

50X1-HUM

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AIRCRAFT  
TURBOJET ENGINE  
TYPE PL-9B  
ALBUM OF DRAWINGS

50X1-HUM

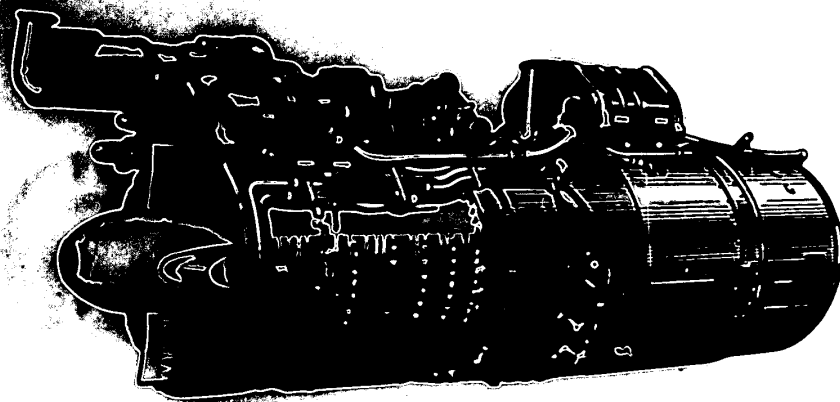
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Fig. 1. F2-95 Engine with Afterburner. Right-Hand View.

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Fig. 2. 77-55 Engine without Afterburner. Left-Hand View.

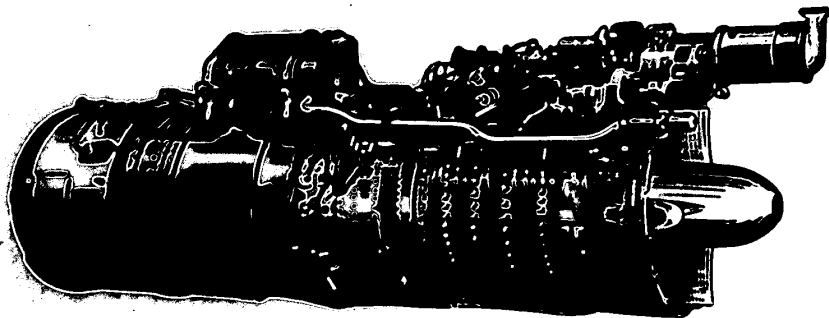
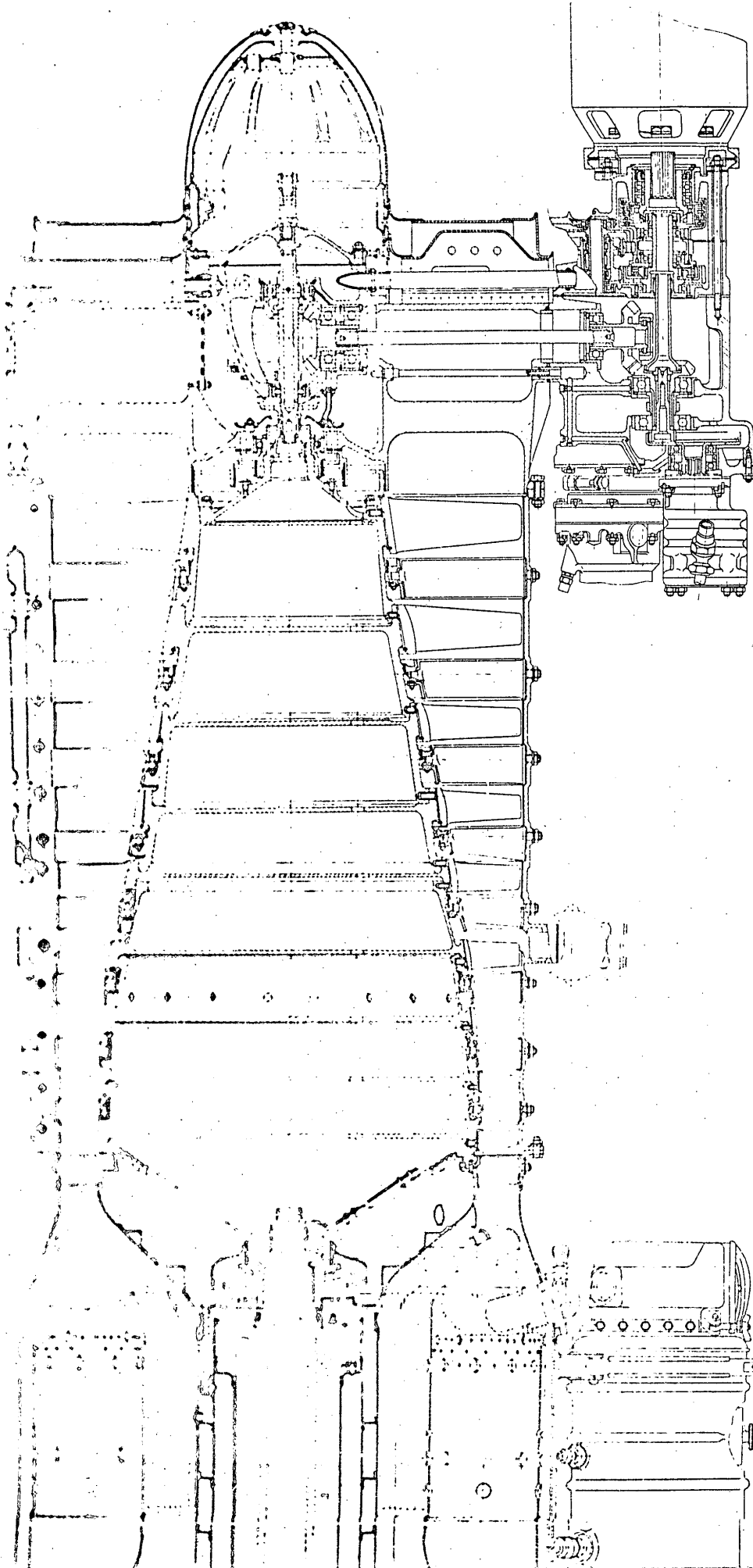
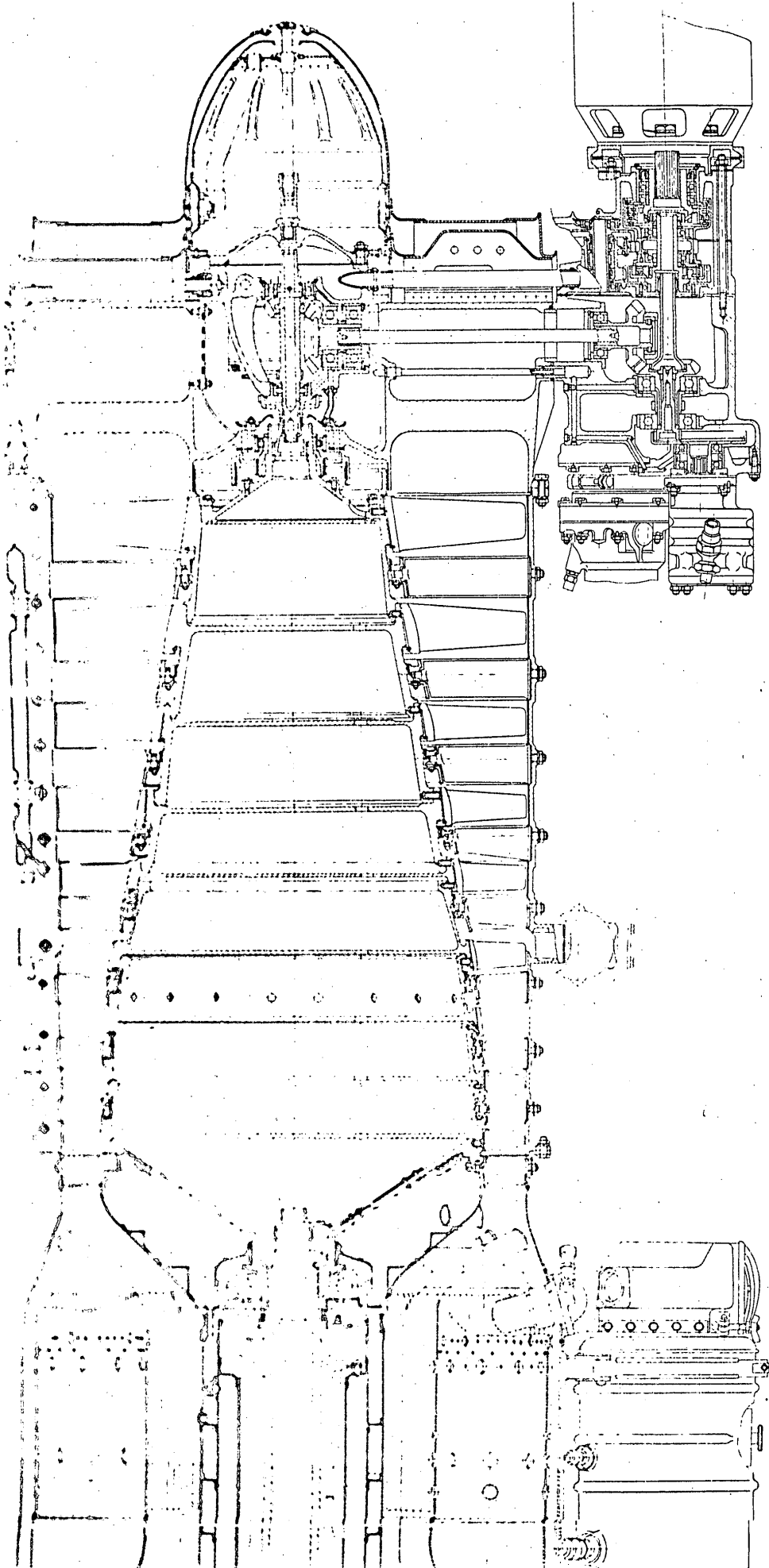
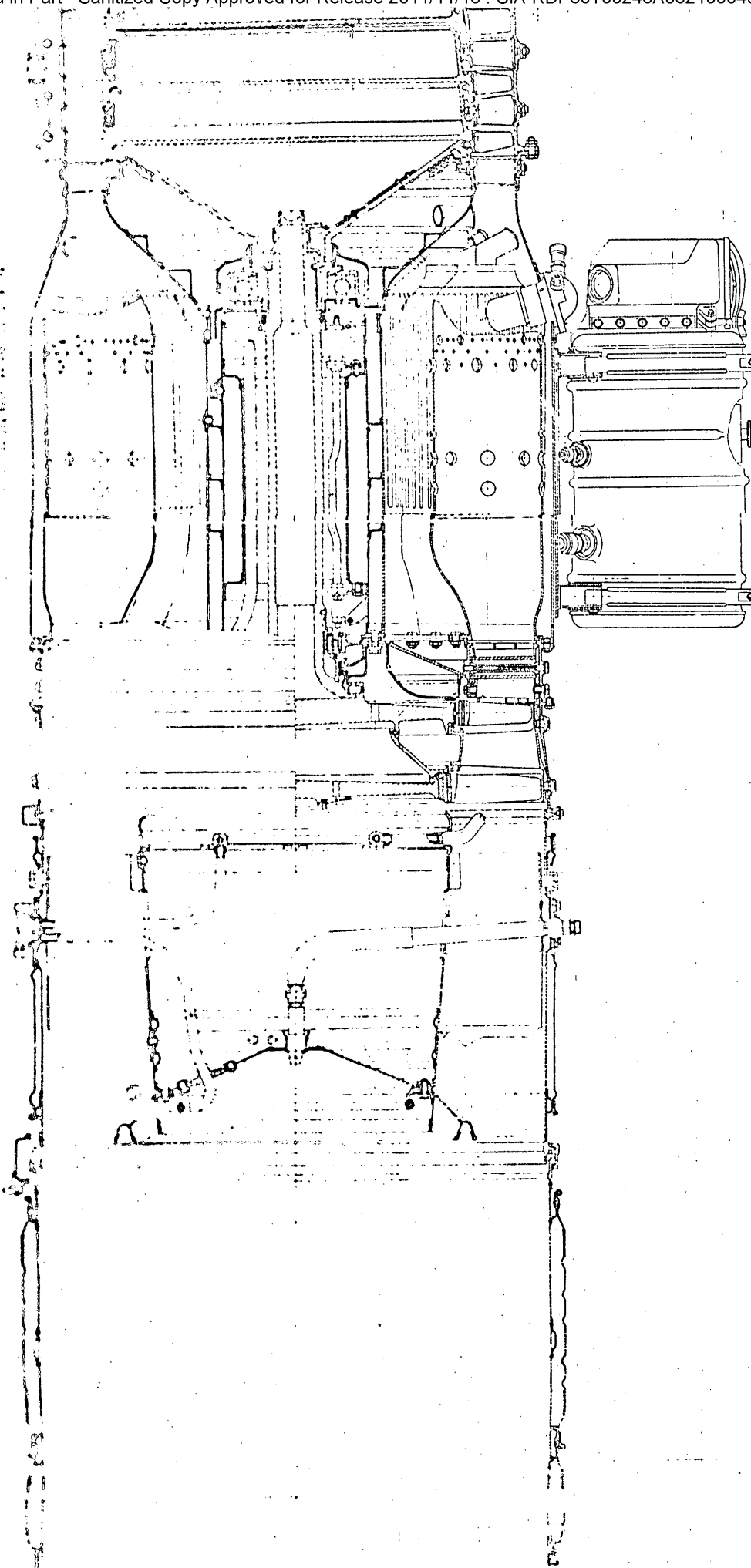


Fig. 3. F2-96 Engine without Afterburner. Right-Hand View.









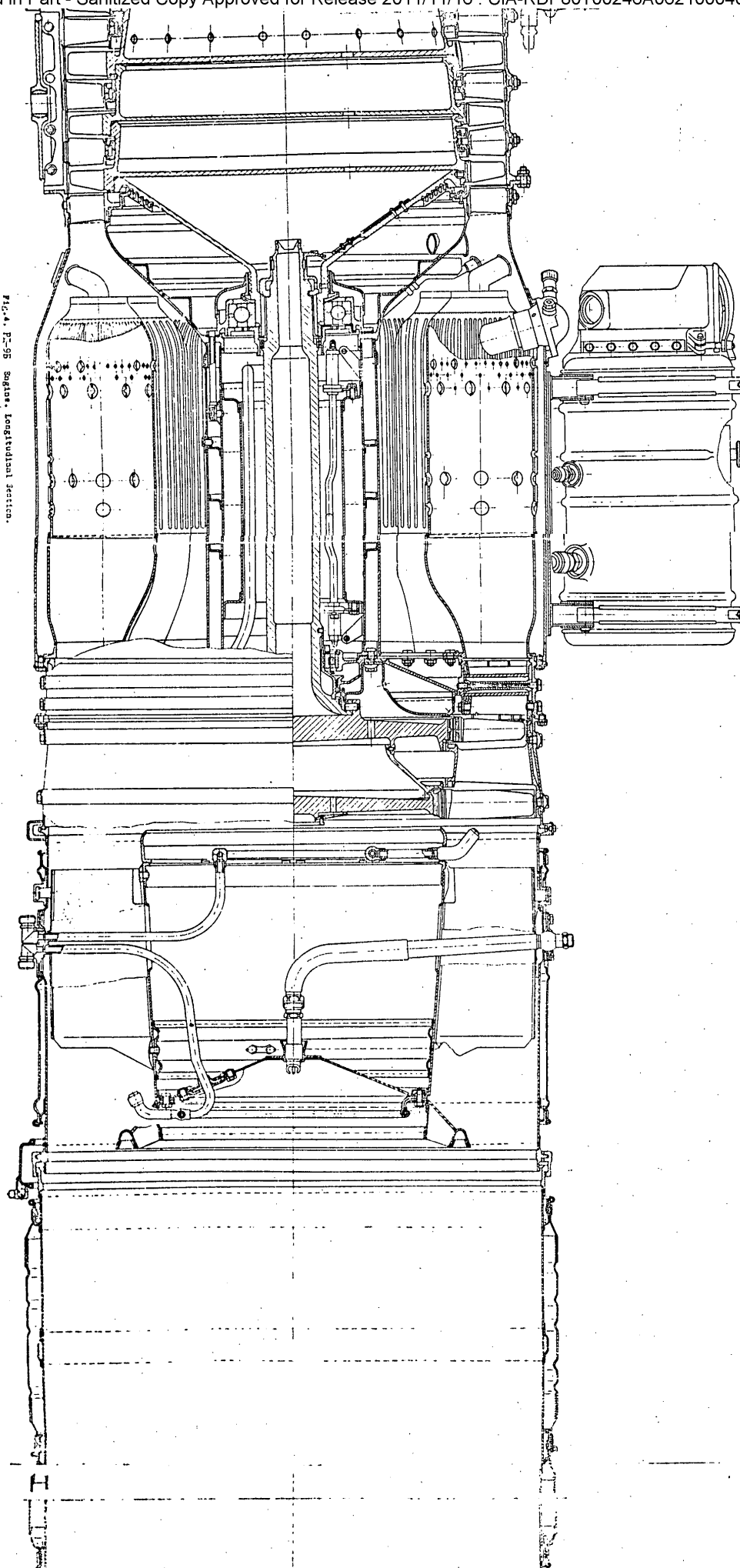
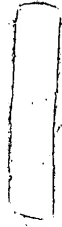
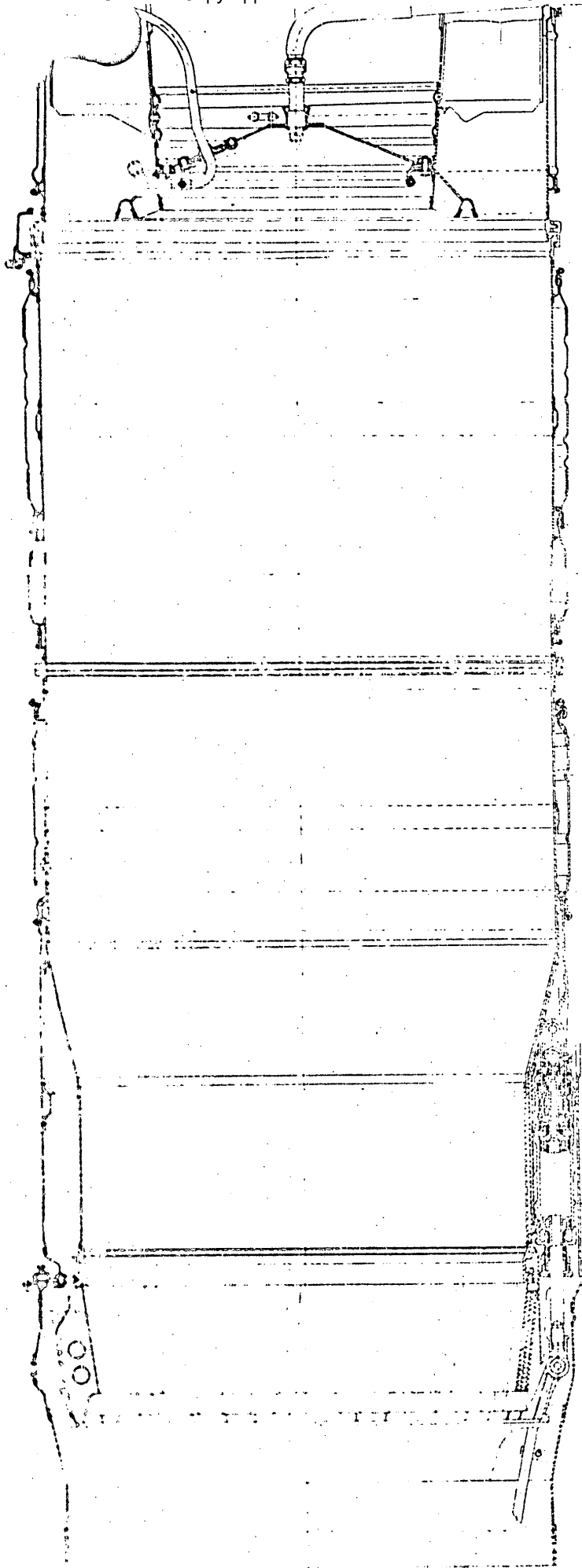
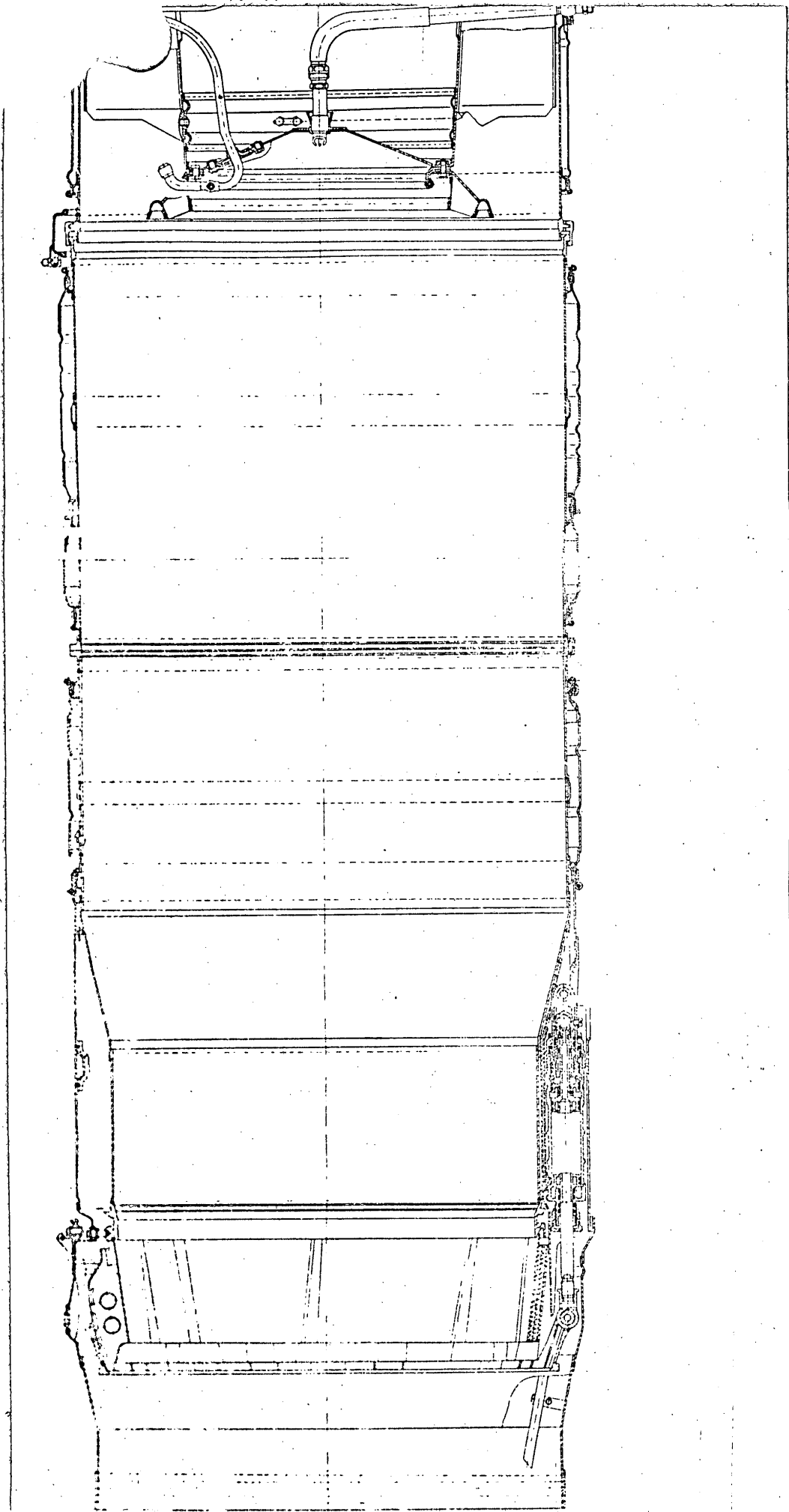


Fig. 4. P-35 Saturn. Longitudinal section.





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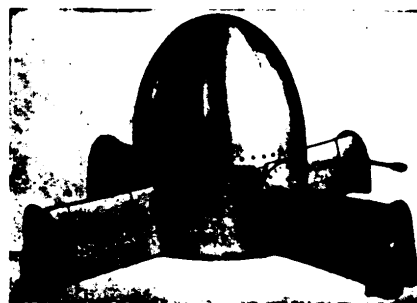


Fig. 5. Nose Bullet

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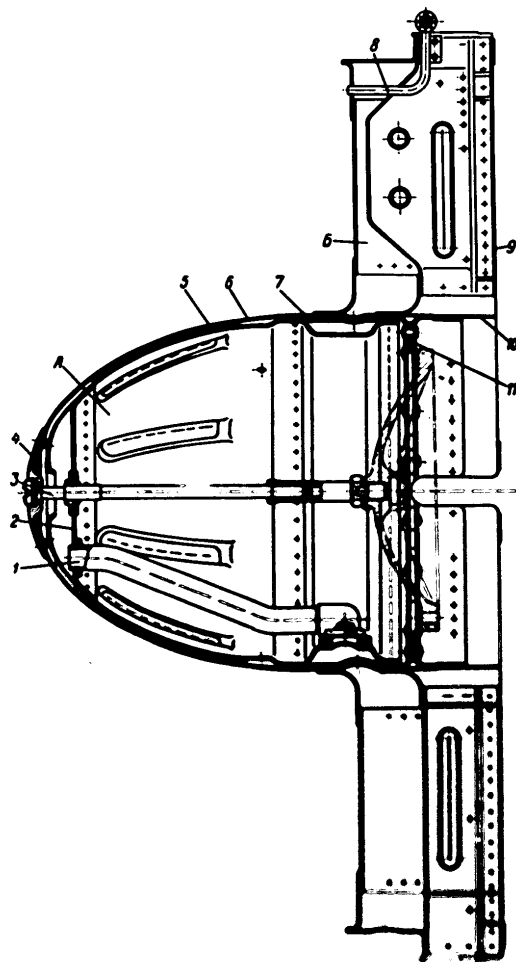


Fig. 6. Nose Bullet Magnet

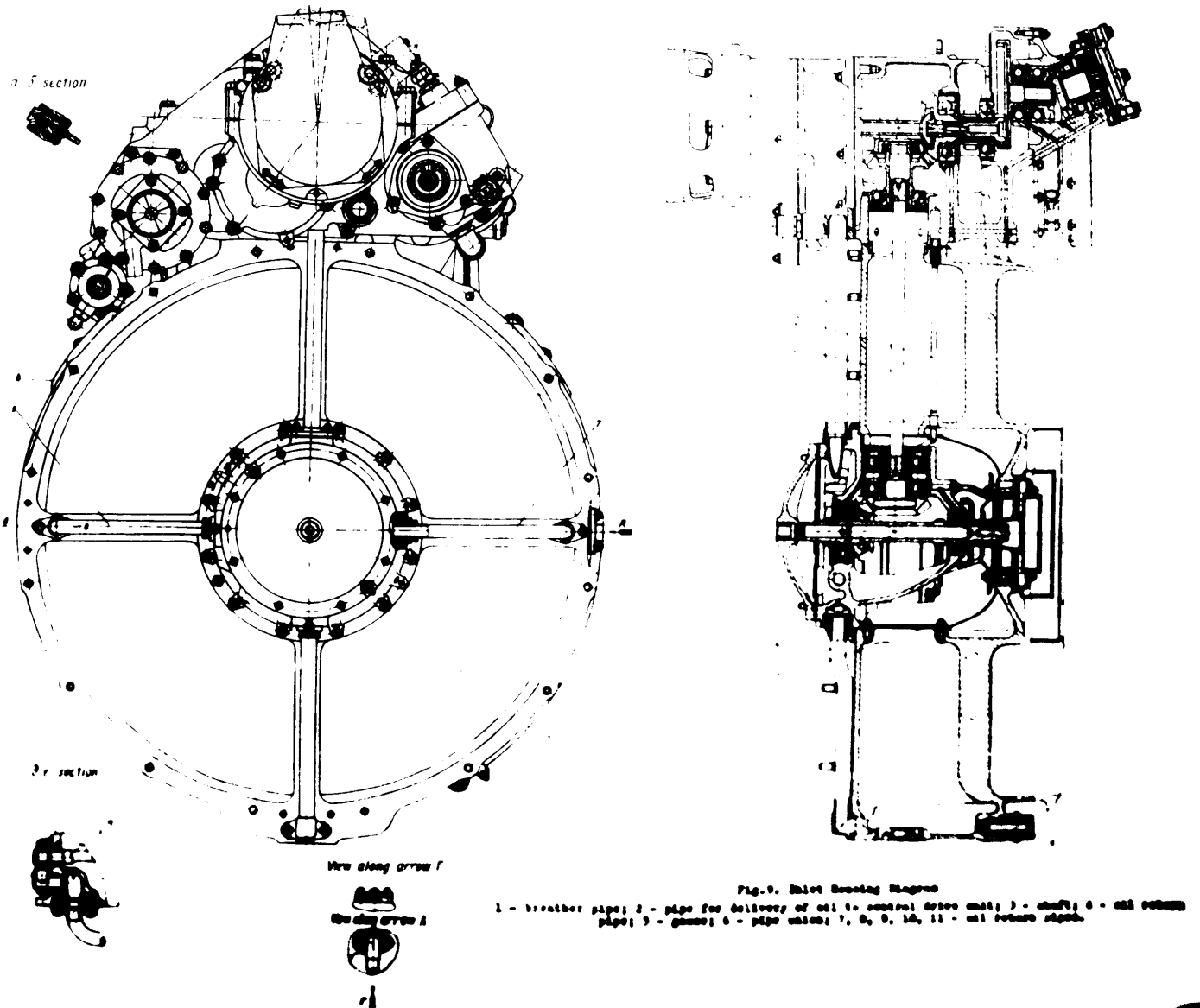
- 1 - support
- 2 - magnet
- 3 - support
- 4 - magnet
- 5 - lower coil of magnet
- 6 - lower coil of magnet
- 7 - support
- 8 - support
- 9 - support
- 10 - support



Fig. 7. Inlet Housing. Front View



Fig. 8. Inlet Housing. Rear View



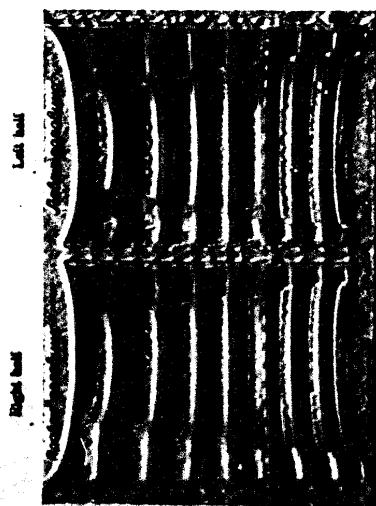


Fig. 18 Middle Housing



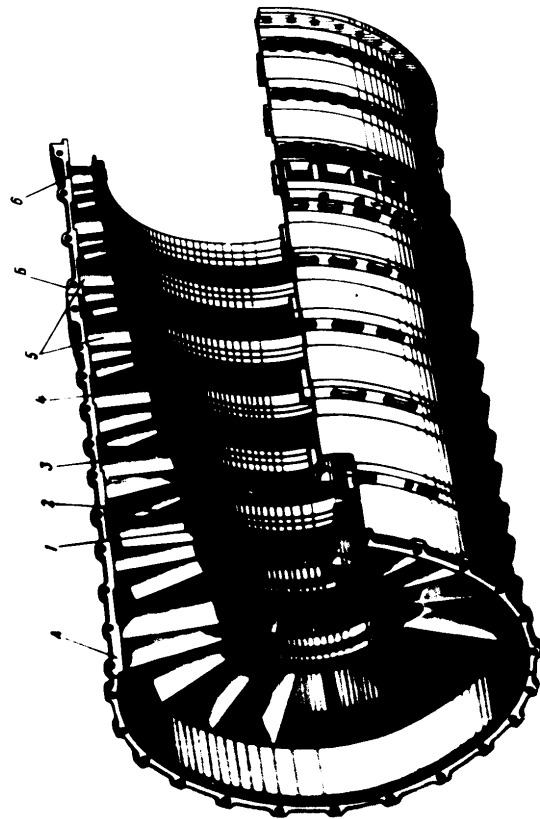


Fig. 11. Mobile Housing  
1 - front half-ring; 2 - rear half-ring; 3 - steel; 4 - net;  
5 - front guide wheel; 6 - belt.

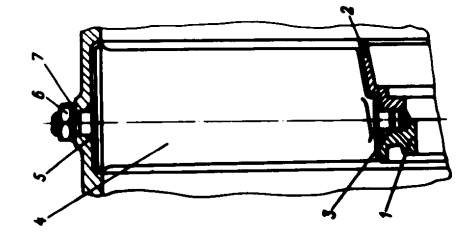


Fig. 13. Attachment of Slide Yaws  
1 - front half-ring; 2 - rear half-ring; 3 - locking ring; 4 - nut; 5 - locking washer.

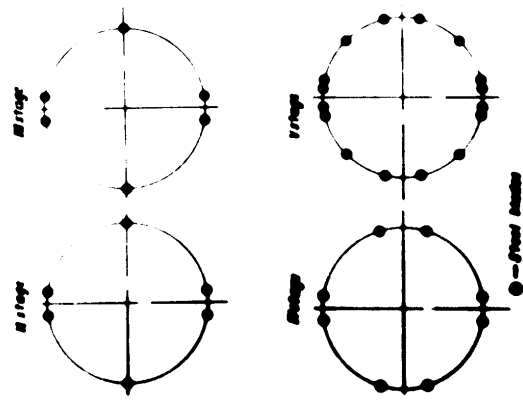


Fig. 14. Diagram Showing Arrangement of Steel Yaws

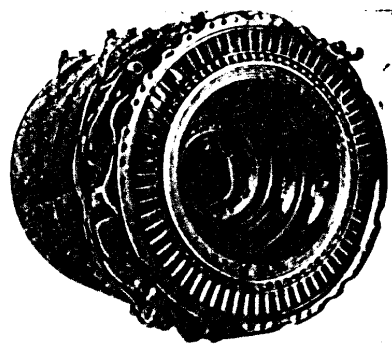


Fig. 14. Rear Housing, Front View

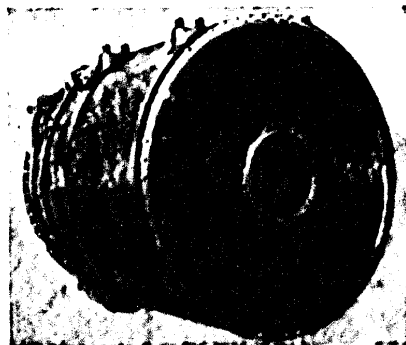


Fig. 15. Rear Housing, Rear View

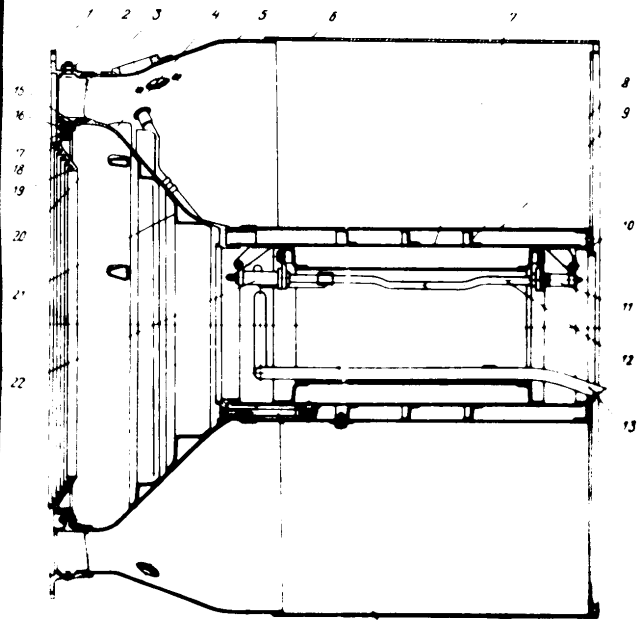


Fig. 16. Rear Housing Flange

1 - outer load-carrying ring; 2 - nut; 3 - ninth stage guide vane; 4 - pipe connection; 5 - outer wall cone; 6 - outer wall thread; 7 - bearing housing; 8 - rib; 9 - shield; 10 - bearing housing flange; 11 - oil nozzle of rear bearing; 12 - oil supply pipe; 13 - pipe for draining oil from rear support cavity; 14 - drainage nut pipe; 15 - inner ring; 16 - nut; 17 - ball; 18 - cone; 19 - labyrinth ring; 20 - bearing housing diffuser; 21 - rib; 22 - centre bearing oil nozzle.

