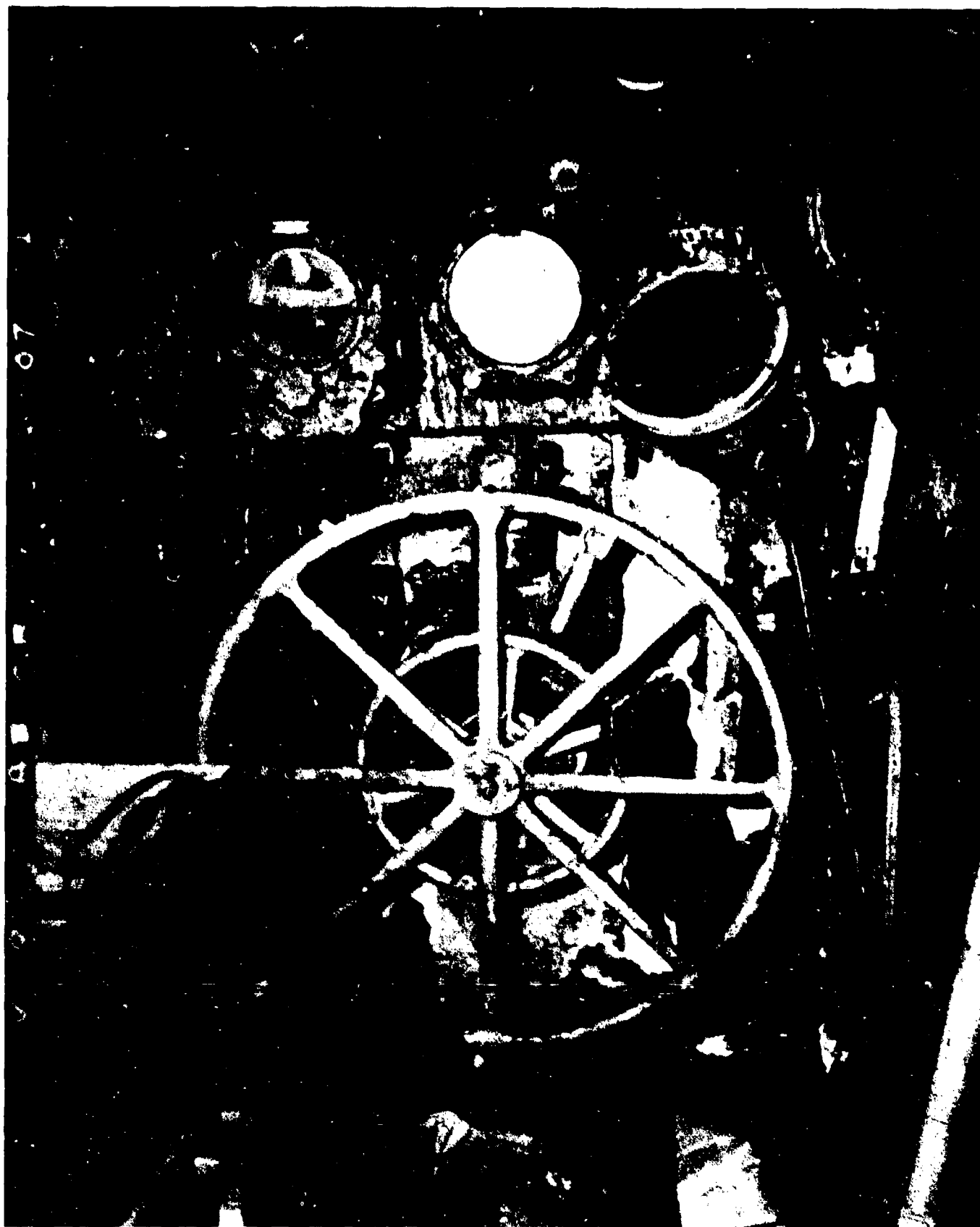
AB-CR-MIG-6507-11. Conning tower after bulkhead. Note loose cork.

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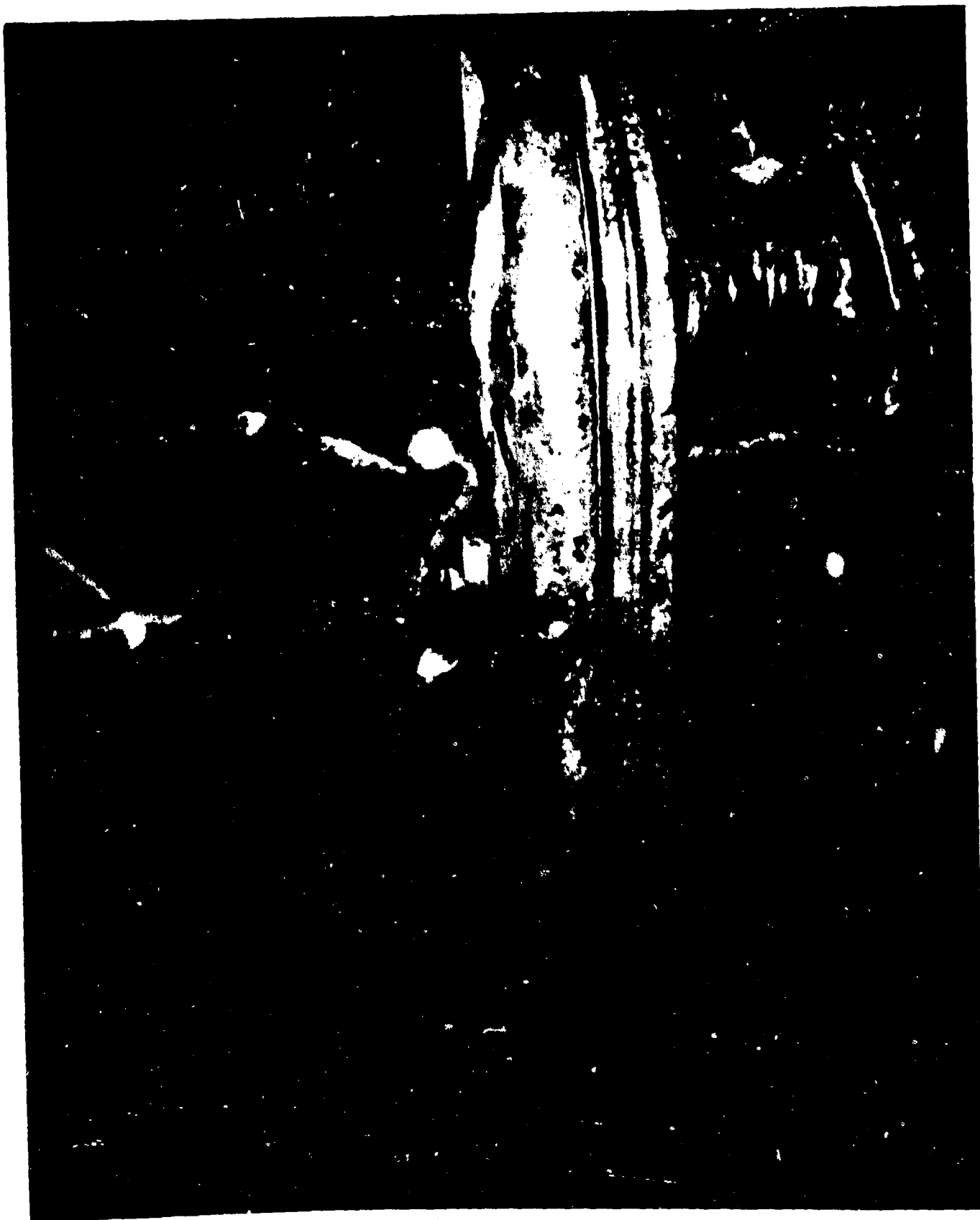
AB-CR-MIG-6507-12. Conning tower forward bulkhead. Note loose cork.

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AB-CR-MIG-6506-8. Access door to forward escape trunk, dished in at center.

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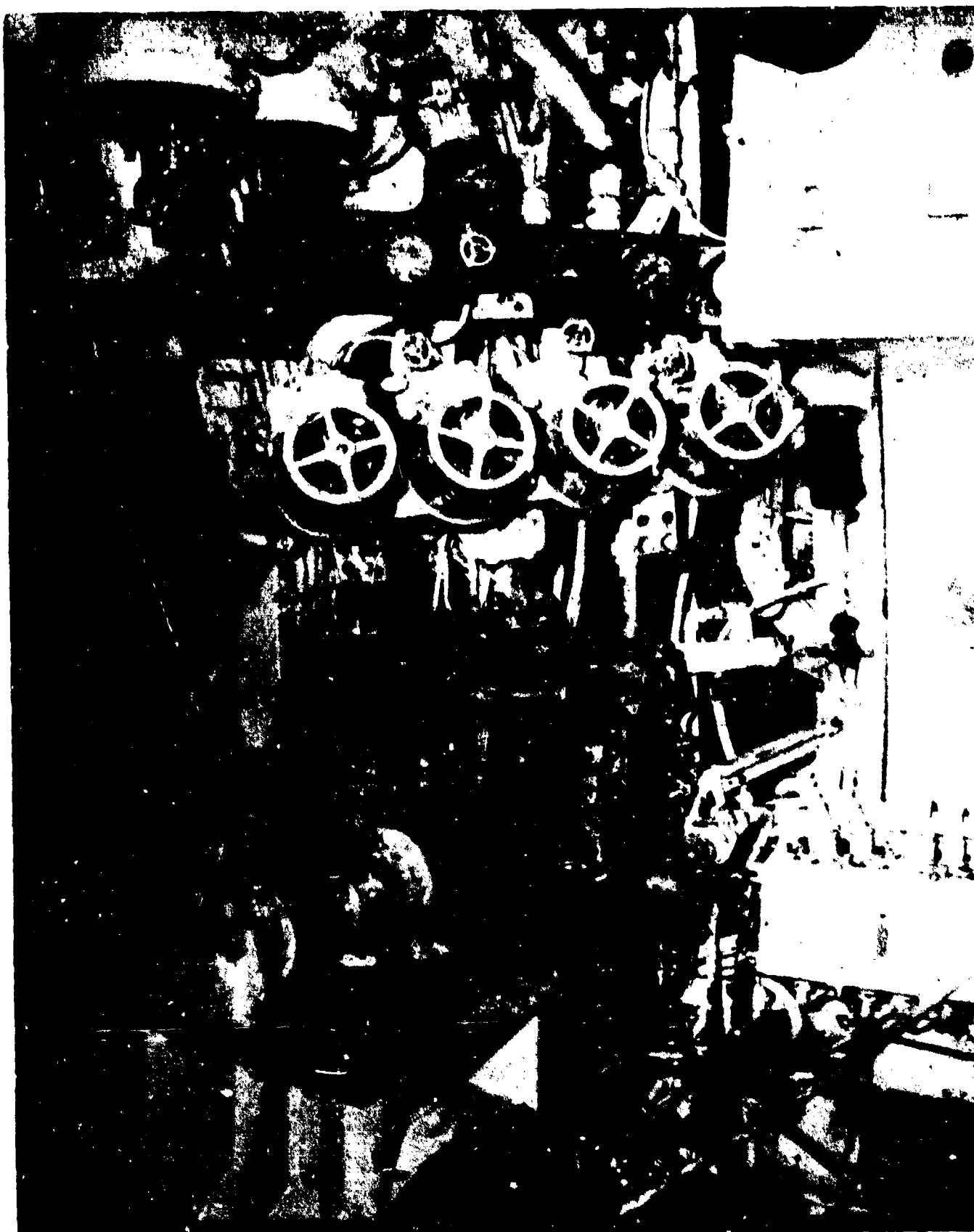
AB-CR-MIG-6513-11. Starboard dog of after torpedo room loading hatch.

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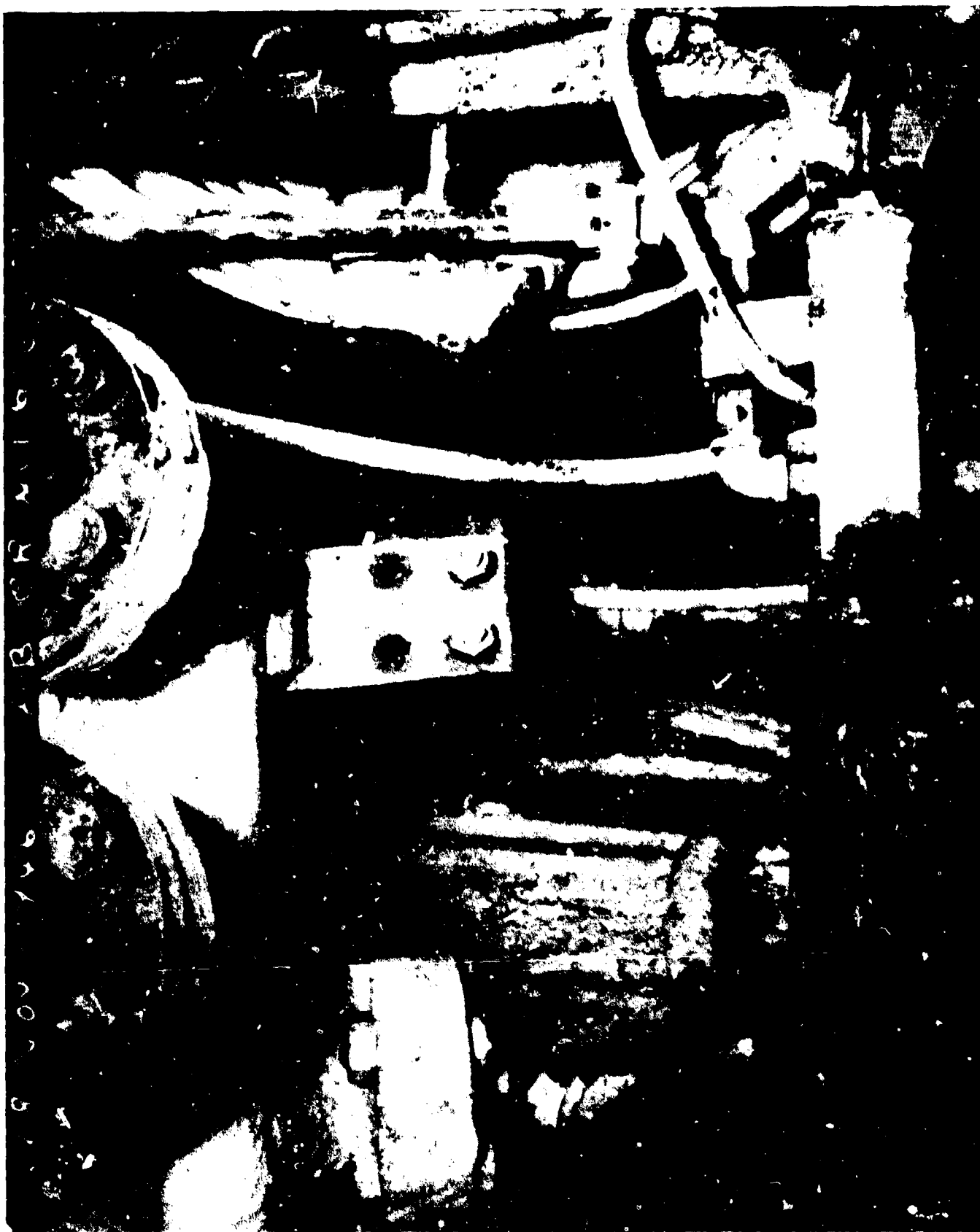
AB-CR-MIG-6509-9. Equipment in way of frames 20-21 starboard showing controller for bow plane rigging and capstan motor.

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AB-CR-MIG-6507-2. Forward torpedo tube impulse manifold, after foundation bracket.

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AB-CR-MIG-6507-3. Forward torpedo impulse manifold, forward bracket and bow plane rigging and capstan motor controller.

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AB-CR-MIG-12. Edge type strainer, showing failure of foundation brackets and bent wiping shaft.

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AB-CR-MIG-6519-7. Accumulator Air Flask in pump room.

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AB-CR-MIG-6520-5. Ship's Air Flask in No. 2B main ballast tank, showing strap failure.

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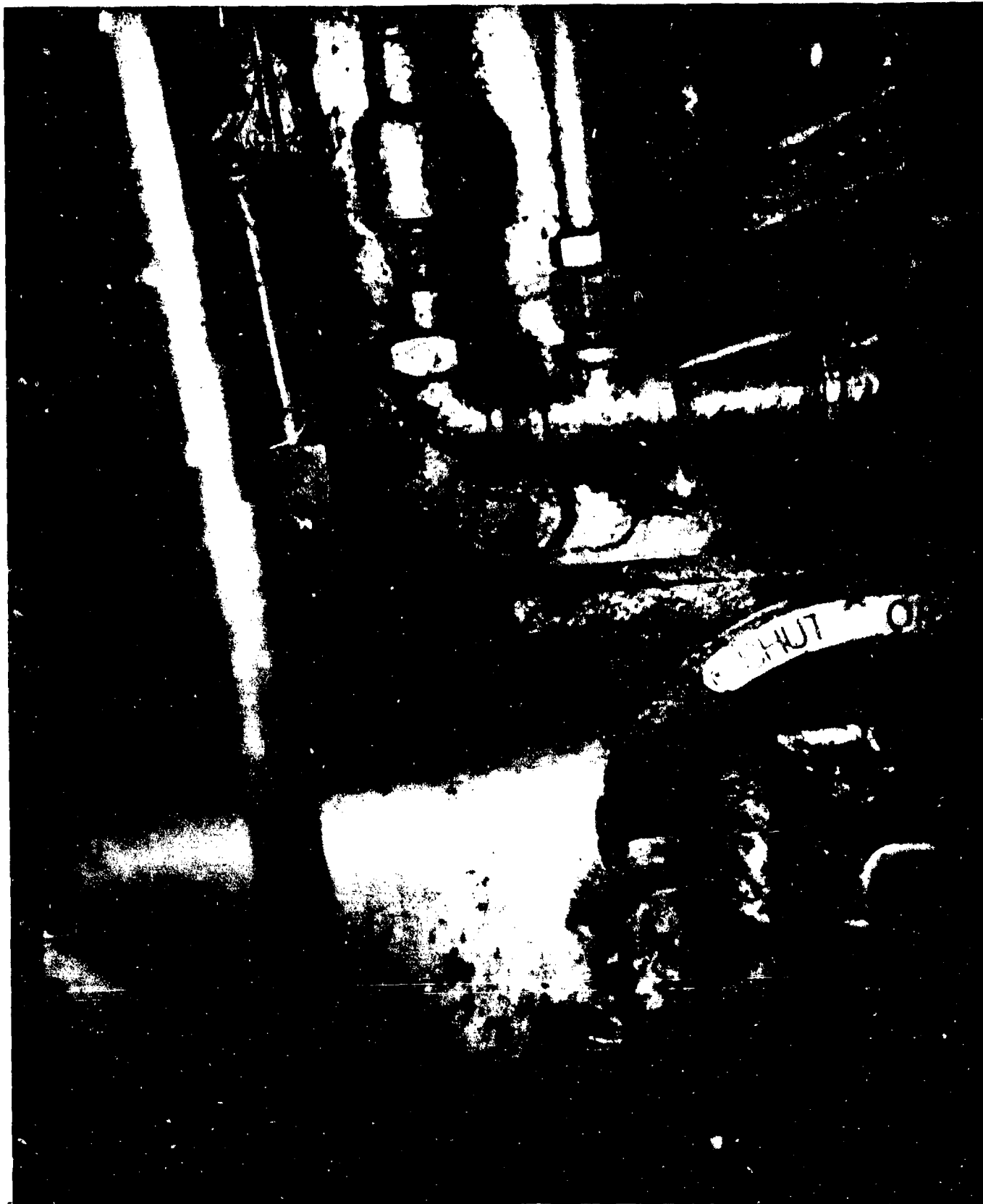
AB-CR-MIG-6515-10. Fracture of after, inboard foot of No. 1 turbo blower.