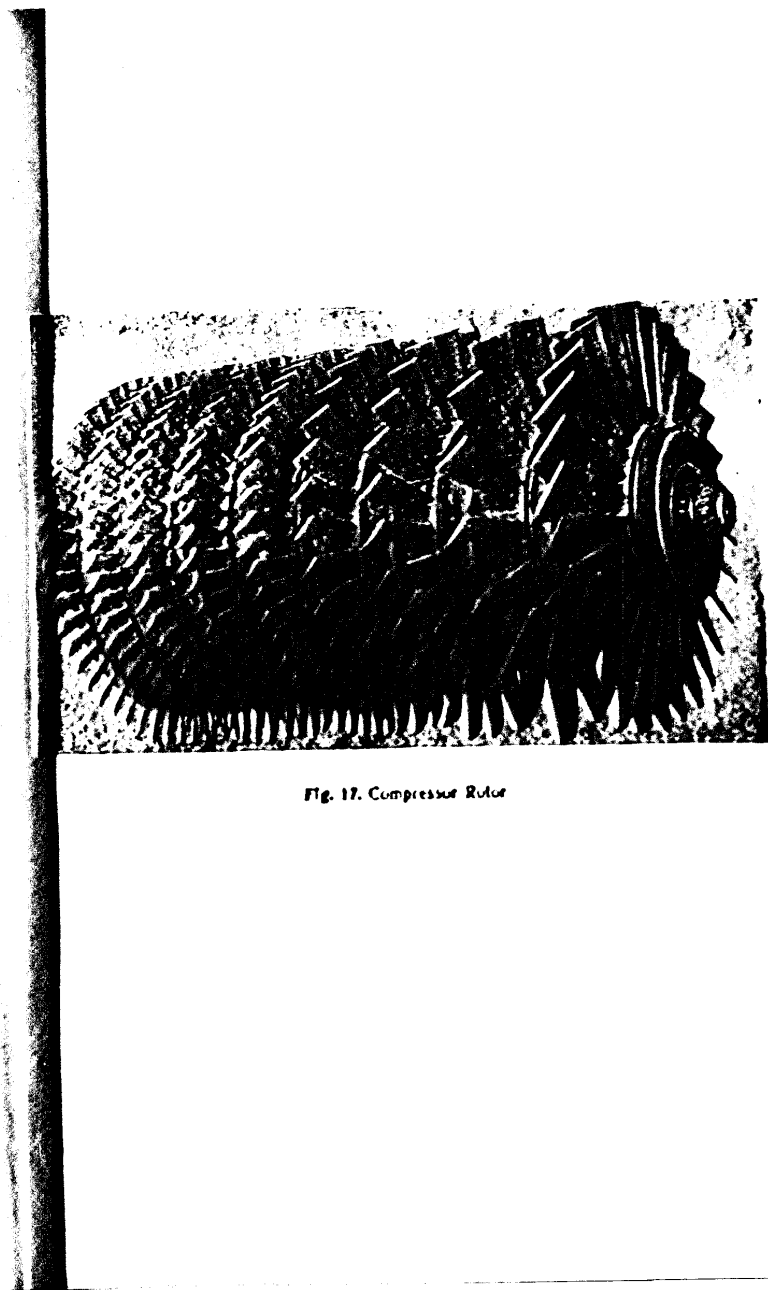


Fig. 17. Compressor Rotor

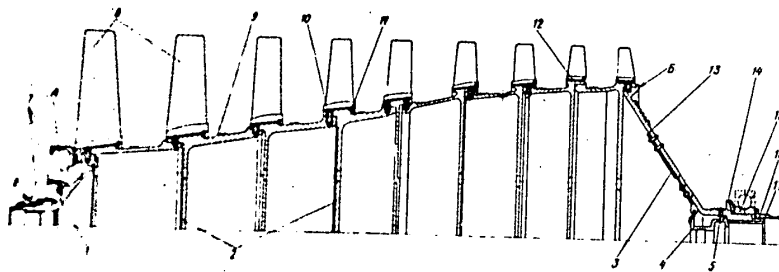


Fig. 18. Compressor Rotor Diagram  
1 - front transition; 2 - discs; 3 - catch; 4 - coupling; 5 - dowel; 6 - roller bearing; 7 - labyrinth sealings; 8 - blades; 9 - circular ridges; 10 - dowel; 11 - locking ring; 12 - retaining lock; 13 - rear transition; 14 - oil strainer; 15 - ball bearing; 16 - bearing securing nut; 17 - retaining lock.

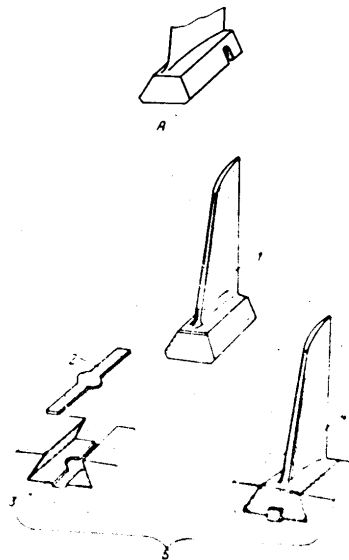
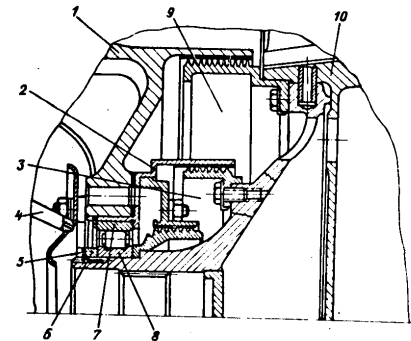
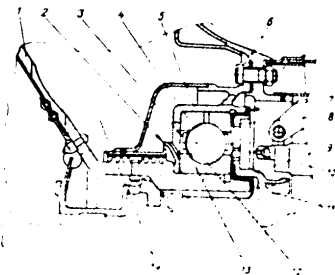


Fig.19. Attachment of Compressor Rotor Blades  
A - lock portion of blade of first rotor stage  
(groove for locking ring may be seen in attachment of sixth and ninth stage blades, 1 - blade, 2 - retaining lock; 3 - illustration of rotor for retaining lock may be seen; 4 - installed and fastened blade.



**Fig. 20. Front Bearing**  
 1 - front case; 2 - front support housing; 3 - cavity into which air is delivered from behind eighth stage of compressor; 4 - oil nozzle; 5 - retaining lock; 6 - nut; 7 - outer ring; 8 - inner ring; 9 - front relief cavity; 10 - compressor rotor.



**Fig. 21. Centre Bearing**  
 1 - rear trunion of compressor rotor; 2 - oil slinger; 3 - cage; 4 - bearing outer ring; 5 - middle support housing; 6 - bearing housing of compressor rear housing; 7 and 11 - plate locks; 8 - nut; 9 - outer; 10 - oil nozzle; 11 - nut; 12 - inner ring; 13 - rear relief cavity.



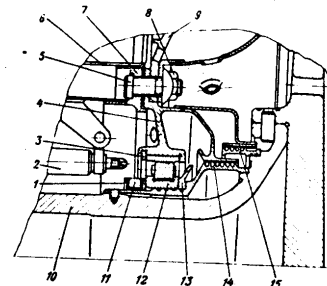


Fig. 22. Rear Bearing  
 1 - plate lock; 2 - oil nozzle; 3 - locking ring;  
 4 - rear support housing; 5 - bolt; 6 - shield;  
 7 - bearing housing; 8 - nut; 9 - inner support  
 of nozzle assembly; 10 - turbine rotor; 11 - nut;  
 12 - inner ring; 13 - oil slinger; 14 - turbine  
 shaft bush; 15 - labyrinth sealing.

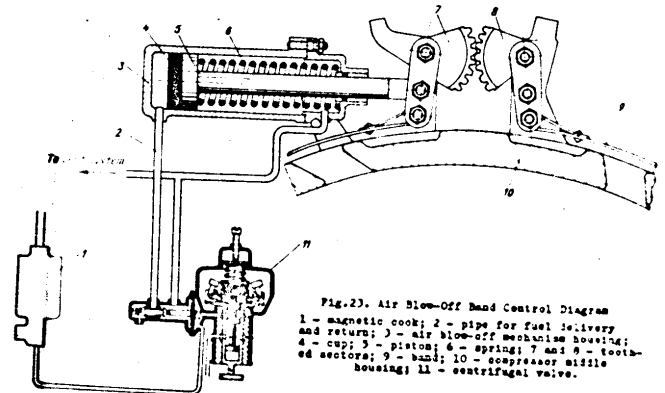
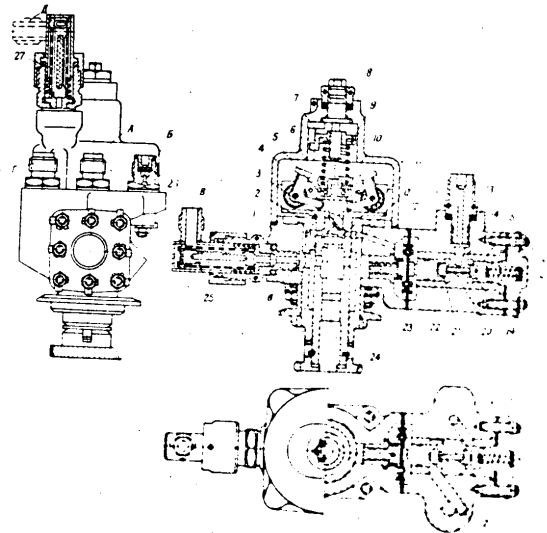


Fig. 23. Air Blow-Off Hand Control Diagram  
 1 - magnetic cock; 2 - pipe for fuel delivery  
 and return; 3 - air blow-off mechanism housing;  
 4 - cup; 5 - piston; 6 - spring; 7 and 8 - tooth-  
 ed sectors; 9 - hand; 10 - compressor missile  
 housing; 11 - centrifugal valve.



24. Centrifugal valve  
1, 5, 8, 9, 10 - pipe unions; 6 - 1, 2, 3 - nuts; 4 - gaskets; 7 - 10, 17 - spring retainers; 11 - 12 - bearing rollers; 13 - 14 - bearings; 15 - 16 - valve seats; 18 - valve seat; 19, 21 - valve seats; 20 - seal; 22 - seal; 23 - seal; 24 - nut; 25 - nut; 26 - nut; 27 - filters.

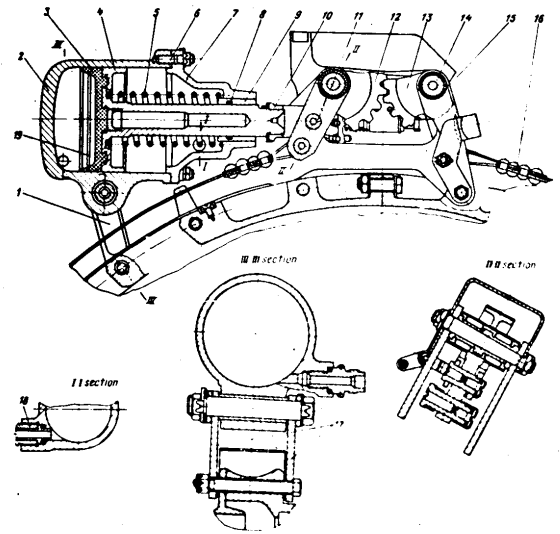


Fig. 25. Air Blow-Off Band Control Mechanism  
 1 - bracket; 2 - cylinder; 3 - cup; 4 - piston; 5 - spring; 6 - stud; 7 - cover;  
 8 - rubber ring; 9 - bump; 10 - tip; 11 - pin; 12 - driving sector; 13 - driven  
 sector; 14 - distance sleeve; 15 - needle bearing; 16 - band; 17 - bracket;  
 18 - pipe union; 19 - distance ring.

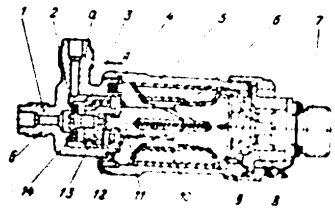


Fig. 6. Magnetic Lock  
 1 - clear cover; 2 - pipe union; 3 - pipe nut;  
 4 - pipe cap; 5 - pipe cap nut; 6 - pipe cap  
 washer; 7 - pipe cap gasket; 8 - pipe cap seal;  
 9 - pipe cap spring; 10 - pipe cap ball;  
 11 - pipe cap ball spring; 12 - pipe cap ball  
 nut; 13 - pipe cap ball washer; 14 - pipe cap  
 ball gasket.

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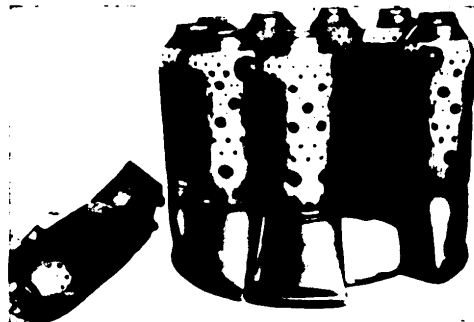


Fig. 27. Combustion Chambers

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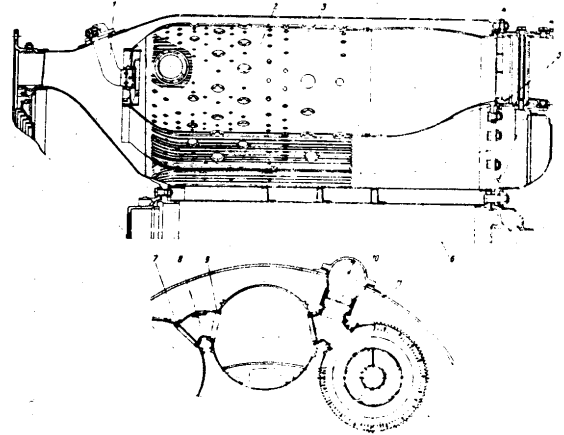


Fig. 28. Arrangement of Combustion Chambers inside Shell (Longitudinal section)  
1 - main burner; 2 - combustion chamber; 3 - rear housing; 4 - first stage nozzle assembly; 5 - ring; 6 - shield; 7 - bush; 8 - by-pass connection; 9 - bush; 10 - flame igniter; 11 - by-pass connection.

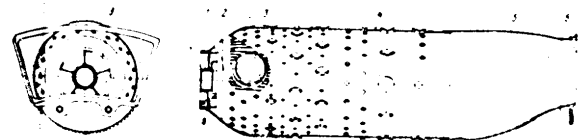


Fig. 29. Combustion Chamber (Longitudinal Section)  
1 - swirl-er outer shell; 2 - anout; 3 - bush; 4 - liner; 5 - flame tube; 6 - flame; 7 - bush; 8 - vane; 9 - swirl-er.

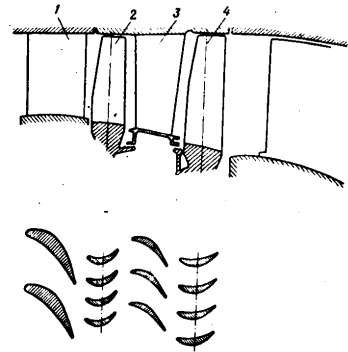


Fig.30. Diagram of Turbine Flow Section  
1 - first stage nozzle assembly; 2 - first stage of turbine rotor; 3 - second stage nozzle assembly; 4 - second stage of turbine rotor.

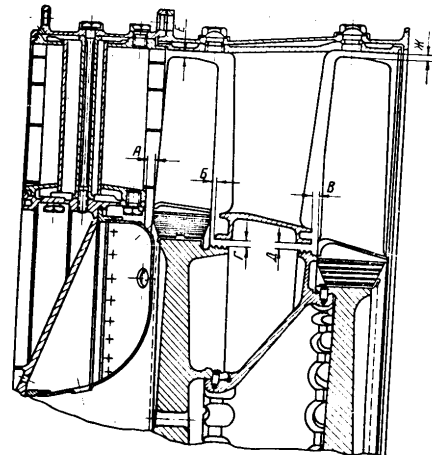


Fig.31. Diagram Showing Turbine Clearances

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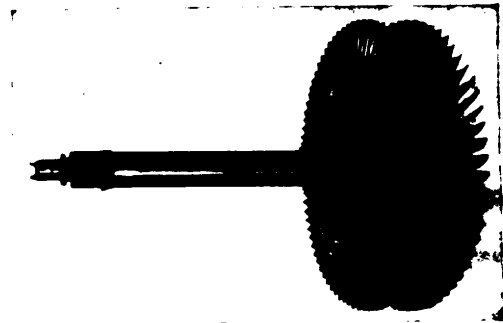


Fig. 32. Turbine Rotor

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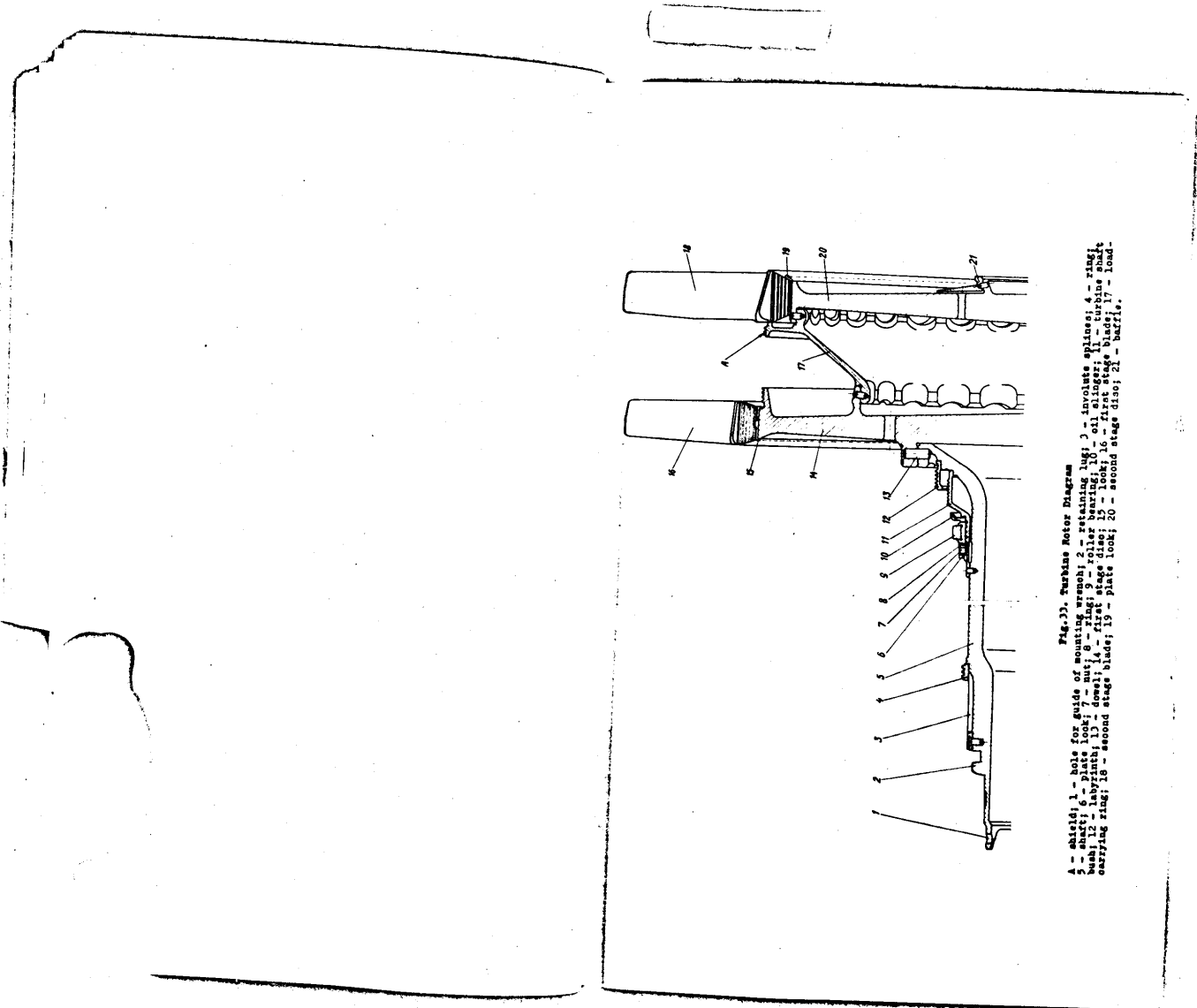
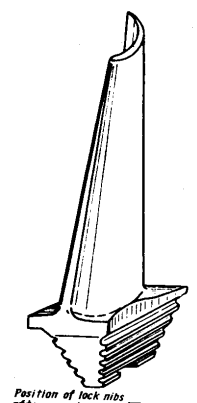
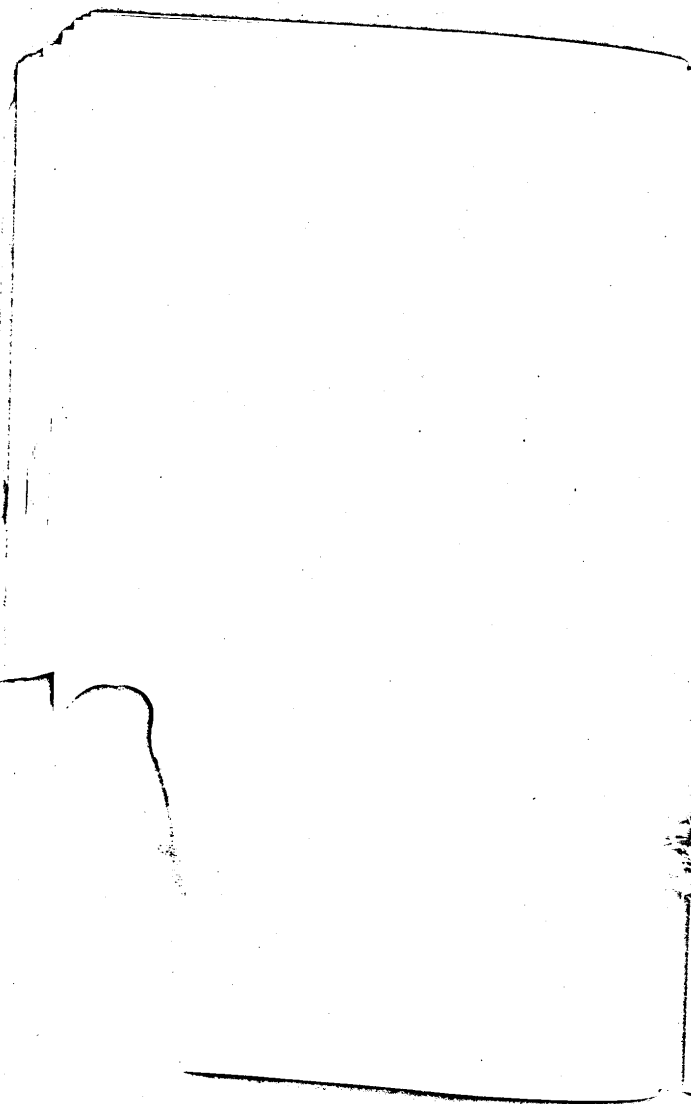


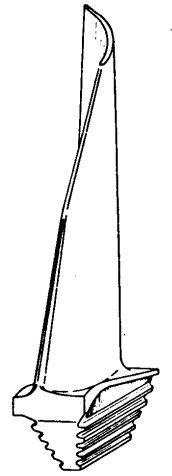
Fig. 13. Turbine Rotor Diagram  
1 - shaft; 2 - hole for guide of mounting; 3 - retaining lug; 4 - ring;  
5 - nut; 6 - plate lock; 7 - nut; 8 - ring; 9 - oil slinger; 10 - turbine shaft  
overriding ring; 11 - turbine shaft; 12 - nut; 13 - dowel; 14 - first stage disc; 15 - lock; 16  
overriding ring; 17 - second stage blades; 18 - plate lock; 19 - second stage disc; 20 - nut;  
21 - barrier.





*Position of lock ribs  
after securing blade  
in disc groove*

**Fig. 34. First Stage Blade  
and Lock for Retaining Blade  
in Disc Groove**



*Position of lock rib after securing  
blade in disc groove*

**Fig. 35. Second Stage Blade and  
Lock for Retaining Blade in Disc  
Groove**

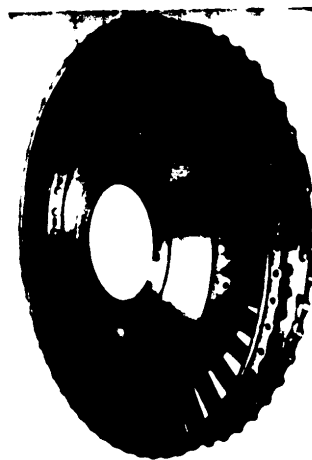


Fig. 37. First Stage Nozzle Assembly

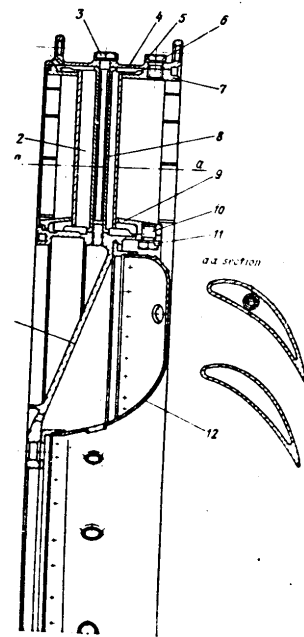


Fig. 36. Diagram of First Stage Nozzle Assembly  
1 - inner support; 2 - cone; 3 - spacing bolts;  
4 - outer ring; 5 - locking washer; 6 - bolt;  
7 - outer shoe; 8 - distance tab; 9 - inner  
shoe; 10 - bolt; 11 - locking washer; 12 - outlet



Fig. 39. First Stage Nozzle Assembly Vane, Distance Tube and Coupling Bolt



Fig. 40. Second Stage Nozzle Assembly

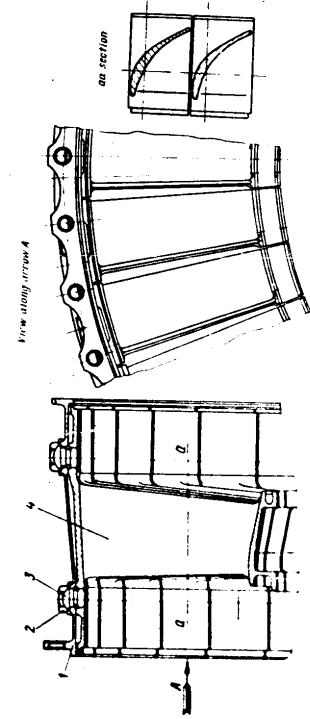
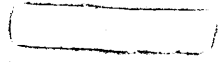
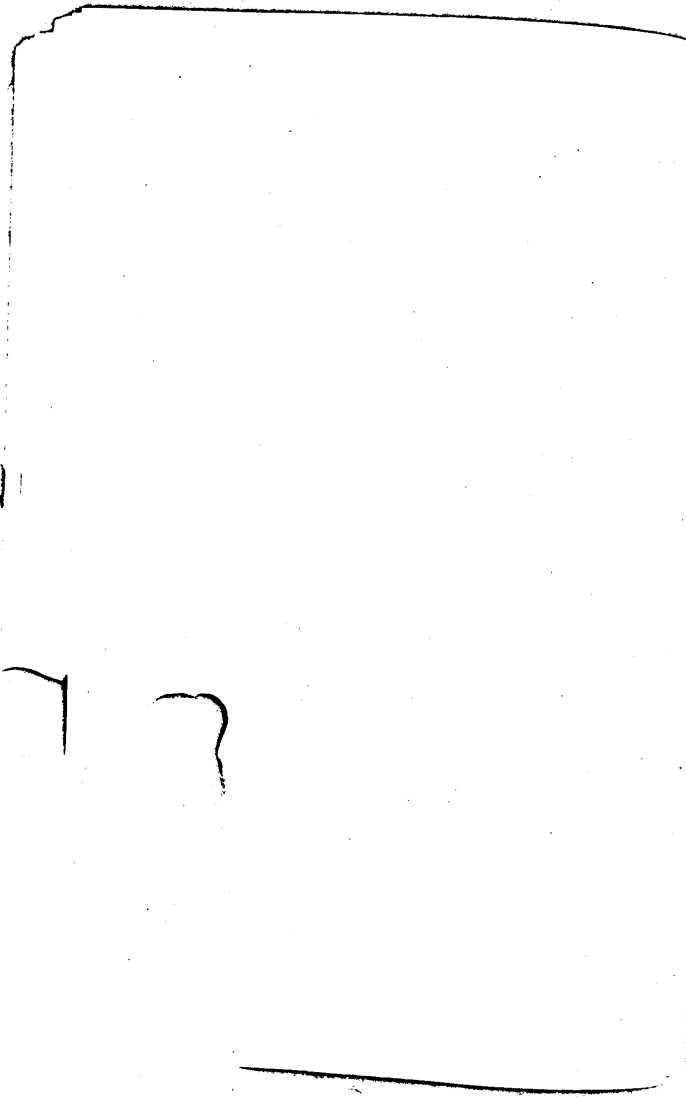


Fig. 41. Diagram of second stage Nozzle Assembly  
1 - nozzle assembly shroud; 2 - bolt; 3 - locking washer; 4 - vase.

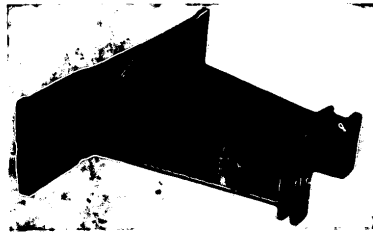


Fig. 42. Second Stage Nozzle Assembly Vane

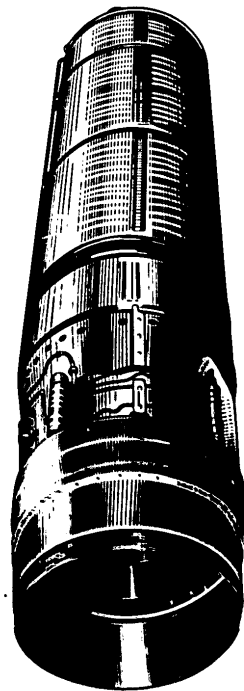


Fig. 43. Afterburner (without Diffuser). Rear View.

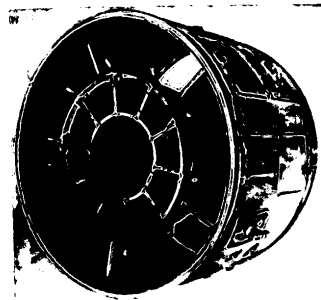


Fig. 44. Afterburner Diffuser. Front View



Fig. 45. Afterburner Diffuser. Rear View



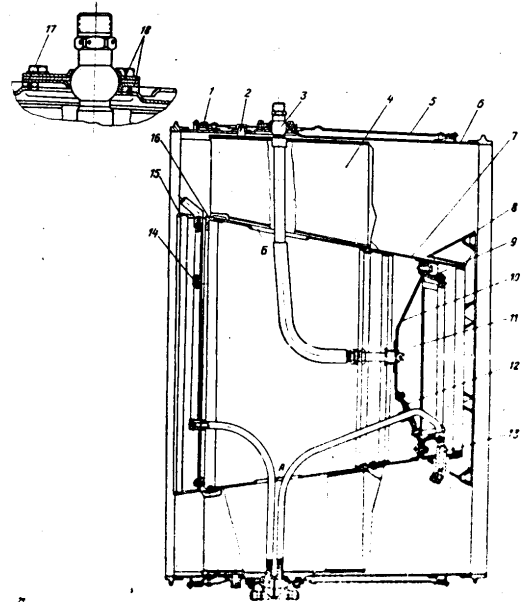
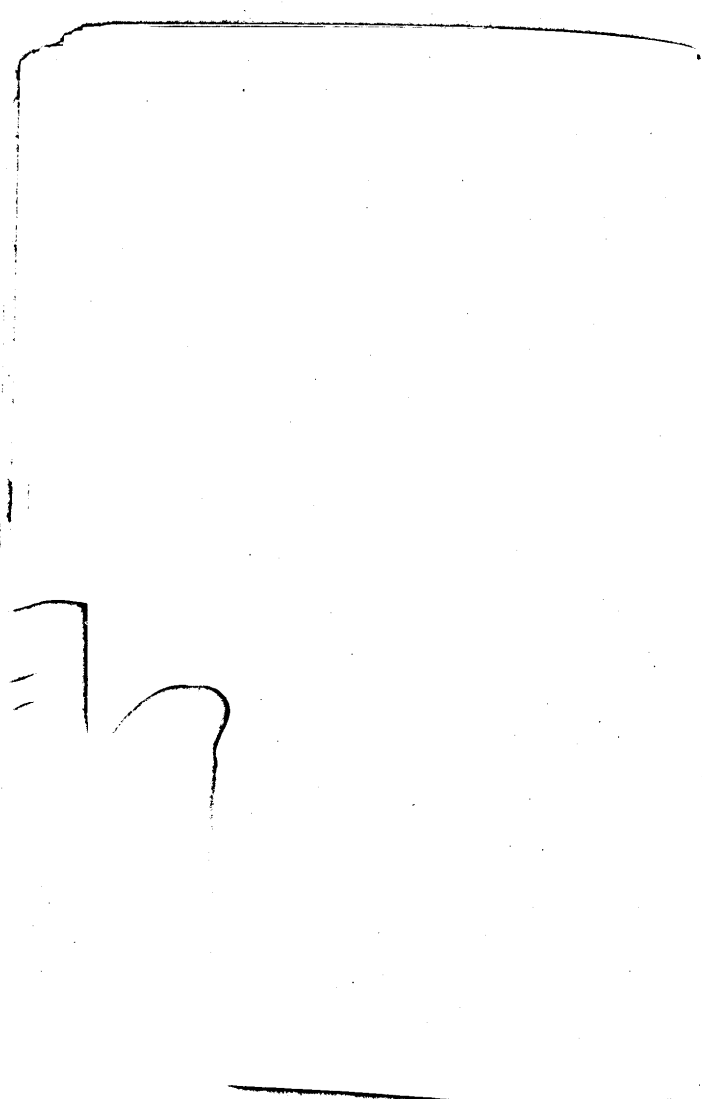
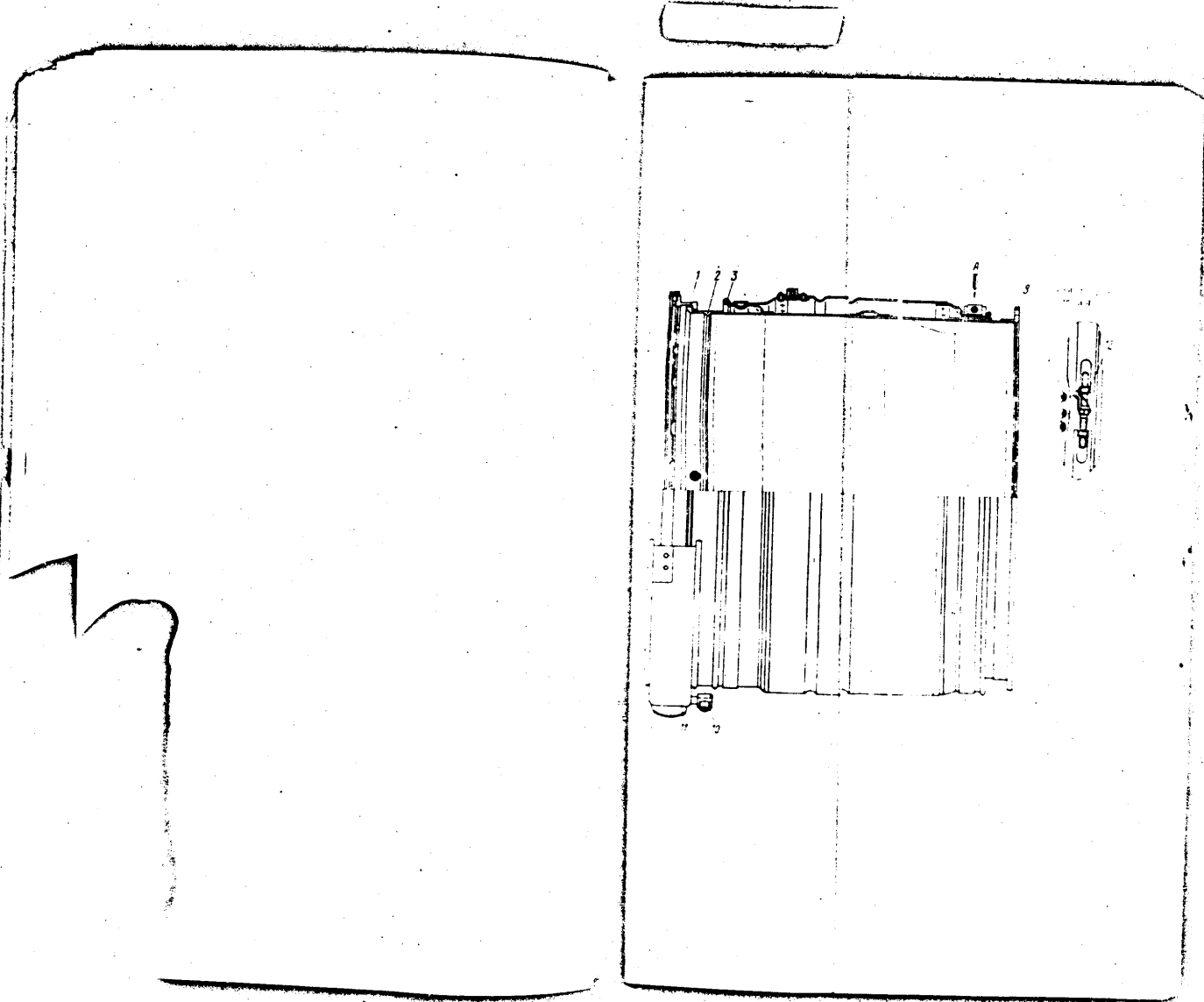


Fig. 46. Diagram of Afterburner Diffuser (Longitudinal section)  
1 - clamp; 2 - pin; 3 - afterburner work plug; 4 - manifold  
5 - clamp; 6 - outer wall; 7 - inner wall; 8 - flame arrester; 9 - clamp  
10 - plate; 11 - bush; 12 - flange; 13 - rear fuel manifold; 14 - front  
fuel manifold; 15 - diffuser flange; 16 - flange; 17 - electrical cable  
18 - hemispherical covers for attachment of plug; 19 - hemispherical covers  
for attachment of fuel manifold; 20 - hemispheres; 21 - strip.