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AB-CR-MIG-6515-9. Fracture of after inboard foot of No. 2 turbo blower.

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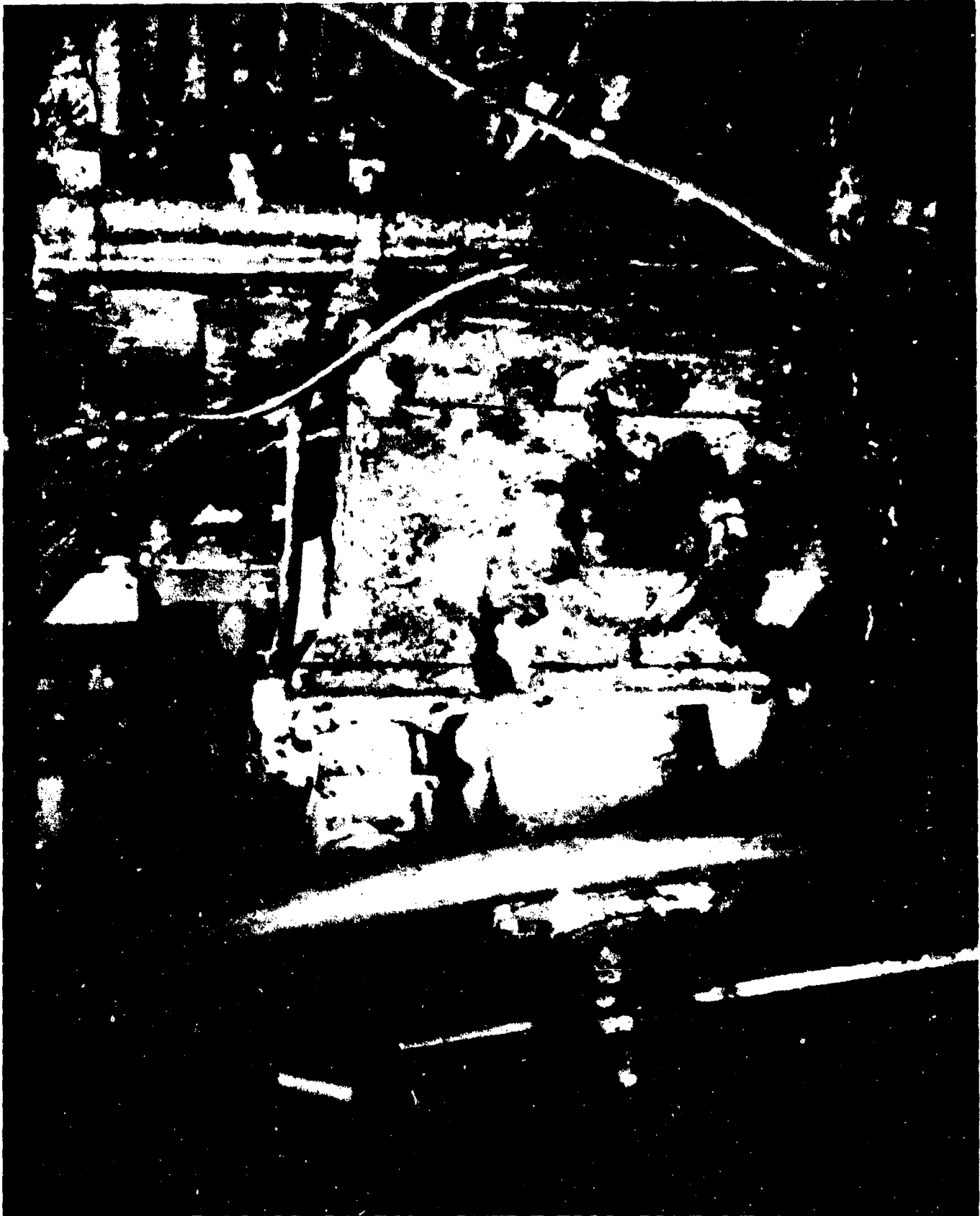
AB-CR-MIG-6511-9. Fracture of housing for low plane hand tilting gear box.

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AB-CR-MIG-6511-8. Fracture of housing for stern place hand lifting gear box.

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AB-CR-MIG-61 6-8. Ship's service air compressors and motor terminal box. Note collapsed sound isolation mount.

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AB-CR-MIG-6516-7. Radio motor generator sound isolation mount.

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AB-CR-MIG-6507-10. Main ballast tank 2 H - flood valve operating gear. Note wooden plug where grease fitting was broken out.

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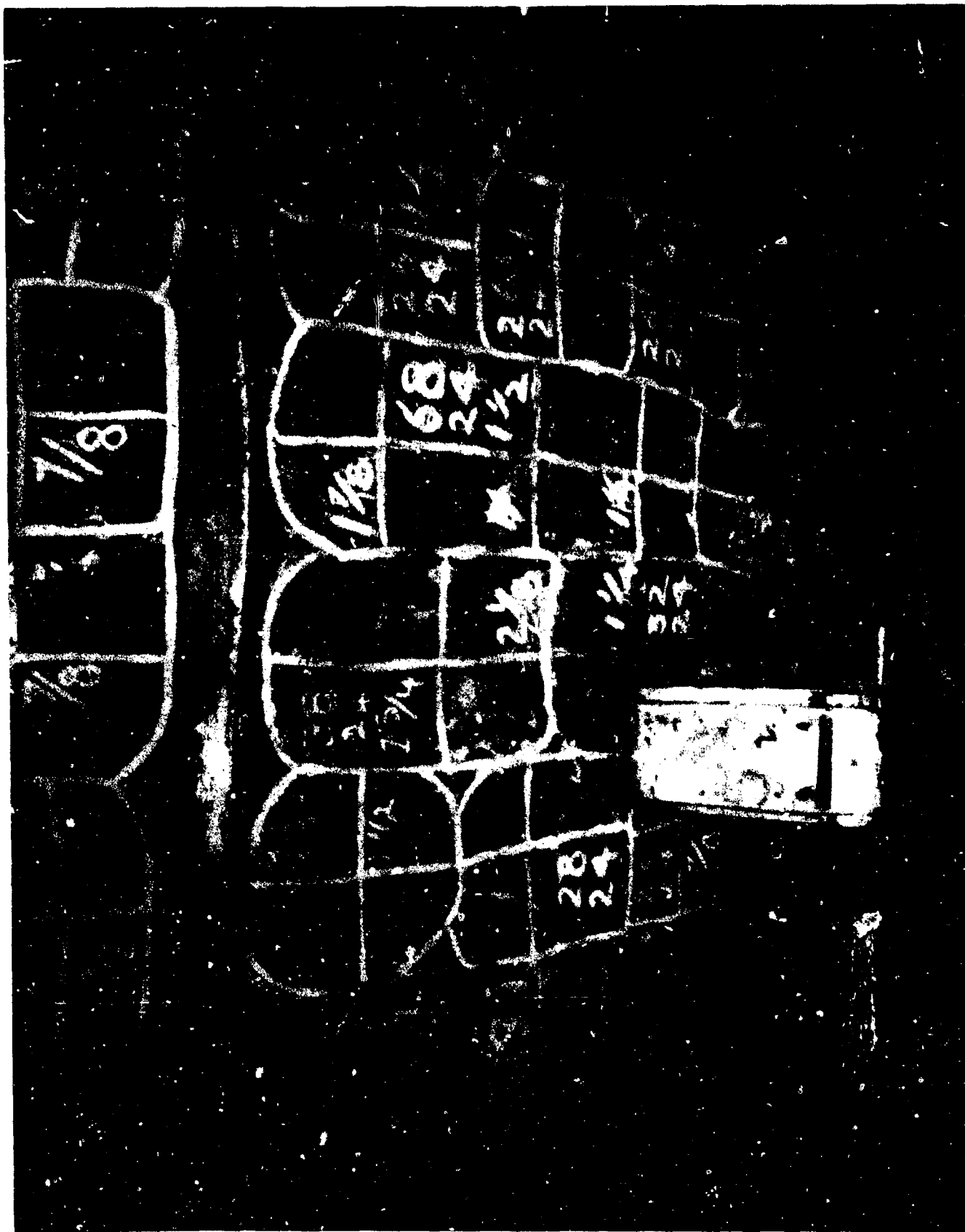
AB-CR-MIG-6512-7. No. 2 main motor sea suction valve - 100 showing leak under flange.

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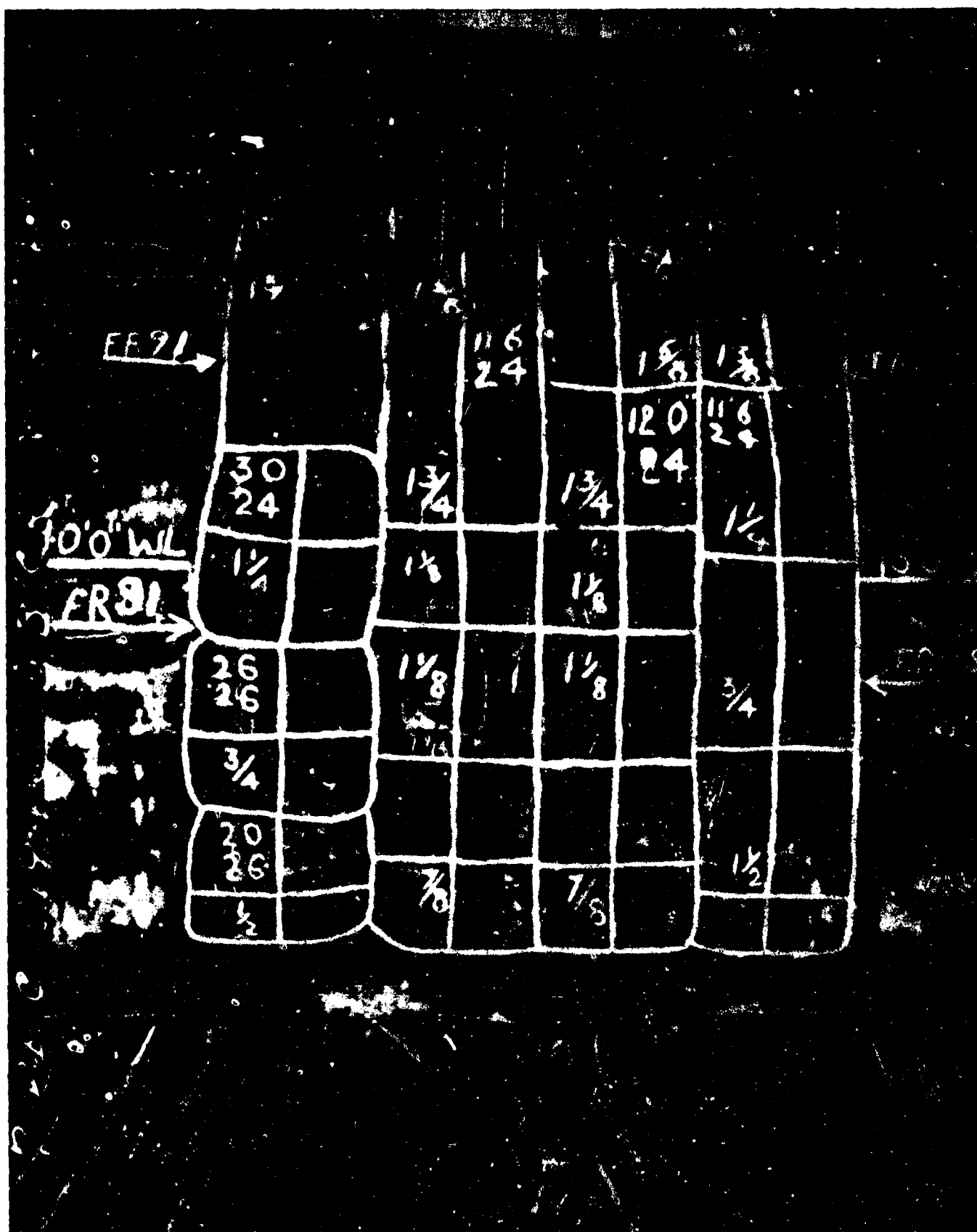
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AB-CR-MIG-6528-10. Outer hull in way of port auxiliary tank - bilge keel down to main keel.

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AB-CR-MIG-6528-9. Outer hull in way of port auxiliary tank - bilge keel up to the tank top.

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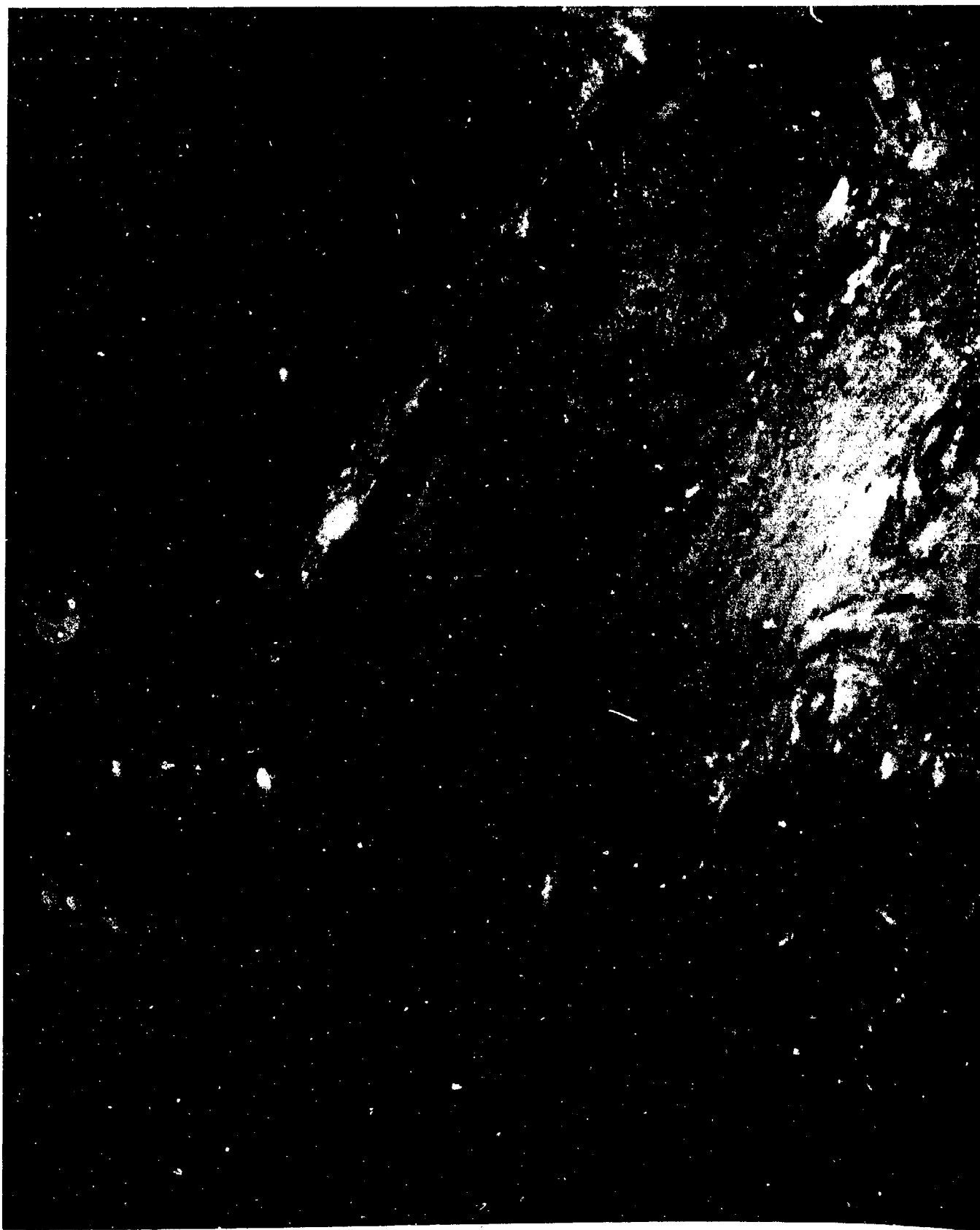
AB-CR-MIG-6526-6. Port side of negative tank.