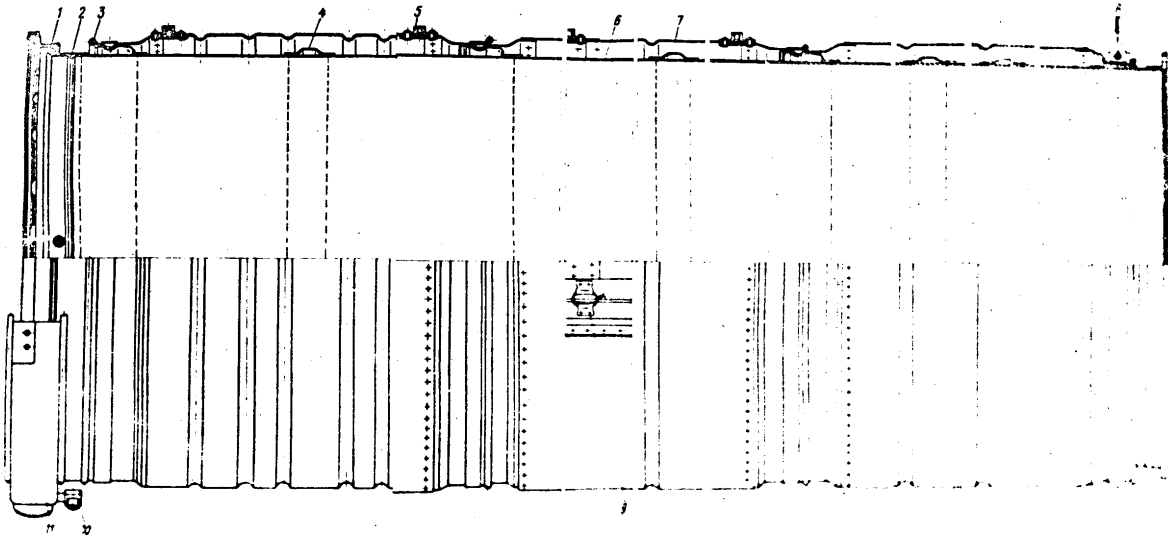


Fig. 47. Missile pipe  
1 - quick-change ring; 2 - front flange; 3 - wire; 4 - band; 5 - band; 6 - band; 7 - band; 8 - rear flange; 9 - lag; 10 - pipe entry; 11 - fuel trap.

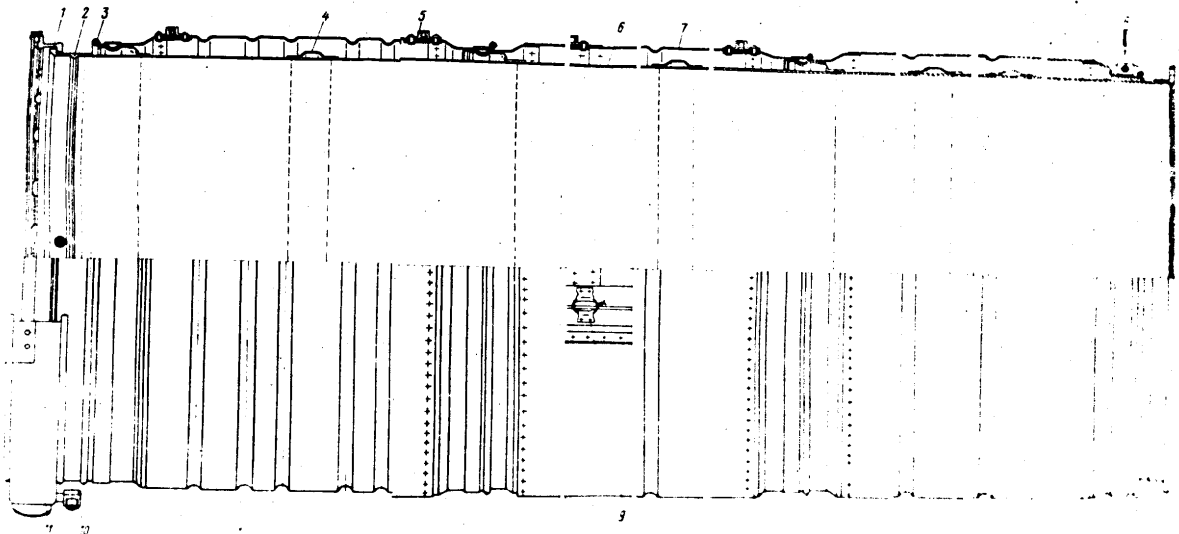


Fig. 47. Missile Pipe

- 1 - quick-change ring; 2 - front flange; 3 - wire; 4 - band; 5 - boss; 6 - seal; 7 - screw;  
8 - rear flange; 9 - lug; 10 - pipe union; 11 - fuel trap; 12 - stop.

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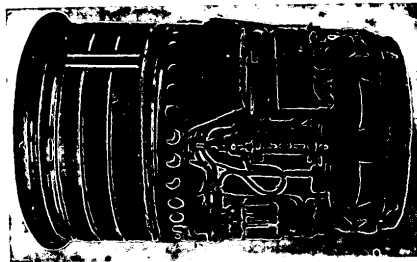


Fig. 48. Adjustable Jet Nozzle

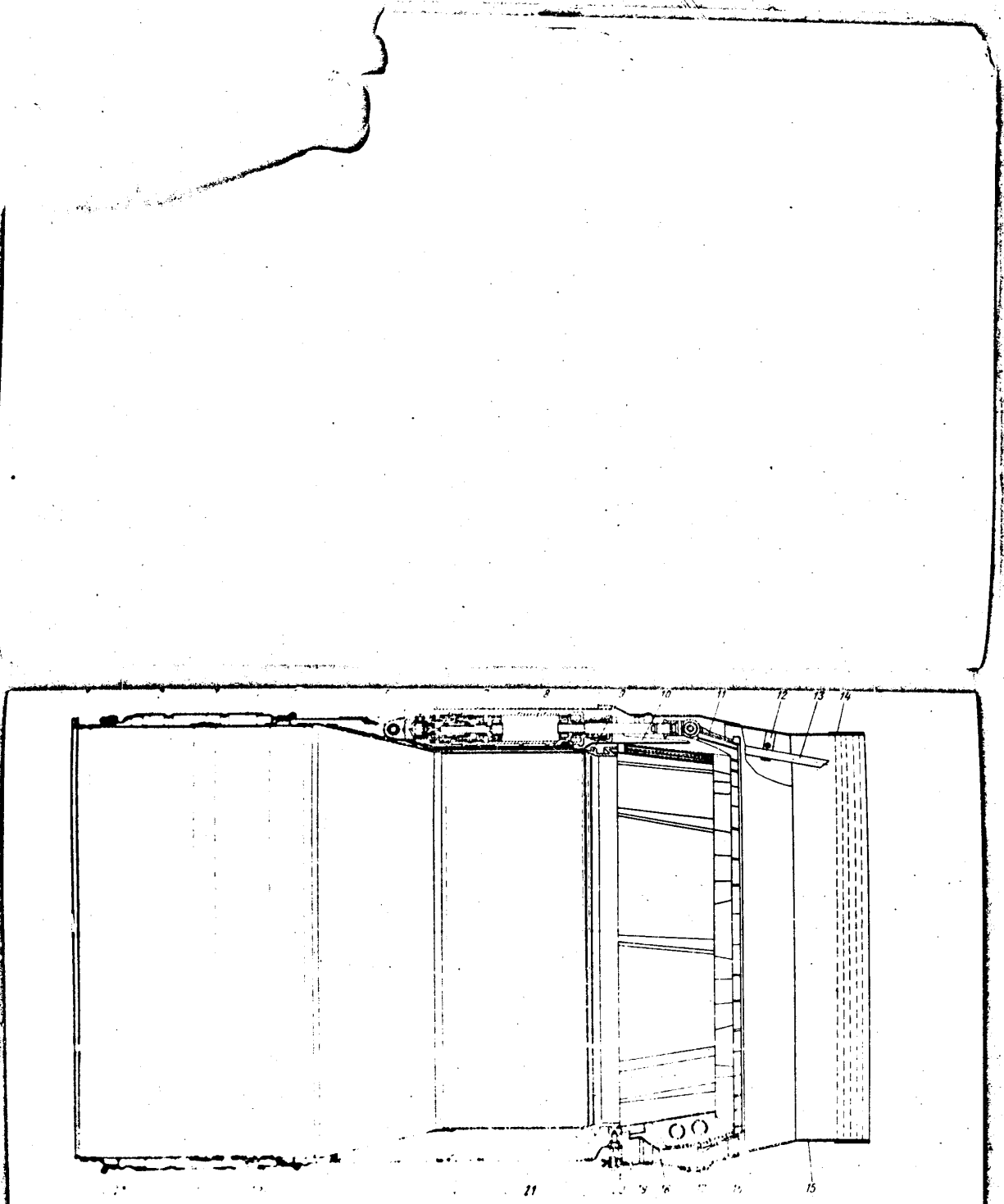


Fig. 49. Diagram of Adjustable Jet Nozzle (Longitudinal Section)

- 1 - front flange; 2 - rear pipe shell; 3 - band; 4 - shroud; 5 - band; 6 - bracket; 7 - actuating cylinder shield; 8 - actuating cylinder; 9 - rear flange; 10 - actuating cylinder rod shield; 11 - ring;
- 12 - clamp; 13 - vent pipe; 14 - ejector band; 15 - ejector; 16 - strip; 17 - pipe union; 18 - shutter;
- 19 - shroud centering bolt; 20 - lug; 21 - actuating cylinder casing; 22 - strap; 23 - clamp.

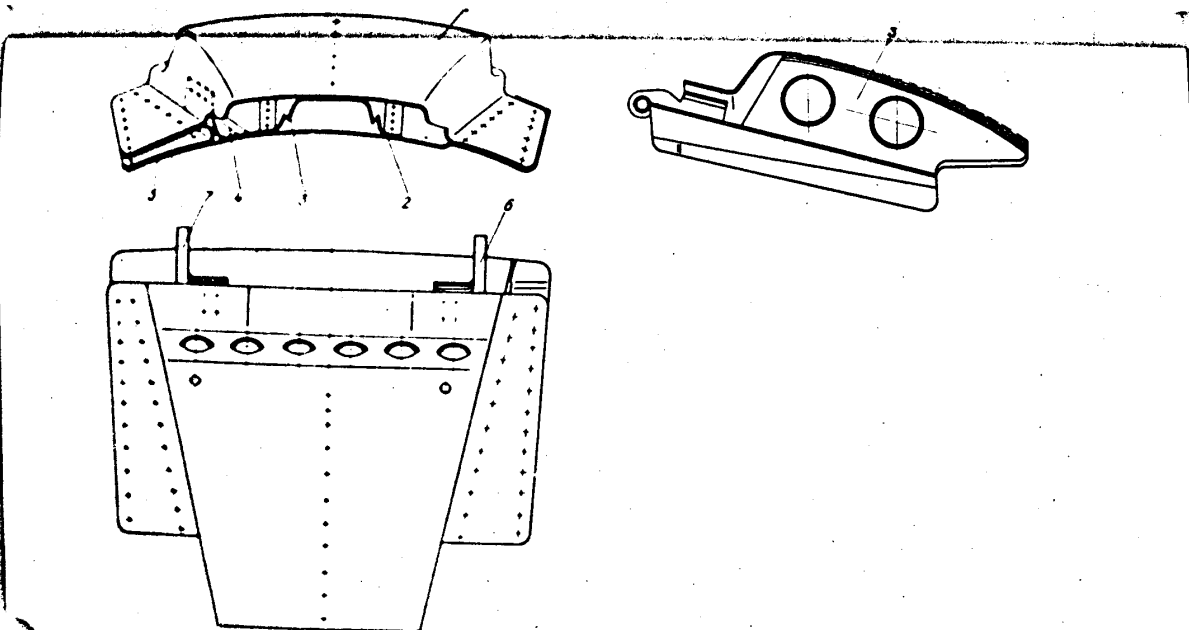


Fig. 90. Adjustable Jet Nozzle Shutter  
1 - outer wall; 2 - inner wall; 3 - rib; 4 - angle; 5 - se-  
cure wall; 6 - right-hand hinge; 7 - left-hand hinge.

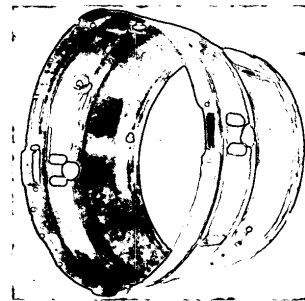


Fig. 51. Ejector



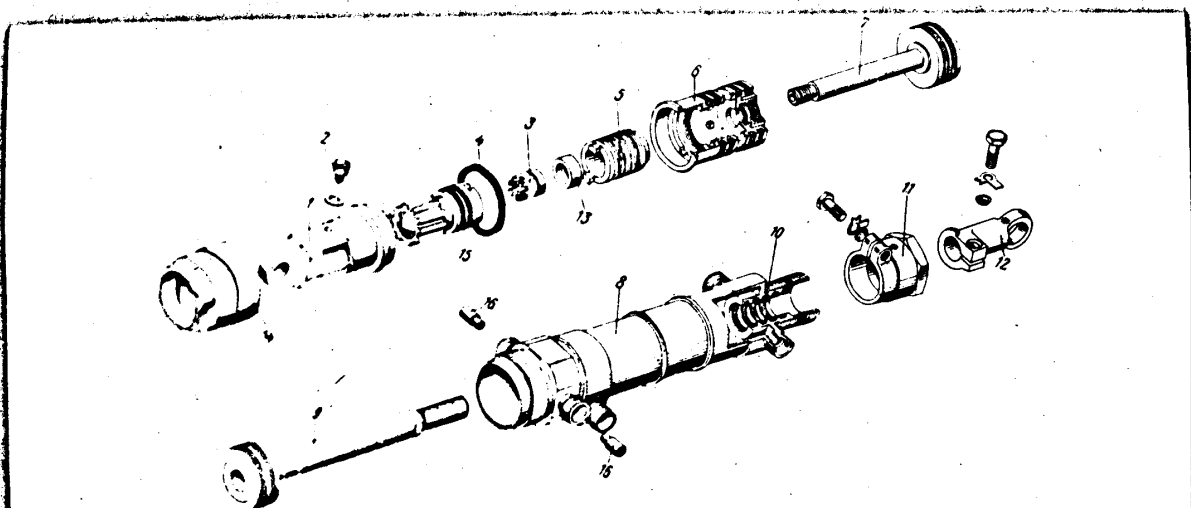
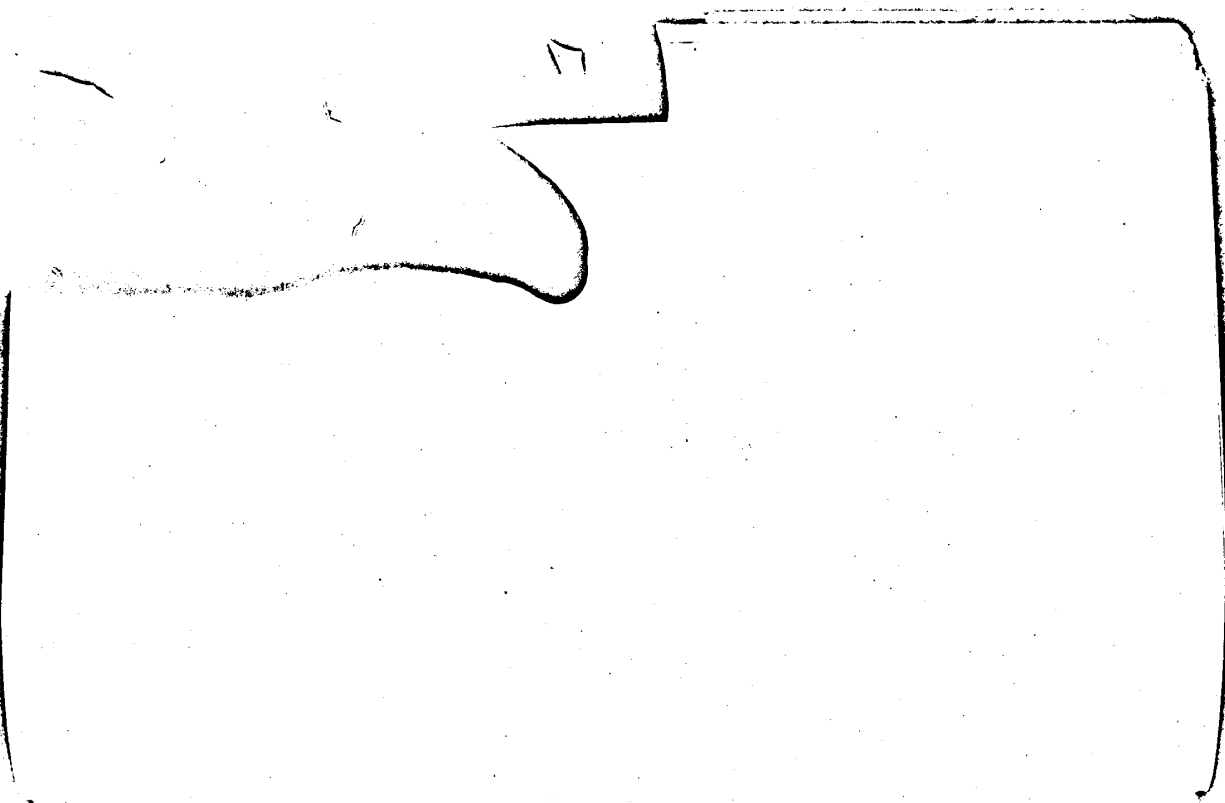


Fig. 92. Actuating Cylinder  
1 - sleeve; 2 - screw; 3 - nut; 4 - packing gasket; 5 - thrust nut; 6 - packing bush; 7 - front piston; 8 - cylinder; 9 - rear piston; 10 - rubber cups; 11 - adjusting nut; 12 - shank; 13 - bush; 14 - union nut; 15 - adjusting bush; 16 - retainer-jet.

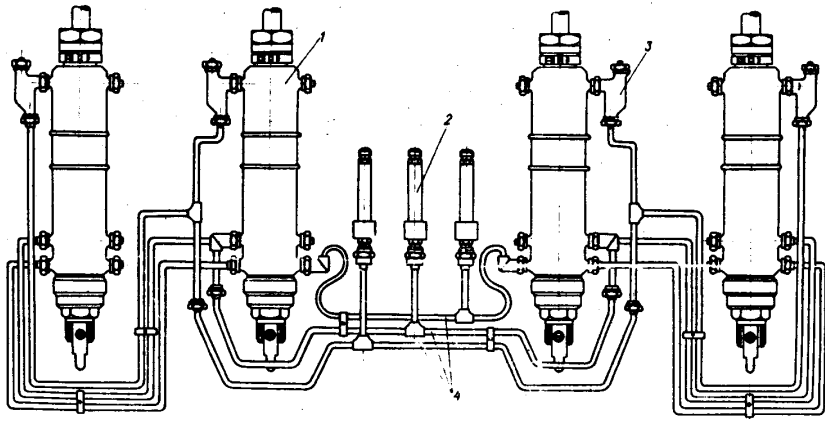
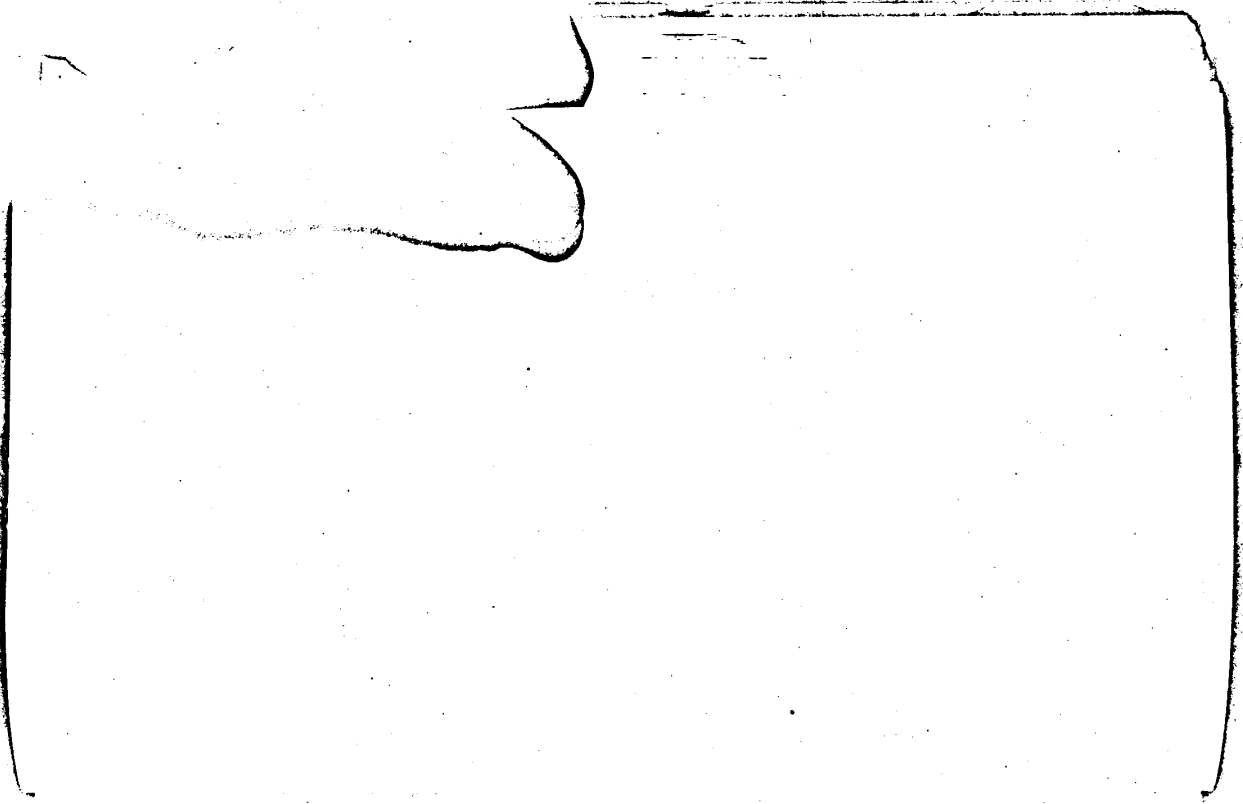


Fig. 53. Diagram Showing Connection of Actuating Cylinders by Hydraulic System Pipes  
1 - actuating cylinder; 2 - adapter; 3 - return valve; 4 - pipes.

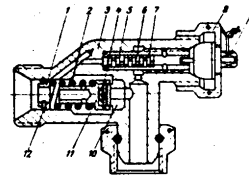


Fig. 54. Actuating Cylinder Return Valve

- 1 - thrust ring; 2 - spring; 3 - body;
- 4 - valve; 5 - throttling unit case;
- 6 - eccentric washer; 7 - distance washer;
- 8 - union nut; 9 - plug; 10 - seat;
- 11 - socket; 12 - locking ring.

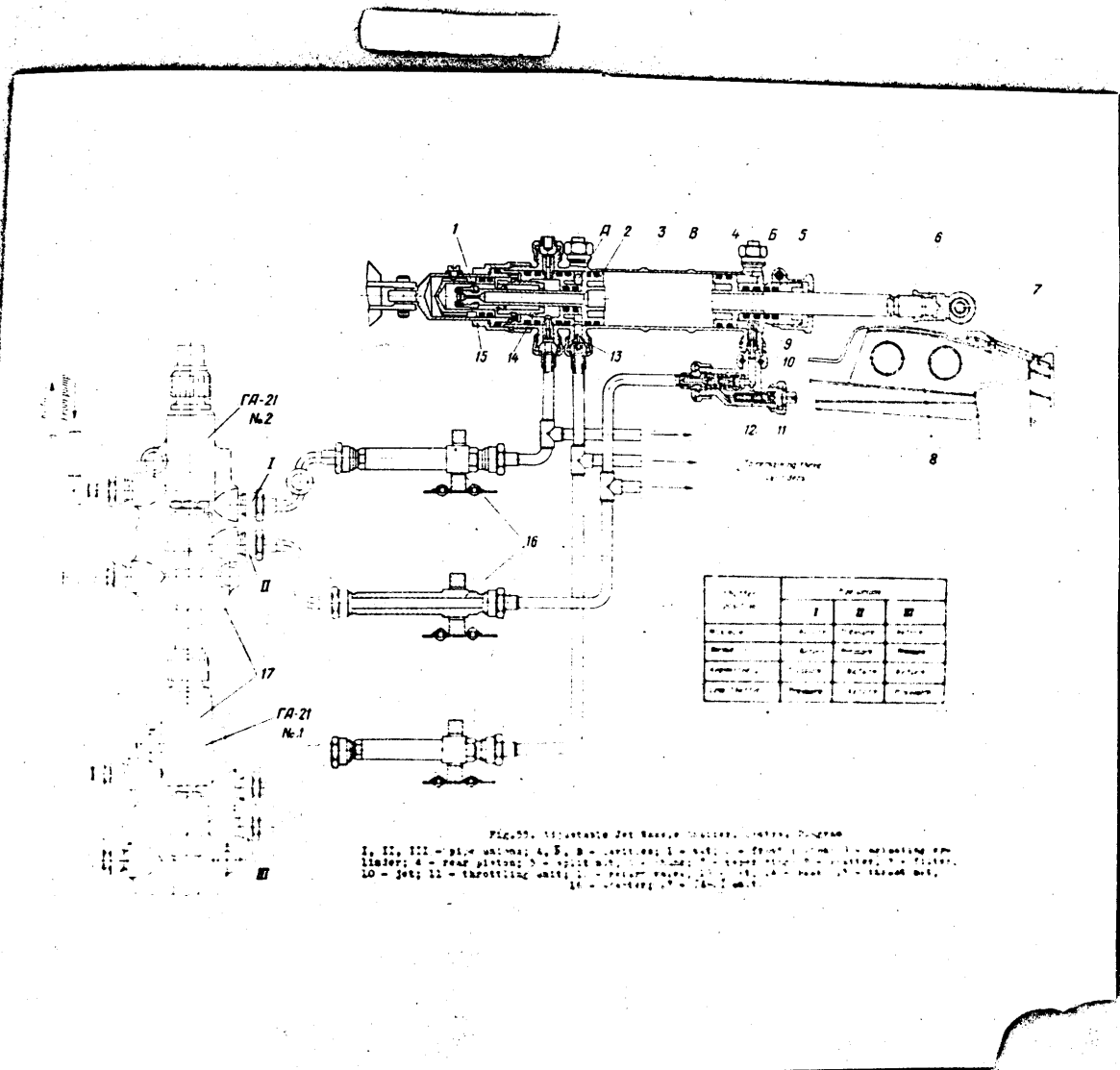
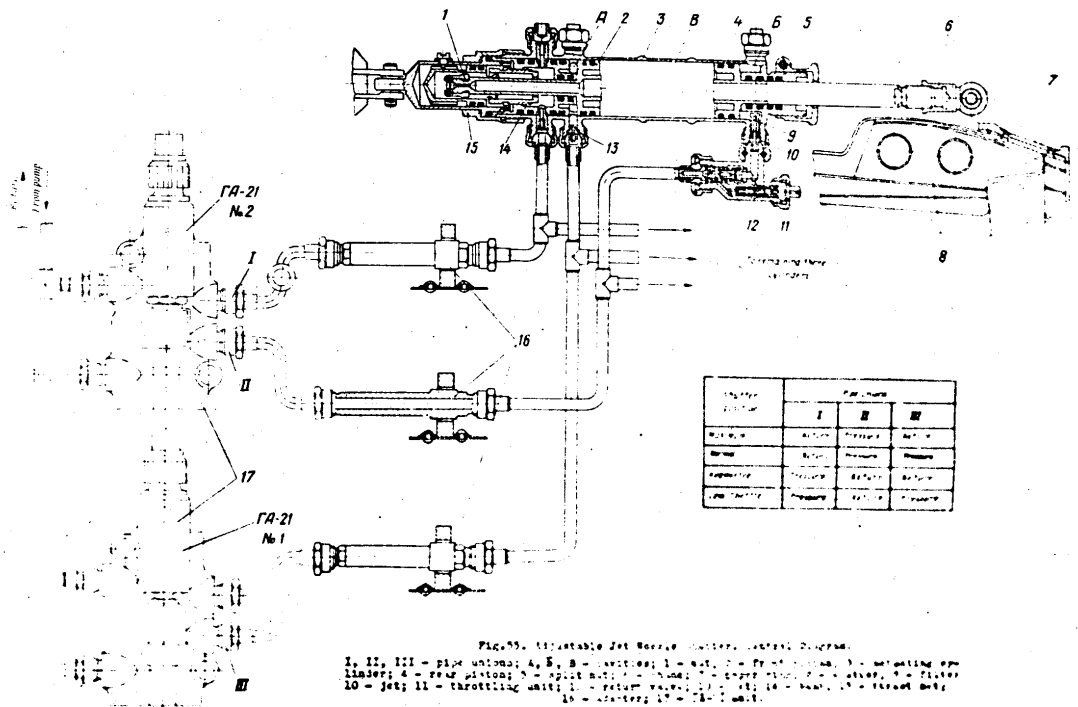


Fig. 59. Adjustable Jet Nozzle Thruster Control Diagram  
 1, 12, 122 - pipe units; 4, 5, 8 - pistons; 1 - split; 2 - front; 3 - rear; 4 - rear piston; 5 - split; 6 - rear; 7 - front; 8 - rear; 9 - rear; 10 - jet; 11 - throttling unit; 12 - throttle valve; 13 - rear; 14 - rear; 15 - rear; 16 - rear; 17 - rear.



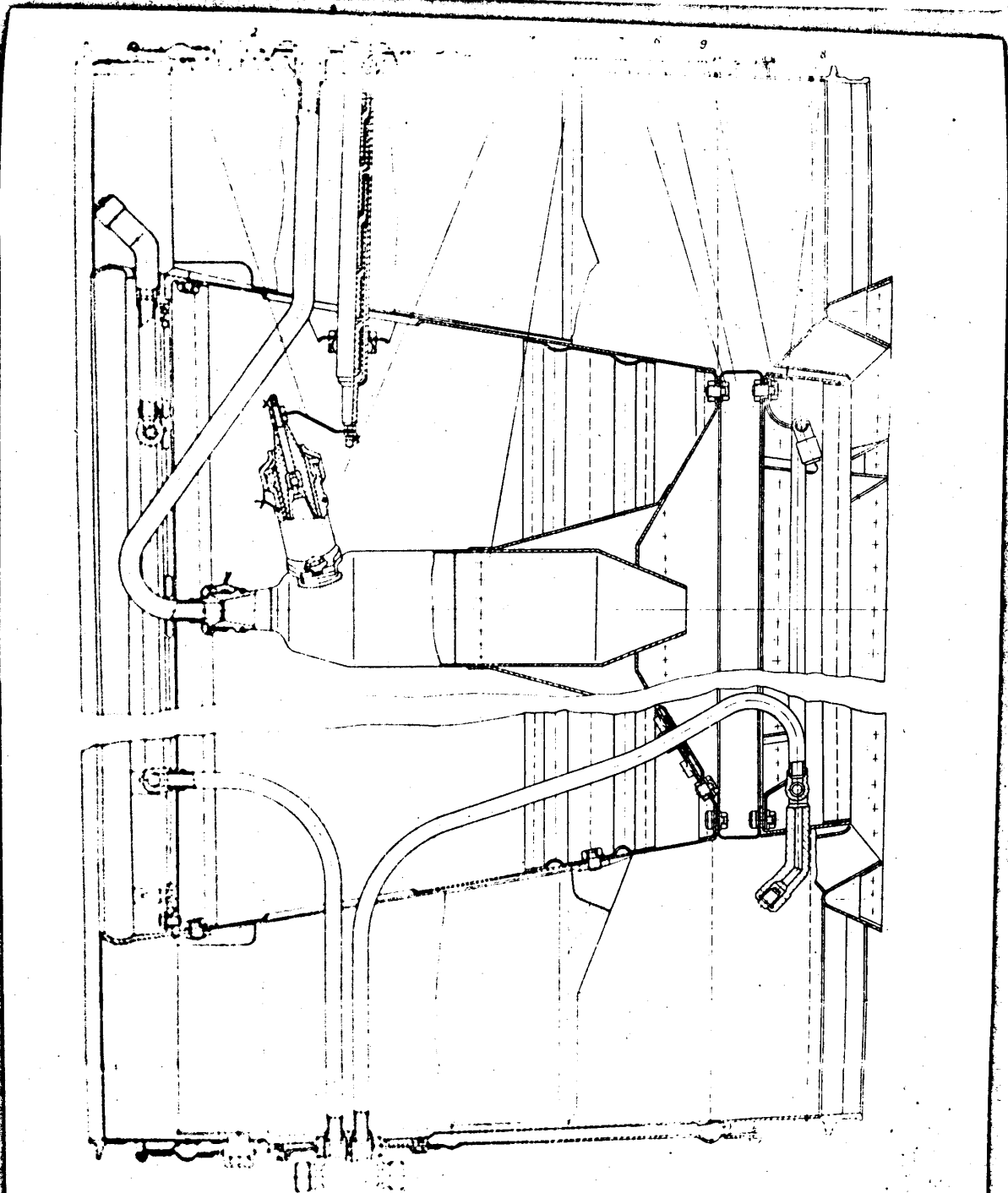


Fig. 36. Combustor with Precombustion Chamber  
1 - nozzle; 2 - fuel-air mixture delivery pipe; 3 - adapter T-11; 4 - spark plug CR-10RA; 5 - flame igniter;  
6 - static plate; 7, 8 - blower; 9 - flame arrester.

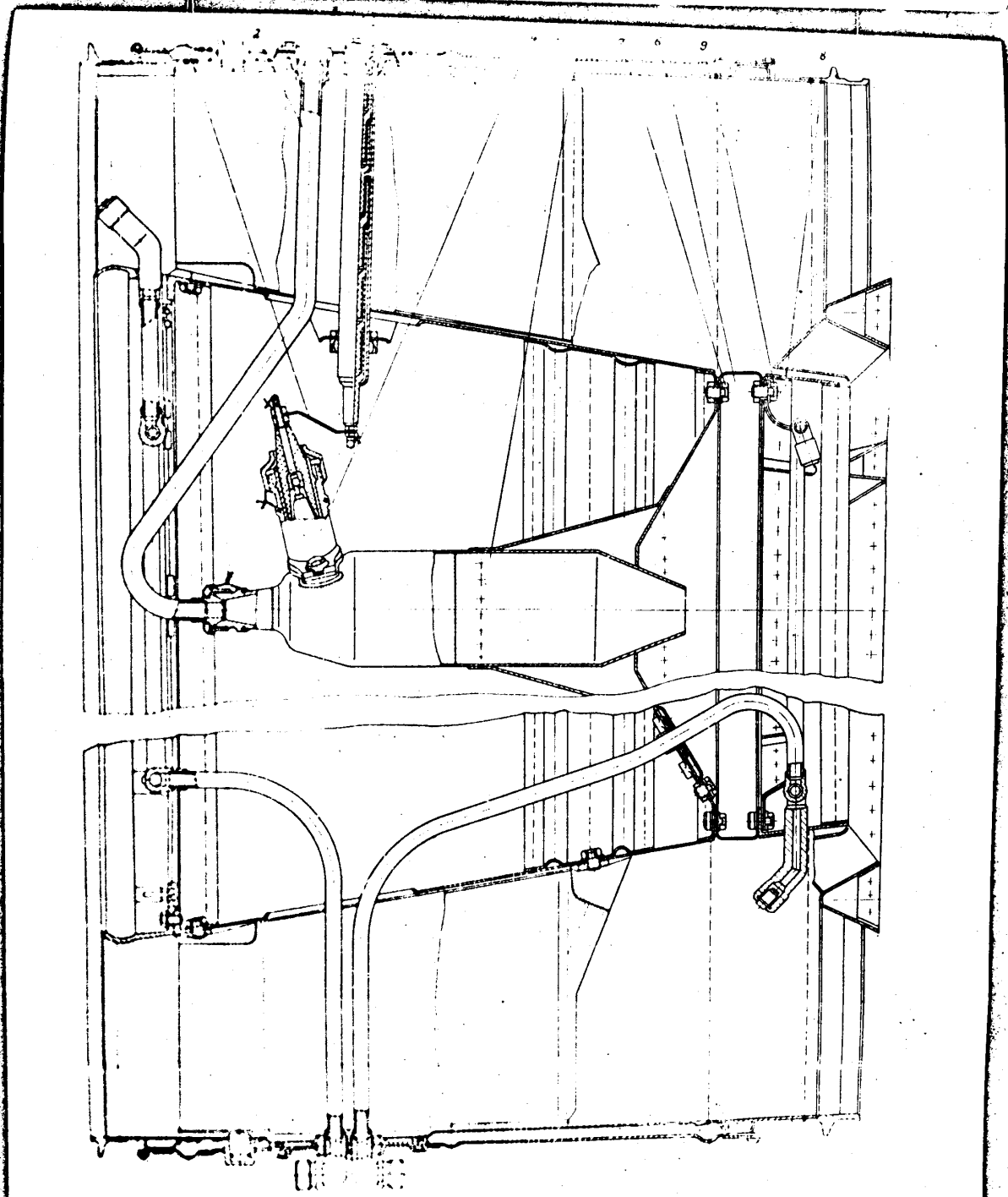
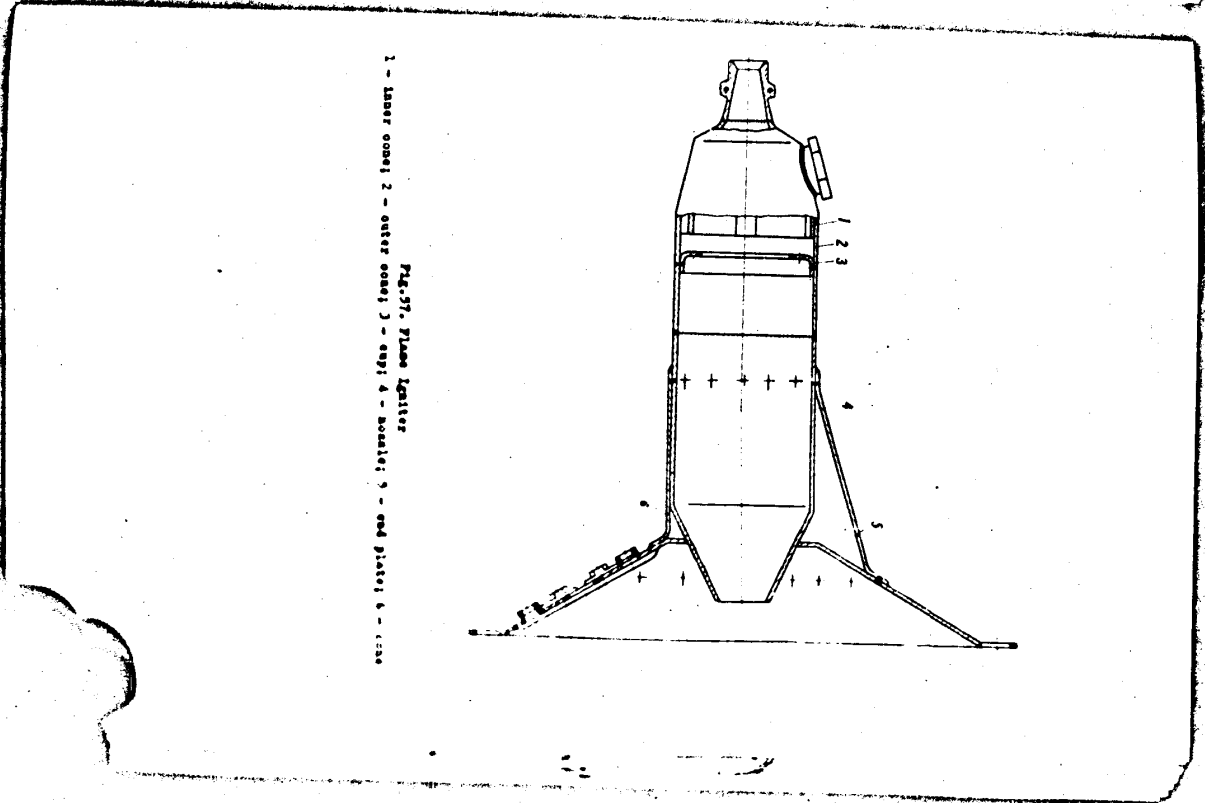
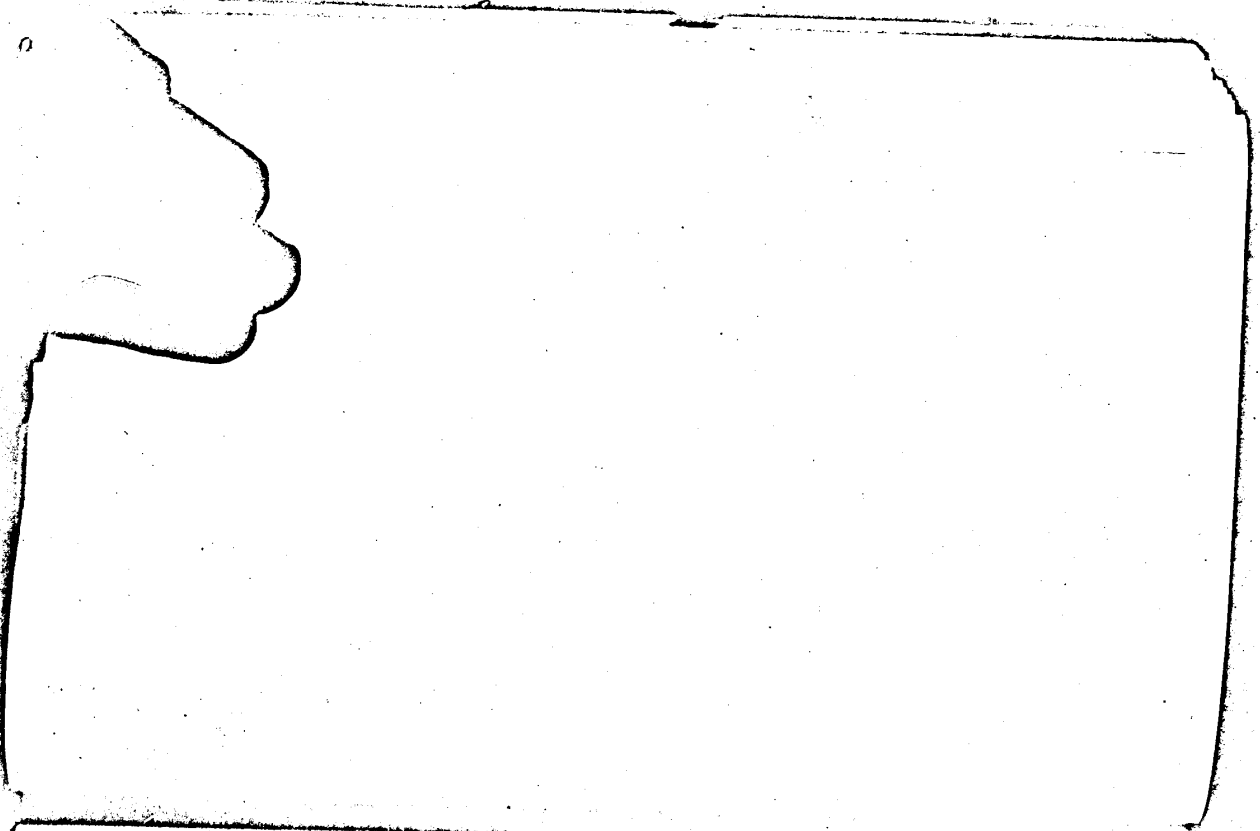


Fig. No. Diffuser with Precombustion Chamber

- 1 - nozzle; 2 - fuel-air mixture delivery pipe; 3 - adapter 3-II; 4 - spark plug CH-IORA; 5 - flame igniter;
- 6 - static sleeve; 7, 8 - bolts; 9 - flame arrester.





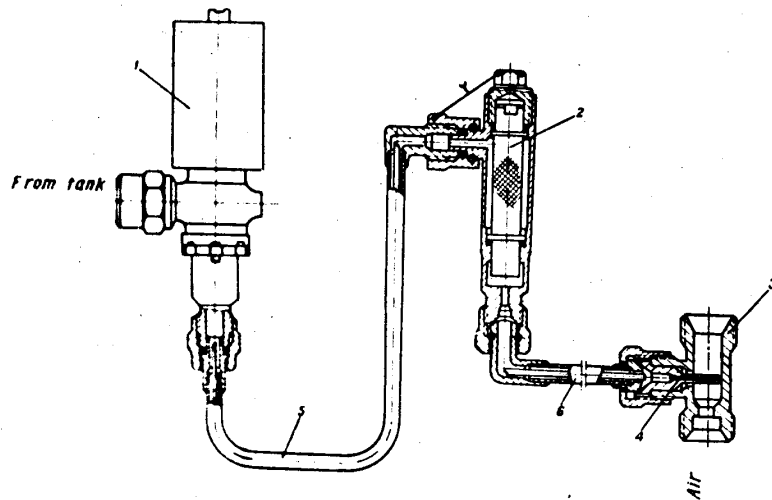


Fig. 50. Magnetic Valve with Carburettor  
1 - magnetic valve; 2 - throttling unit; 3 - carburettor; 4 - nozzle; 5 - pipe for fuel delivery from magnetic valve to throttling unit; 6 - pipe for fuel delivery from throttling unit to carburettor.

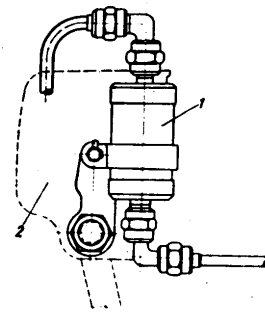


Fig. 59. Diagram Showing Connection  
of Reservoir to Air Blow-off Hand Control  
Mechanism  
1 - reservoir; 2 - blow-off mechanism.

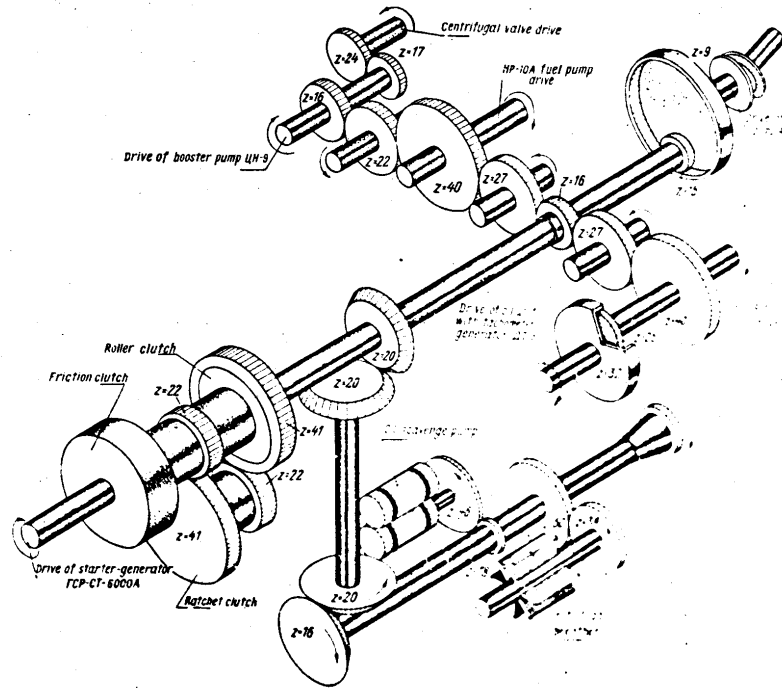


Fig.60. Accessory Gear Box, Two-Speed Drive and Base Portion of Dist Housing. Exploded View.

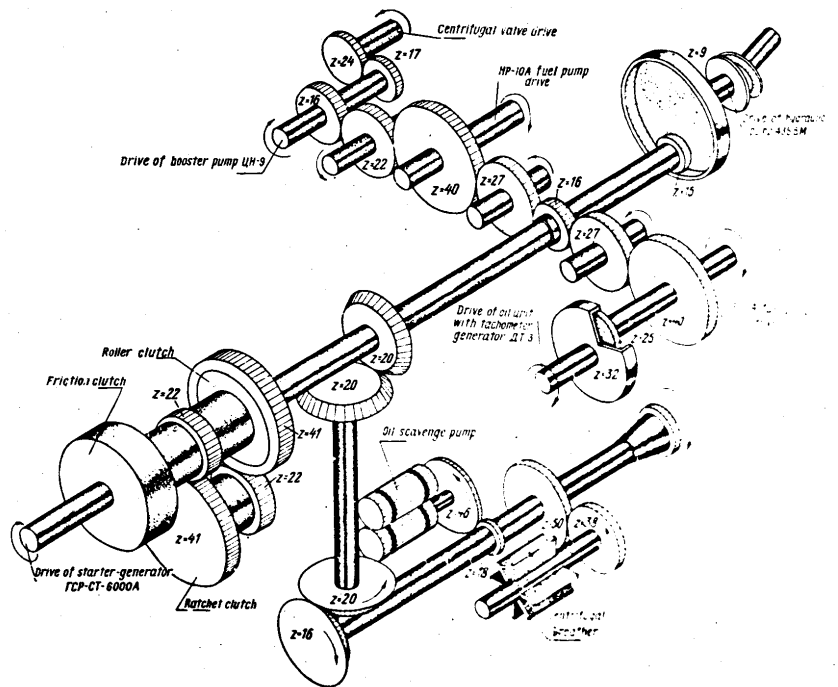


Fig. 60. Accessory Gear Box, Two-Speed Drive and Nose Portion of Inlet Housing. Mechanical Diagram.

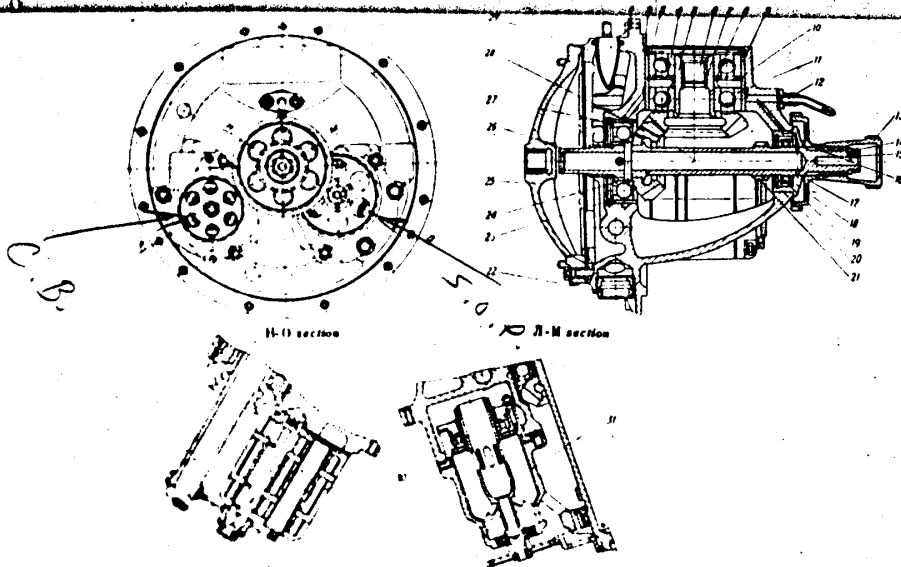
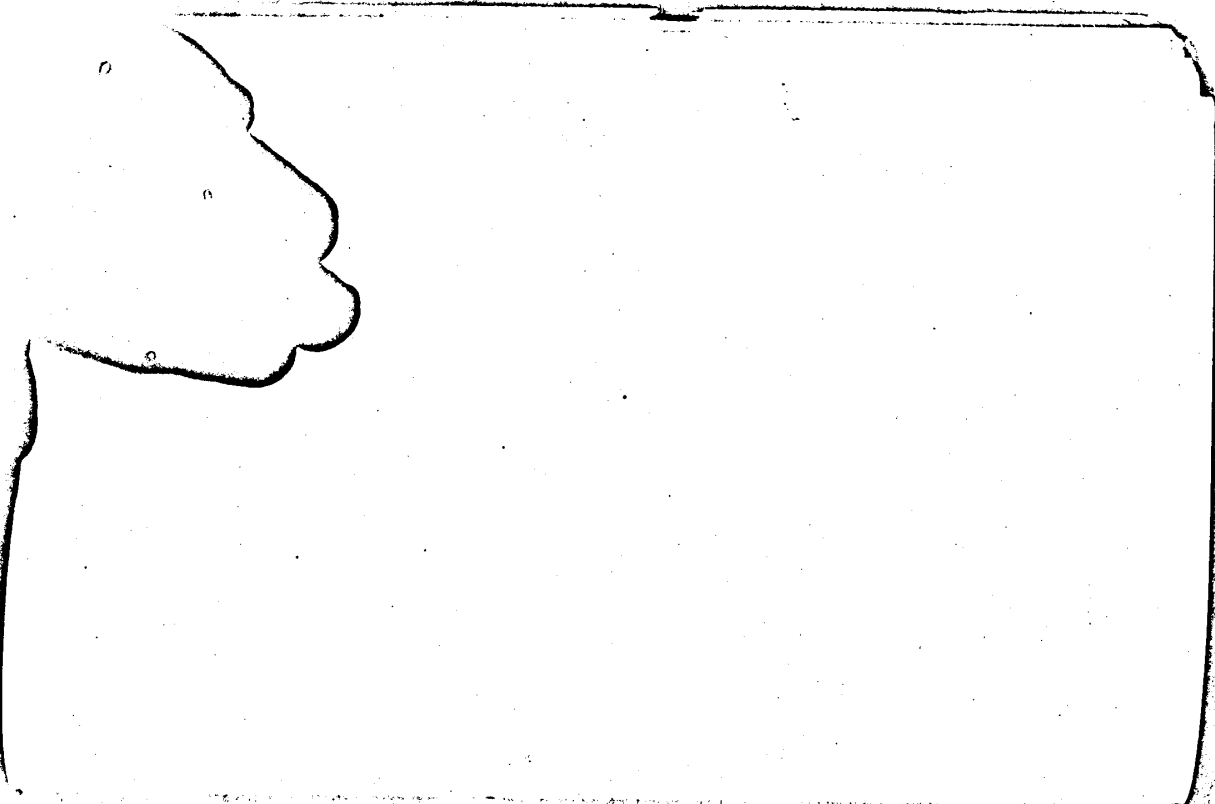


Fig. 61. Nose Portion of Compressor Inlet Housing  
1 - nose portion housing; 2, 7, 10, 20 - locking rings; 3 - adjusting ring; 4, 11, 24 - ball bearings; 5 - drive gear; 6 - accessory gear box drive; 8 - distance sleeve; 9 - bearing bush; 12 - oil nozzle of compressor rotor front bearing; 13 - coupling; 14 - nut; 15 - lock; 16 - spring ring; 17 - centrifugal breather drive gear; 18 - roller bearing bush; 19 - roller bearing; 21 - scavenge oil pump drive gear; 22 - adapter sleeve; 23 - locking ring; 25 - cover; 26 - driving shaft; 27 - adjusting ring; 28 - gear; 29 - breather pipe; 30 - scavenge oil pump; 31 - centrifugal breather.

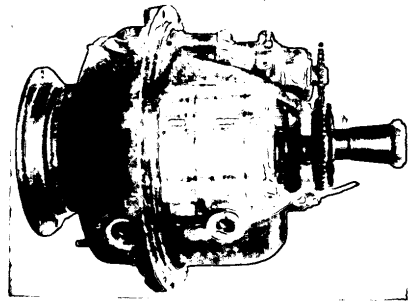
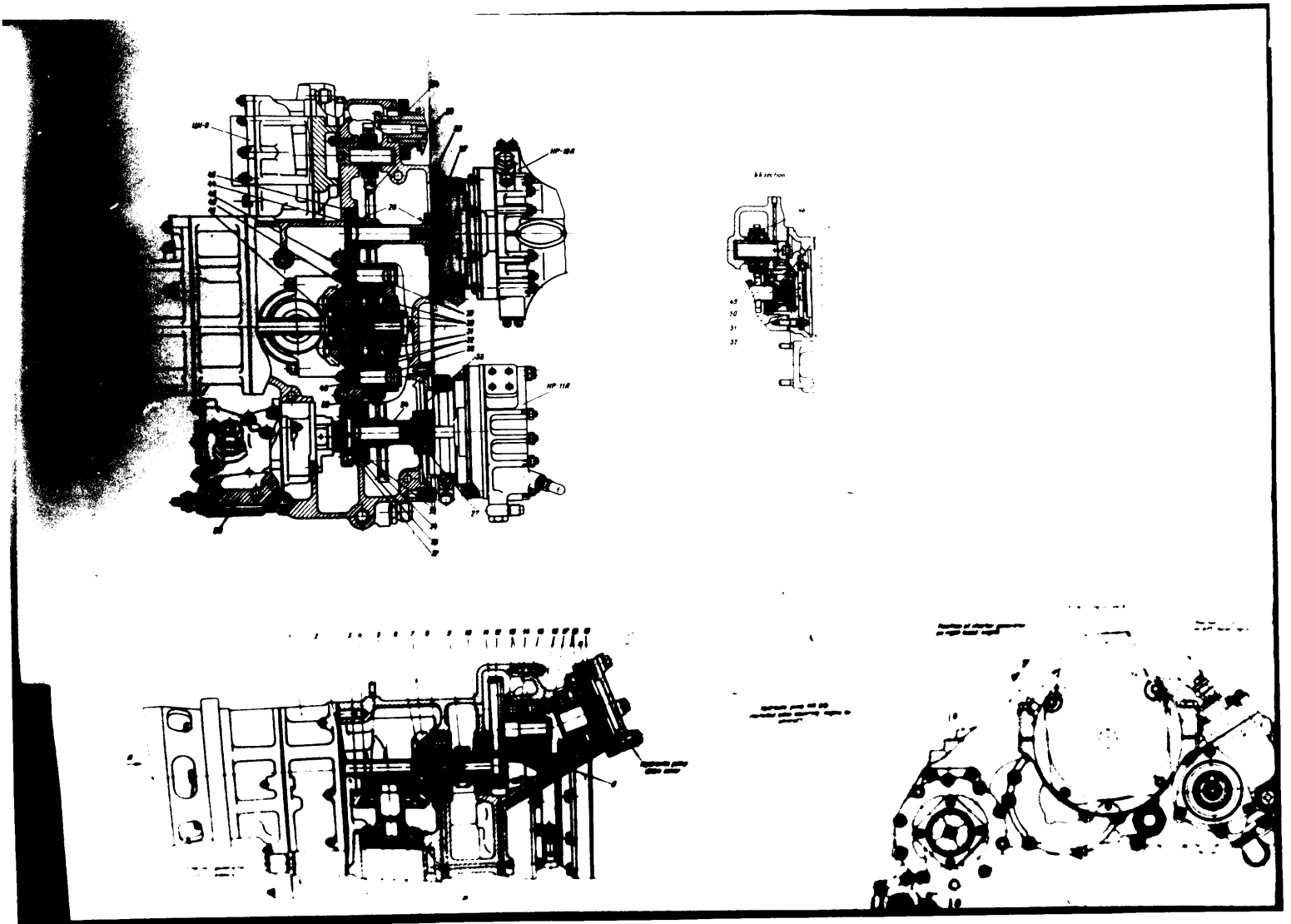
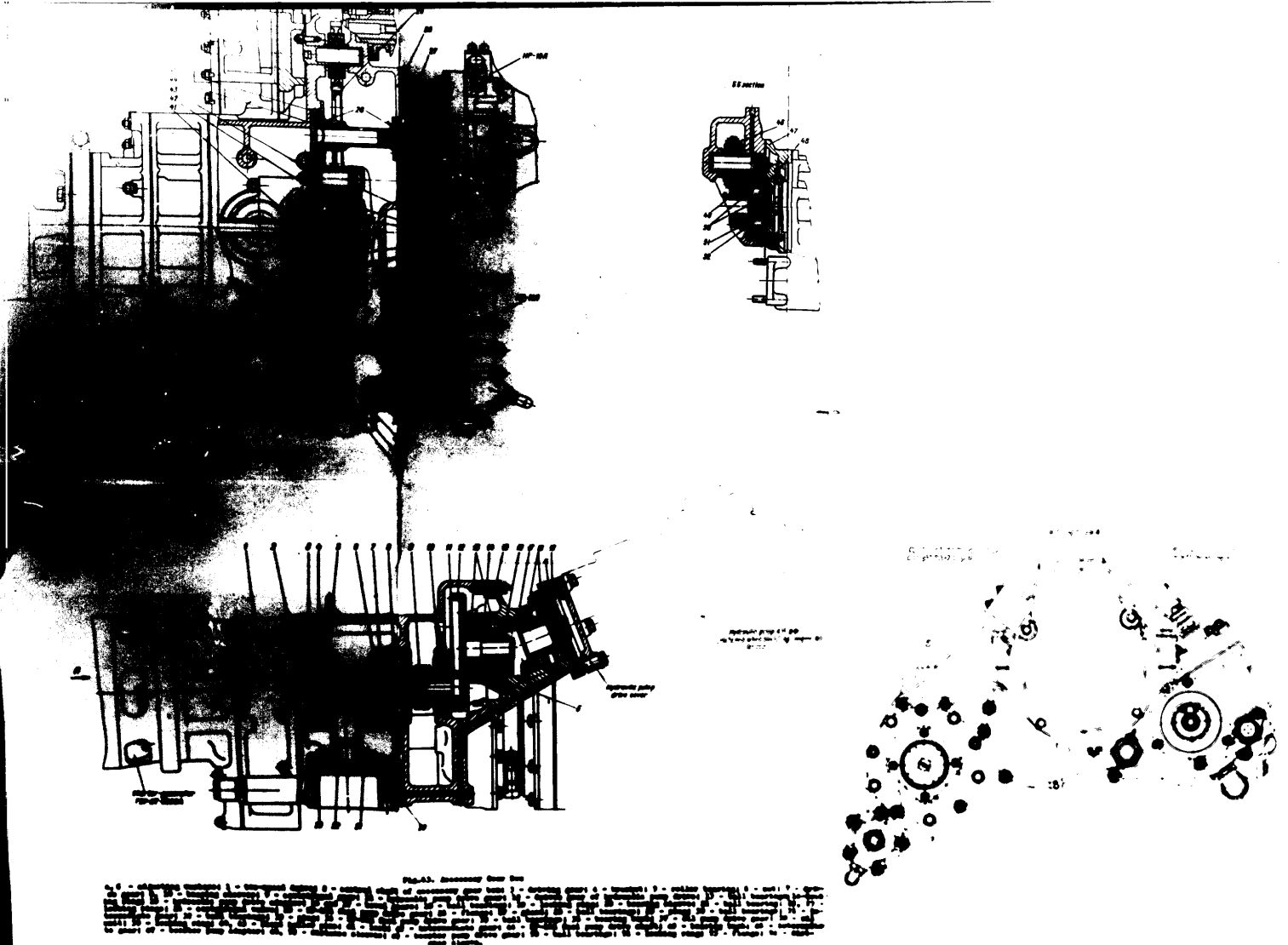


Fig. 62. Nose Portion of Compressor Inlet Housing

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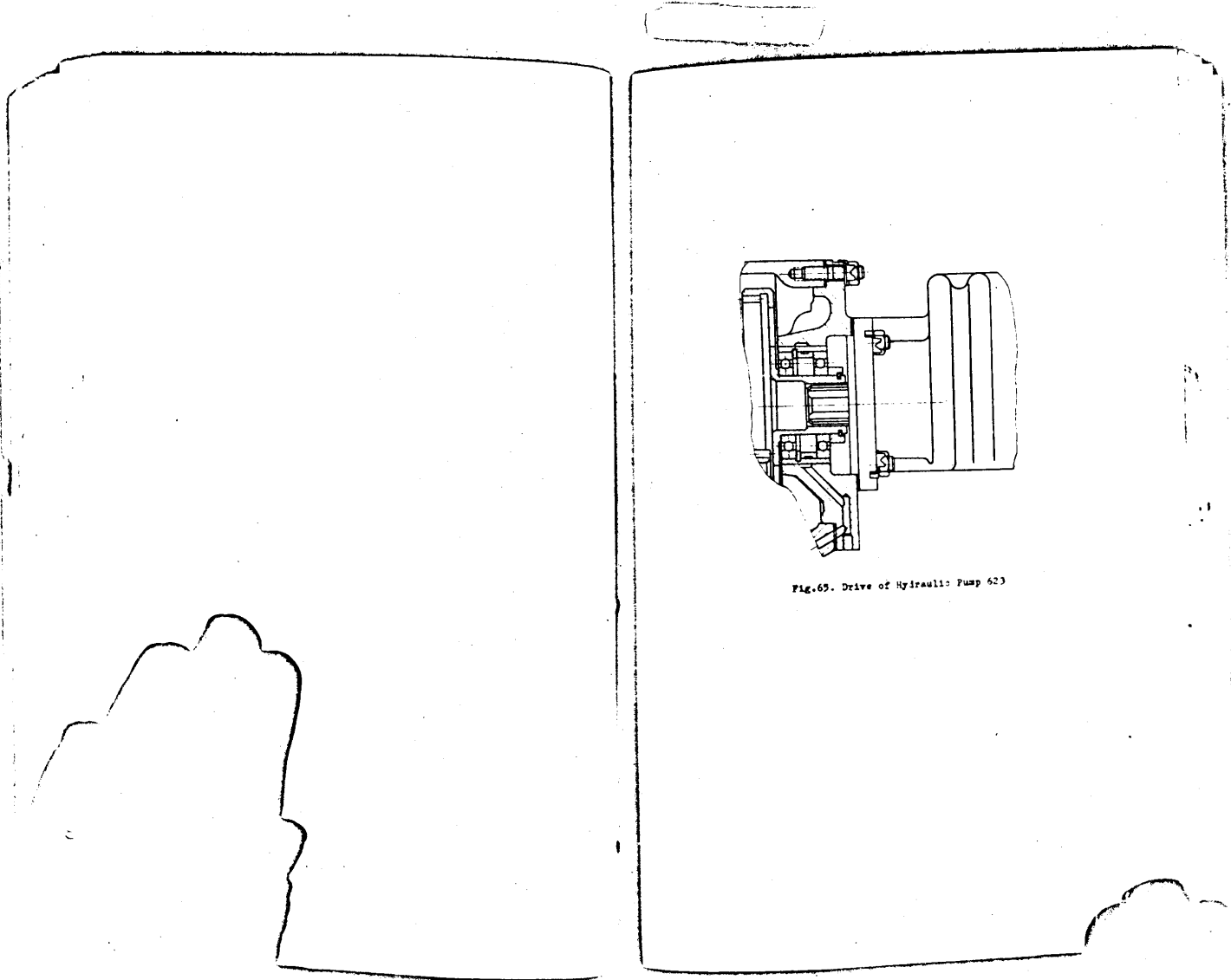


Fig. 65. Drive of Hydraulic Pump 623

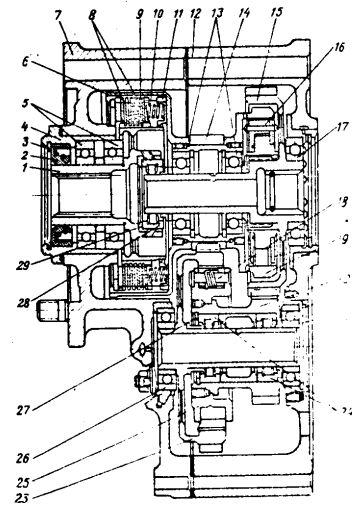


Fig. 66. Two-Speed Drive  
1 - clutch guide; 2 - rubber gland; 3 - locking ring; 4 - bush; 5, 13, 17, 20, 26 - ball bearings; 6 - friction clutch housing; 7 - two-speed drive cover; 8 - steel discs; 9 - bronze discs; 10 - spring; 11 - spring case; 12 - two-speed drive housing; 14 - driving gear; 15 - driven gear; 16 - roller friction clutch; 18 - ratchet tooth clutch pin; 19 - roller friction clutch holder; 20 - guide gear; 21, 27 - locking rings; 23 - ratchet; 24 - roller bearings; 25 - ratchet tooth clutch housing; 28 - roller bearing; 29 - blind bush.

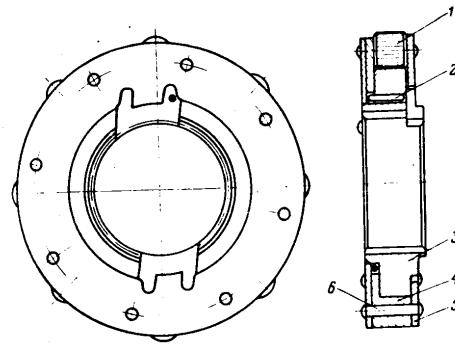


Fig. 67. Roller Clutch  
1 - roller; 2 - spring; 3 - cam; 4 - clutch separator; 5 - washer;  
6 - rivet.

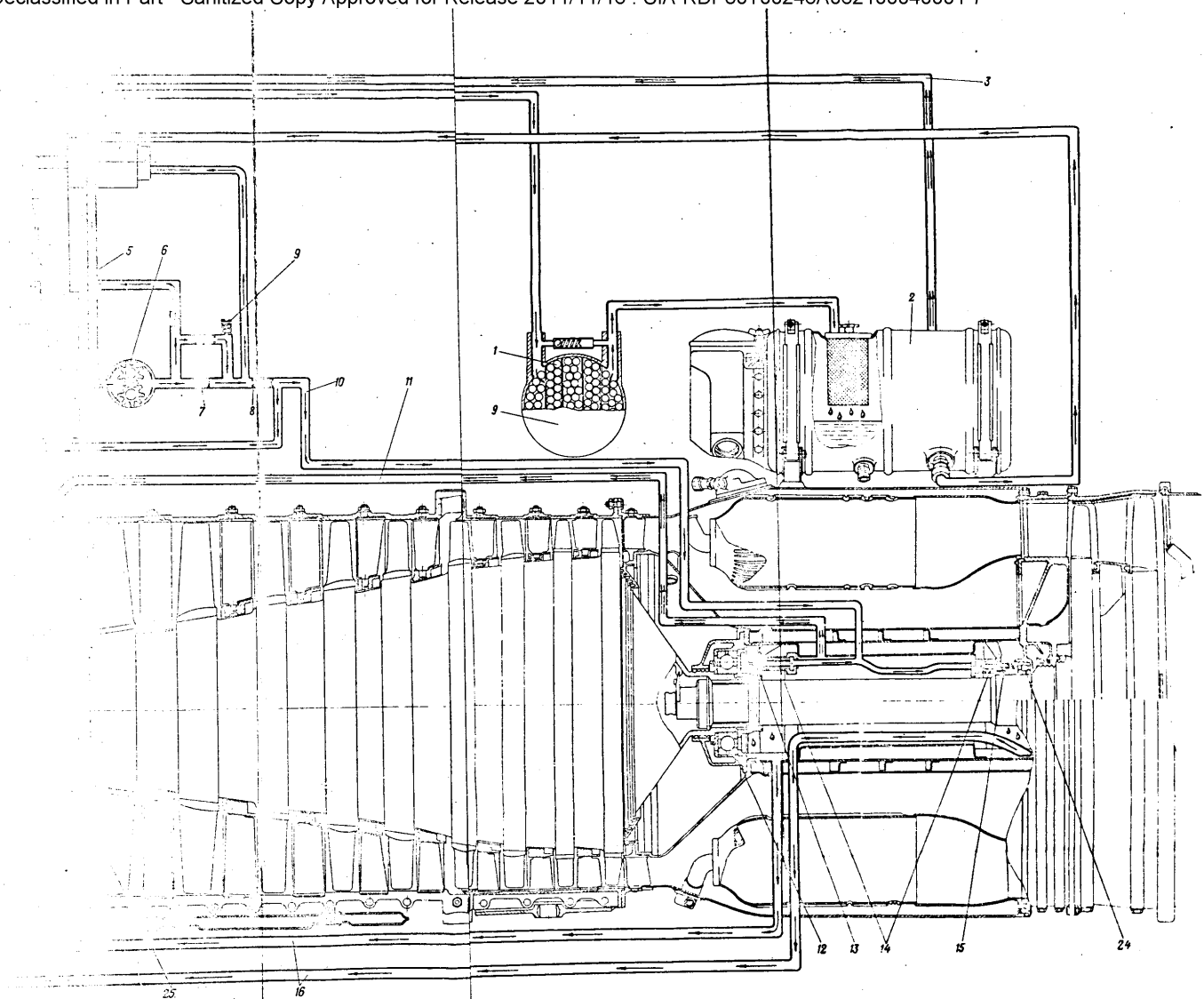


Fig. 66. Engine Lubrication Diagram

1 - oil tank; 2 - accessory drive gear box breather; 3 - oil filter; 4 - pipe for oil delivery to oil filter; 5 - oil filter; 6 - return valve; 7 - pipe for oil delivery to center and rear bearing; 8 - return valve; 9 - pipe for oil delivery to center bearing of rotor; 10 - pipe for oil delivery to center bearing of rotor; 11 - pipe for oil delivery to center bearing of rotor; 12 - oil nozzle filter; 13 - oil nozzle filter; 14 - oil nozzle filter; 15 - front bearing oil nozzle; 16 - pipes for converging oil; 17 - front bearing oil nozzle; 18 - front bearing oil nozzle; 19 - accessory oil nozzle; 20 - oil nozzle filter; 21 - pipe line supplying oil to oil nozzle; 22 - oil nozzle filter; 23 - pipe line supplying oil to oil nozzle; 24 - compressor rotor front bearing; 25 - compressor rotor front bearing.