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AB-CR-MIG-6520-6. Frame 72, port, at bottom of negative tank. Note shear wrinkles at the two ends.

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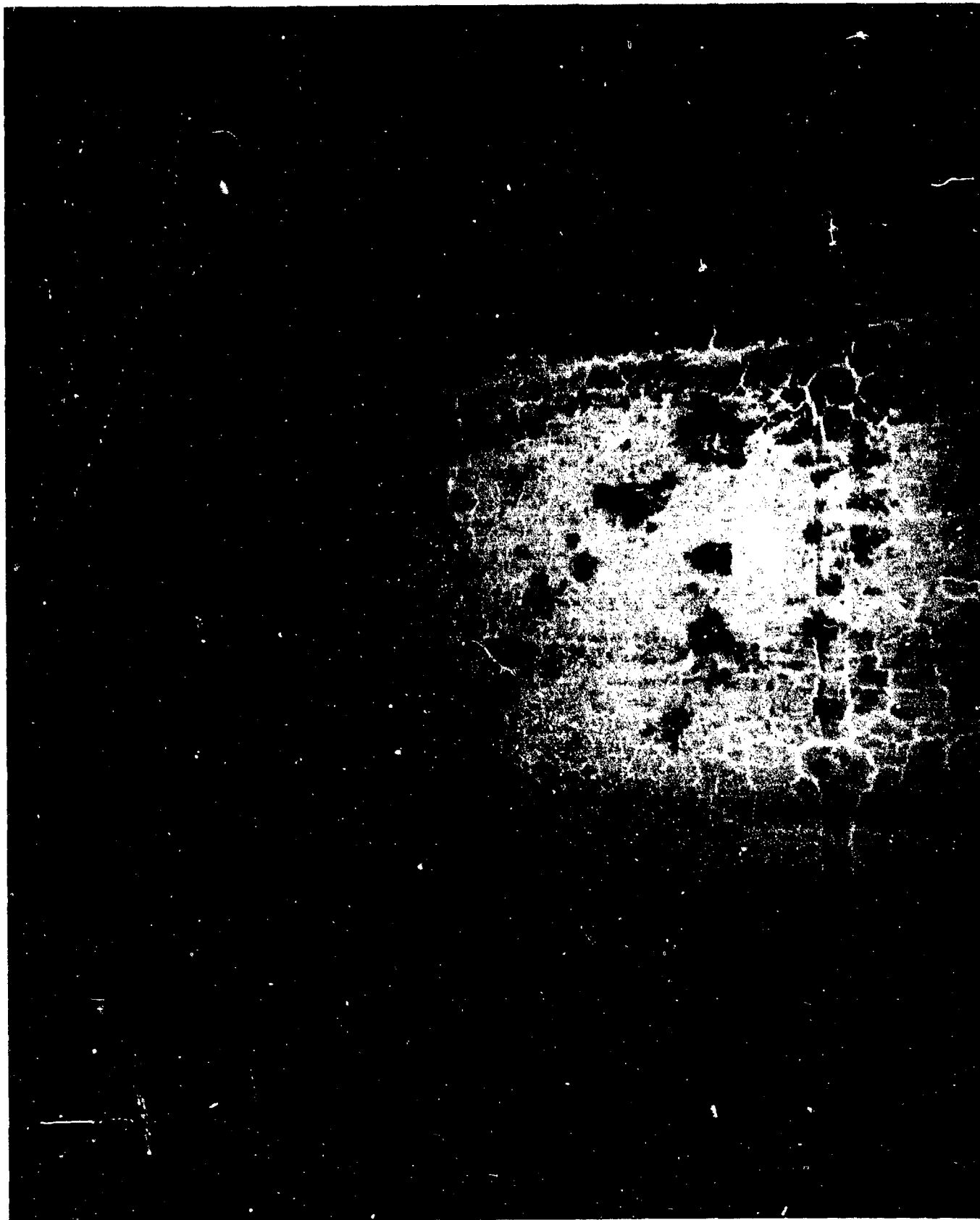
AB-CR-MIG-6513-3. Buckle in forward bulkhead of port safety tank.
Looking outboard.

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AB-CR-MIG-6513-4. Buckle in floor at frame 90 and after bulkhead of starboard safety tank. Looking outboard.

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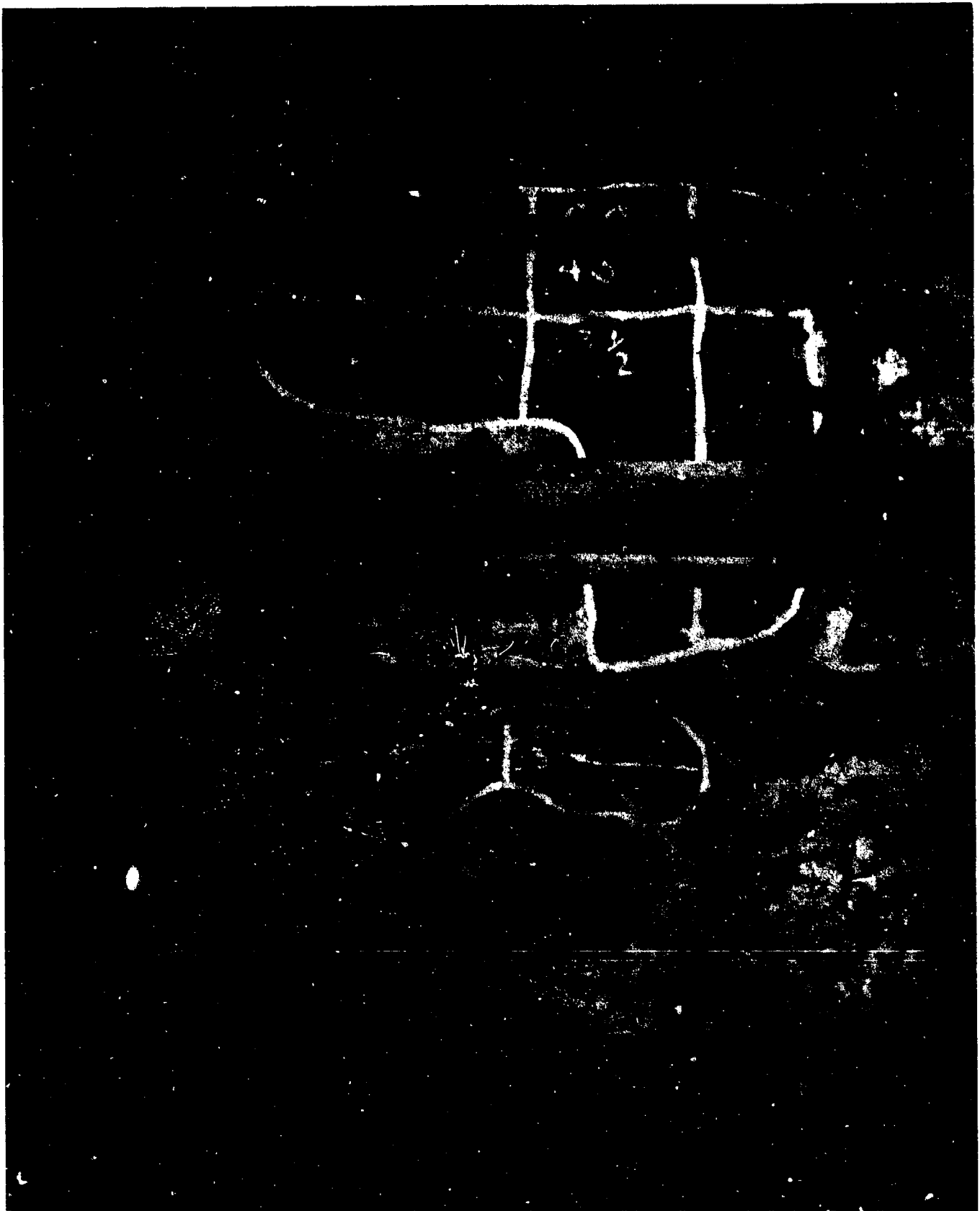
AB-CR-MIG-6513-5. Buckle in floor at frame 90 of starboard safety tank. Looking outboard and down.

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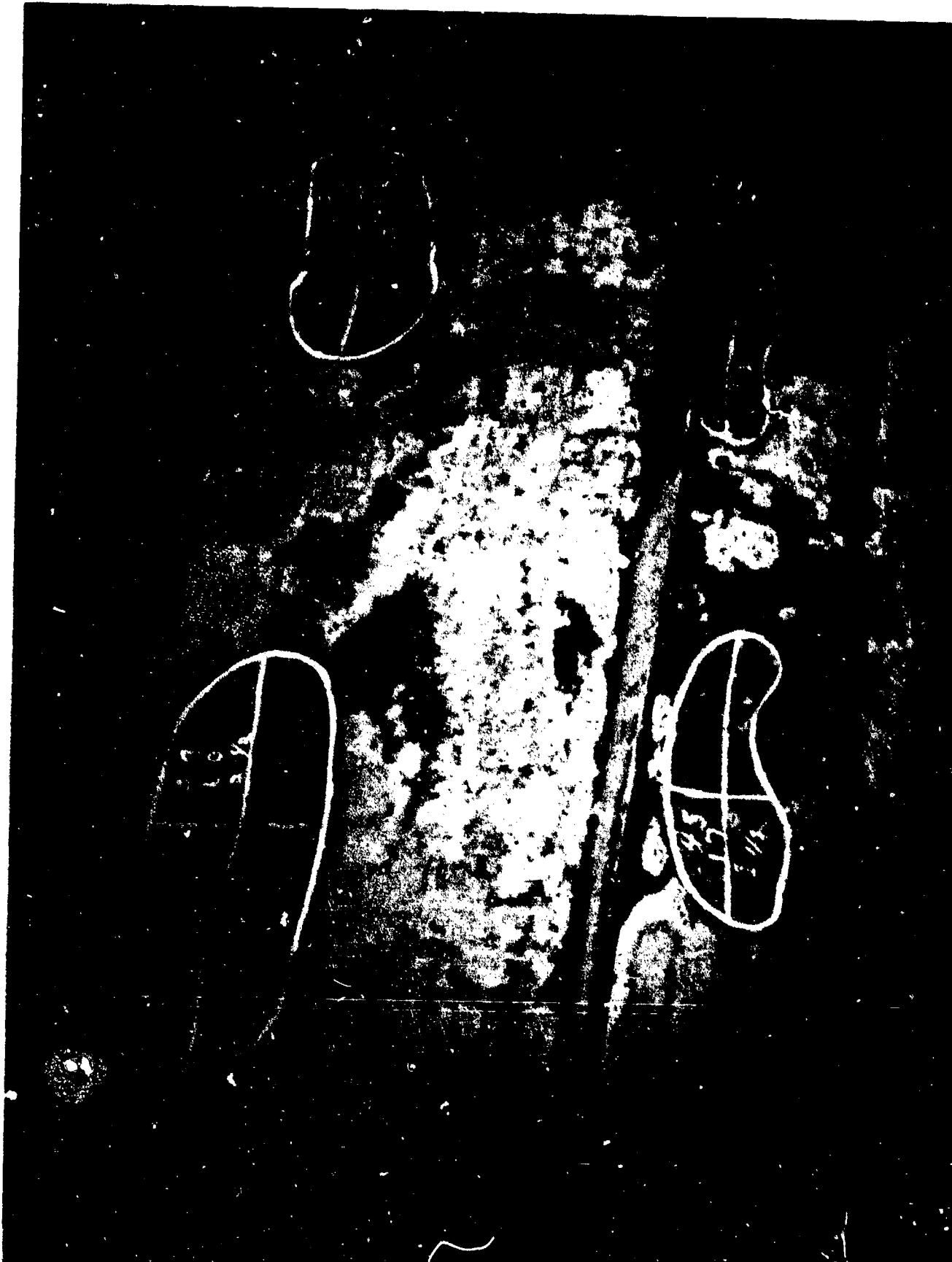
AB-CR-MIG-6526-7. Dents in port outer shell in way of fuel ballast tank No. 6.

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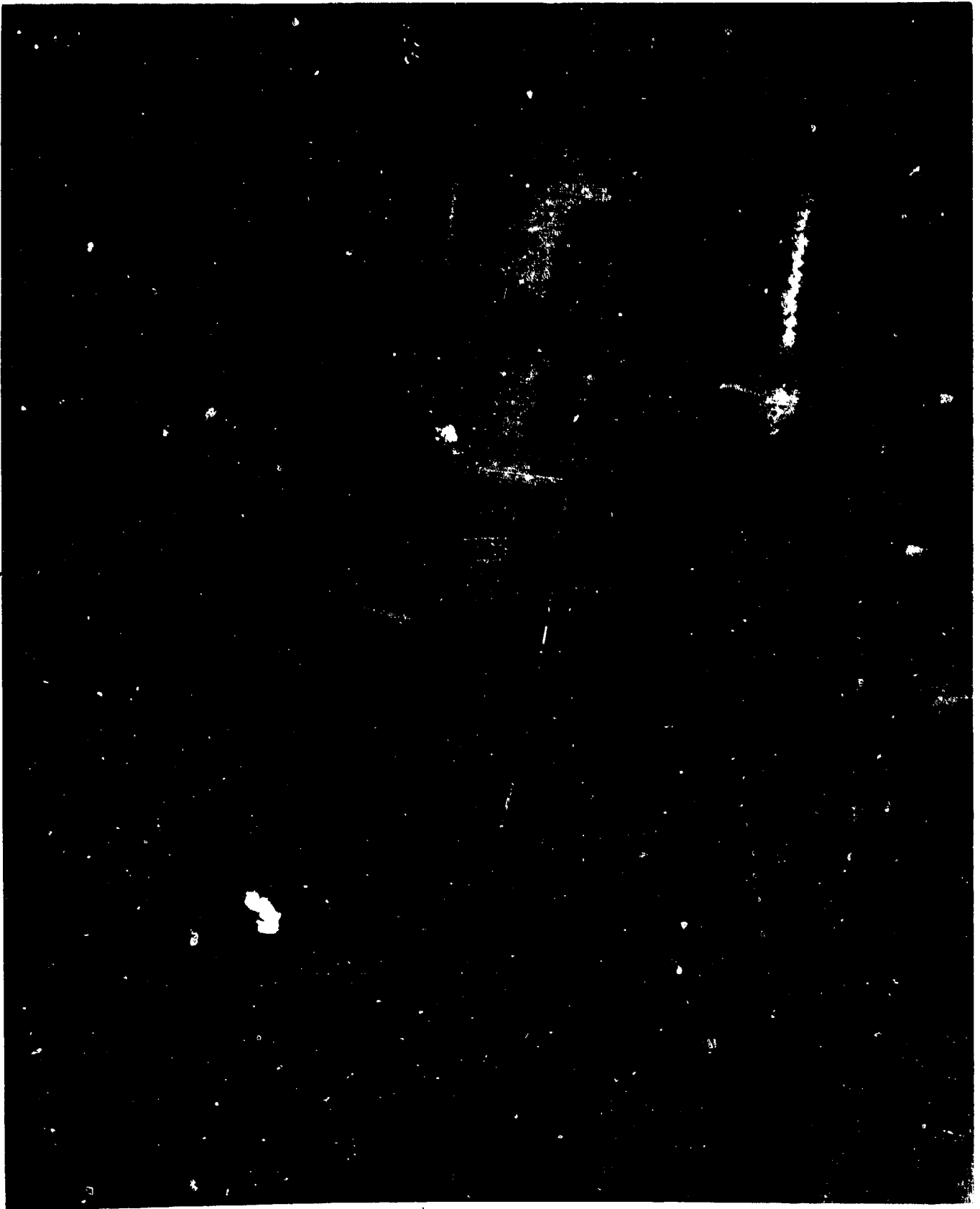
AB-CR-MIG-6226-5. Dents in port outer shell in way of frames 44-58.

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AB-CR-MIG-6528-12. Dent in tank top in way of main ballast tank 2 C.

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AB-CR-MIG-6529-1. Dent in tank top in way of main ballast tank 2 D.

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AB-CR-MIG-6520-3. "A" stiffener on after bulkhead of main ballast tank 2 B.

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AB-CR-MIG-6525-4. Port shell in way of flood valves for main ballast tank No. 3.

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AB-CR-MIG-6525-3. Starboard shell in way of flood valves for main ballast tank No. 3.

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AB-CR-MIG-6520-10. Deep frame No. 31 at bottom of main ballast tank No. 1 starboard.

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AB -CR-MIG-6520-4. Upper bell crank assembly for flood valve in main ballast tank 2 B. Note bent shaft.

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AB-CR-MIG-6520-7. Lower bell crank for flood valve in main ballast tank 2 B. Note interference with air flask.

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AB-CR-MIG-6522-5. Ball socket joint on flood valve cover in main ballast tank 2 G.

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AB-CR-MIG-6522-4. Damage to flood valve cover and links in main ballast tank 2 G.