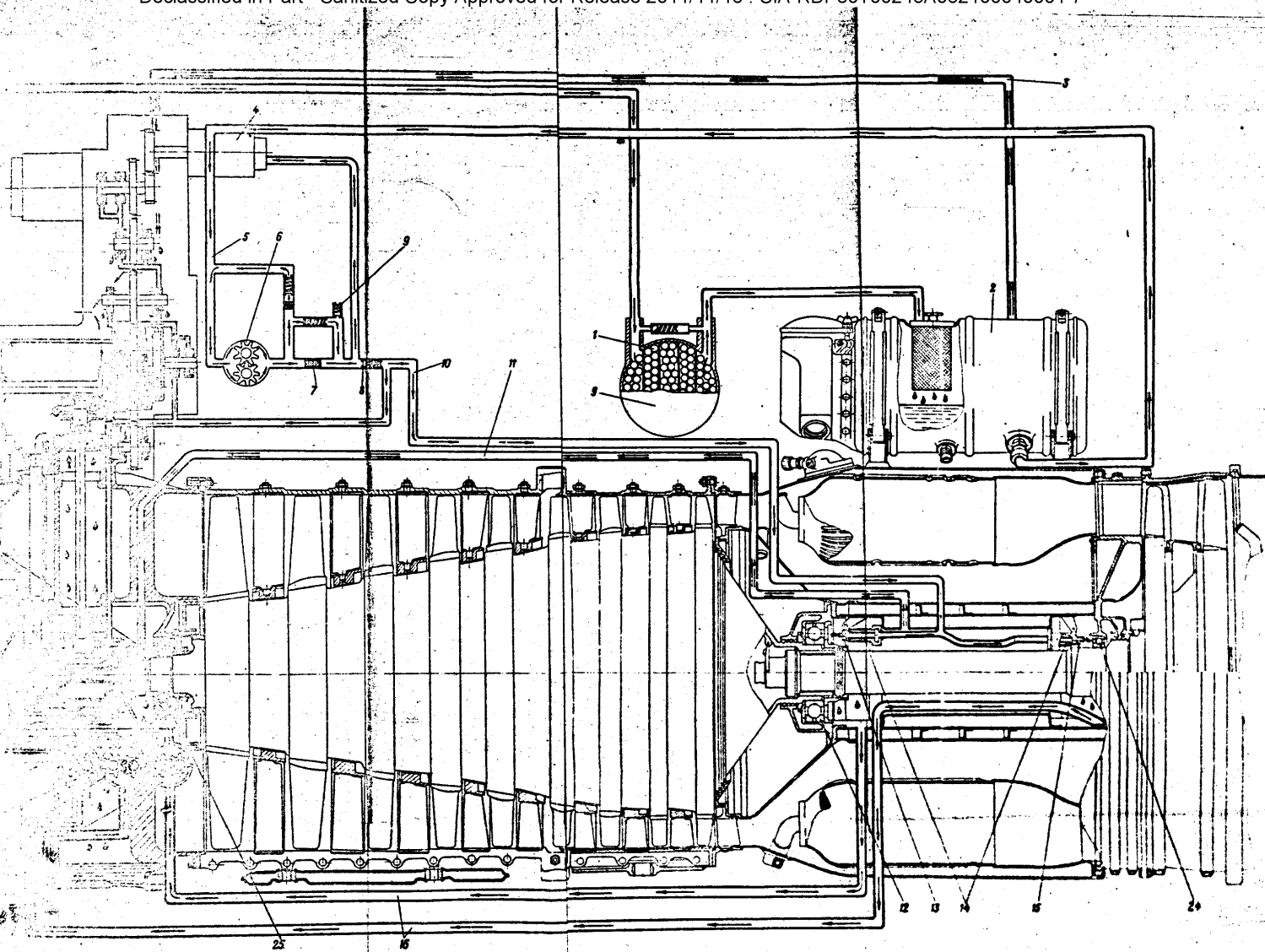


Fig. 66. Engine Lubrication Diagram

1 - fuel-oil cooler; 2 - oil tank; 3 - accessory drive gear box breather pipe; 4 - centrifugal valve; 5 - pipe for oil delivery to oil tank; 6 - oil unit pressure pump; 7 - oil filter; 8 - return valve; 9 - pipe under valve; 10 - pipe for oil delivery to centre and rear bearings; 11 - bearing housing breather pipe; 12 - centre bearing of compressor rotor; 13 - centre bearing oil nozzle; 14 - oil nozzle filter; 15 - turbine rear bearing oil nozzle; 16 - pipes for scavenging oil from centre and rear bearings; 17 - front bearing oil nozzle; 18, 21, 22 - scavenge oil pumps; 19 - centrifugal breather; 20 - accessory drive gear box gas filter; 23 - pipe line supplying oil to oil cooler; 24 - turbine rotor rear bearing; 25 - compressor rotor front bearing.

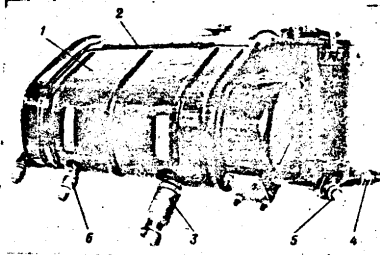


Fig. 68. Fuel-Oil Unit 317A

1—casing; 2—screw; 3—return valve; 4—pipe union-valve; 5—union nut with plug; 6—pipe union-valve.

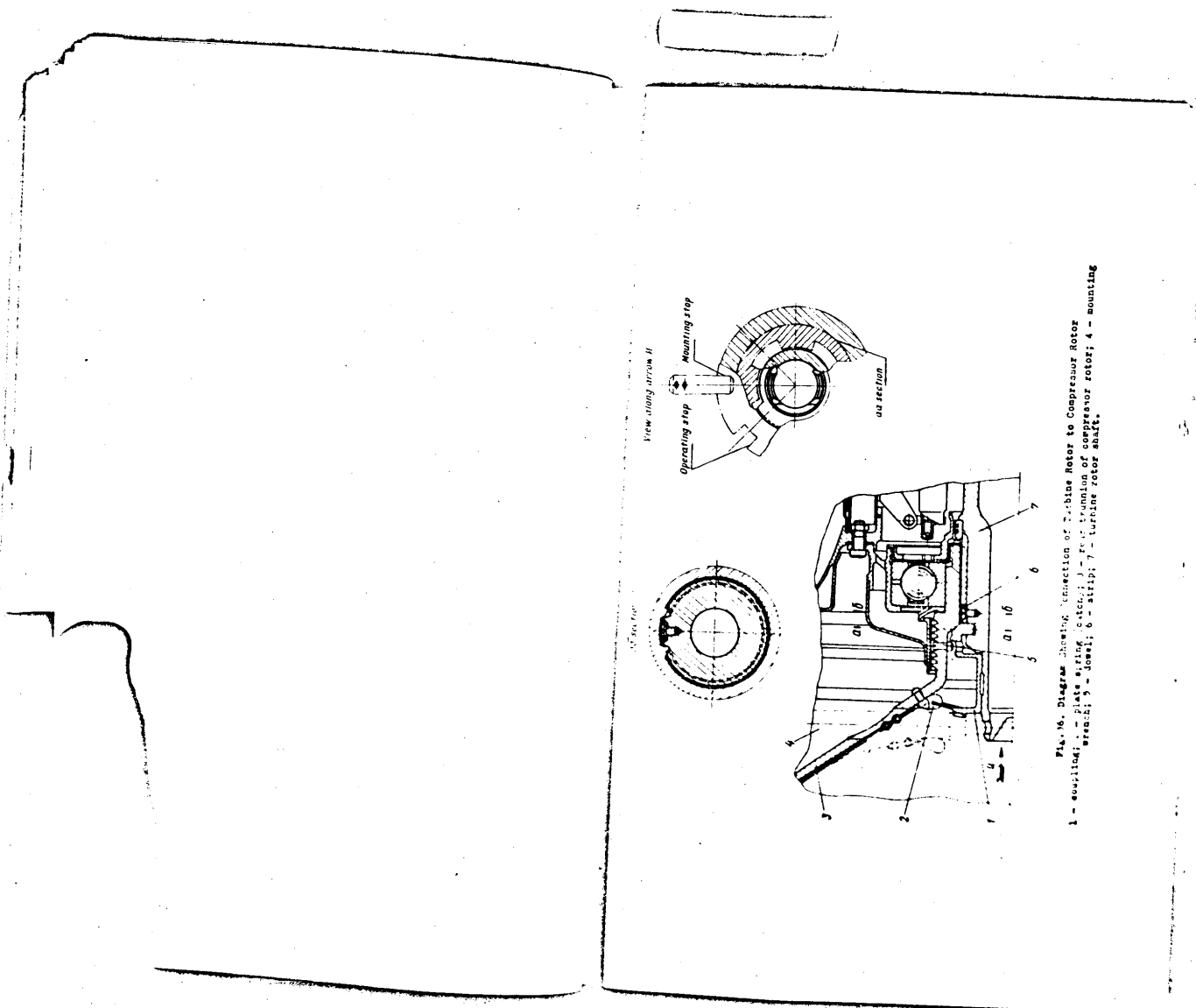


FIG. 16. Diagram showing connection of turbine rotor to compressor rotor  
1 - couplings; 2 - plate spring; 3 - pre-tensioning of compressor rotor; 4 - mounting  
bracket; 5 - boss; 6 - shaft; 7 - turbine rotor shaft.

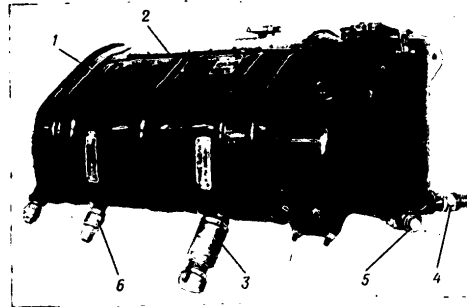


Fig. 69. Fuel-Oil Unit 317A

1 — casing; 2 — screw; 3 — return valve; 4 — pipe union-valve; 5 — union nut with plug; 6 — pipe union-valve.



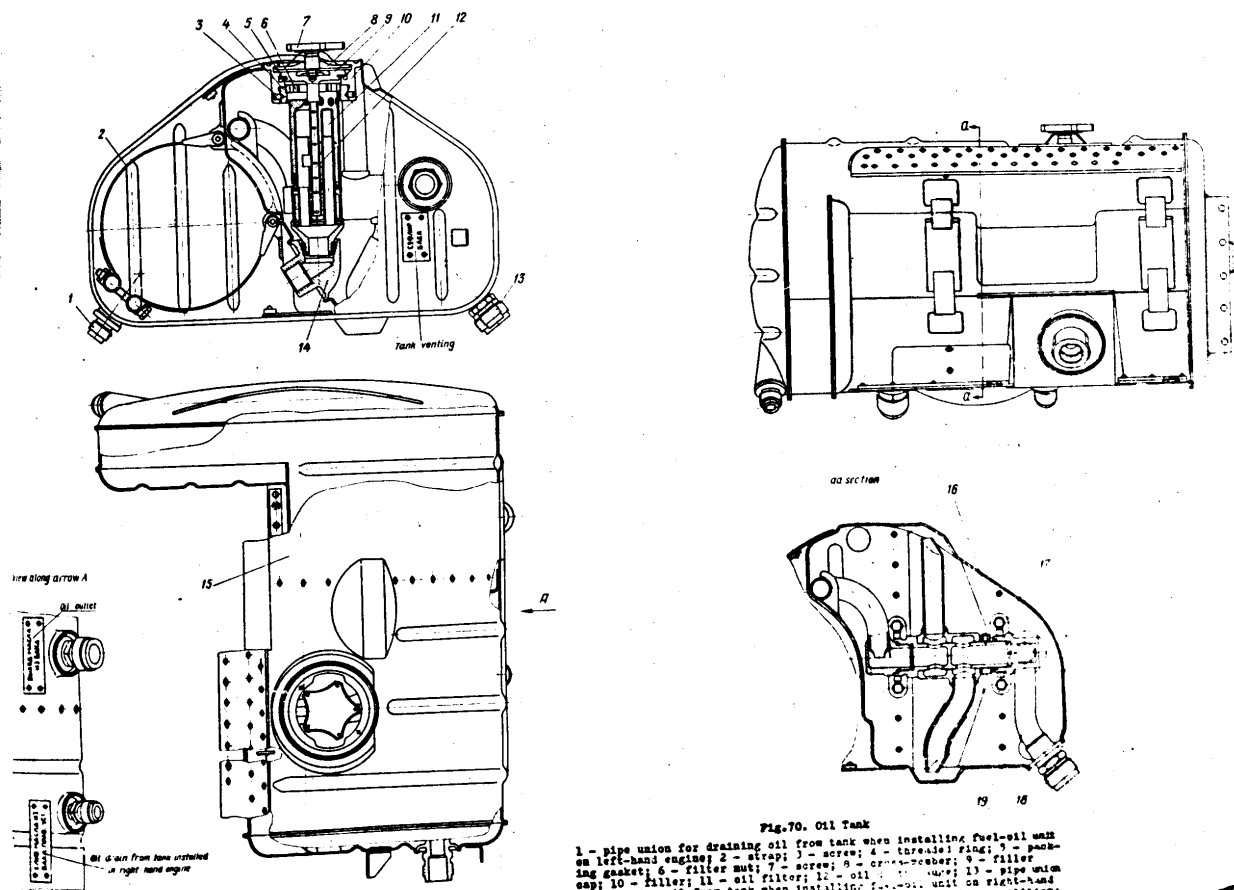
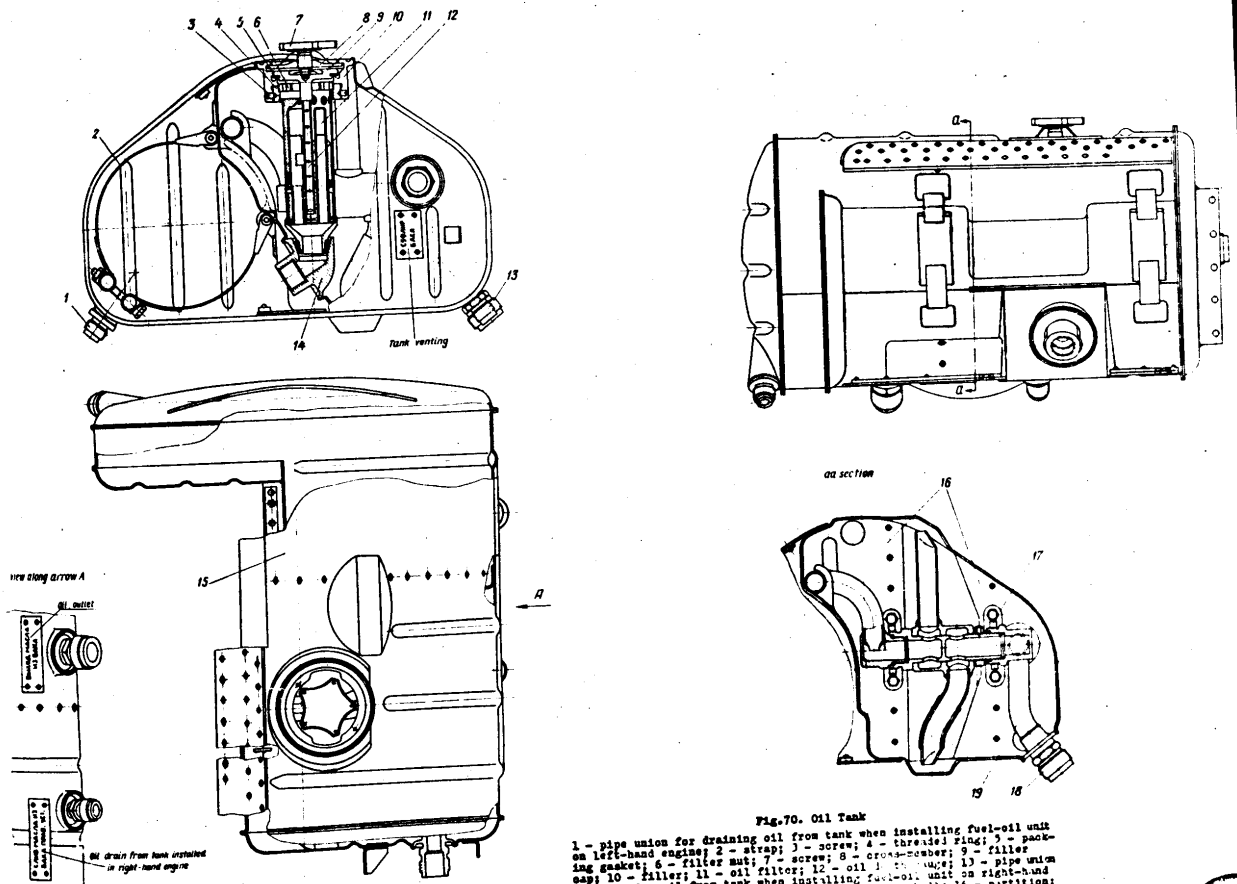


Fig. 70. Oil Tank

- 1 - pipe union for draining oil from tank when installing fuel-oil unit on left-hand engine; 2 - strap; 3 - screw; 4 - threaded ring; 5 - packing gasket; 6 - filler nut; 7 - screw; 8 - cross-member; 9 - filler cap; 10 - filler; 11 - oil filter; 12 - oil inlet pipe union; 13 - pipe union for draining oil from tank when installing fuel-oil unit on right-hand engine; 14 - oil inlet pipe union; 15 - oil tank shell; 16 - partition; 17 - strap; 18 - pipe union for delivery of oil from oil tank to engine; 19 - pipe.



**Fig.70. Oil Tank**  
 1 - pipe union for draining oil from tank when installing fuel-oil unit on left-hand engine; 2 - strap; 3 - screw; 4 - threaded plug; 5 - packing gasket; 6 - filler nut; 7 - screw; 8 - cross-member; 9 - filler cap; 10 - filler; 11 - oil filter; 12 - oil inlet pipe; 13 - pipe union for draining oil from tank when installing fuel-oil unit on right-hand engine; 14 - oil inlet pipe union; 15 - oil tank shell; 16 - partition; 17 - strap; 18 - pipe union for delivery of oil from oil tank to engine; 19 - pipe.

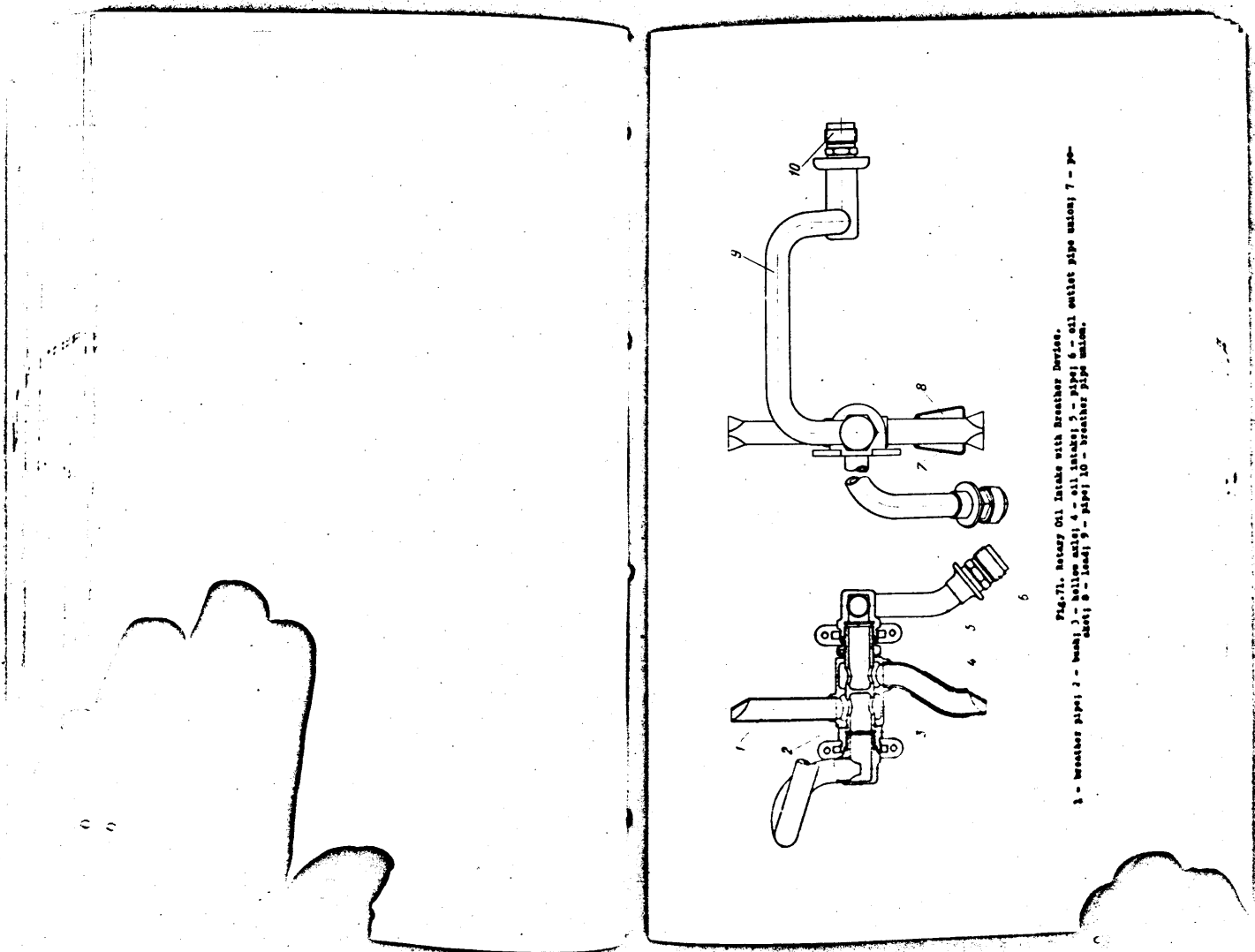


Fig. 71. Breacher Oil Inlets with Breacher Device.  
1 - handle; 2 - main body; 3 - hollow pipe; 4 - inlet pipe; 5 - pipe; 6 - oil outlet pipe union; 7 - pipe union; 8 - valve; 9 - pipe; 10 - breacher pipe union.

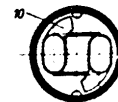
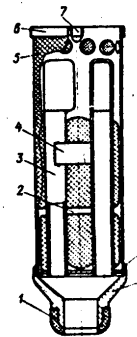


Fig. 72. Oil Filter  
1 - cap; 2 - filter frame; 3 - plate; 4 - plate;  
5 - filter gasket; 6 - rim; 7 - seal; 8 - bottom;  
9 - seal; 10 - nozzle.

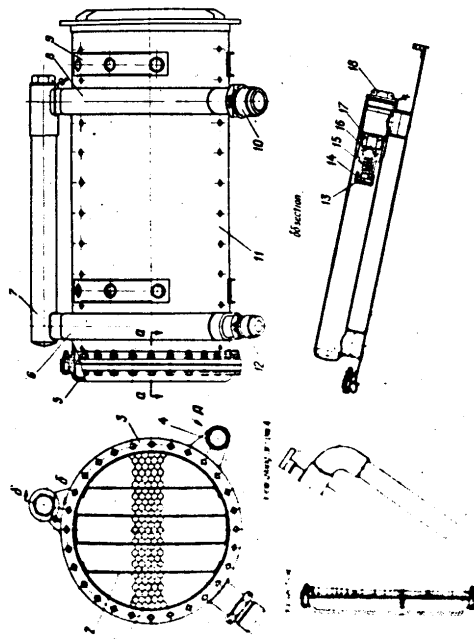


Fig. 73. Fuel-Oil Cooler  
1 - left-hand cover; 2 - fitting manifold; 3 - flange; 4 - oil outlet pipe connection; 5 - left-hand cover; 6 - left-hand cover; 7 - oil outlet pipe; 8 - fitting manifold; 9 - fitting manifold; 10 - coil with pipe; 11 - oil outlet pipe; 12 - oil outlet pipe; 13 - oil outlet pipe; 14 - strap; 15 - oil outlet pipe; 16 - screw plug; 17 - locking ring; 18 - screw plug.

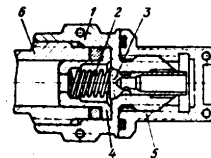


Fig.74. Pipe Union-Valve  
1 - pipe union; 2 - spring; 3 - valve  
rod; 4 - nipple; 5 - cap; 6 - oil drain  
pipe union.

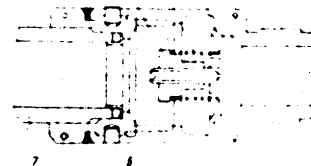


Fig.75. Return Valve  
1 - pipe union; 2 - valve rod; 3 - spring;  
4 - valve; 5 - housing; 6 - screw; 7 - oil drain  
pipe union.

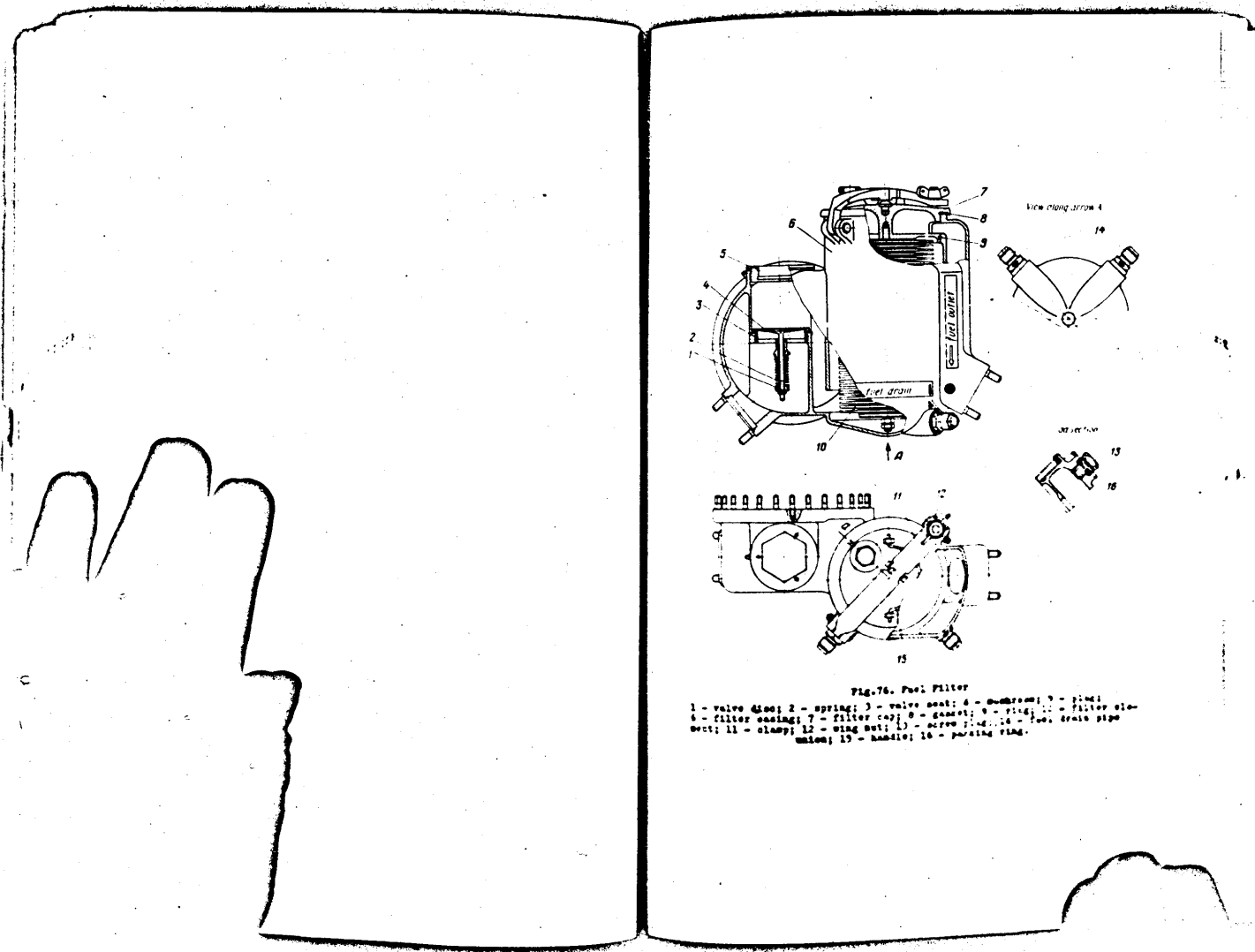
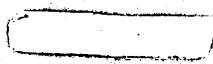


Fig. 76. Fuel Filter  
1 - valve disk; 2 - spring; 3 - valve seat; 4 - outflow; 5 - plug;  
6 - filter casing; 7 - filter cap; 8 - gasket; 9 - ring; 10 - filter ele-  
ment; 11 - clamp; 12 - ring nut; 13 - screw plug; 14 - fuel drain pipe  
union; 15 - handle; 16 - pouring ring.

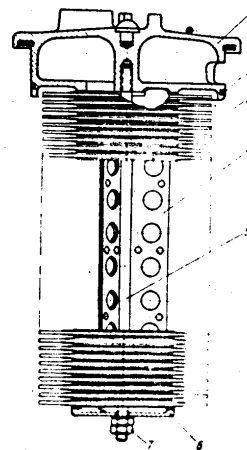
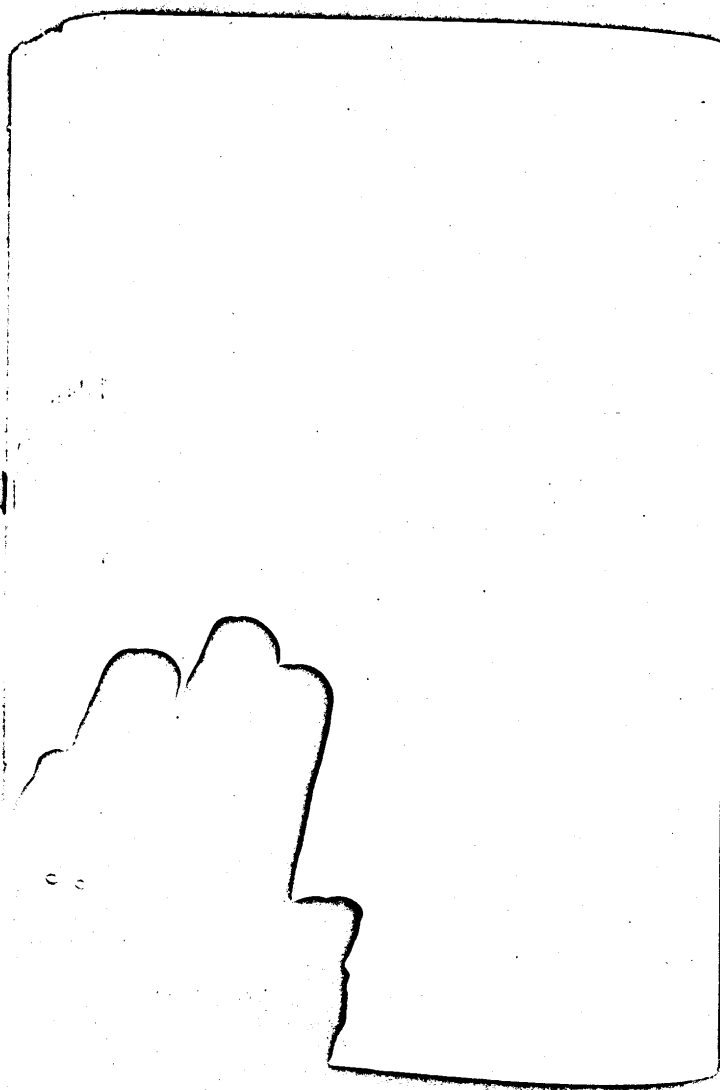


Fig. 77. Filter Element  
1 - filter cap; 2 - packing ring;  
3 - gauze disc; 4 - core; 5 - rod;  
6 - bottom; 7 - nut.

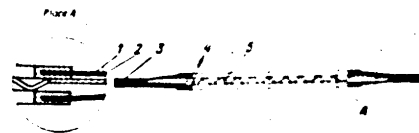


Fig. 78. Gauze Disc  
1 - fine gauze; 2 - coarse gauze; 3 - water ring; 4 - in-  
ner ring; 5 - separator disc.



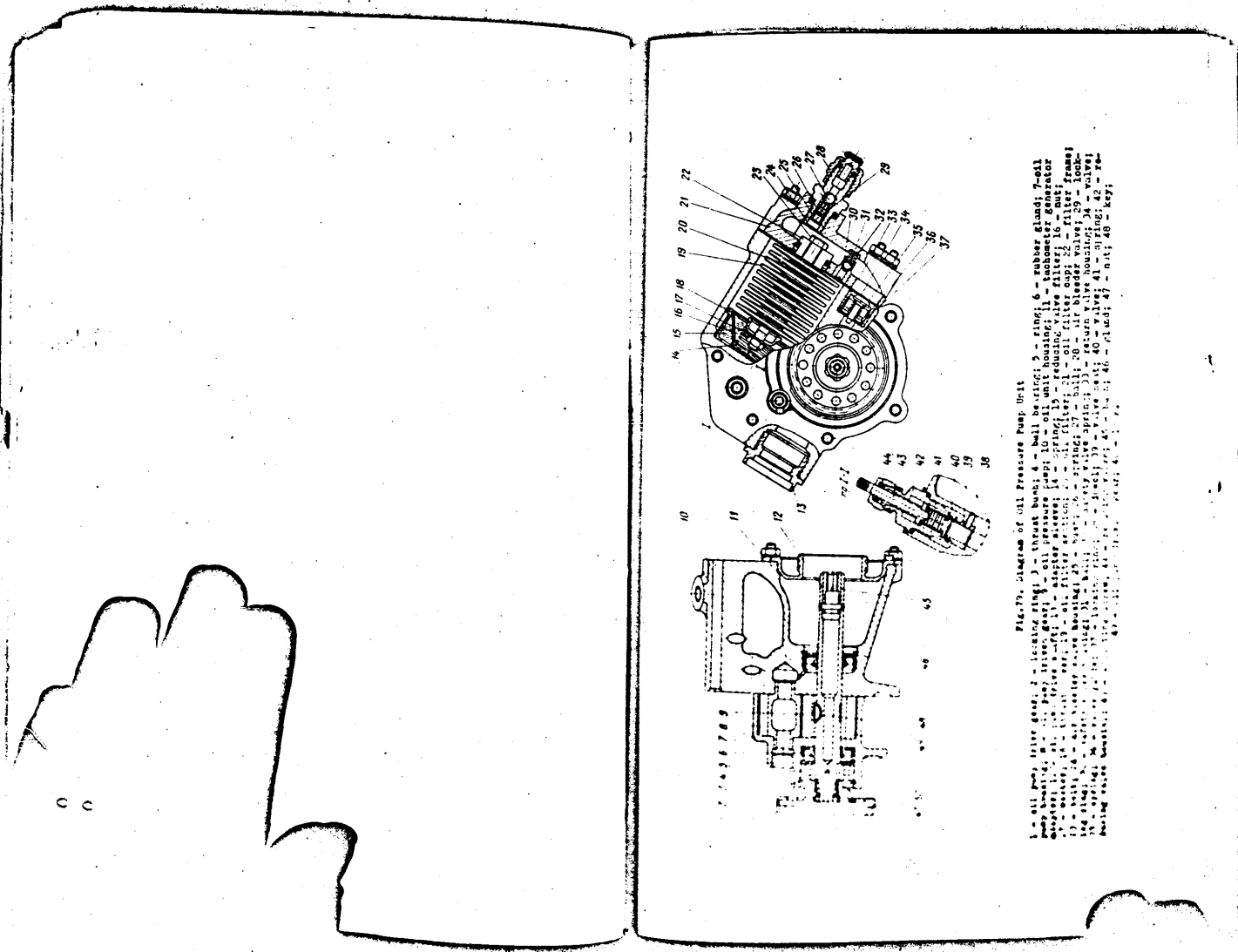


Fig. 77. Diagram of oil pressure pump unit.  
1 - oil pump; 2 - timing gear; 3 - locking ring; 4 - ball bearing; 5 - ring; 6 - rubber gland; 7 - oil generator; 8 - oil filter; 9 - oil filter cap; 10 - oil filter; 11 - oil filter cap; 12 - oil filter; 13 - oil filter; 14 - oil filter; 15 - oil filter; 16 - oil filter; 17 - oil filter; 18 - oil filter; 19 - oil filter; 20 - oil filter; 21 - oil filter; 22 - oil filter; 23 - oil filter; 24 - oil filter; 25 - oil filter; 26 - oil filter; 27 - oil filter; 28 - oil filter; 29 - oil filter; 30 - oil filter; 31 - oil filter; 32 - oil filter; 33 - oil filter; 34 - oil filter; 35 - oil filter; 36 - oil filter; 37 - oil filter; 38 - oil filter; 39 - oil filter; 40 - oil filter; 41 - oil filter; 42 - oil filter; 43 - oil filter; 44 - oil filter; 45 - oil filter; 46 - oil filter; 47 - oil filter; 48 - oil filter.

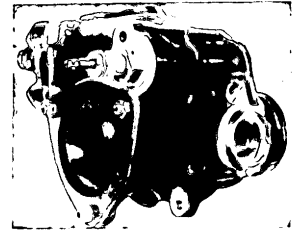


Fig. 80. Oil Pressure Pump Unit

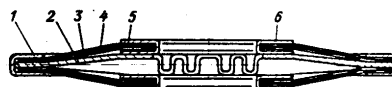


Fig. 81. Oil Filter Section.  
1 - outer holder; 2 - diaphragm; 3 - filter gauze; 4 - frame gauze; 5 - washer; 6 - inner holder.

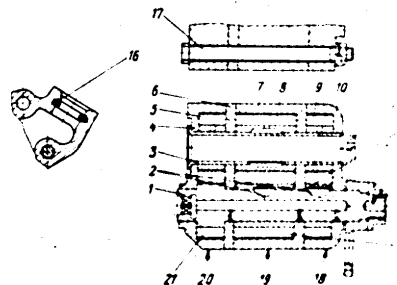


Fig. 82. Scavenge Oil Pump  
1 - scavenge oil pump drive shaft; 2 - gear; 3 - driven gear axle; 4, 7, 10 - scavenging section housing; 5 - oil pump cover; 6, 8, 9 - driven gear; 11 - oil pump gear drive gear; 12, 14, 15 - driven gear; 13 - anti-lift; 16 - rubber packing ring; 17 - bolt; 18 - third scavenging section; 19 - middle scavenging section; 20 - first scavenging section.

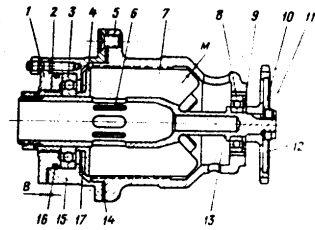


Fig. 83. Centrifugal Breather  
 M, B - clearances; 1 - thrust cover; 2 - oil seal bush; 3, 8 - ball bearings; 4 - thrust disc; 5 - centrifugal breather housing; 6 - rotor vanes; 7 - rotor blades; 9 - oil slinger; 10 - lock; 11 - nut; 12 - spur gear; 13 - rotor; 14 - brass shim; 15 - centrifugal breather cover; 16 - rubber ring; 17 - recess.

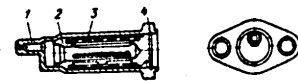


Fig. 84. Oil Nozzle of Compressor Rotor Centre Bearing  
 1 - nozzle body; 2 - frame; 3 - gauge filters; 4 - locking ring.

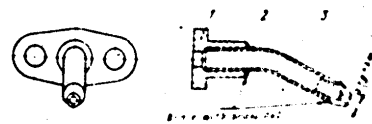


Fig. 85. Oil Nozzle of Rotor Front Bearing  
 1 - nozzle; 2 - flange; 3 - pipe.

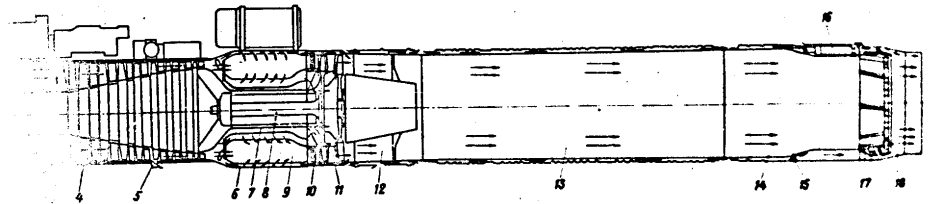


Fig. 06. Engine Air Cooling Diagram

- 1 - nose bullet fairing; 2 - compressor inlet housing; 3 - compressor rotor; 4 - compressor middle housing; 5 - compressor blow-off ports; 6 - rear housing; 7 - shaft; 8 - turbine rotor; 9 - combustion chamber; 10 - first stage nozzle assembly; 11 - second stage nozzle assembly; 12 - afterburner diffuser; 13 - afterburner middle pipe; 14 - afterburner adjustable jet nozzle; 15 - ports in adjustable jet nozzle shroud; 16 - actuating cylinders; 17 - adjustable jet nozzle shatters; 18 - ejector.

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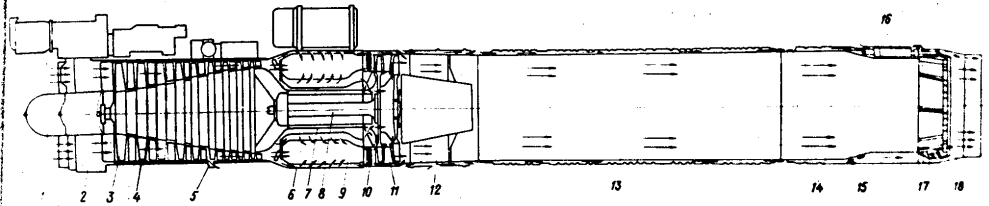


Fig. 06. Engine Air Cooling Diagram

1 - nose bullet fairing; 2 - compressor inlet housing; 3 - compressor rotor; 4 - compressor middle housing; 5 - compressor blow-off ports; 6 - rear housing; 7 - shield; 8 - turbine rotor; 9 - combustion chamber; 10 - first stage nozzle assembly; 11 - second stage nozzle assembly; 12 - afterburner diffuser; 13 - afterburner middle pipe; 14 - afterburner adjustable jet nozzle; 15 - ports in adjustable jet nozzle shroud; 16 - actuating cylinder; 17 - adjustable jet nozzle shutters; 18 - ejector.

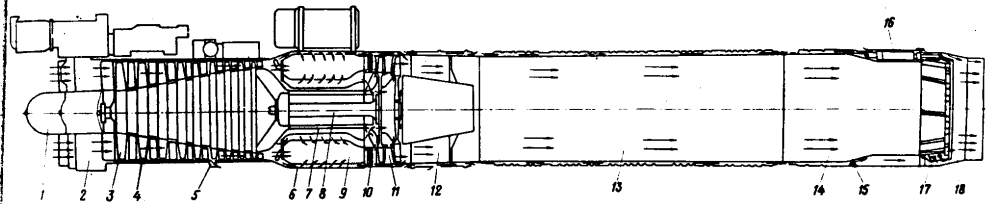


Fig. 86. Engine Air Cooling Diagram

1 - nose bullet fairing; 2 - compressor inlet housing; 3 - compressor rotor; 4 - compressor middle housing; 5 - compressor blow-off ports; 6 - rear housing; 7 - shield; 8 - turbine rotor; 9 - combustion chambers; 10 - first stage nozzle assembly; 11 - second stage nozzle assembly; 12 - afterburner diffuser; 13 - afterburner middle pipe; 14 - afterburner adjustable jet nozzle; 15 - ports in adjustable jet nozzle shroud; 16 - actuating cylinder; 17 - adjustable jet nozzle shutters; 18 - ejector.





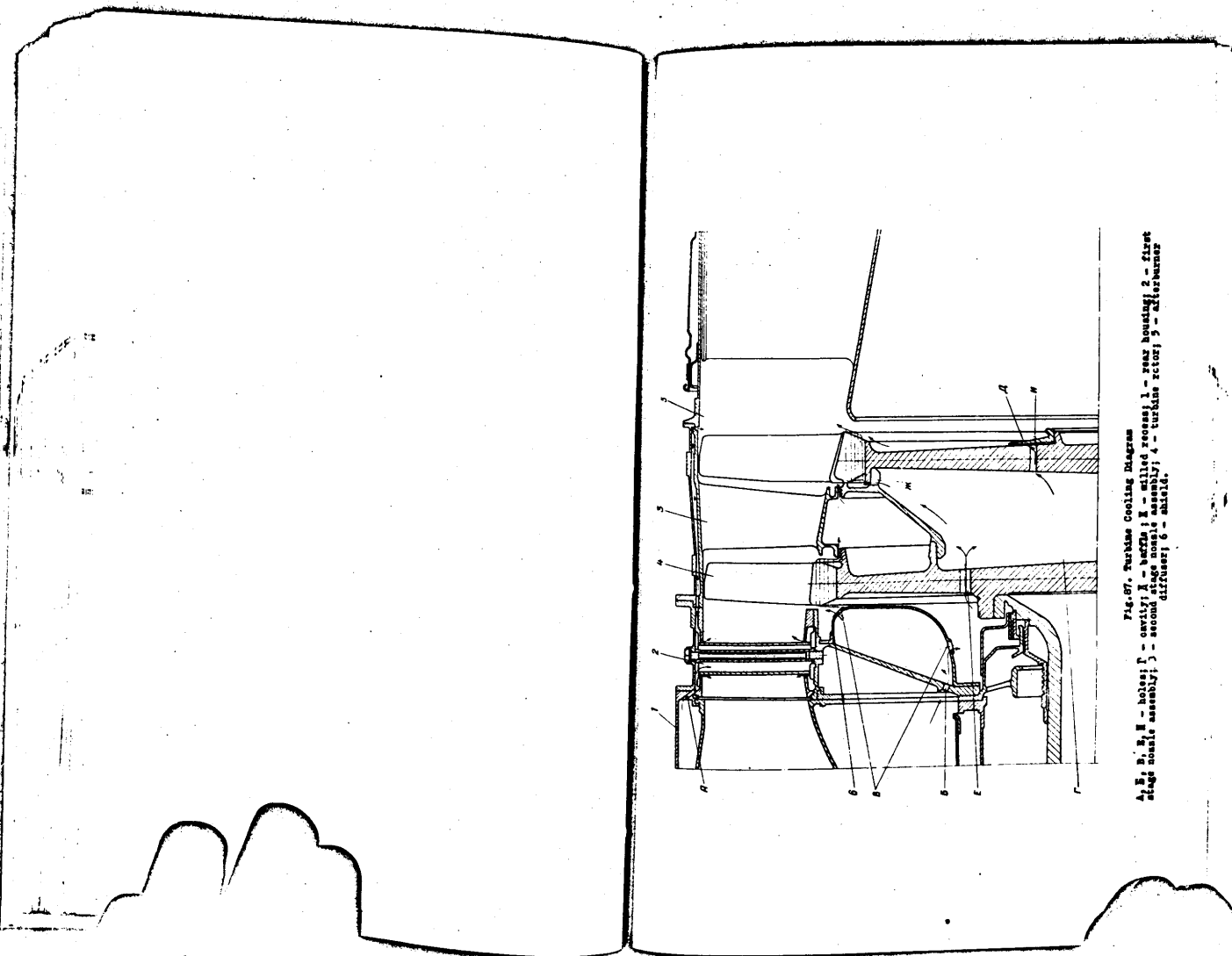


Fig. 87. Turbine casing diagram.  
A - E, H - holes; F - stator; G - stator nozzle; H - stator nozzle; I - stator nozzle; J - second stage nozzle assembly; K - second stage nozzle; L - turbine rotor; M - turbine rotor; N - turbine rotor; O - turbine rotor; P - turbine rotor; Q - turbine rotor; R - turbine rotor.

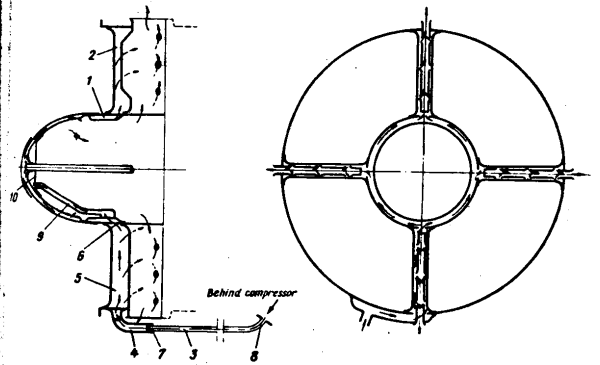


Fig. 88. Anti-Icing System Diagram  
1 - fairing manifold; 2 - stamped struts; 3 - air delivery pipe; 4 - support pipe connection; 5 - hot air delivery strut; 6 - hole for air delivery into fairing; 7 - jet; 8 - pipe connection for air bleeding from compressor; 9 - pipe for air supply into fairing; 10 - partition.

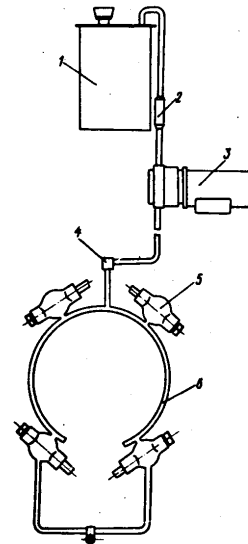


Fig. 69. Starting Fuel System Diagram  
1 - starting fuel tank; 2 - filter;  
3 - HHP-10-9M starting fuel pump;  
4 - magnetic valve; 5 - flame igniters;  
6 - starting fuel manifold.

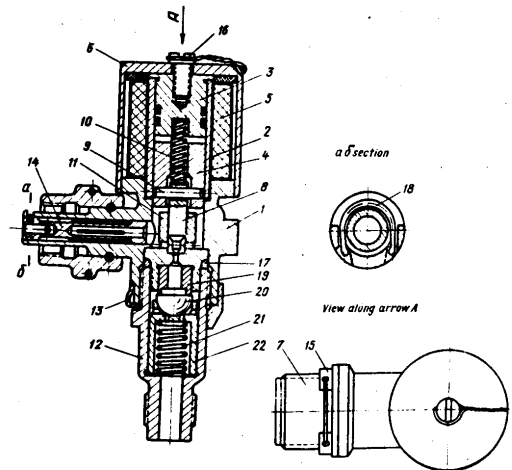


Fig. 90. Magnetic Valve

- 1 - housing; 2 - bush; 3, 4 - cores; 5 - solenoid; 6 - bonnet; 7 - plug connector; 8 - needle; 9 - needle axle; 10 - spring; 11 - bush; 12 - pipe union; 13 - lock; 14 - filter; 15, 16 - screws; 17 - gasket; 18 - lock; 19 - bush; 20 - hemisphere; 21 - spring; 22 - plunger.

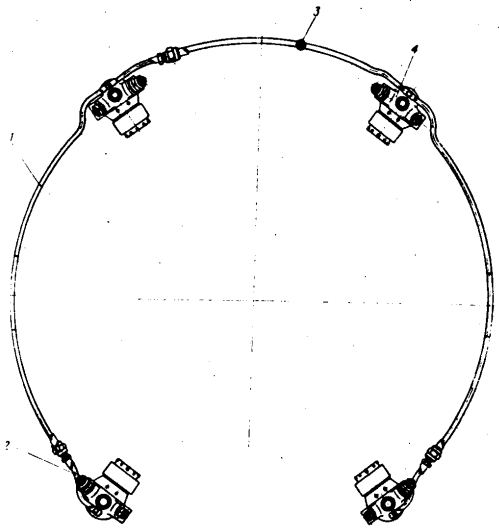
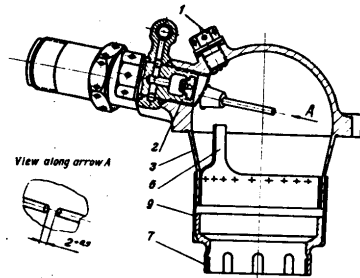


Fig. 91. Starting Fuel Manifold  
1, 2 - starting fuel manifold pipes; 3 - pipe union; 4 - flame igniter.



View along arrow A

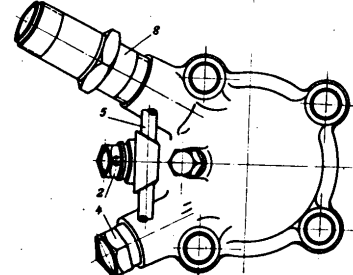


Fig. 92. Flame Igniter  
1 - screw plug; 2 - starting atomizer; 3 - housing; 4 - discharge; 5 - starting fuel manifold; 6 - shield; 7 - screwable bush; 8 - spark plug CH-96; 9 - bush.

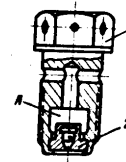


Fig. 93. Starting Atomizer  
A - cavity; 1 - pipe union; 2 - spray tip.

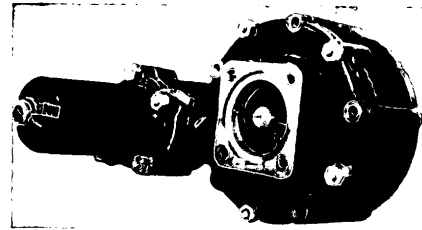


Fig. 94. Booster Pump 1111-9

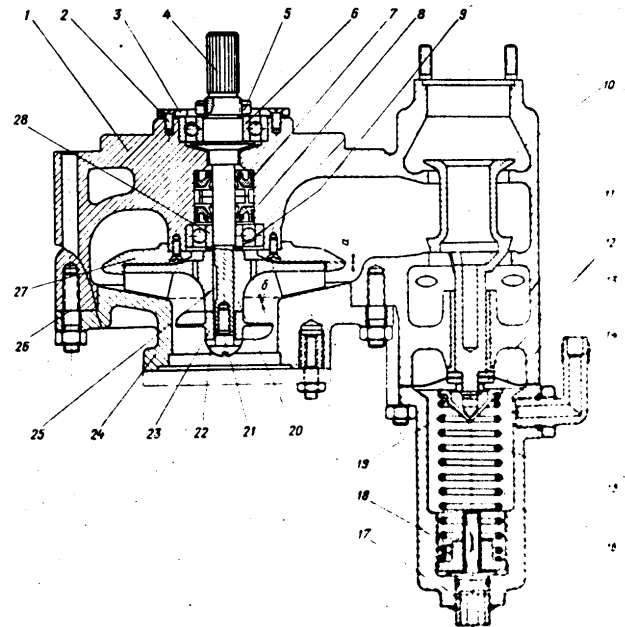


Fig. 99. Diagram of Booster Pump 25-9  
1 - housing; 2 - screw; 3 - cover; 4 - shaft; 5 - nut; 6 - ball bearing; 7, 8 - varying resp.  
9 - adjusting shim; 10 - valve; 11 - bush; 12 - washer; 13 - nut; 14 - pipe union;  
15 - spring; 16 - cover; 17 - adjusting screw; 18 - nut; 19 - plate; 20 - top; 21 - screw;  
22 - collar pin; 23 - propeller; 24 - pump cover; 25 - nut; 26 - stop; 27 - setting screw;  
28 - ball bearing; 29 - propeller mounting rod/washer.



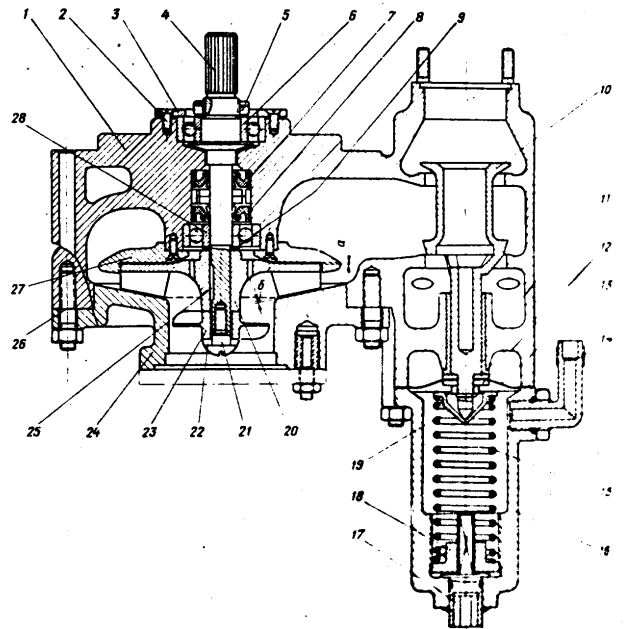


Fig. 99. Diagram of Booster Pump 11-9  
 1 - housing; 2 - screw; 3 - cover; 4 - shaft; 5 - nut; 6 - ball bearing; 7, 8 - packing rings;  
 9 - adjusting shim; 10 - valve; 11 - bush; 12 - nut; 13 - neoprene; 14 - pipe union;  
 15 - spring; 16 - cover; 17 - adjusting screw; 18 - seal; 19 - plate; 20 - impeller; 21 - screw;  
 22 - cotter pin; 23 - propeller; 24 - pump cover; 25 - motor; 26 - stud; 27 - packing screw;  
 28 - ball bearing; a, b - impeller mounting clearance.

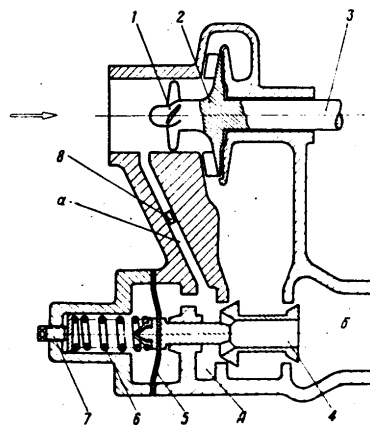


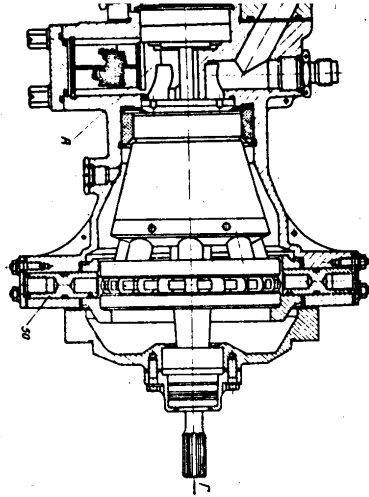
Fig. 96. Booster Pump II-9. Functional Diagram.  
2 - duct; 6 - pipe connection; A - cavity; 1 - propeller;  
2 - impeller; 3 - shaft; 4 - valve; 5 - membrane; 6 - spring;  
7 - spring screw; 8 - jet.



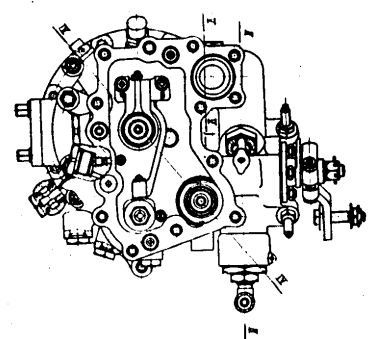




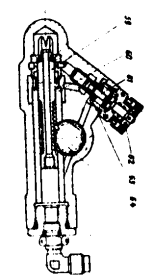




17 section



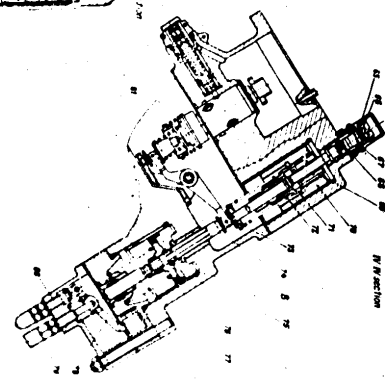
18 section



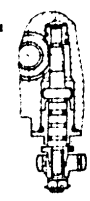
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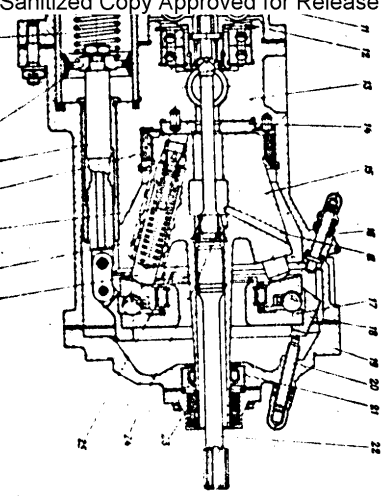
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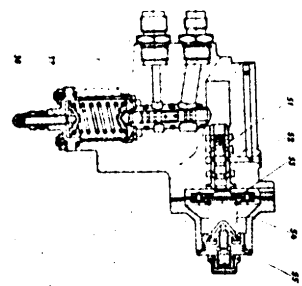
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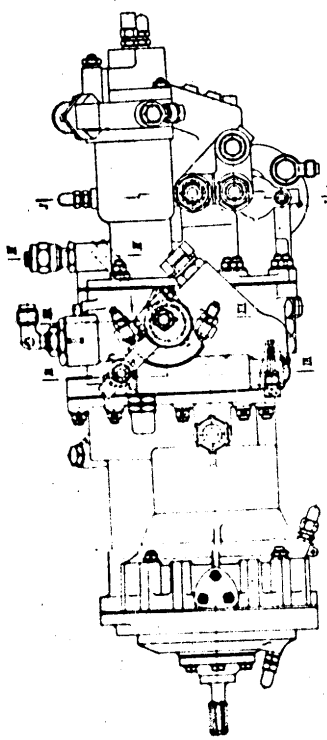
22 section



23 section



24 section



25 section

25 - distributor pump, diagram  
1 - distributor valve  
2 - distributor valve  
3 - distributor valve  
4 - distributor valve  
5 - distributor valve  
6 - distributor valve  
7 - distributor valve  
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99 - distributor valve  
100 - distributor valve

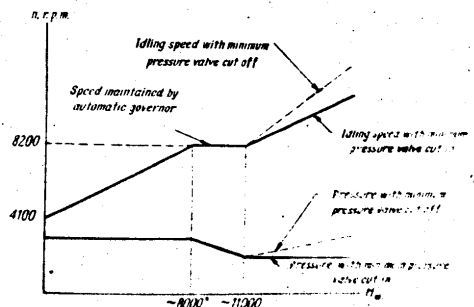
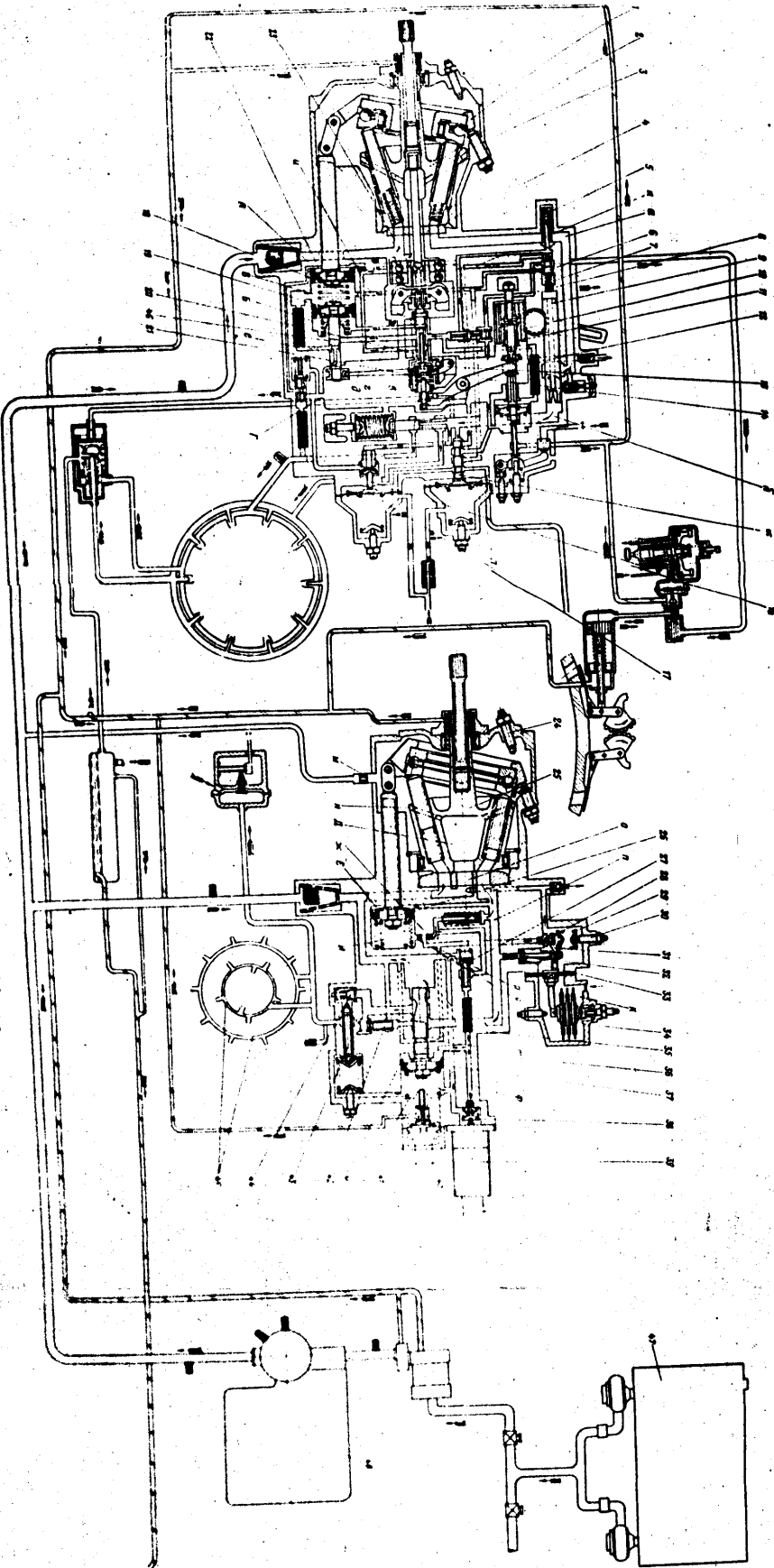


Fig.100. Graph, showing changes in Speed when Minimum Pressure Valve is Turned On



Fig. 100. Fuel System Functional Diagram

1 - Fuel tank  
 2 - Fuel pump  
 3 - Fuel filter  
 4 - Fuel control valve  
 5 - Fuel manifold  
 6 - Fuel injector  
 7 - Fuel nozzle  
 8 - Fuel passage  
 9 - Fuel passage  
 10 - Fuel passage  
 11 - Fuel passage  
 12 - Fuel passage  
 13 - Fuel passage  
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 99 - Fuel passage  
 100 - Fuel passage



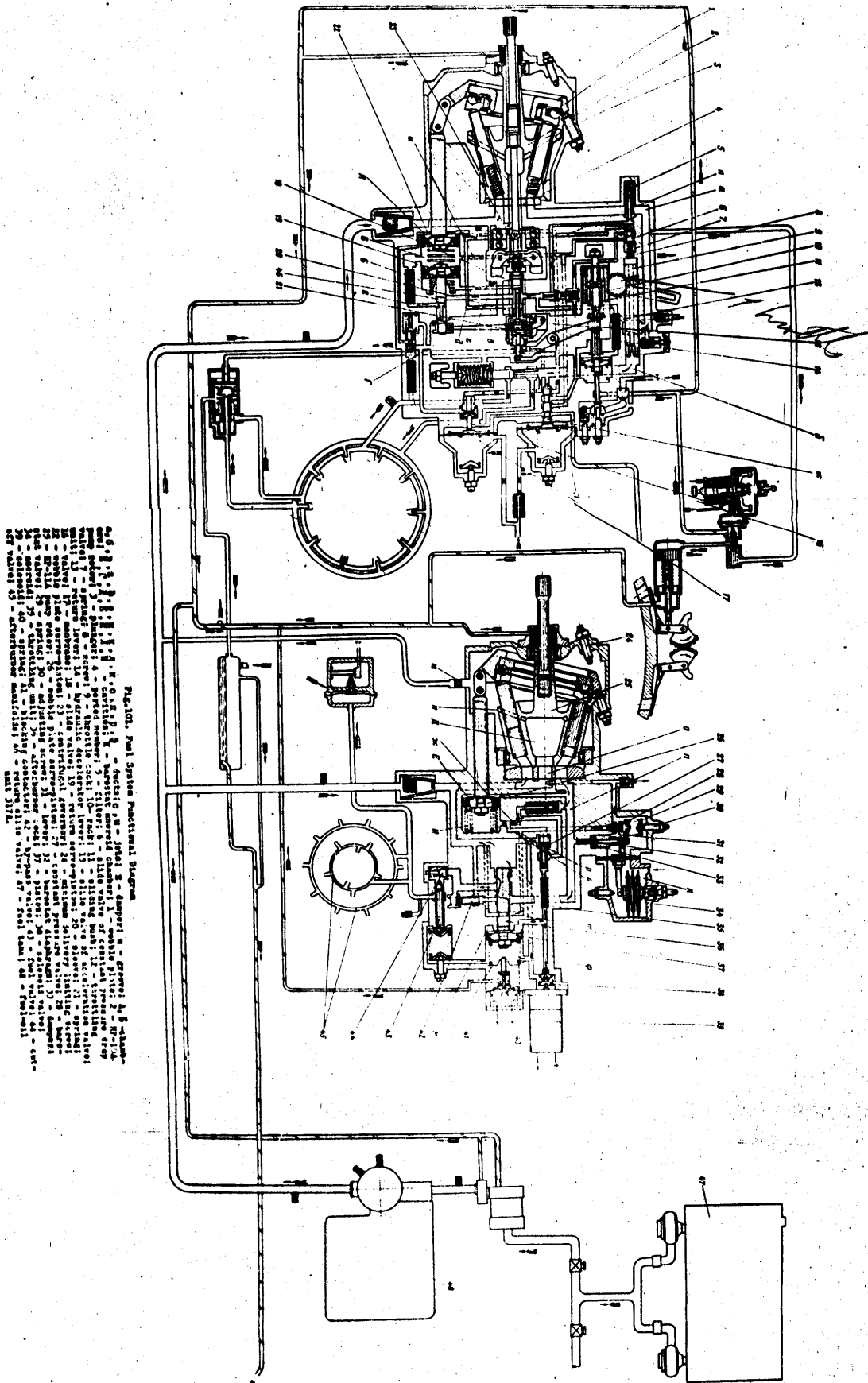


Fig. 101. Fuel System Functional Diagram

1 - fuel tank; 2 - fuel pump; 3 - fuel filter; 4 - fuel valve; 5 - fuel valve; 6 - fuel valve; 7 - fuel valve; 8 - fuel valve; 9 - fuel valve; 10 - fuel valve; 11 - fuel valve; 12 - fuel valve; 13 - fuel valve; 14 - fuel valve; 15 - fuel valve; 16 - fuel valve; 17 - fuel valve; 18 - fuel valve; 19 - fuel valve; 20 - fuel valve; 21 - fuel valve; 22 - fuel valve; 23 - fuel valve; 24 - fuel valve; 25 - fuel valve; 26 - fuel valve; 27 - fuel valve; 28 - fuel valve; 29 - fuel valve; 30 - fuel valve; 31 - fuel valve; 32 - fuel valve; 33 - fuel valve; 34 - fuel valve; 35 - fuel valve; 36 - fuel valve; 37 - fuel valve; 38 - fuel valve; 39 - fuel valve; 40 - fuel valve; 41 - fuel valve; 42 - fuel valve; 43 - fuel valve; 44 - fuel valve; 45 - fuel valve; 46 - fuel valve; 47 - fuel valve; 48 - fuel valve; 49 - fuel valve; 50 - fuel valve; 51 - fuel valve; 52 - fuel valve; 53 - fuel valve; 54 - fuel valve; 55 - fuel valve; 56 - fuel valve; 57 - fuel valve; 58 - fuel valve; 59 - fuel valve; 60 - fuel valve; 61 - fuel valve; 62 - fuel valve; 63 - fuel valve; 64 - fuel valve; 65 - fuel valve.

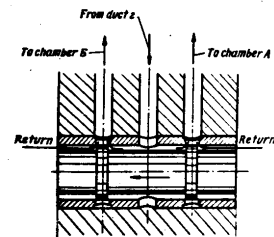


Fig. 102. Position of Transmitter Slide Valve with Predetermined Engine Speed Reduced

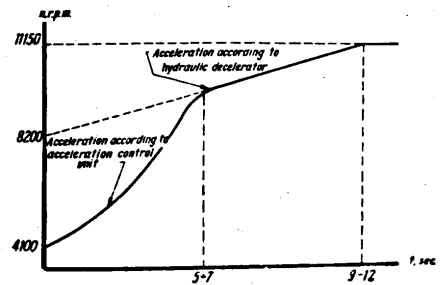


Fig. 103. Nature of Engine Speed Change, when Accelerating Engine from Idling to Maximum Speed on Ground, with Reference to Acceleration Control Unit and Hydraulic Decelerator.

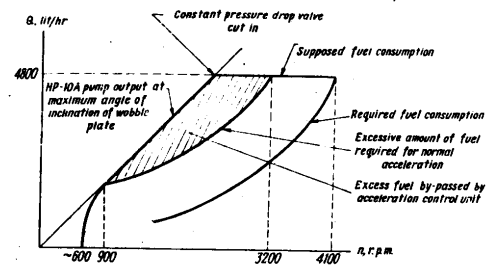


Fig.104. Nature of Change in Fuel Delivery by Starter Control Unit

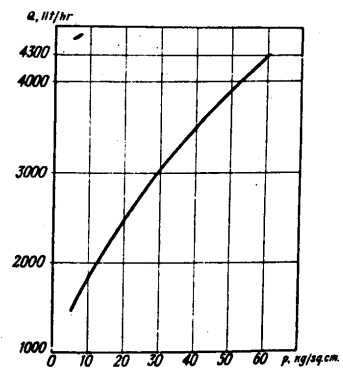


Fig.105. Nature of Changes in Fuel Flow Through Fuel Manifold and Main Burners, Depending on Fuel Pressure.

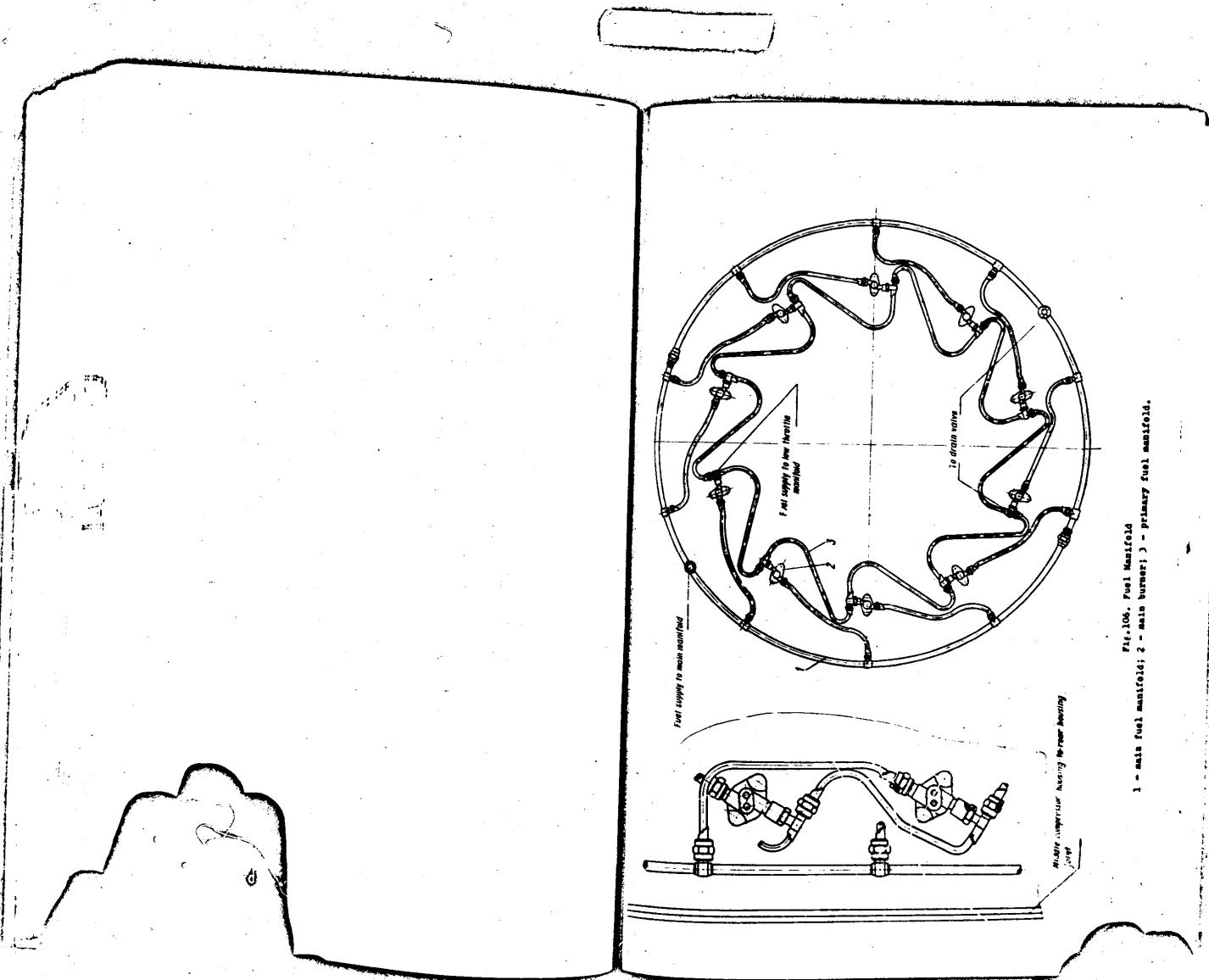


Fig. 106. Fuel Manifold  
1 - main fuel manifold; 2 - main burner; 3 - primary fuel manifold.