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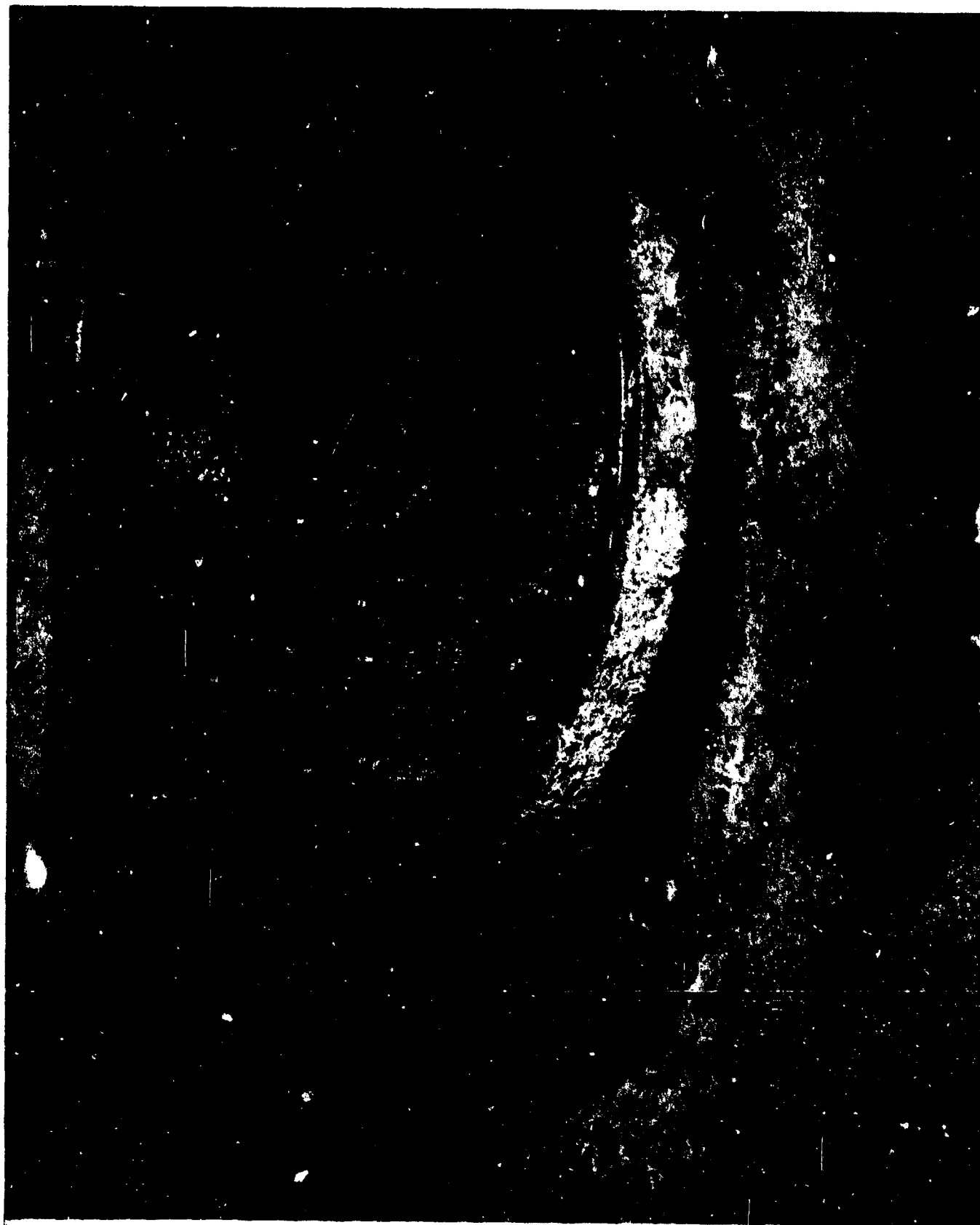
AB-CR-MIG-6522-2. Damage to flood valve cover and links in main ballast tank 2 B.

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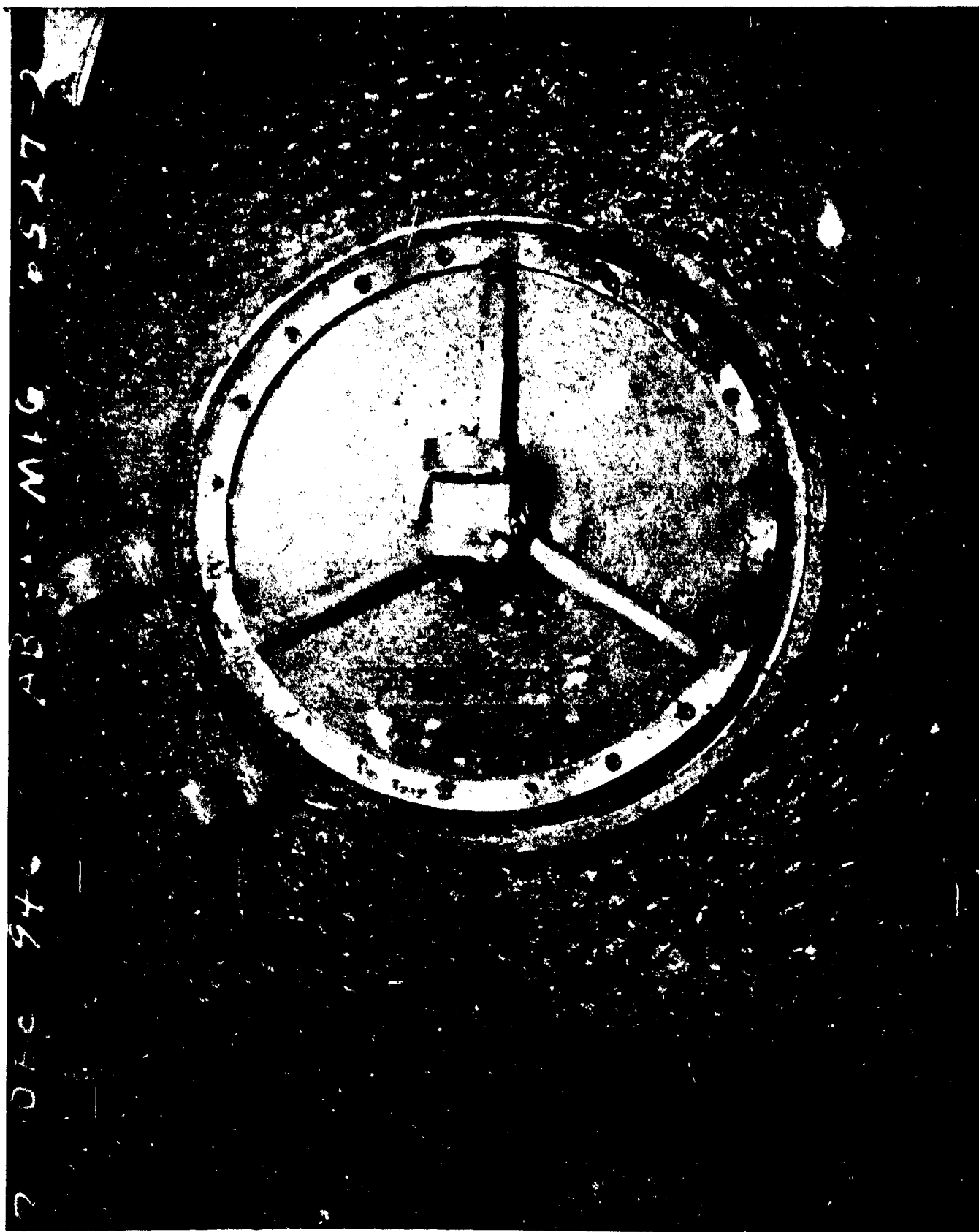
AB-CR-MIG-6518-7. Flood valve cover for negative tank.

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AB-CR-MIG-6527-2. Flood valve cover for negative tank.

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AB-CR-MIG-6519-3. Emergency vent valve clapper for main ballast tank 2 B. Note gasket.

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AB-CR-MIG-6522-1. Emergency vent valve linkage for main ballast tank 2 E.

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AB-CR-SM-6500-12. Split vent riser for fuel ballast tank No. 4.

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AB-CR-MIG-6518-8. Main engine air induction valve, starboard side.

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AB-CR-MIG-6514-11. Main engine air induction valve disc.

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AB-CR-MIG-6519-11. Typical rubber gasket in inboard ventilation line.

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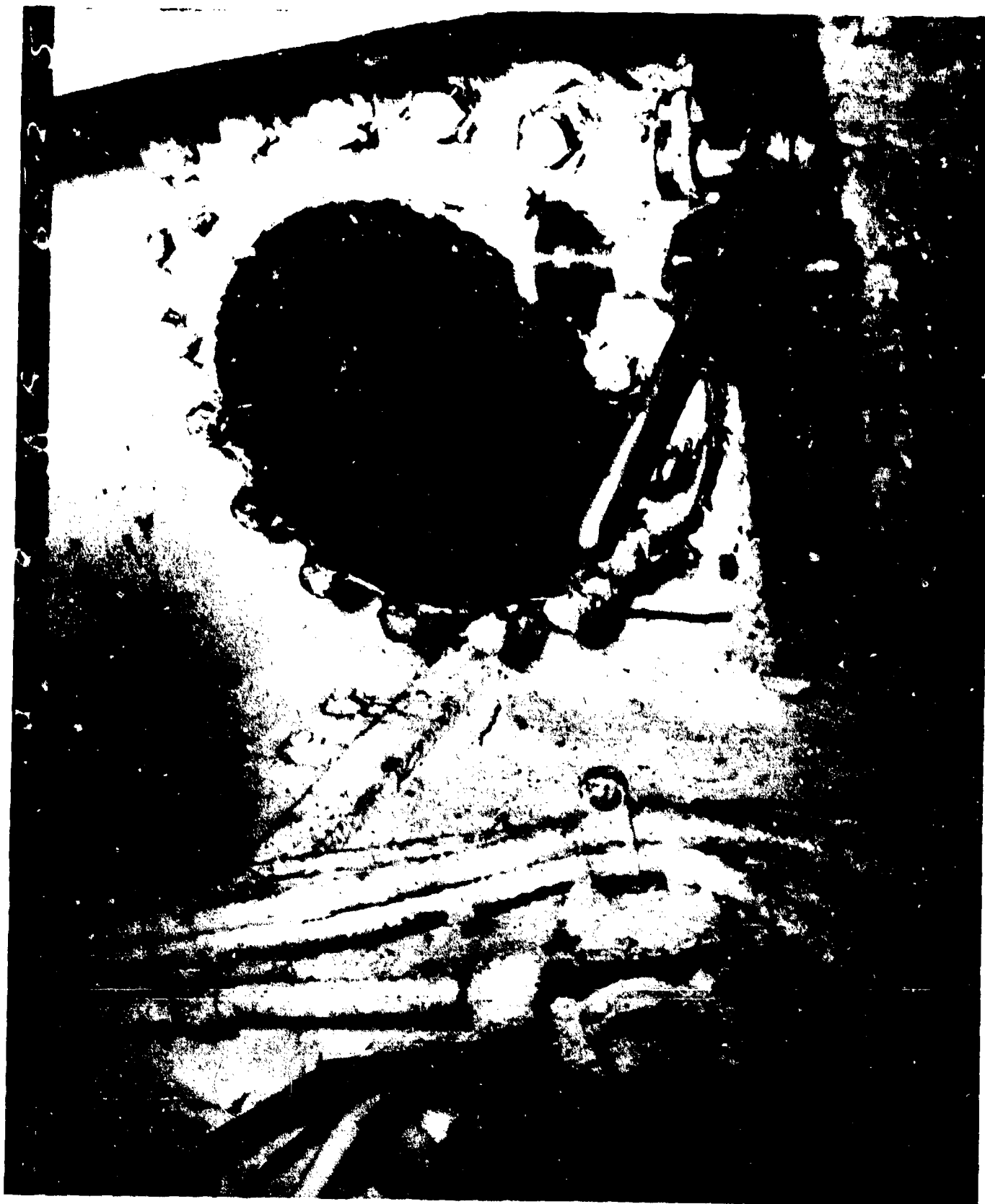
AB-CR-MIG-6528-5. Bulkhead ventilation flapper valve in bulkhead 108, looking aft. Note gasket.

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AB-CR-MIG-6512-5. Bulkhead ventilation flapper valve in bulkhead 130, looking aft. Note gasket.

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AB-CR-MIG-6513-9. Machinery holding down bolts.

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AB-CR-MIG-6522-9. #4 Main engine outboard exhaust valve, showing crack in casting.

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AB-CR-MIG-6522-10. #4 Main engine outboard exhaust valve on side opposite to crack in casting.

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AB-CR-SM-6501-3. #2 Main engine muffler entering exhaust pipe.

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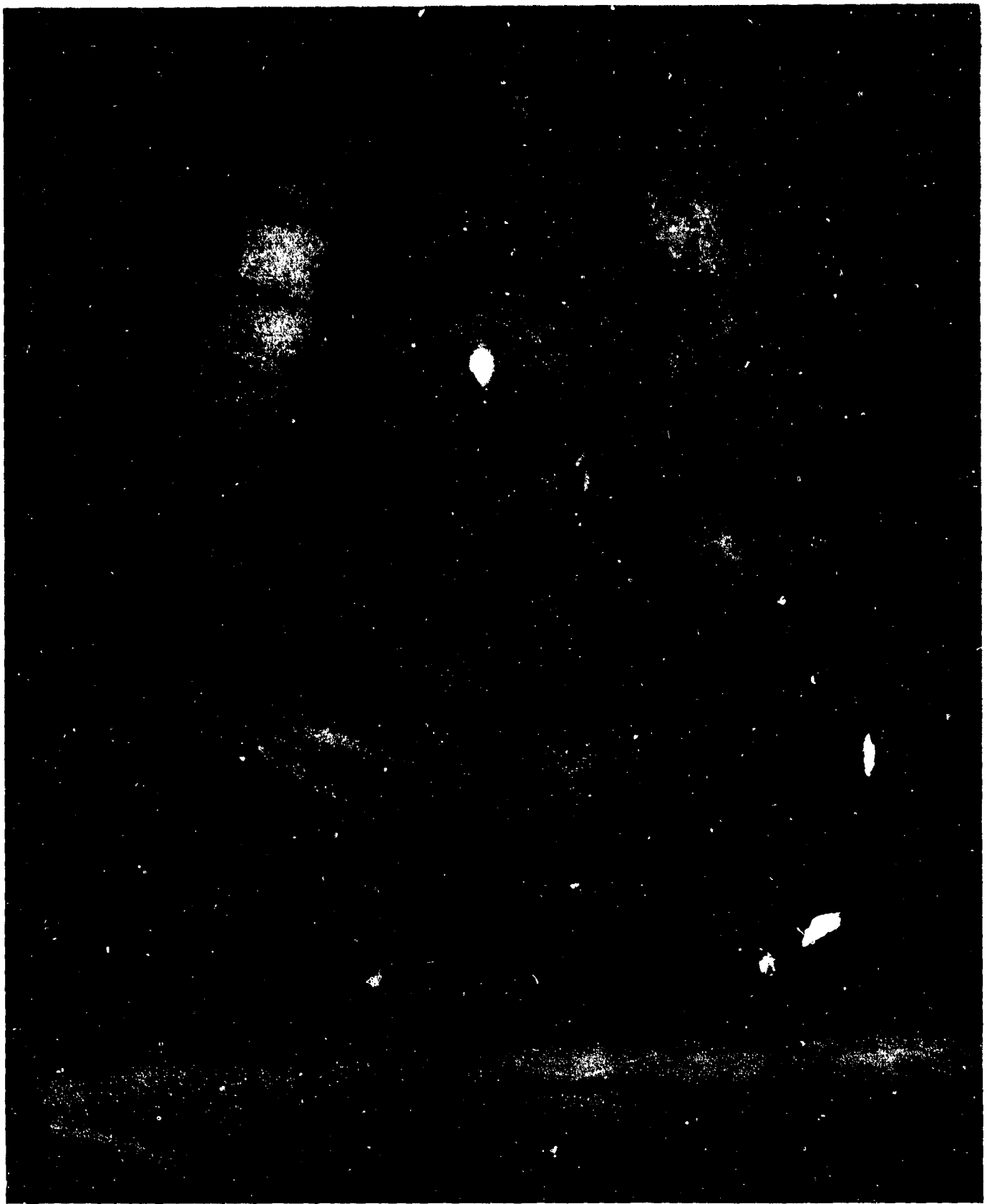
AB-CR-MIG-6522-6. #2 Main engine muffler entering exhaust pipe showing pipe collapsed and pulled away from flange.

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AB-CR-MIG-6513-6. #4 Main engine muffler showing dished in after
end and distortion from pressure.

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AB-CR-SM-6501-1. Auxiliary engine muffler looking to port showing failure along butt weld.

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AB-CR-MIG-6522-7. Auxiliary engine muffler showing rupture at center weld.

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AB-CR-MIG-6517-7. #2 Main engine fresh water line to header. Leaks in silver soldering at reducing tee.

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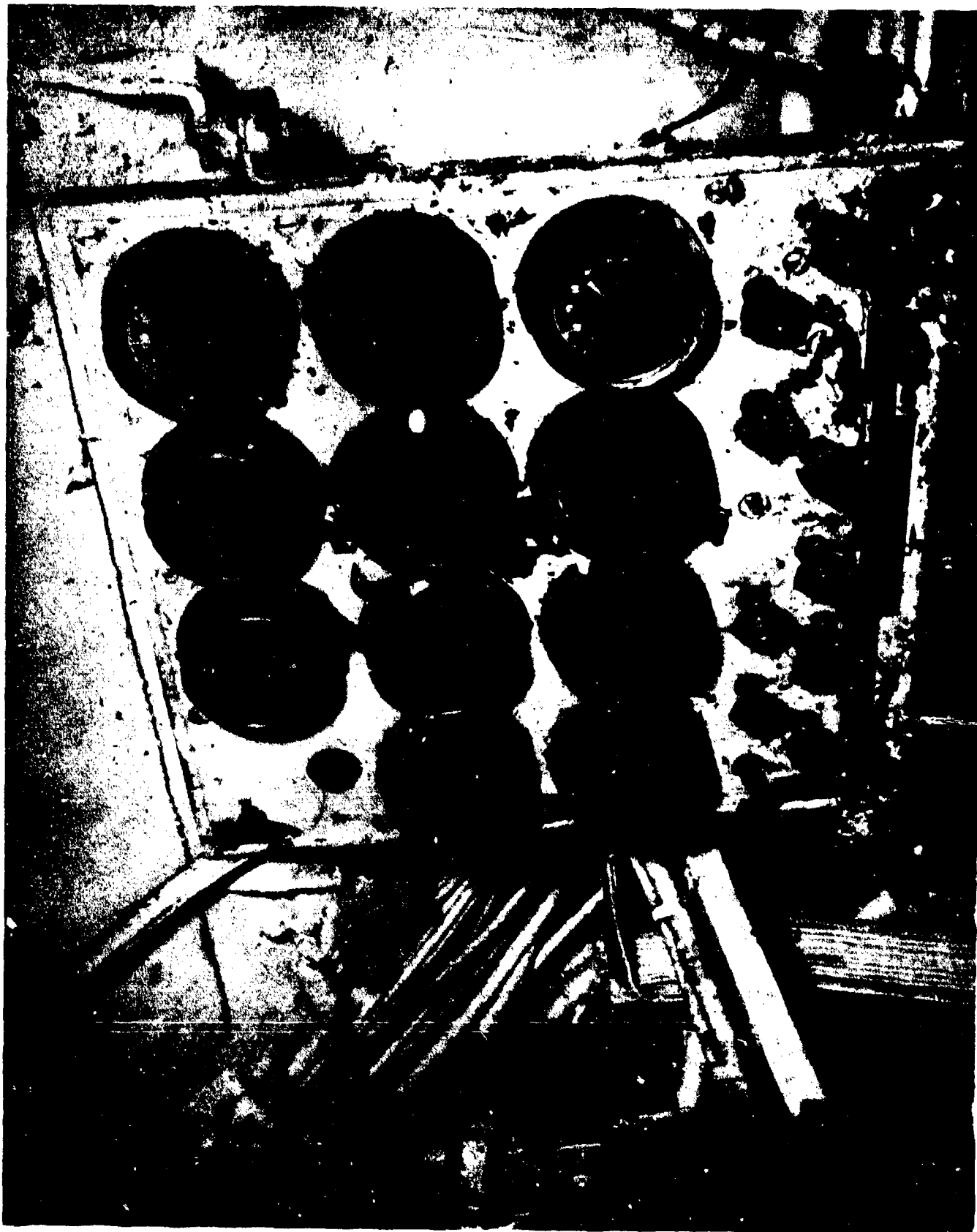
AB-CR-MIG-6517-6. #2 Main engine fresh water to header pipe, outboard of check valve.