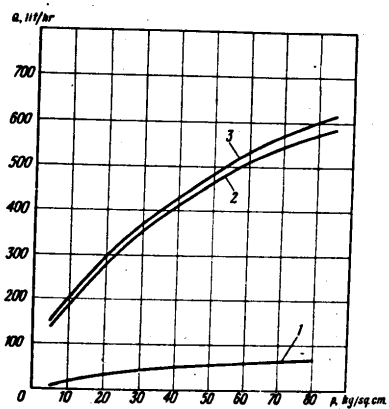


Fig.107. Nature of Changes in Fuel Flow Through Main Burner Ducts Depending on Fuel Pressure Before Burner  
1 - fuel flow through primary duct; 2 - fuel flow through main duct; 3 - total fuel flow.

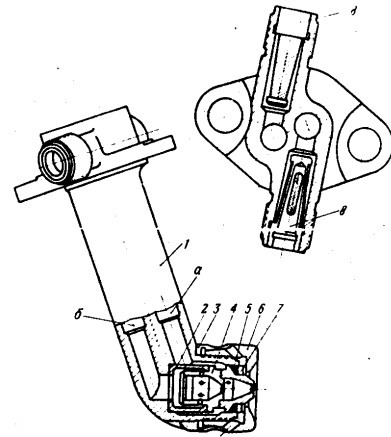


Fig. 108. Main Burner

a - primary duct; d - main duct; 1 - body; 2 - separating bush; 3 - lock; 4 - spray tip; 5 - packing ring; 6 - nut; 7 - swirler; 8 - filters.

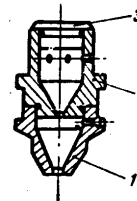
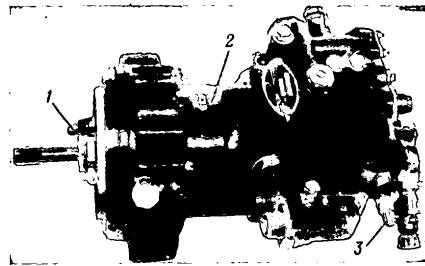
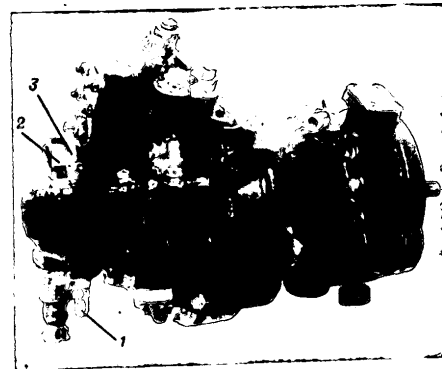


Fig. 109. Spray Tip

1 - primary nozzle; 2 - main nozzle; 3 - plug



**Fig. 110. HP-11A Fuel Regulating Pump. Left-Hand View**  
1—cap enclosing stop screw limiting wobble plate minimum angle of inclination; 2—cap enclosing stop screw limiting wobble plate maximum angle of inclination; 3—cap enclosing fuel valve spring adjusting screw



**Fig. 111. HP-11A Fuel Regulating Pump. Right-Hand View**  
1—cap enclosing barostat aneroid thrust screw; 2—cap enclosing barostat spring adjusting screw; 3—cap enclosing barostat aneroid adjusting screw.



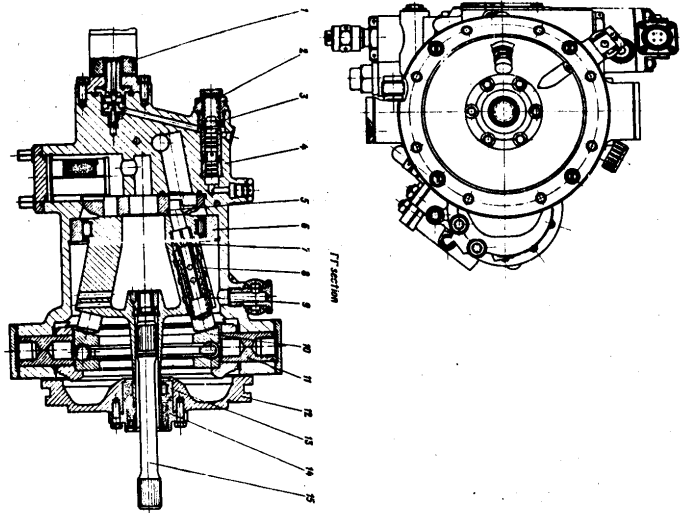
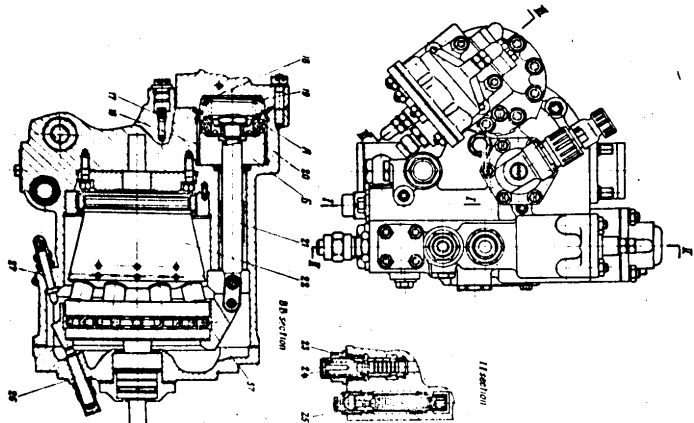
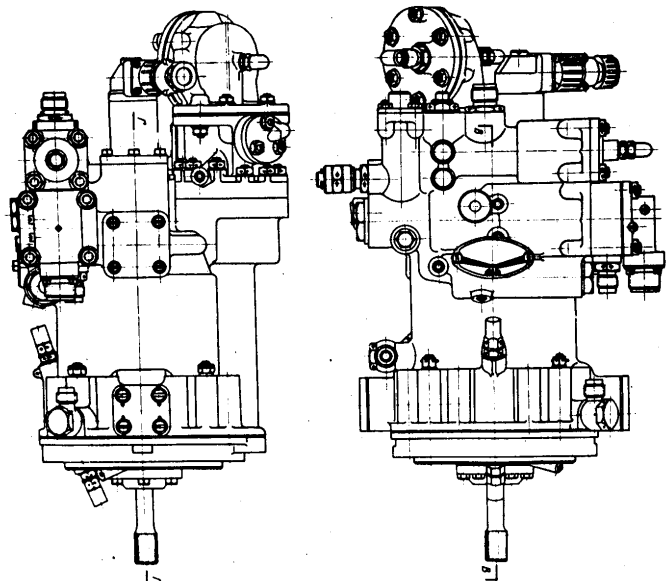
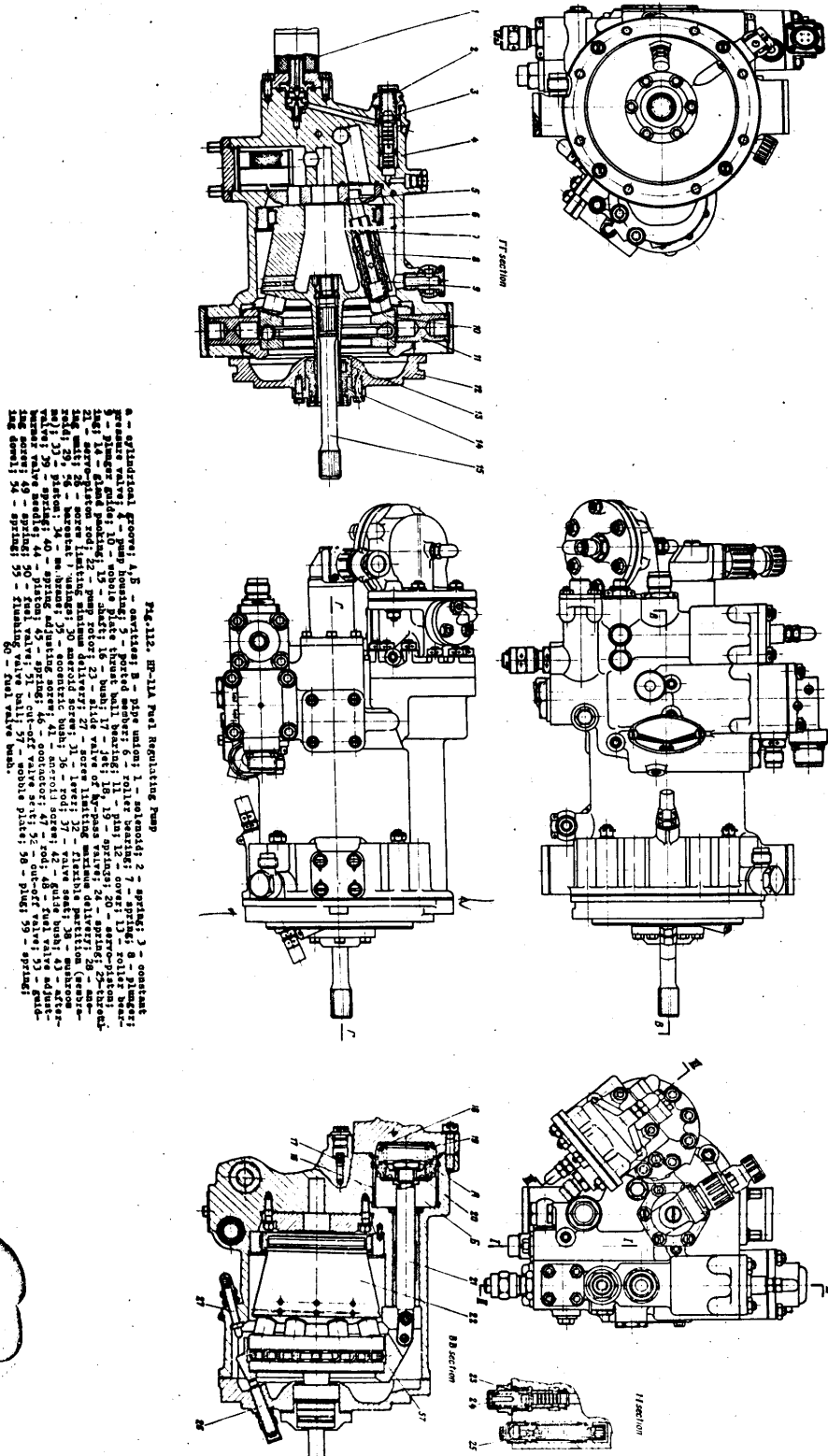


Fig. 112. HP-11A Fuel Regulating Pump  
 1 - solenoid; 2 - spring; 3 - constant  
 4 - plunger; 5 - pump housing; 6 - roller bearing; 7 - roller bearing; 8 - roller bearing;  
 9 - plunger; 10 - solenoid plate; 11 - jet; 12 - jet; 13 - jet; 14 - jet; 15 - jet; 16 - jet;  
 17 - jet; 18 - jet; 19 - jet; 20 - spring; 21 - spring; 22 - spring; 23 - spring; 24 - spring;  
 25 - spring; 26 - spring; 27 - spring; 28 - spring; 29 - spring; 30 - spring; 31 - spring;  
 32 - spring; 33 - spring; 34 - spring; 35 - spring; 36 - spring; 37 - spring; 38 - spring;  
 39 - spring; 40 - spring; 41 - spring; 42 - spring; 43 - spring; 44 - spring; 45 - spring;  
 46 - spring; 47 - spring; 48 - spring; 49 - spring; 50 - spring; 51 - spring; 52 - spring;  
 53 - spring; 54 - spring; 55 - spring; 56 - spring; 57 - spring; 58 - spring; 59 - spring;  
 60 - fuel valve bush.



112







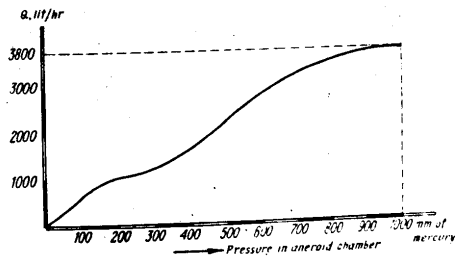
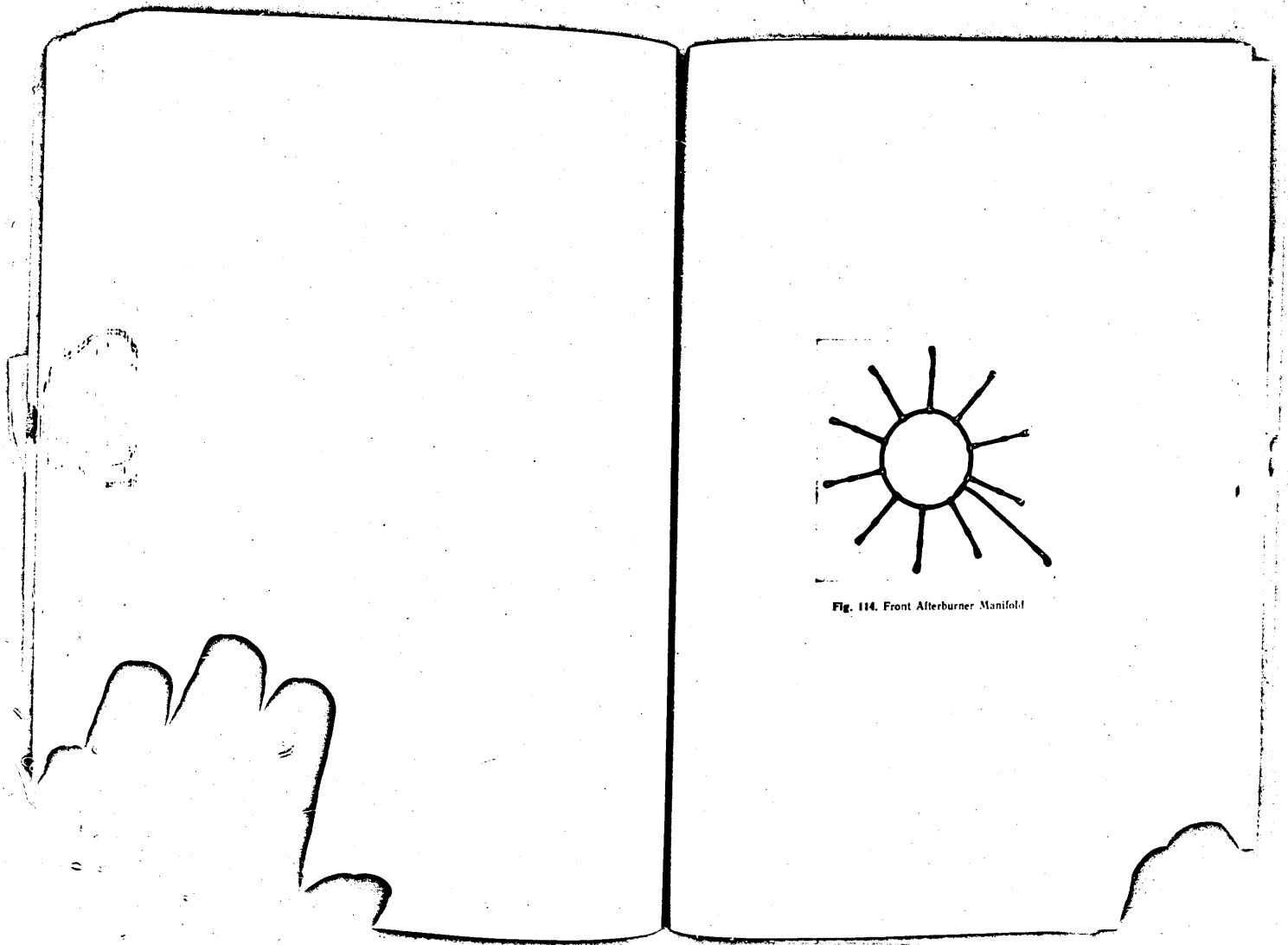


Fig. 113. Graph Showing Dependence of HP-111 Pump Output on Pressure in Barostat Aneroid Chamber



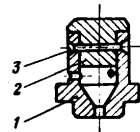
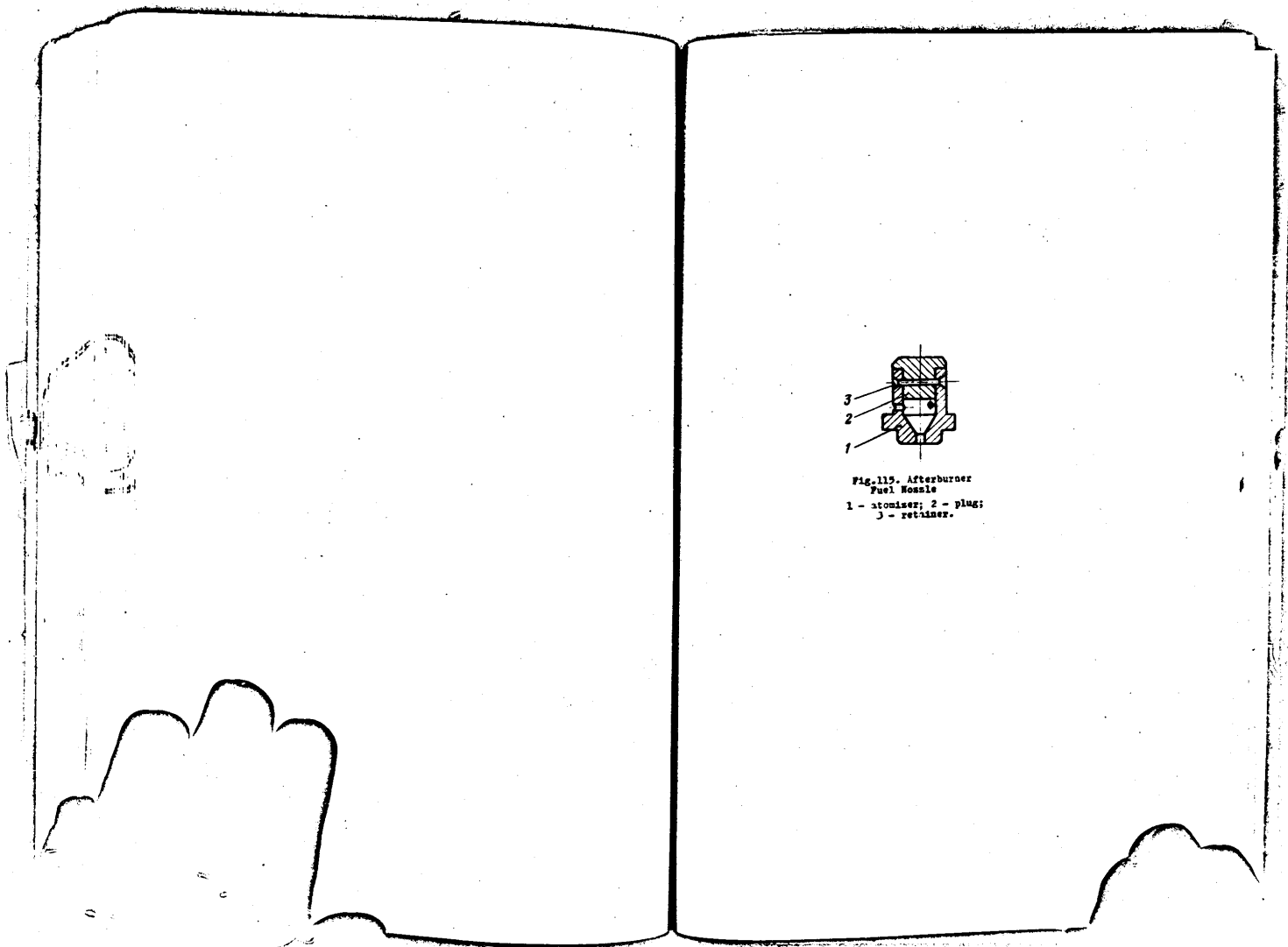
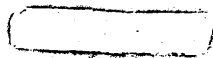


Fig. 115. Afterburner  
Fuel Nozzle  
1 - atomiser; 2 - plug;  
3 - retainer.

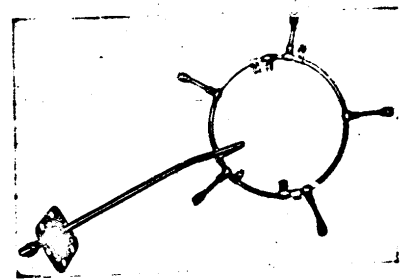


Fig. 116. Rear Afterburner Manifold



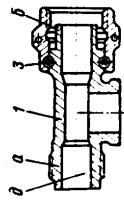
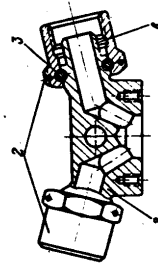


FIG. 116. Res-vice  
4 - pipe union; 5 - duct; 6 - nipple;  
7 - duct; 1 - adapter; 2 - union nut;  
3 - locking ring.

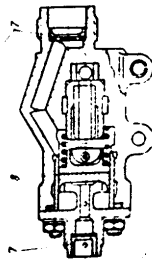
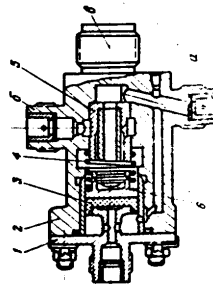


FIG. 117. Drain Valve  
2 - housing; 3 - cup; 4 - spring; 5 - valve stop; 6 - valve; 7 - filter; 8 - nut.

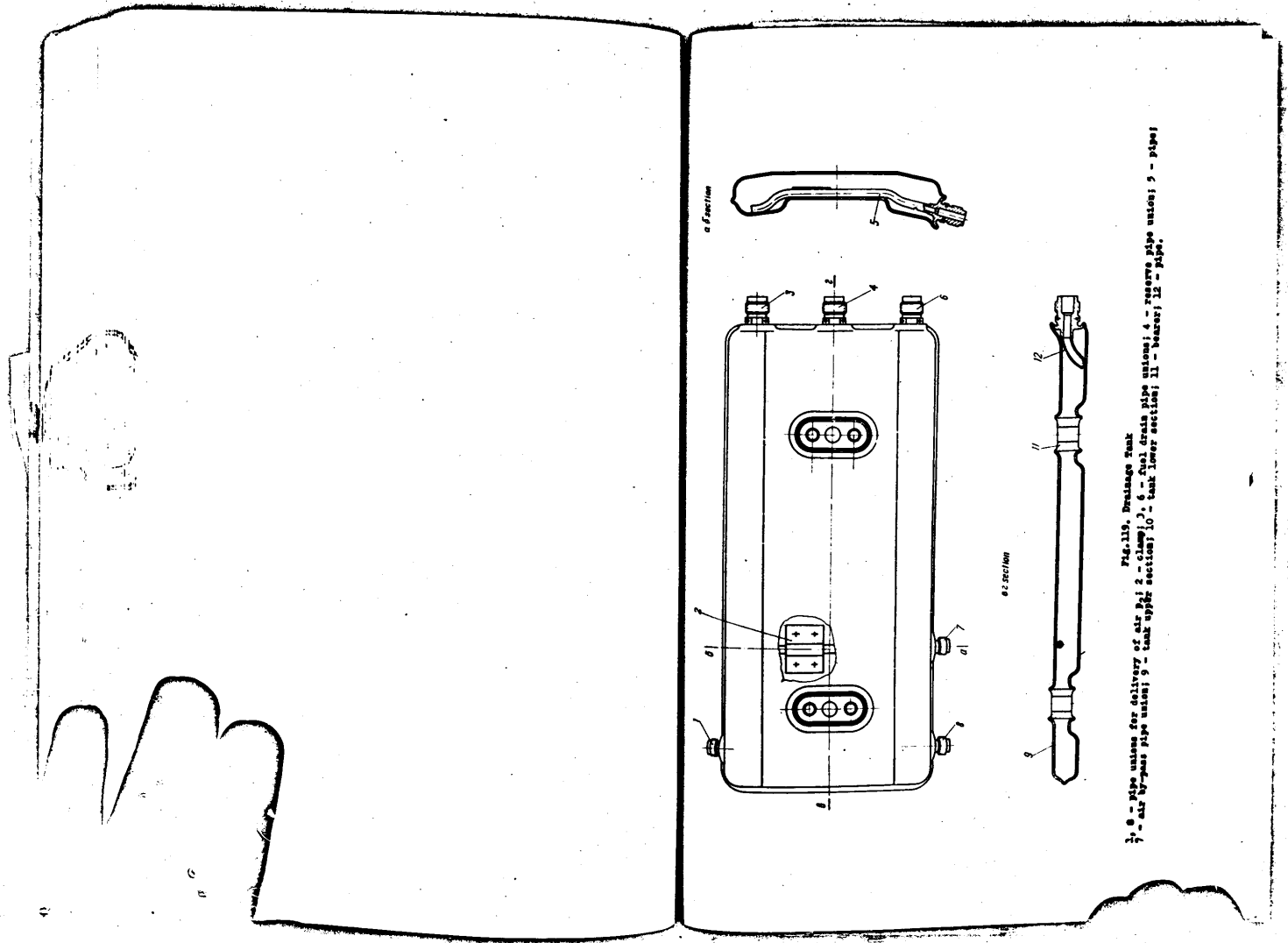


Fig. 119. Drainage Tank  
1 - pipe unions for delivery of air; 2 - tank; 3 - fuel drain pipe unions; 4 - reserve pipe unions; 5 - pipe;  
6 - air by-pass pipe union; 7 - tank upper section; 8 - tank lower section; 9 - tank lower section; 10 - tank lower section; 11 - base; 12 - pipe.

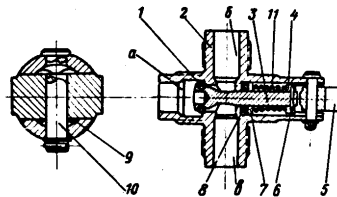


Fig. 120. Drain Cook

4, 6, 8 - pipe unions; 1 - rubber ring; 2 - body;  
3 - rod; 4 - thrust bush; 5 - cam; 6 - dowel;  
7 - washer; 8 - rubber ring; 9 - plate spring;  
10 - dowel; 11 - spring.

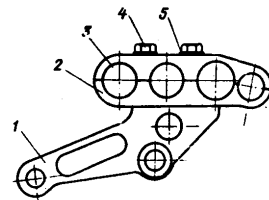


Fig. 121. Yoke

1 - bracket; 2, 3 - clamp; 4 - bolt; 5 - plate  
lock.

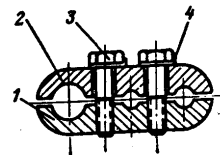


Fig. 122. Clamp

1, 2 - clamp; 3 - bolt; 4 - plate  
lock.

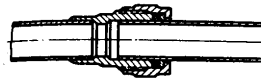


Fig. 123. Nipple Joint of AM Type

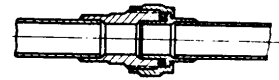


Fig. 124. Nipple Joint Sealed by Aluminium or Copper Rings



Fig. 125. Flanged Joint

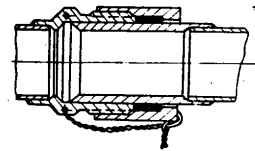


Fig. 126. Telescopic Joint

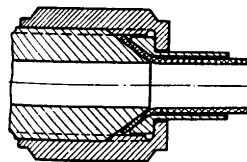


Fig. 127. Nipple Joint of "Parker" Type

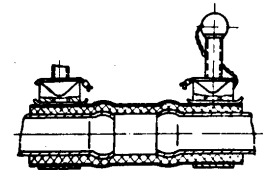


Fig. 128. Durite Joint

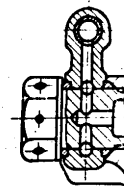
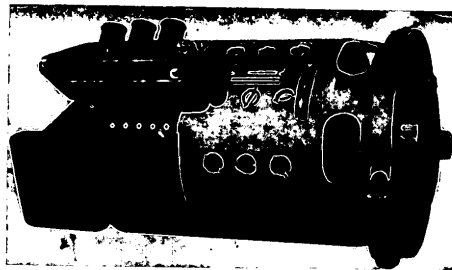


Fig. 129. Nipple Joint



**Fig. 180. Starter-Generator GCP-CT-6000A**

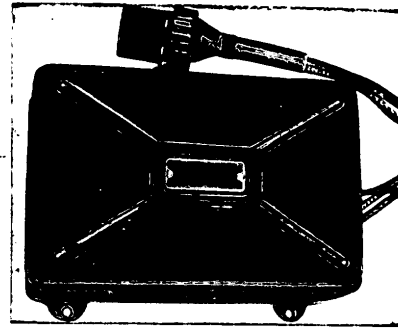


Fig. 131. Timer

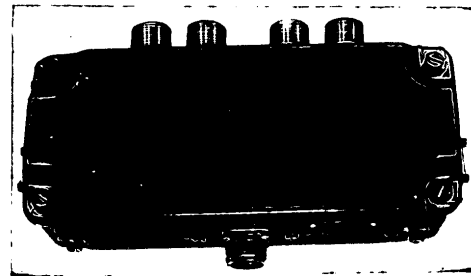


Fig. 132. Booster Coil Unit KIT-2151M. Top View

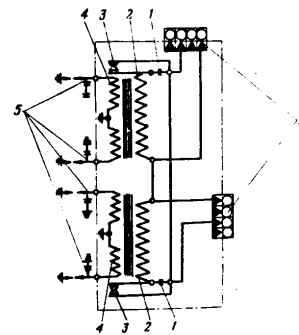


Fig-133. Firing Diagram of Booster Coil Unit  
KH-215M  
1 - capacitor; 2 - primary winding; 3 - breaker; 4 - secondary winding; 5 - discharger; 6 - plug connector.

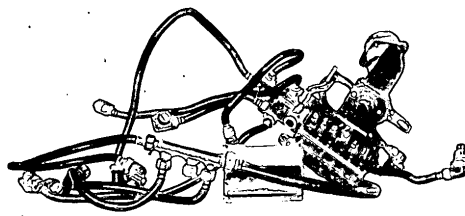


Fig. 134. Control Panel PV-3



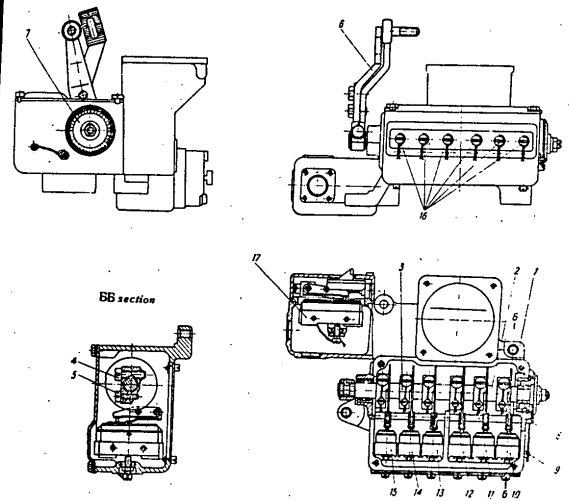


Fig. 135. Control Panel III-3

1 - housing; 2 - shaft; 3 - cam; 4 - micrometric screw; 5 - coupling screw; 6 - lever;  
7 - dial; 8, 9 - axles; 10-15 - limit switches; 16 - adjusting screws; 17 - limit switch.

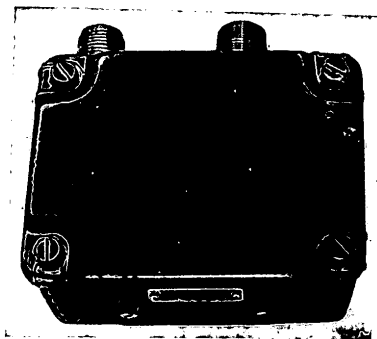


Fig. 138. Booster Coil KPM-1A. Top View

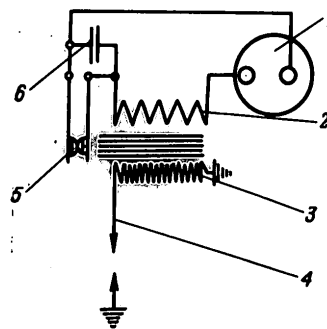


Fig. 137. Wiring Diagram of Booster  
Coil KHM-1A

1 - plug connector; 2 - primary  
winding; 3 - secondary winding; 4 - dis-  
charge; 5 - breaker; 6 - capacitor.

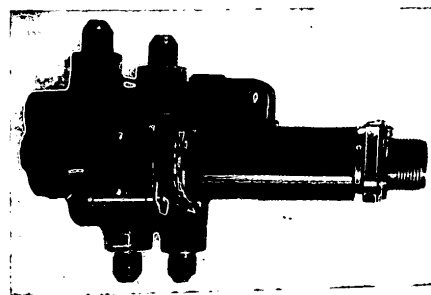


Fig. 138. Two-Position Slide Valve GA-21

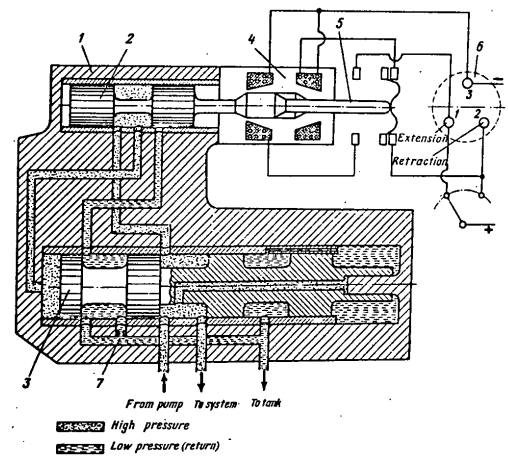


Fig. 139. Operation of Two-Position Slide Valve PA-2I. Diagram.  
1 - housing; 2 - small slide valve; 3 - big slide valve; 4 - two-way electromagnet; 5 - microswitch; 6 - plug connector MP2013917; 7 - throttle, dia. 0.8 mm.

Note: Position of the slide valves and microswitch, illustrated in Fig. 139, corresponds to closed contact 1 (extension).

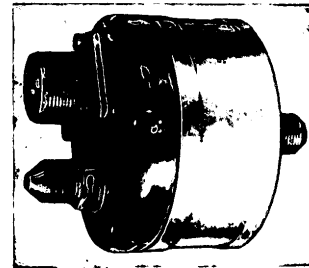


Fig. 140. Fuel Pressure Warning Mechanism  
ДСД-2

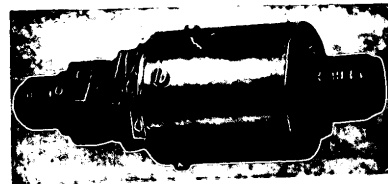


Fig. 141. Hydraulic Switch УТ34/1

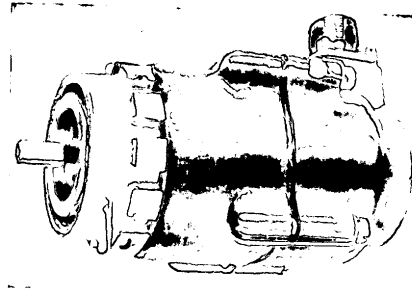


Fig. 142. Tachometer Generator DT-3. Drive End View

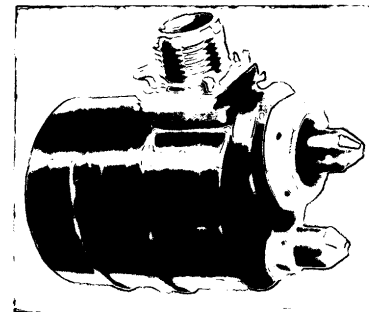


Fig. 143. Two Stage Gear Pressure Gear Mechanism 2413-103

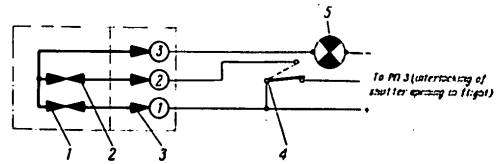


Fig.144. Oil Pressure Warning Mechanism. Key Diagram.  
1 - first stage contacts; 2 - second stage contacts; 3 - plug connector; 4 - control panel switch 2; 5 - pilot lamp.