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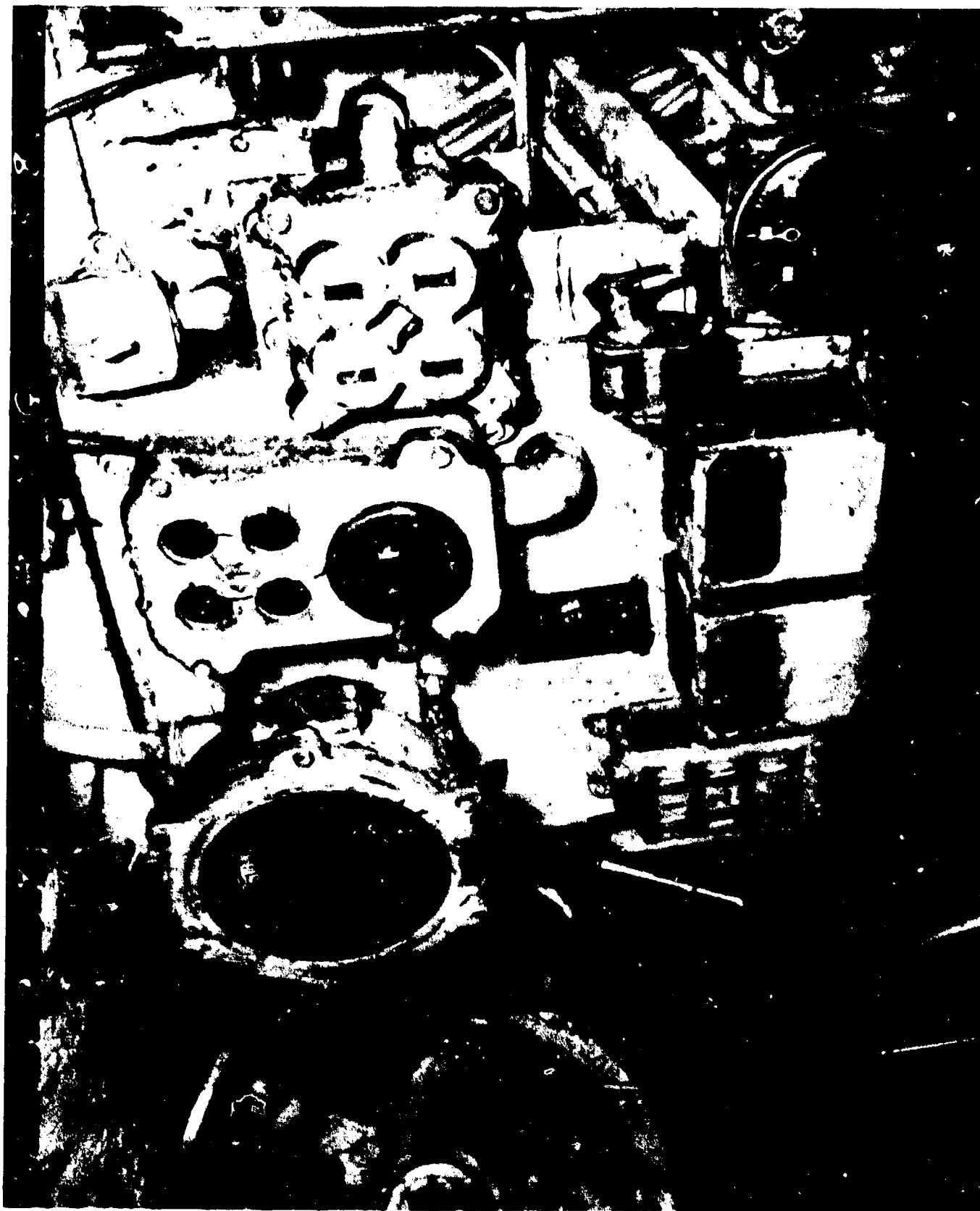
AB-CR-MIG-6518-9. #1 Main engine gauge board, representative of all.

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AB-CR-MIG-6518-9. #1 Main engine meter and control board, representative of all.

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AB-CR-MIG-6516-11. Lubricating oil discharge from #4 Main engine
lub oil cooler.

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AB-CR-MIG-6507. . Bow plane rigging gear worm gear case in forward torpedo room overhead showing crack in case.

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AB-CR-MIG-6522-11. #1 H.P. air compressor showing crack in upper motor support.

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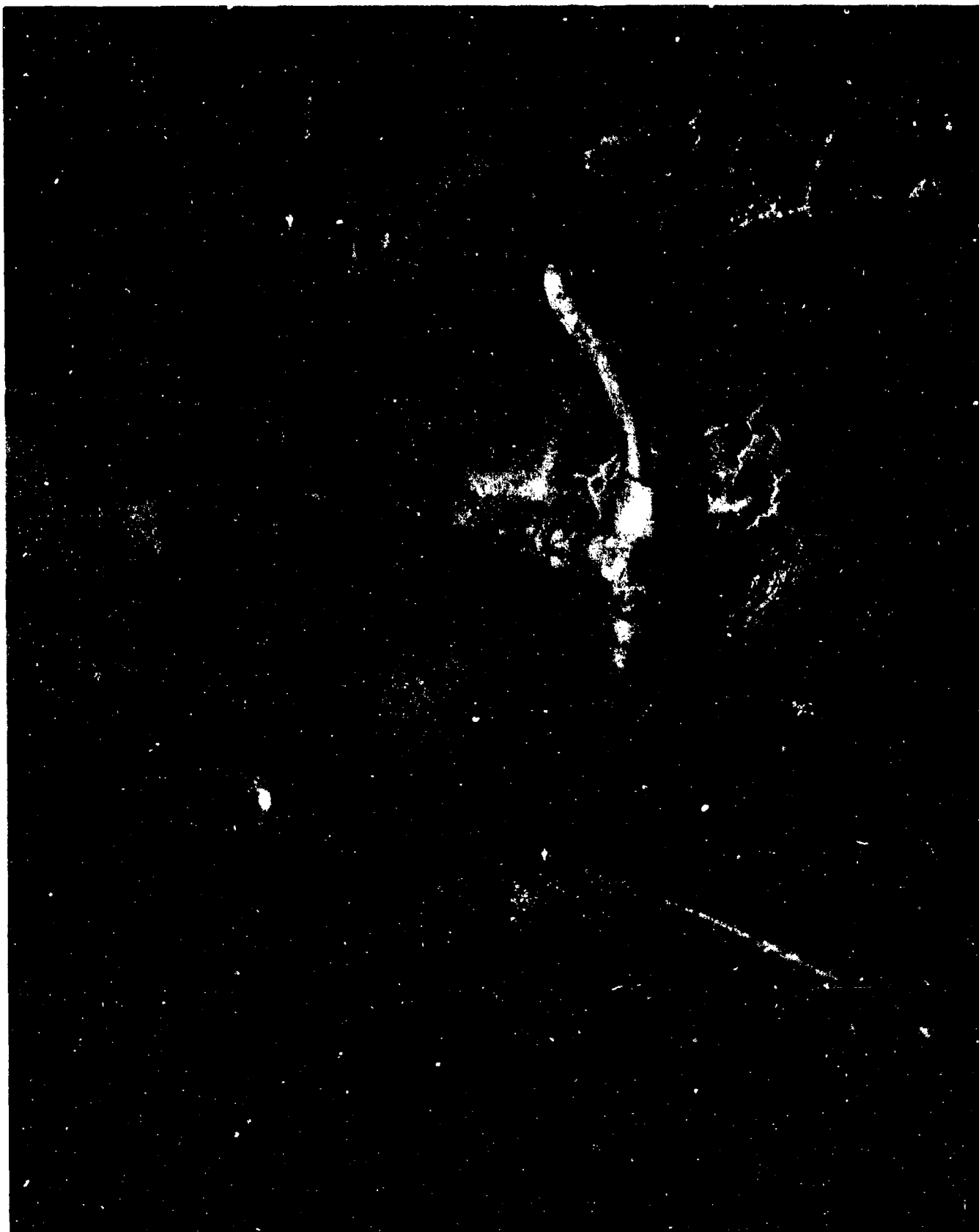
AB-CR-MIG-6522-12. #2 H.P. air compressor showing crack in upper motor support.

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AB-CR-MIG-6520-2. High pressure air flask in main ballast tank 2 B, air bank #2, pipe adaptor broken off flask head.

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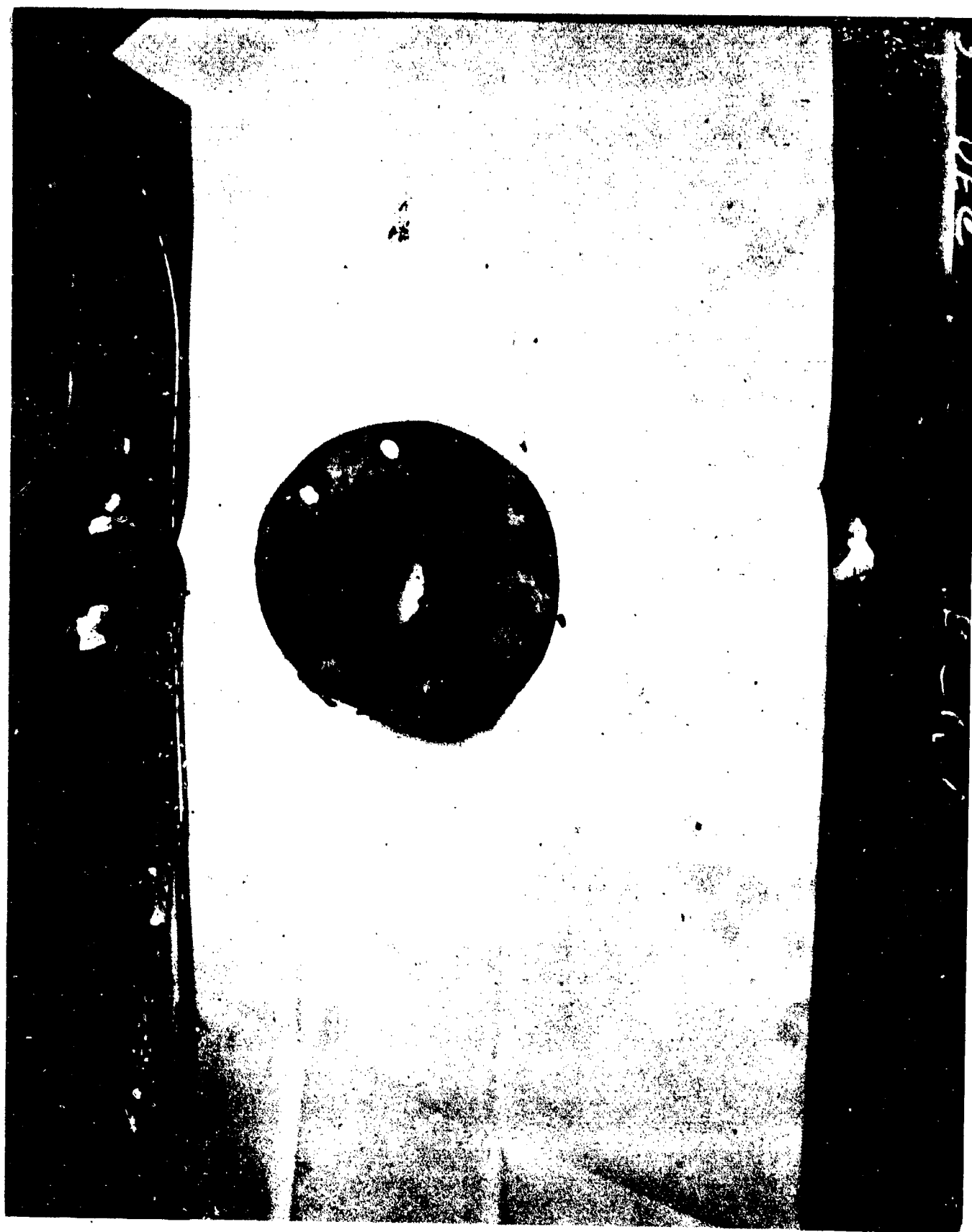
AB-CR-MIG-6519-7. Accumulator air flask in pump room showing pipe adaptor broken off flask head.

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AB-CR-MIG-6517-3. Section of fuel oil filling and transfer line at after bulkhead in crew's galley.

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AB-CR-MIG-6517-2. Circulating water pipe for #4 main motor, port side of motor to reduction gear lub oil cooler.

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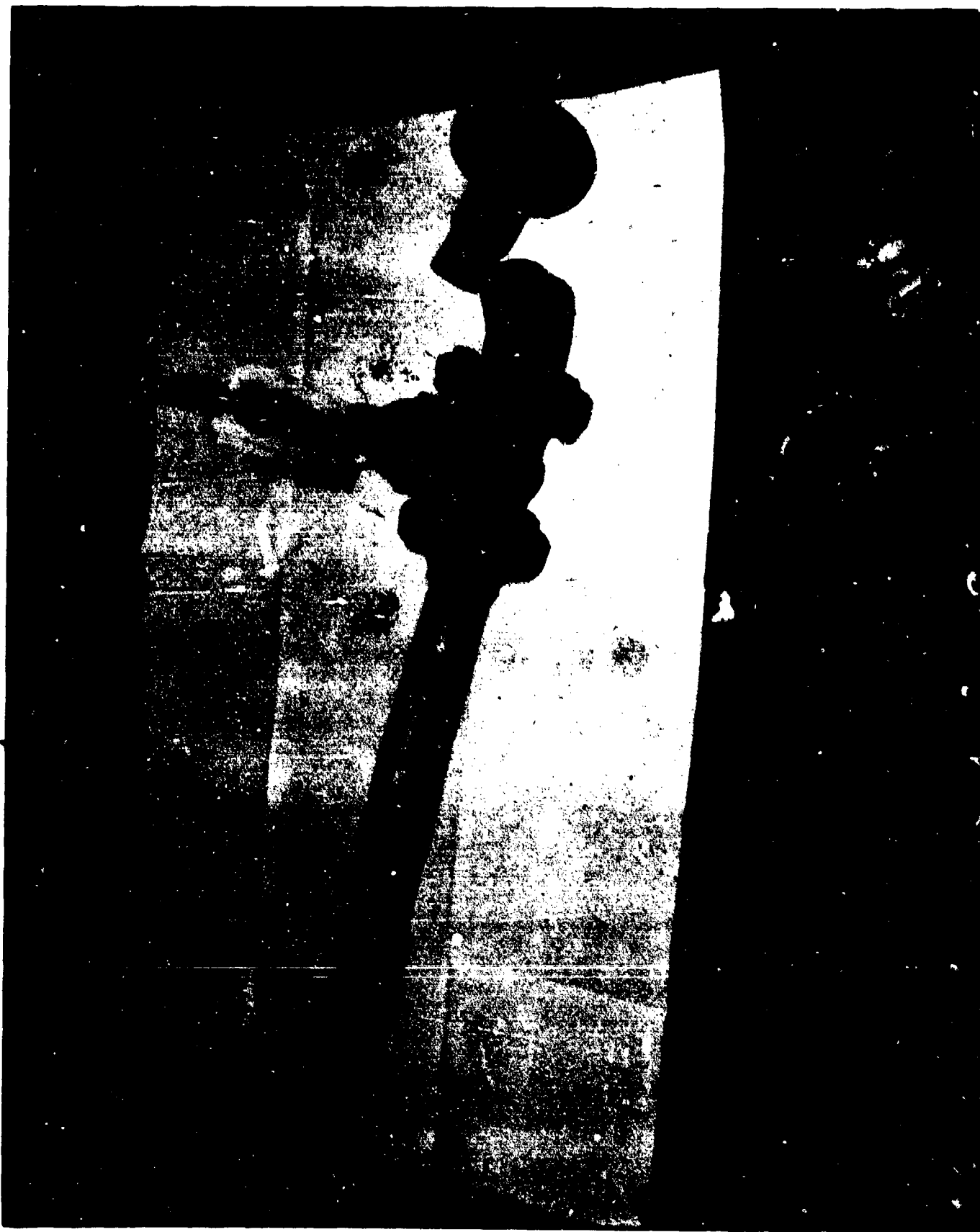
AB-CR-MIG-6516-9. Salt water circulating water discharge from #4 main motor cooler.

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AB-CR-MIG-6517-4. #3 Main motor circulating water pipe from starboard side of motor cooler to reduction gear lubricating oil cooler.

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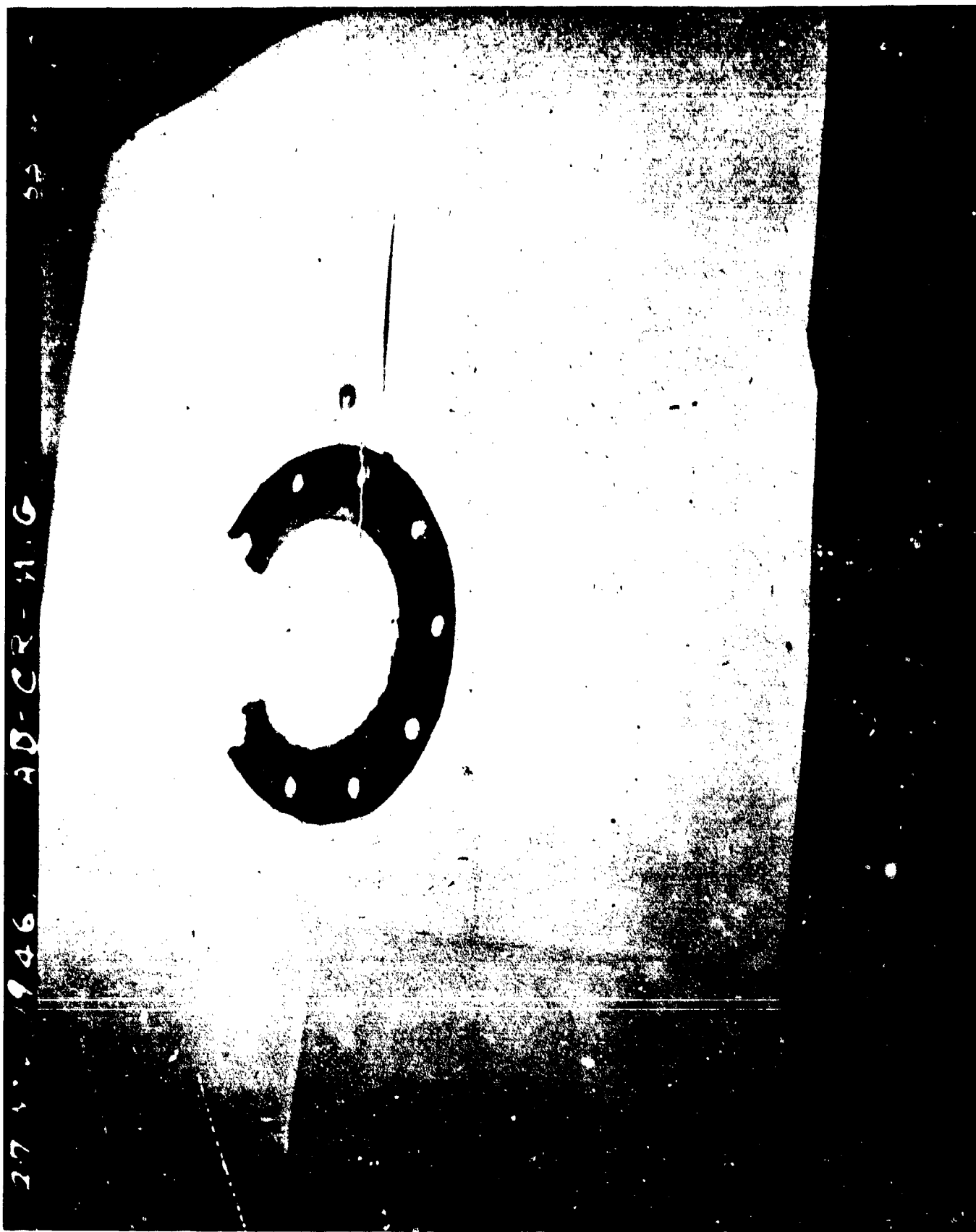
AB-CR-MIG-6512-6. #2 Main motor sea suction valve.

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AB-CR-MIG-6514-12. #2 Main motor sea suction valve gasket for hull flange.

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AB-CR-MIG-6511-1. Circulating water pipe for refrigerating plant.

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AB-CR-MIG-6517-5. Sea water circulating water for air conditioning and refrigeration from strainer to pump.

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AB-CR-MIG-6517-1. Broken line to oxygen bottle reducer, in after torpedo room at frame 171.

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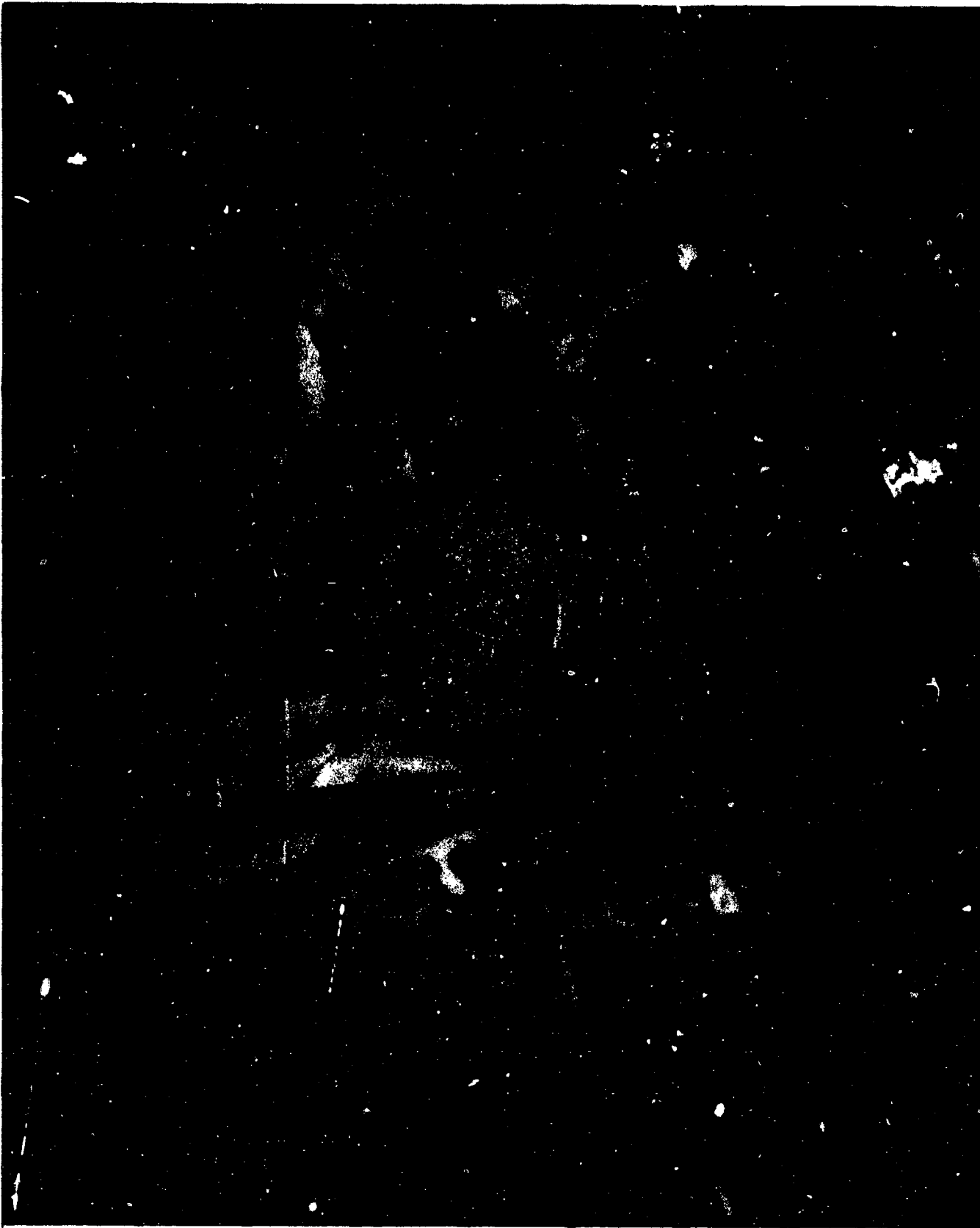
AB-CR-MIG-6508-9. Starboard sound head shaft broken and slipped down.

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AB-CR-MIG-6508-6. Pitometer log master.

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AB-CR-MIG-6513-7. Control cubicle starboard side front top foundation bolt.

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AB-CR-MIG-6513-8. Control cubicle port side front top foundation action bolt.

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AB-CR-MIG-6514-6. Propulsion control cubicle port & starboard motor starter contactors.

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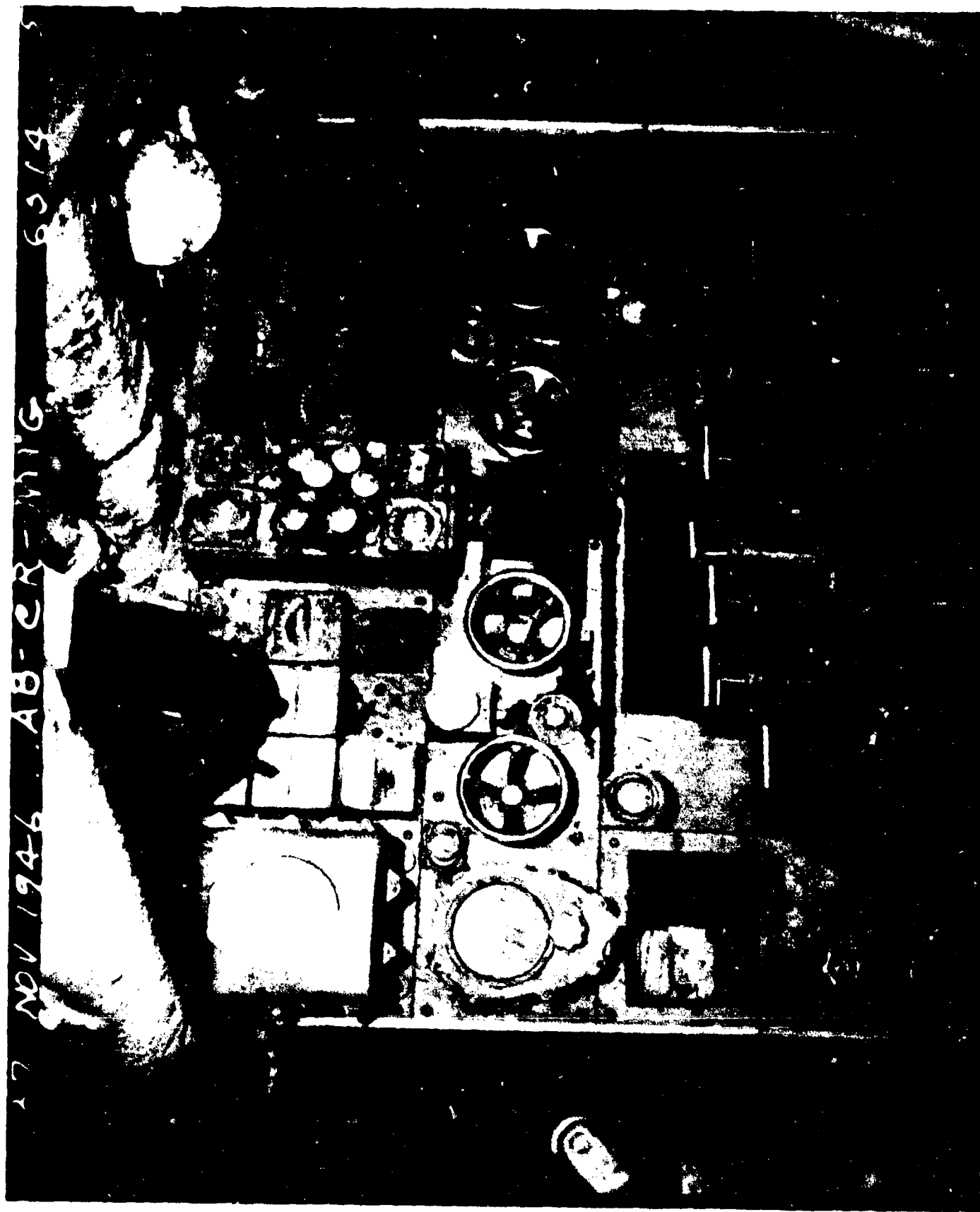
AB-CR-MIG-6514-9. Propulsion control cubicle battery contactors.

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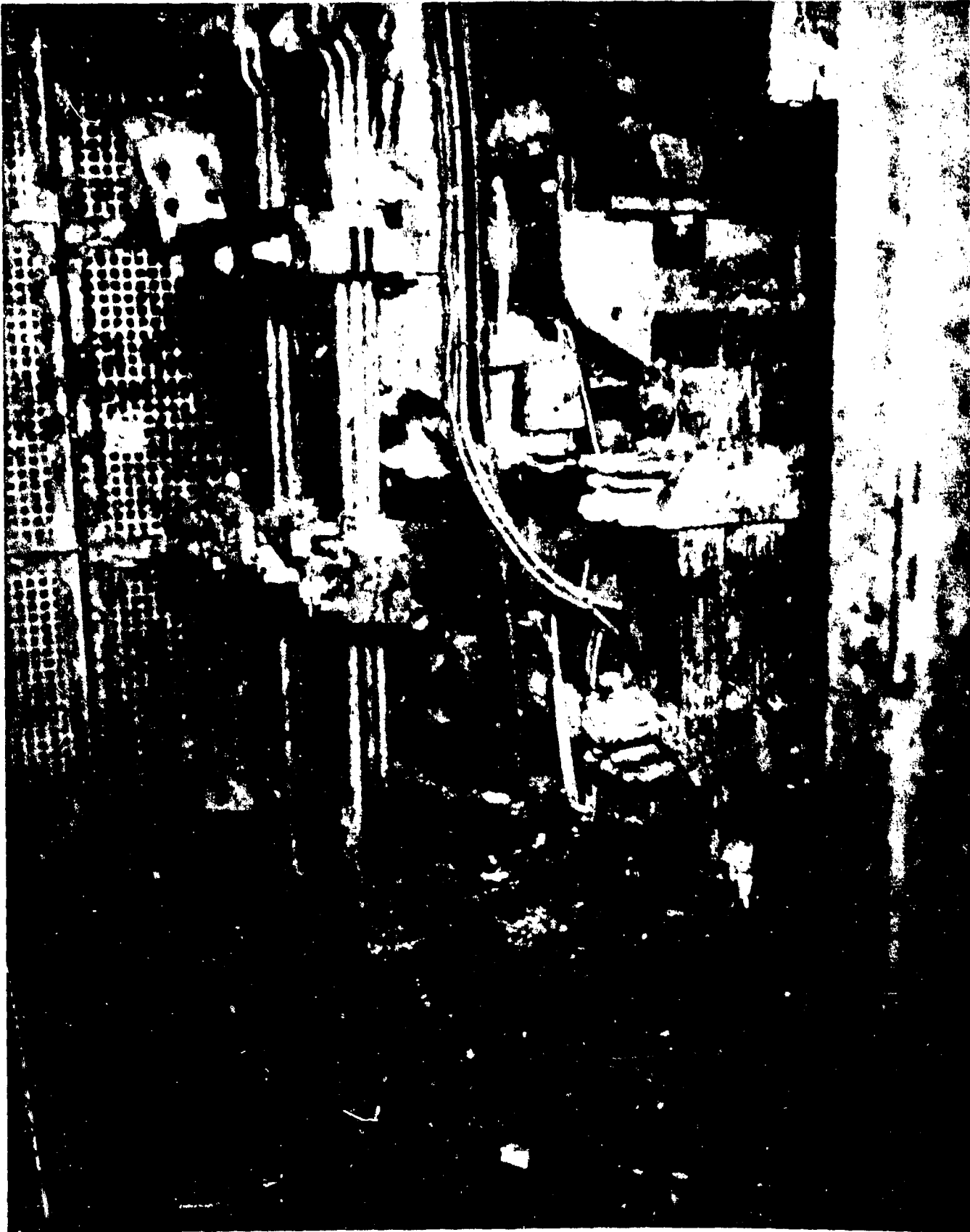
AB-CR-MIG-6514-5. Propulsion control cubicle.

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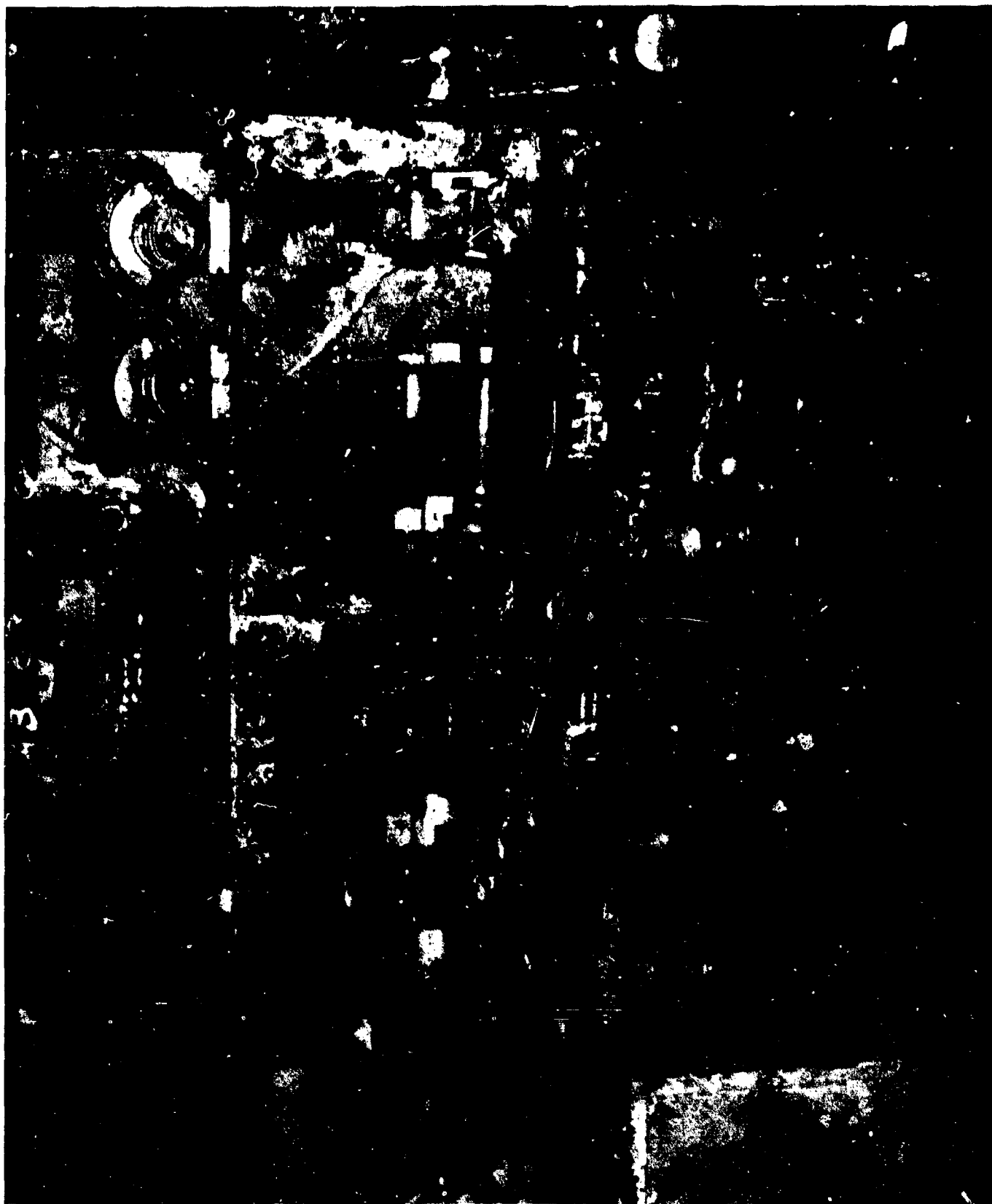
AB-CR-MIG-6514-7. Propulsion control cubicle Shunt and bussing for #2 propulsion generator.

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AB-CR-MIG-6514-3. Auxiliary power switchboard.

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AB-CR-MIG-6514-4. Forward auxiliary power switchboard.

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AB-CR-MIG-6511-6. Auxiliary power shore connection boxes.

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AB-CR-MIG-6511-7. Auxiliary power shore connection boxes.

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AB-CR-MIG-6514-2. General view of forward battery looking aft.

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AB-CR-MIG-6513-1. "Minus" Disconnect switch-forward battery.

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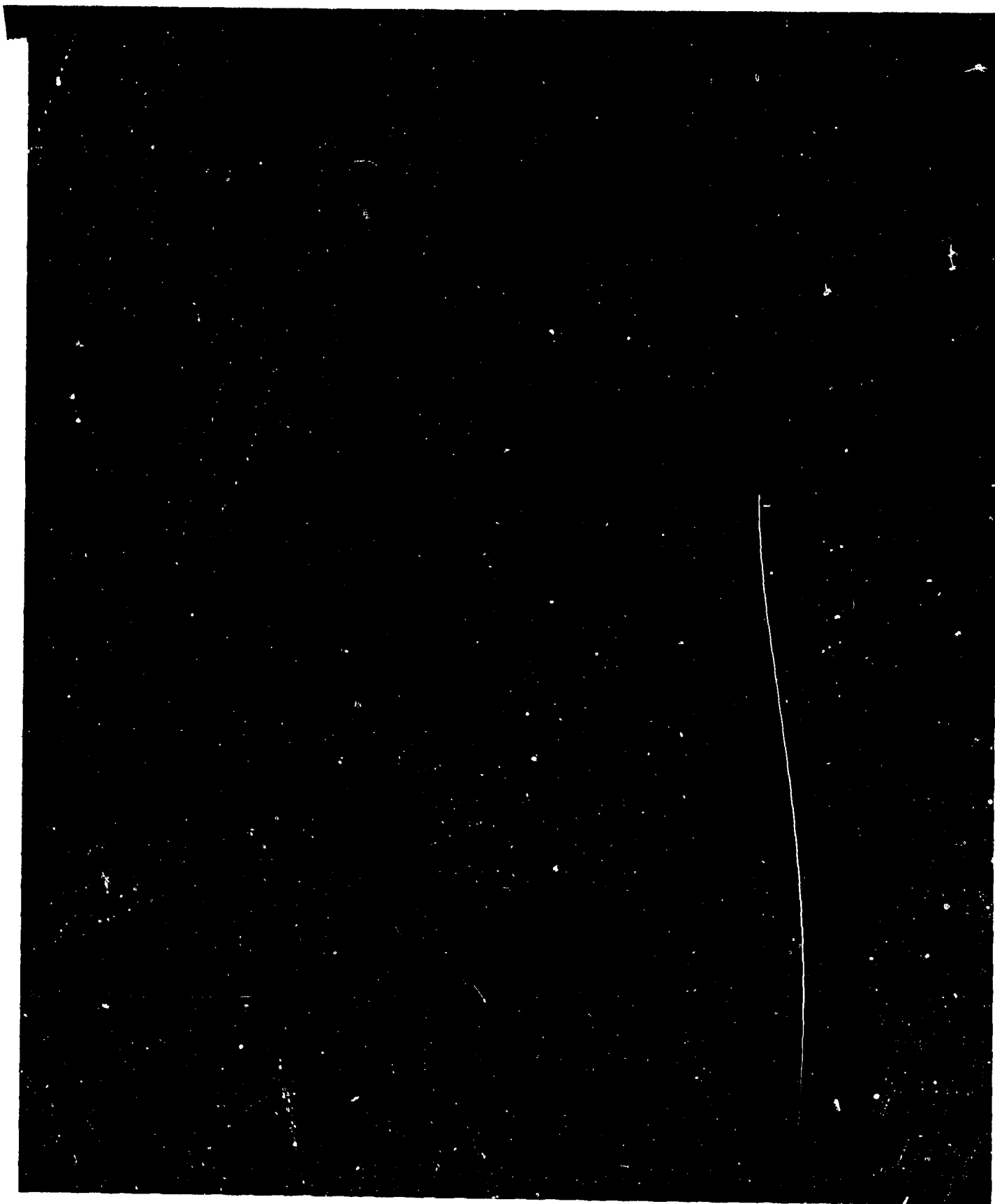
AB-CR-MIG-6513-2. "Plus" Disconnect switch-forward battery.

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AB-CR-MIK-6518-4. After battery cell #34 oil stains.

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AB-CR-MIK-6519-4. After battery - cracks in #8 cell case.

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AB-CR-MIK-6519-5. After battery - cracks in #34 cell case.

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AB-CR-MIG-6514-1. General view of after battery looking forward.

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AB-CR-MIG-6512-10. Intercoll connector after battery.

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AB-CR-MIG-6512-8. After battery "plus" disconnect switch.

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AB-CR-MIG-6512-9. After battery "minus" disconnect switch.

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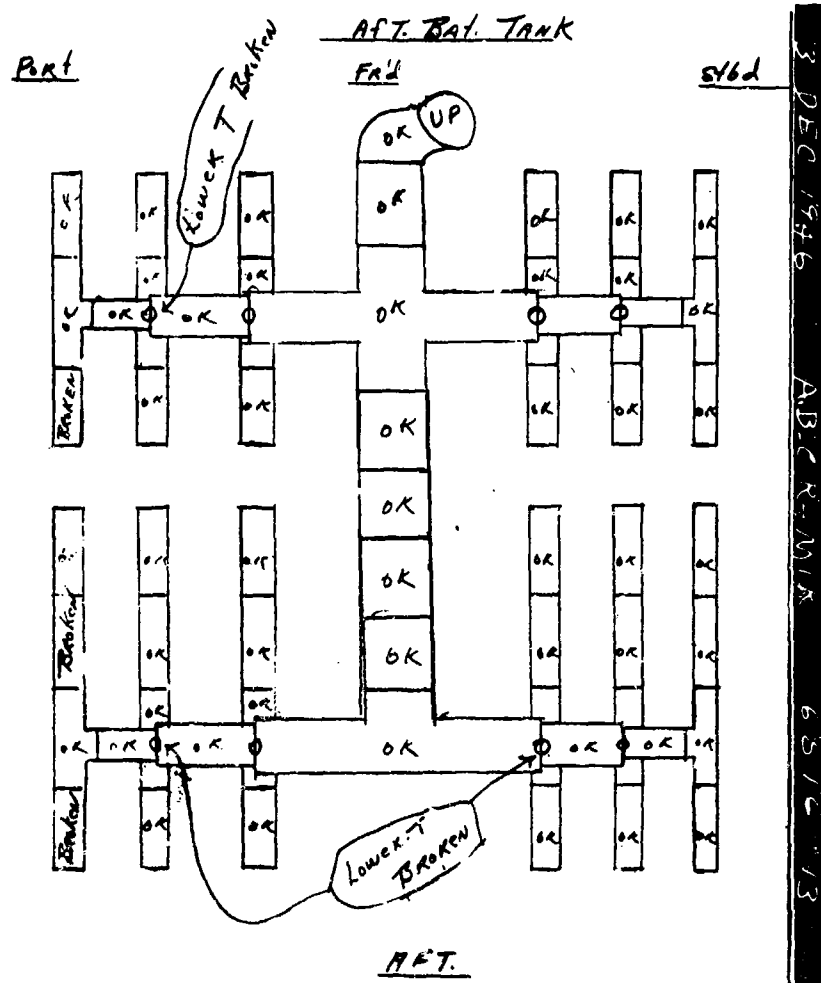
AB-CR-MIG-6512-11. Ventilation port side - after battery.

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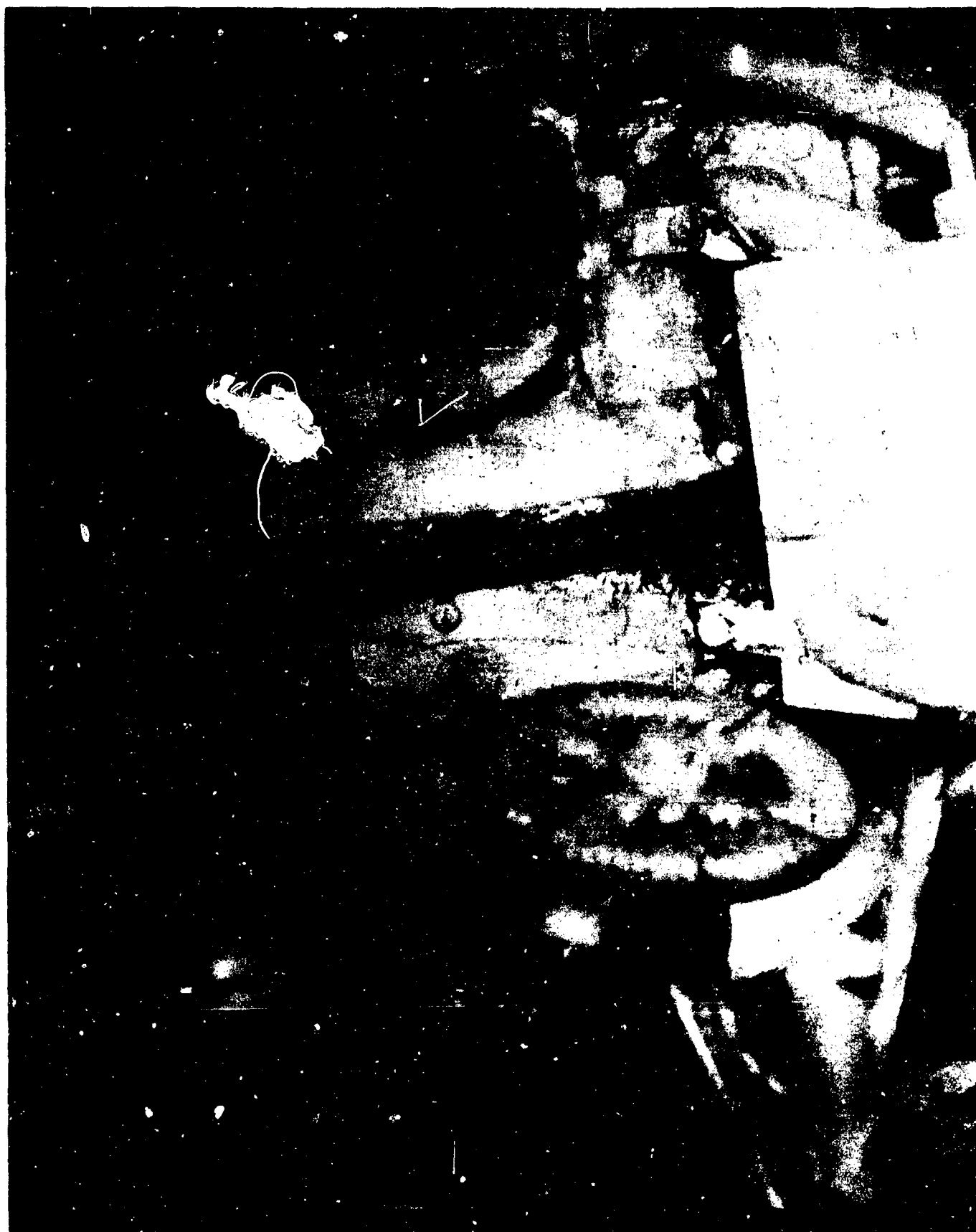
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AB-CR-MIK-6516-13. Sketch of after Battery vent duct arrangement and damage.

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AB-CR-MIG-6506-10. Bow plane rigging and capstan motor.

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AB-CR-MIG-6512-4. Bow plane rigging motor brush rigging.

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AB-CR-MIG-6512-12. #1 Lubricating and fuel oil transfer pump motor.

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AB-CR-MIG-6514-8. #2 Lubricating oil purifier pump motor.

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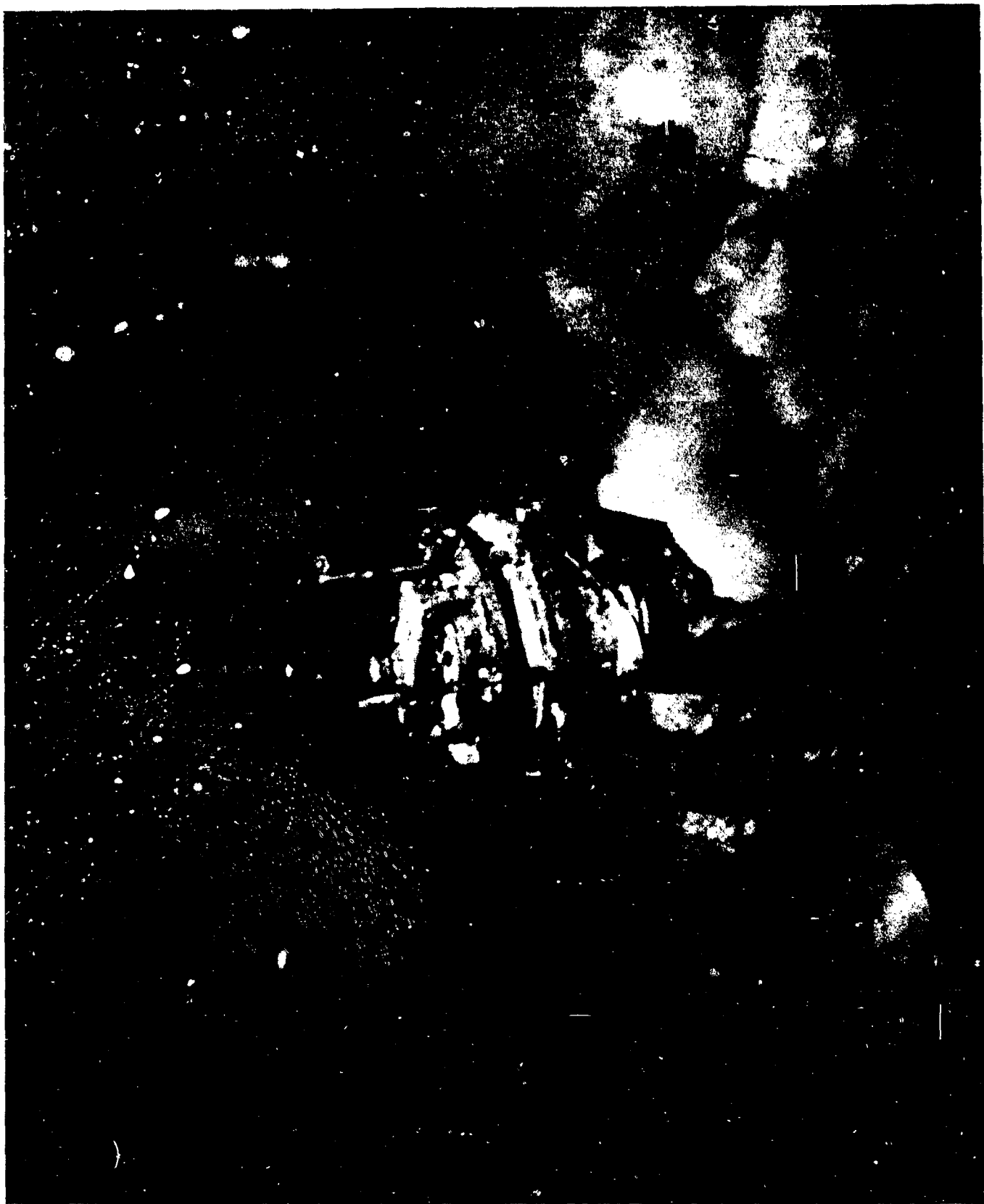
AB-CR-SM-6501-4 Forward anchor light from aft.

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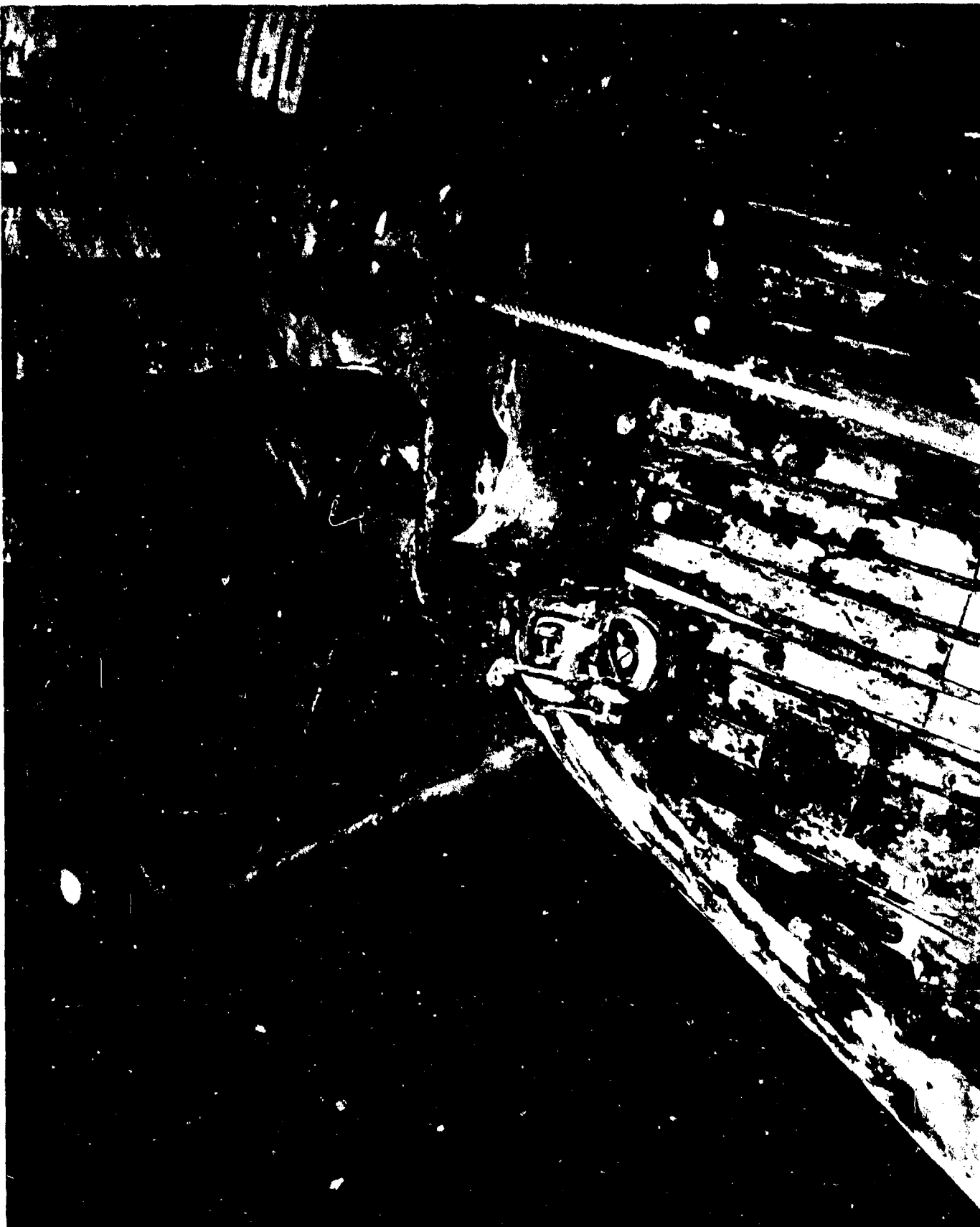


AB-CR-SM-6501-5. Forward anchor light from deck level.

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AB-CR-SM-6502-2. After anchor light.

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AB-CR-SM-6502-1. Pressure proof blinker key.

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AB-CR-MIG-6511-2. Mark 7 Mod. 0 #7003 gyro compass.

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AB-CR-MIG-6511-3. Mark 7 Mod. 0 #7003 gyro compass.

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AB-CR-MIG-6524-9. Conning tower gyro repeater.

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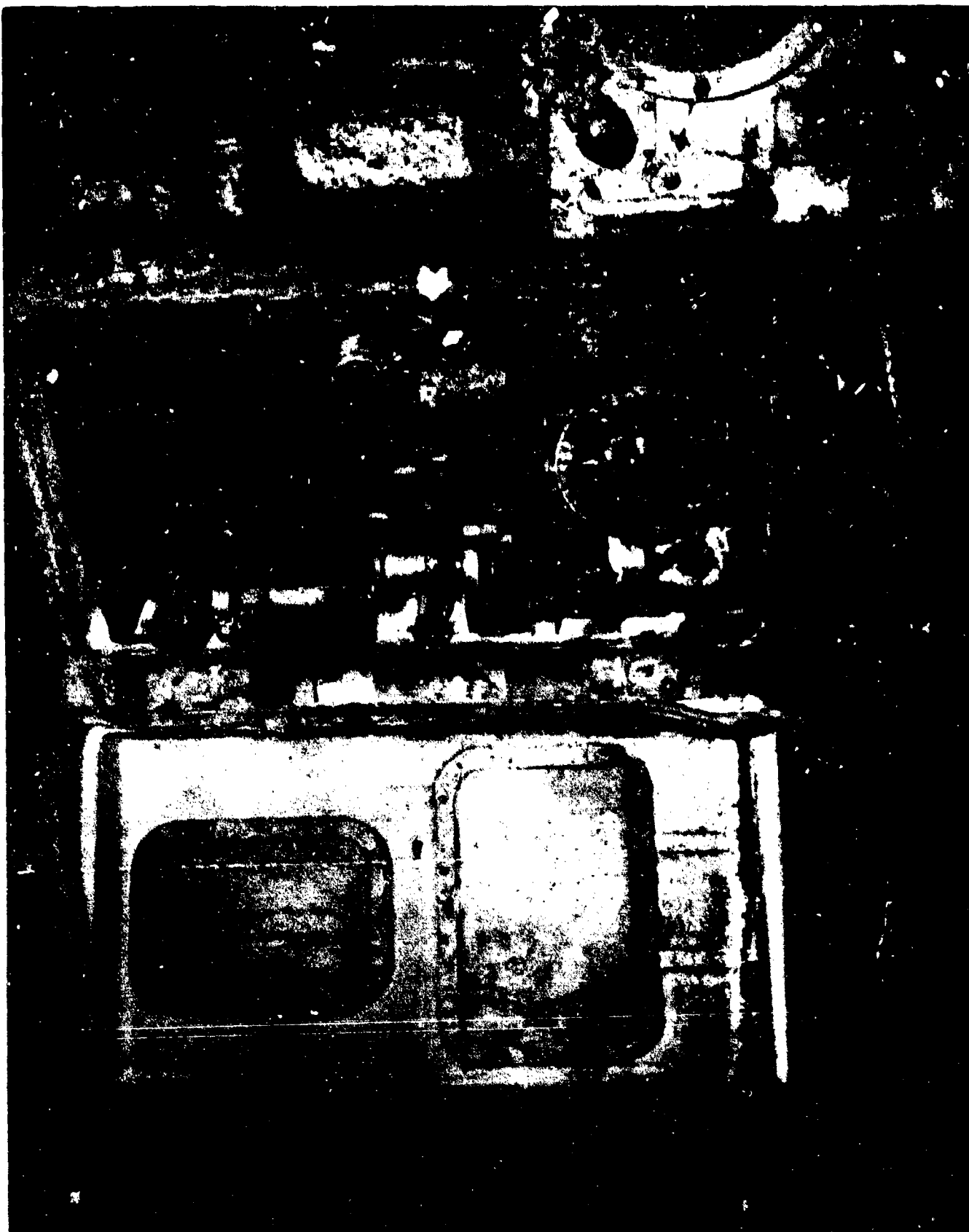
AB-CR-SM-6501-12. Bridge gyro repeater.

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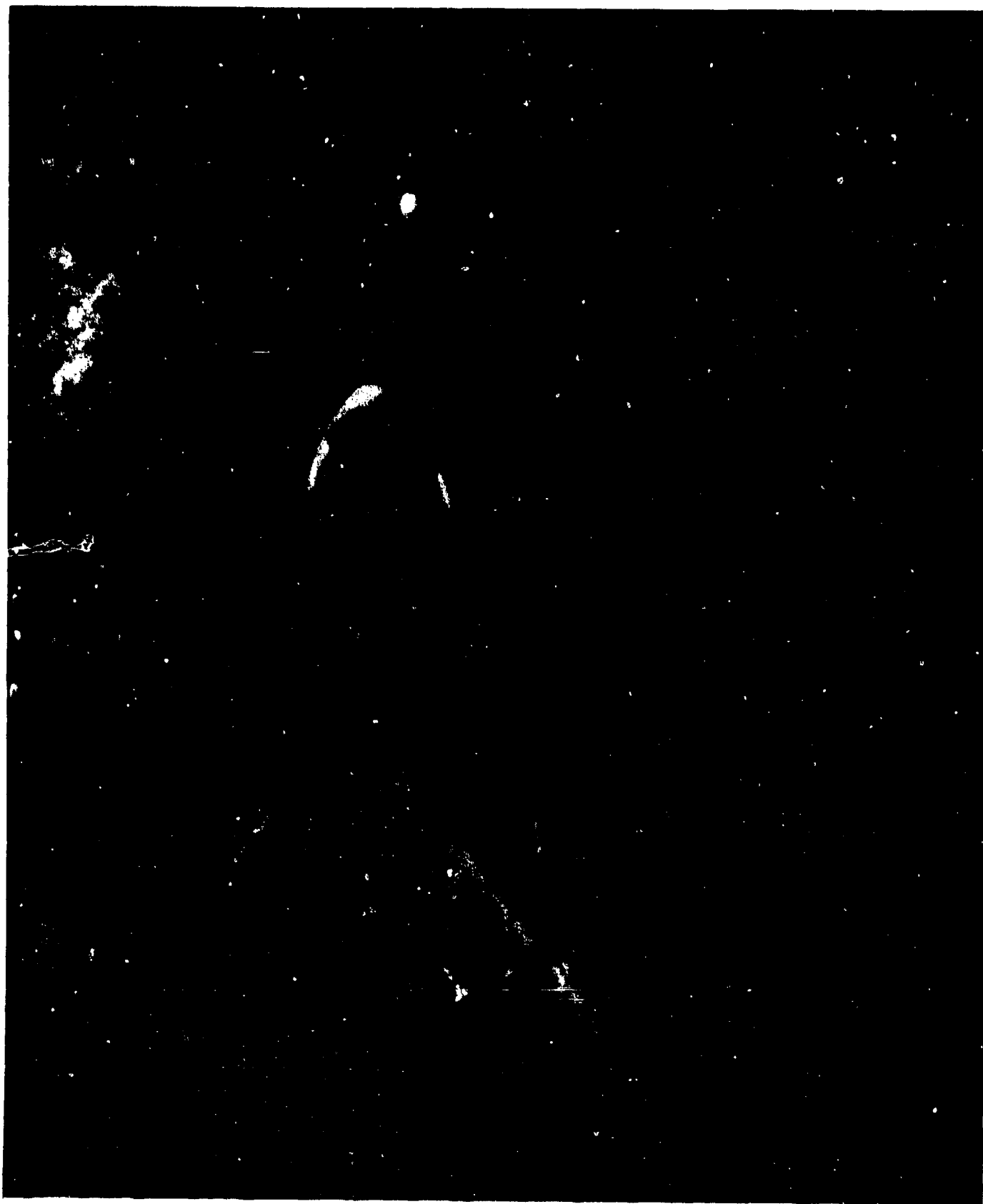
AB-CR-MIG-6511-12. D.R.A. indicator.

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AB-CR-MIG-6511-4. Mark 9 auxiliary gyro compass Ser. 9262.

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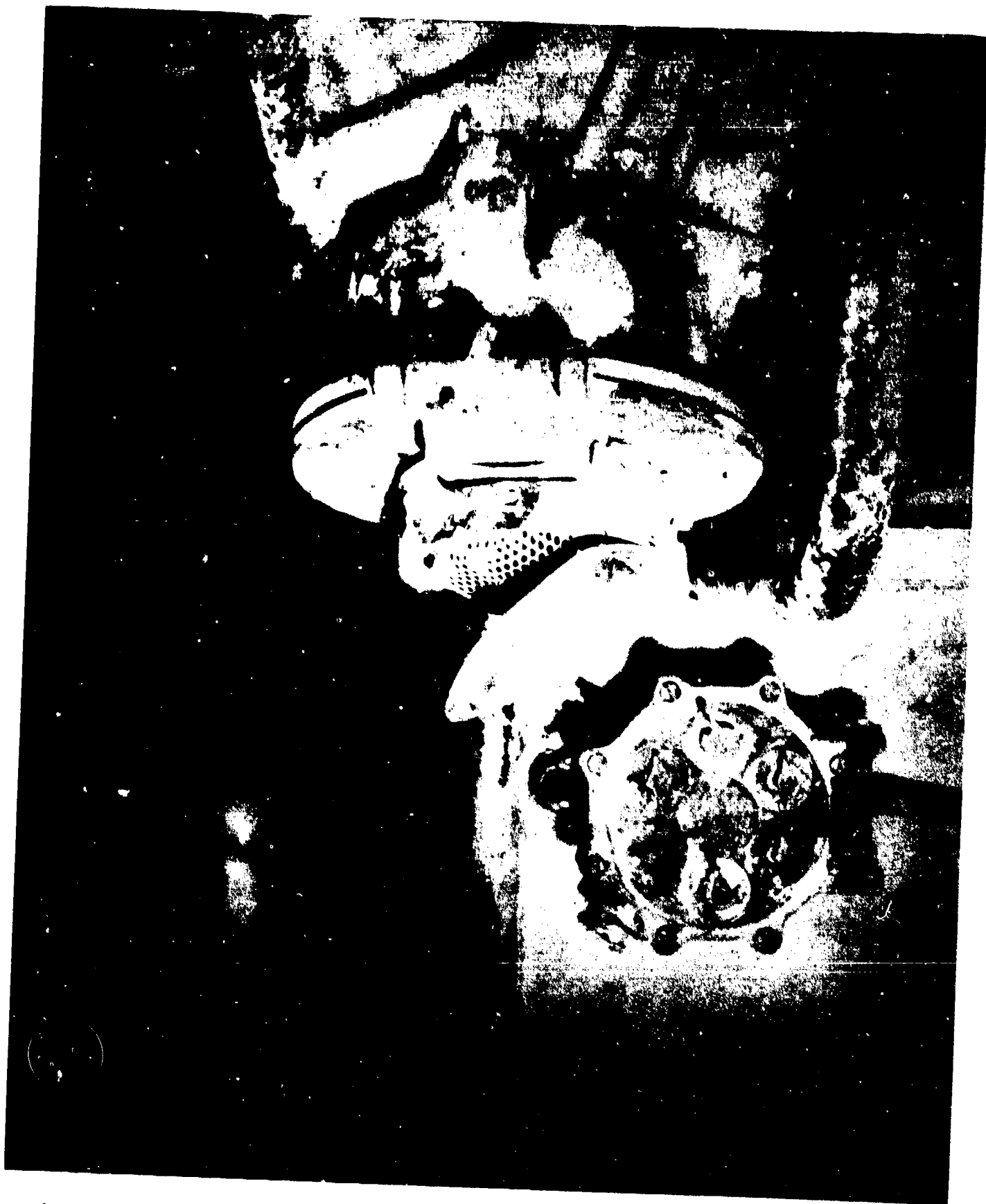
AB-CR-MIG-6511-11. 1 M.C. Power amplifier #1.

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AB-CR-SM-6501-8. Forward bridge pressure proof speaker and selector panel.

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AB-CR-SM-6501-7. After bridge pressure proof speaker..

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AB-CR-MIG-6511-10. Control room bow plane indicator.

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Defense Special Weapons Agency
6801 Telegraph Road
Alexandria, Virginia 22310-3398

TRC

18 April 1997

MEMORANDUM FOR DEFENSE TECHNICAL INFORMATION CENTER
ATTENTION: OMI/Mr. William Bush (Security)

SUBJECT: Declassification of Reports

The Defense Special Weapons Agency has declassified the following reports:

✓AD-366588 4	XRD-203-Section 12✓
AD-366589 L	XRD-200-Section 9
AD-366590 L	XRD-204-Section 13
AD-366591 L	XRD-183
✓AD-366586 X	XRD-201-Section 10✓
✓AD-367487 LX	XRD-131-Volume 2✓
✓AD-367516 4	XRD- 1 143✓
✓AD-367493 LX	XRD-142✓
AD-801410L✓	XRD-138
AD-376831L✓	XRD-83
AD-366759 L	XRD-80
✓AD-376830L X	XRD-79✓
✓AD-376828L 4	XRD-76✓
✓AD-367464 X	XRD-106✓
AD-801404L✓	XRD-105-Volume 1
✓AD-367459 X	XRD-100✓

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✓AD-367517✕	XRD-141 ✓
AD-366762✓	XRD-84
AD-366760✓	XRD-81
AD-366761✓	XRD-82
AD-367501✓	XRD-158-Volume 1
AD-367507L ✓	XRD-152-Volume 4
✓AD-367495 ✕	XRD-184 ✓
✓AD-367485 ✕	XRD-129 ✓
✓AD-367484 ✕	XRD-128 ✓
✓AD-367483 ✕	XRD-127 ✓
✓AD-367482 ✕	XRD-126 ✓
AD-367488 ✓	XRD-132
✓AD-367480 ✕	XRD-124 ✓
AD-801409L ✓	XRD-135
✓AD-367490 ✕	XRD-136 ✓
✓AD-367492 ✕	XRD-137 ✓
AD-801411L ✓	XRD-139
✓AD-367518 ✕	XRD-140 ✓
AD-367515 ✓	XRD-144
AD-367514 ✓	XRD-145
AD-367468 ✕	XRD-110-Volume 2 ✓
AD-367513 ✓	XRD-146
AD-367497 ✕	XRD-162 ✓

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Subject: Declassification of Reports

AD-801406L ✓ XRD-114.

In addition, all of the cited reports are now **approved for public release; distribution statement "A" now applies.**

Ardith Jarrett
ARDITH JARRETT
Chief, Technical Resource Center