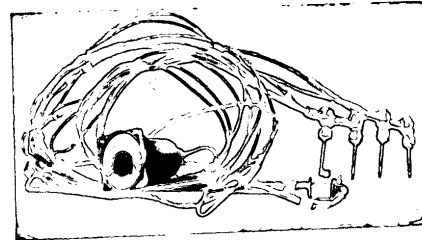
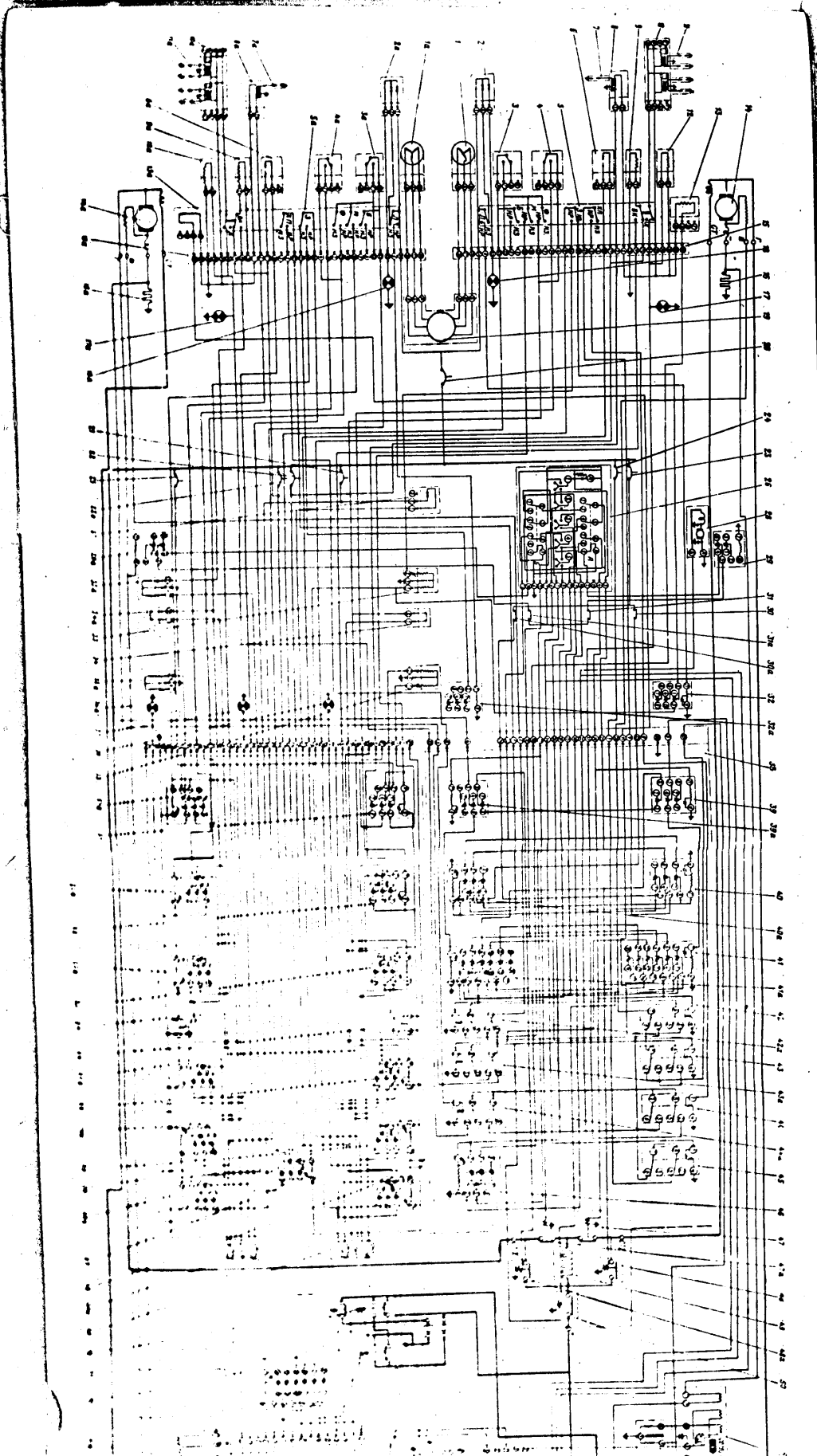
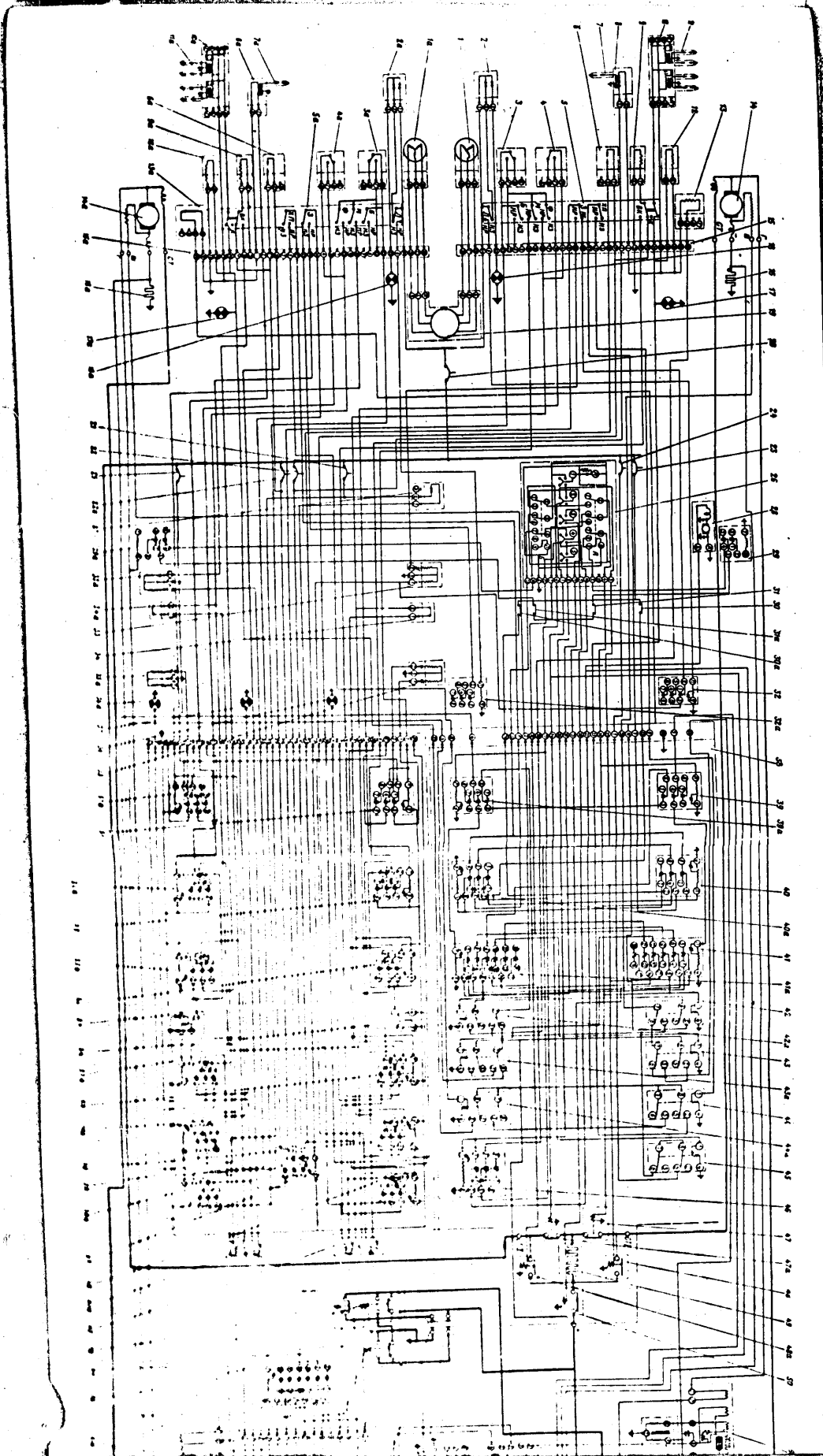


Fig. 145. Thermometer TBΓ-11









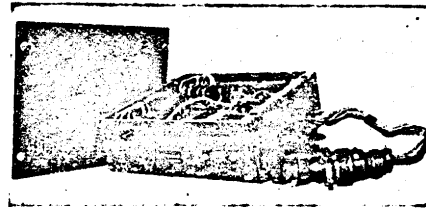


Fig. 147. Starter Control Unit IKC-6000E

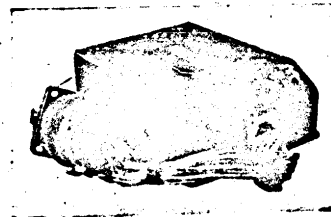
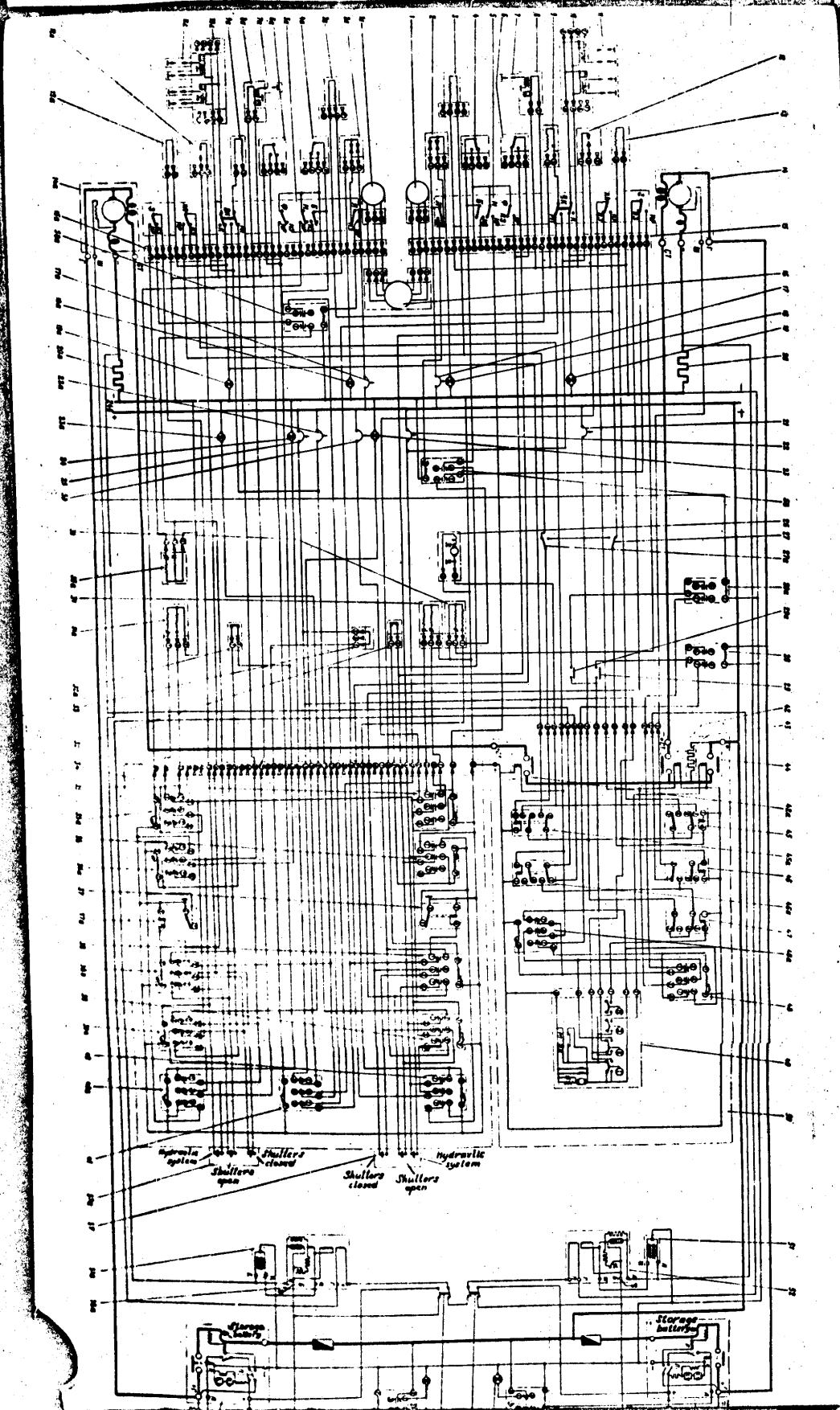
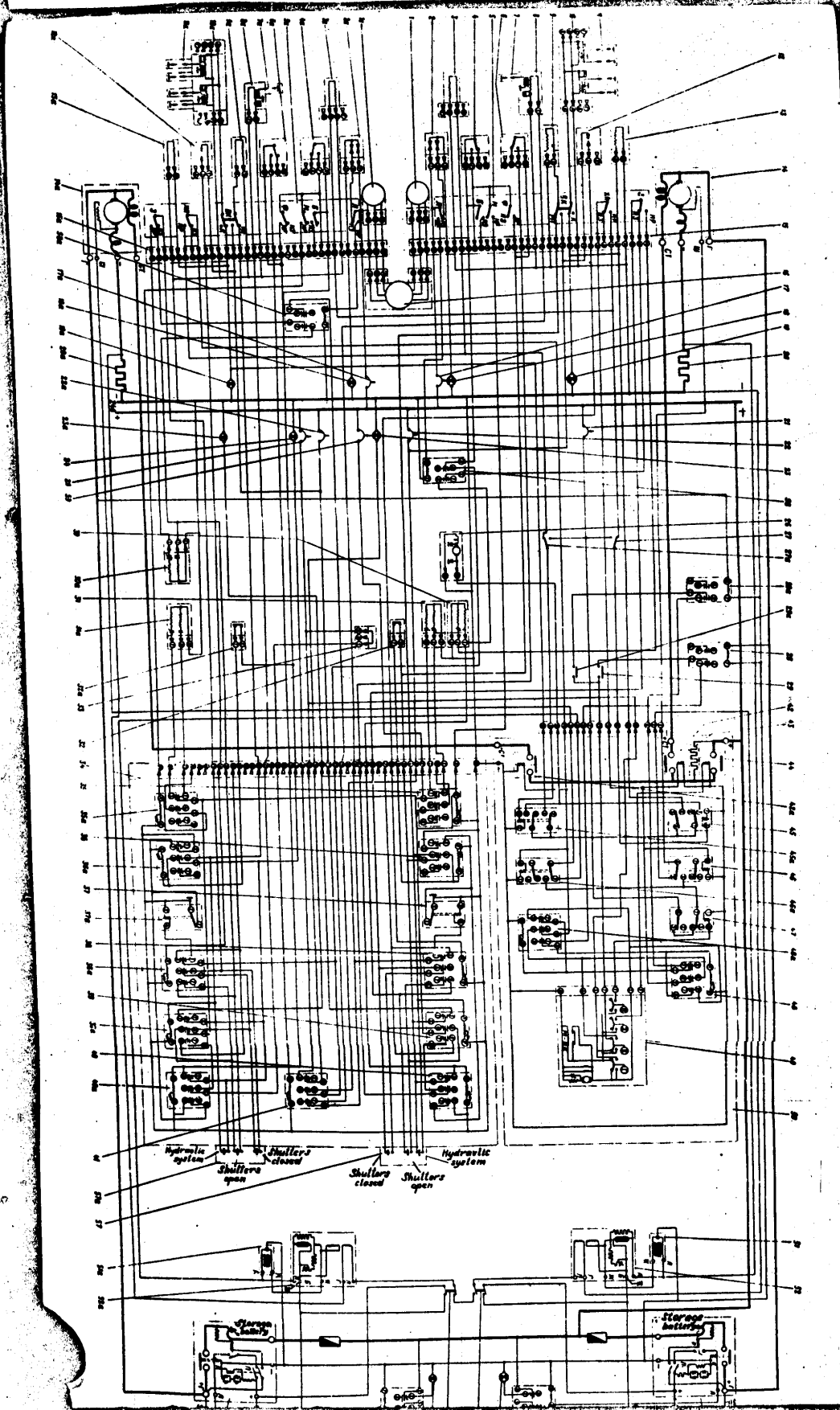


Fig. 148. Afterburner Control Unit KA-2









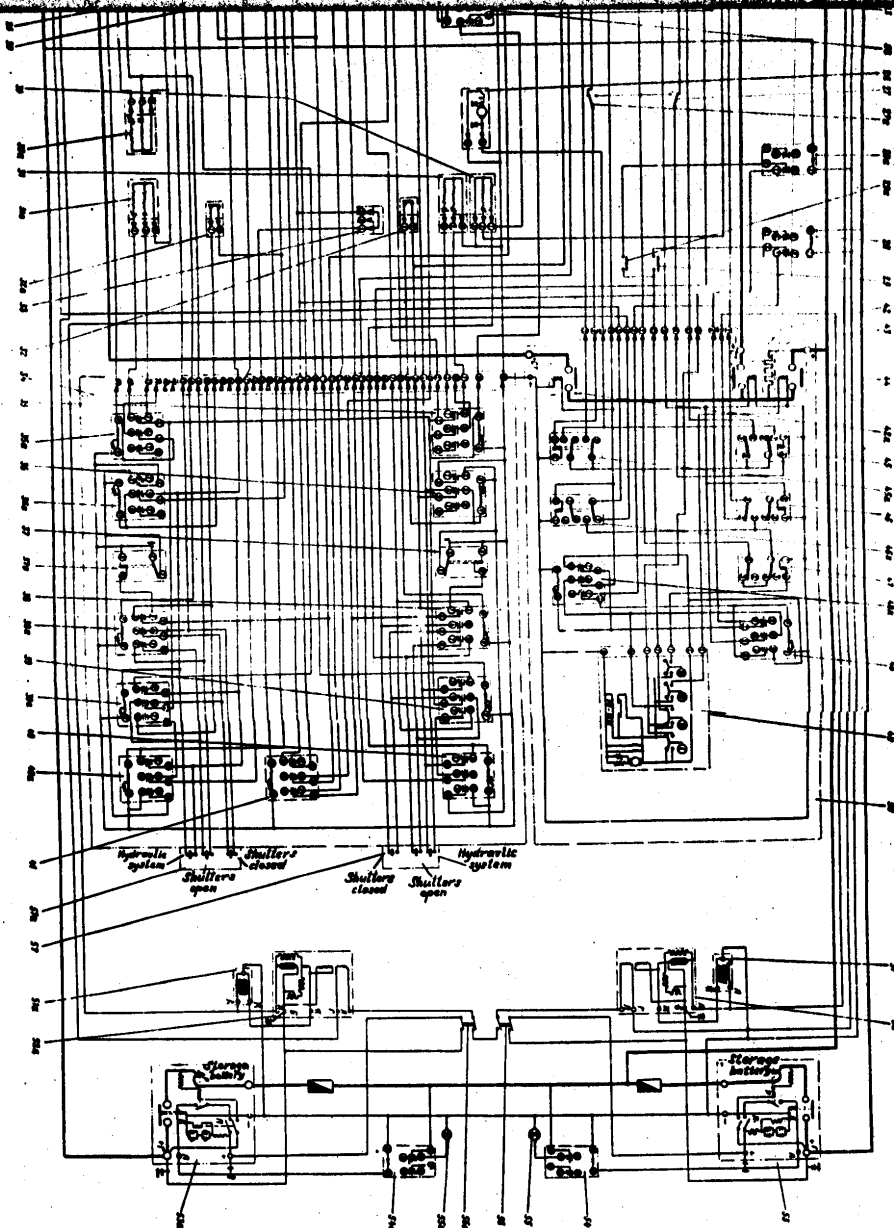


Fig. 125. Diagram of Engine Electric Equipment Operating on 24 V

1A - generator; 1B - 24 V generator; 2A - 24 V generator; 2B - 24 V generator; 3A - 24 V generator; 3B - 24 V generator; 4A - 24 V generator; 4B - 24 V generator; 5A - 24 V generator; 5B - 24 V generator; 6A - 24 V generator; 6B - 24 V generator; 7A - 24 V generator; 7B - 24 V generator; 8A - 24 V generator; 8B - 24 V generator; 9A - 24 V generator; 9B - 24 V generator; 10A - 24 V generator; 10B - 24 V generator; 11A - 24 V generator; 11B - 24 V generator; 12A - 24 V generator; 12B - 24 V generator; 13A - 24 V generator; 13B - 24 V generator; 14A - 24 V generator; 14B - 24 V generator; 15A - 24 V generator; 15B - 24 V generator; 16A - 24 V generator; 16B - 24 V generator; 17A - 24 V generator; 17B - 24 V generator; 18A - 24 V generator; 18B - 24 V generator; 19A - 24 V generator; 19B - 24 V generator; 20A - 24 V generator; 20B - 24 V generator; 21A - 24 V generator; 21B - 24 V generator; 22A - 24 V generator; 22B - 24 V generator; 23A - 24 V generator; 23B - 24 V generator; 24A - 24 V generator; 24B - 24 V generator; 25A - 24 V generator; 25B - 24 V generator; 26A - 24 V generator; 26B - 24 V generator; 27A - 24 V generator; 27B - 24 V generator; 28A - 24 V generator; 28B - 24 V generator; 29A - 24 V generator; 29B - 24 V generator; 30A - 24 V generator; 30B - 24 V generator; 31A - 24 V generator; 31B - 24 V generator; 32A - 24 V generator; 32B - 24 V generator; 33A - 24 V generator; 33B - 24 V generator; 34A - 24 V generator; 34B - 24 V generator; 35A - 24 V generator; 35B - 24 V generator; 36A - 24 V generator; 36B - 24 V generator; 37A - 24 V generator; 37B - 24 V generator; 38A - 24 V generator; 38B - 24 V generator; 39A - 24 V generator; 39B - 24 V generator; 40A - 24 V generator; 40B - 24 V generator; 41A - 24 V generator; 41B - 24 V generator; 42A - 24 V generator; 42B - 24 V generator; 43A - 24 V generator; 43B - 24 V generator; 44A - 24 V generator; 44B - 24 V generator; 45A - 24 V generator; 45B - 24 V generator; 46A - 24 V generator; 46B - 24 V generator; 47A - 24 V generator; 47B - 24 V generator; 48A - 24 V generator; 48B - 24 V generator; 49A - 24 V generator; 49B - 24 V generator; 50A - 24 V generator; 50B - 24 V generator; 51A - 24 V generator; 51B - 24 V generator; 52A - 24 V generator; 52B - 24 V generator; 53A - 24 V generator; 53B - 24 V generator; 54A - 24 V generator; 54B - 24 V generator; 55A - 24 V generator; 55B - 24 V generator; 56A - 24 V generator; 56B - 24 V generator; 57A - 24 V generator; 57B - 24 V generator; 58A - 24 V generator; 58B - 24 V generator; 59A - 24 V generator; 59B - 24 V generator; 60A - 24 V generator; 60B - 24 V generator; 61A - 24 V generator; 61B - 24 V generator; 62A - 24 V generator; 62B - 24 V generator; 63A - 24 V generator; 63B - 24 V generator; 64A - 24 V generator; 64B - 24 V generator; 65A - 24 V generator; 65B - 24 V generator; 66A - 24 V generator; 66B - 24 V generator; 67A - 24 V generator; 67B - 24 V generator; 68A - 24 V generator; 68B - 24 V generator; 69A - 24 V generator; 69B - 24 V generator; 70A - 24 V generator; 70B - 24 V generator; 71A - 24 V generator; 71B - 24 V generator; 72A - 24 V generator; 72B - 24 V generator; 73A - 24 V generator; 73B - 24 V generator; 74A - 24 V generator; 74B - 24 V generator; 75A - 24 V generator; 75B - 24 V generator; 76A - 24 V generator; 76B - 24 V generator; 77A - 24 V generator; 77B - 24 V generator; 78A - 24 V generator; 78B - 24 V generator; 79A - 24 V generator; 79B - 24 V generator; 80A - 24 V generator; 80B - 24 V generator; 81A - 24 V generator; 81B - 24 V generator; 82A - 24 V generator; 82B - 24 V generator; 83A - 24 V generator; 83B - 24 V generator; 84A - 24 V generator; 84B - 24 V generator; 85A - 24 V generator; 85B - 24 V generator; 86A - 24 V generator; 86B - 24 V generator; 87A - 24 V generator; 87B - 24 V generator; 88A - 24 V generator; 88B - 24 V generator; 89A - 24 V generator; 89B - 24 V generator; 90A - 24 V generator; 90B - 24 V generator; 91A - 24 V generator; 91B - 24 V generator; 92A - 24 V generator; 92B - 24 V generator; 93A - 24 V generator; 93B - 24 V generator; 94A - 24 V generator; 94B - 24 V generator; 95A - 24 V generator; 95B - 24 V generator; 96A - 24 V generator; 96B - 24 V generator; 97A - 24 V generator; 97B - 24 V generator; 98A - 24 V generator; 98B - 24 V generator; 99A - 24 V generator; 99B - 24 V generator; 100A - 24 V generator; 100B - 24 V generator.

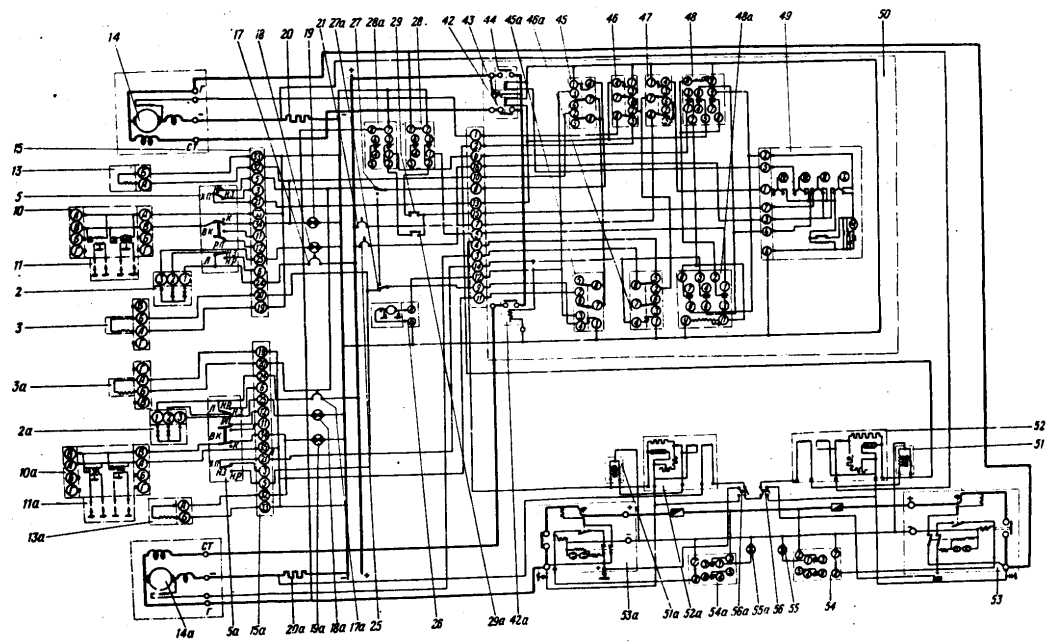


Fig.150. Electric Diagram of Starting System Operating on 24 V  
(For reference See see Fig.149)

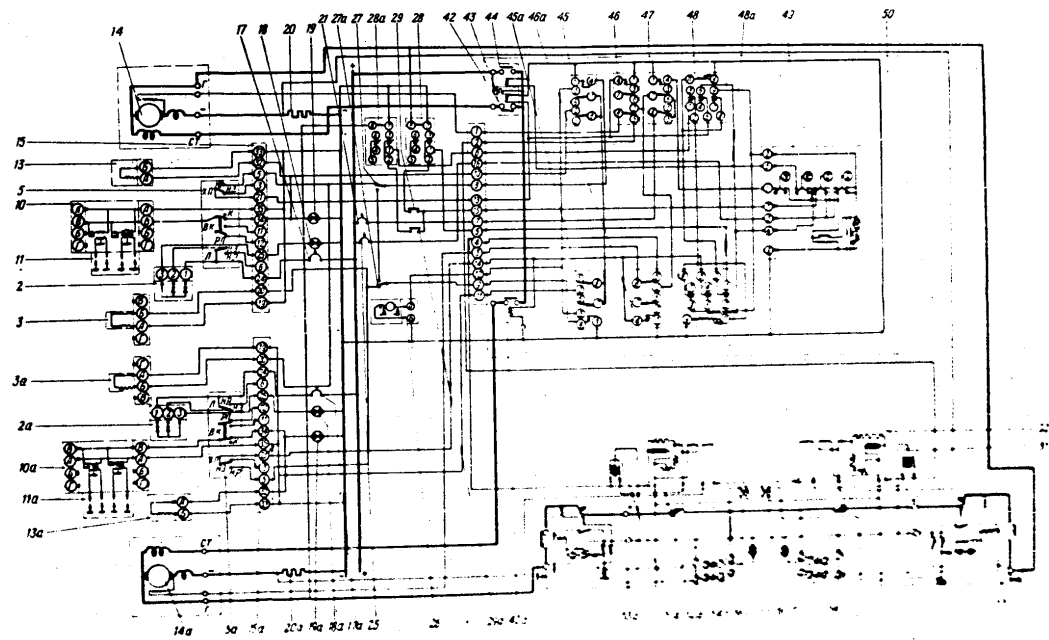


FIG. 150. Electric Diagram of Starting Motor Operating on 24 V  
(For reference See see FIG. 149)

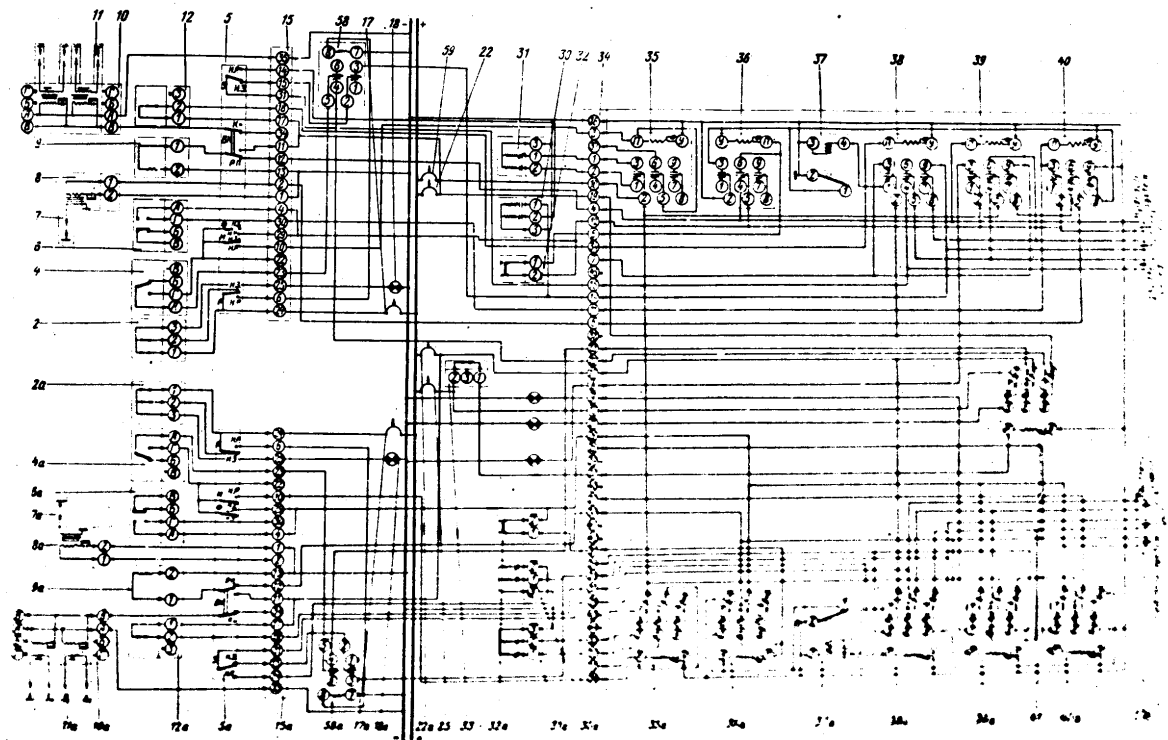


Fig. 151. Electric Diagram showing Connections of Mainline and Auxiliary Batteries from 2a 9  
(For reference see also Fig. 149)

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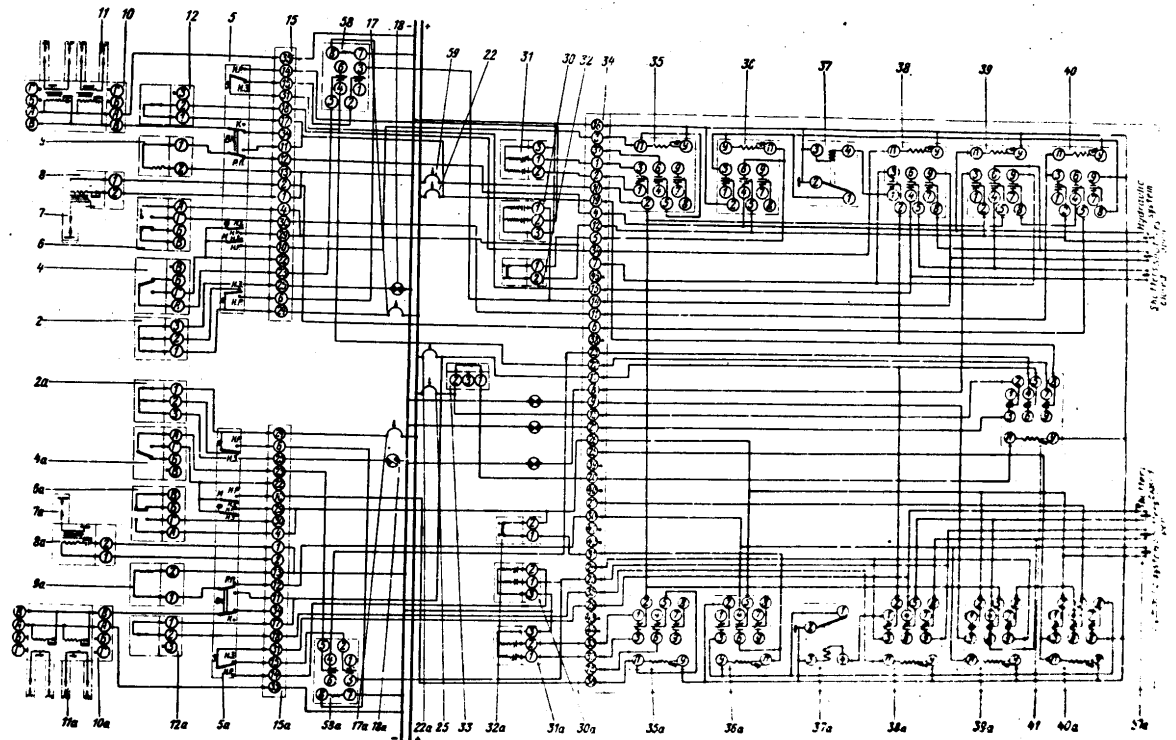


Fig. 151. Electric Diagram Showing Cutting-In of Maximum and Augmented Ratings from 24 V  
(For reference Nos see Fig. 149)

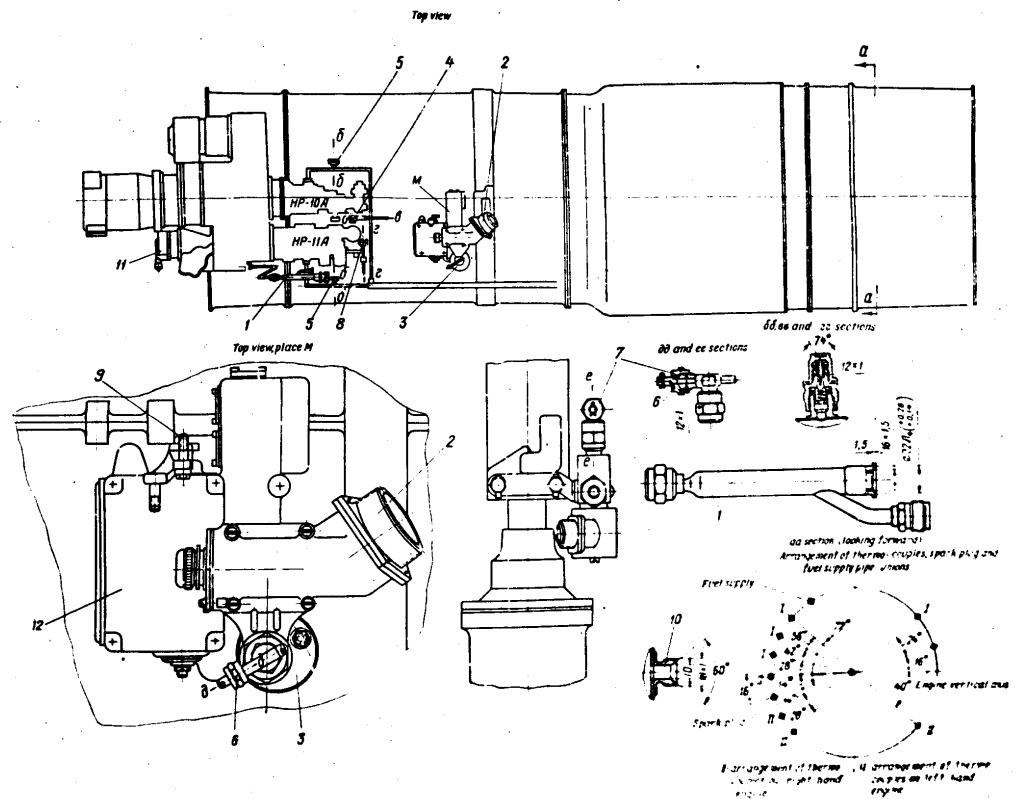


Fig. 192. Arrangement of Measuring Equipment  
 1 - oil temperature gauge at engine inlet; 2 - plug connector of control panel; 3 - oil pressure warning mechanism; 4 - oil pressure gauge (at engine inlet); 5 - pressure gauge measuring main fuel pressure aft of HP-10A pump; 6 - pressure gauge measuring fuel pressure in low-pressure line; 7 - starting fuel pressure gauge; 8 - afterburner fuel pressure gauge; 9 - point of aircraft link connection; 10 - thermo-couple mounting place; 11 - tachometer generator; 12 - control panel.

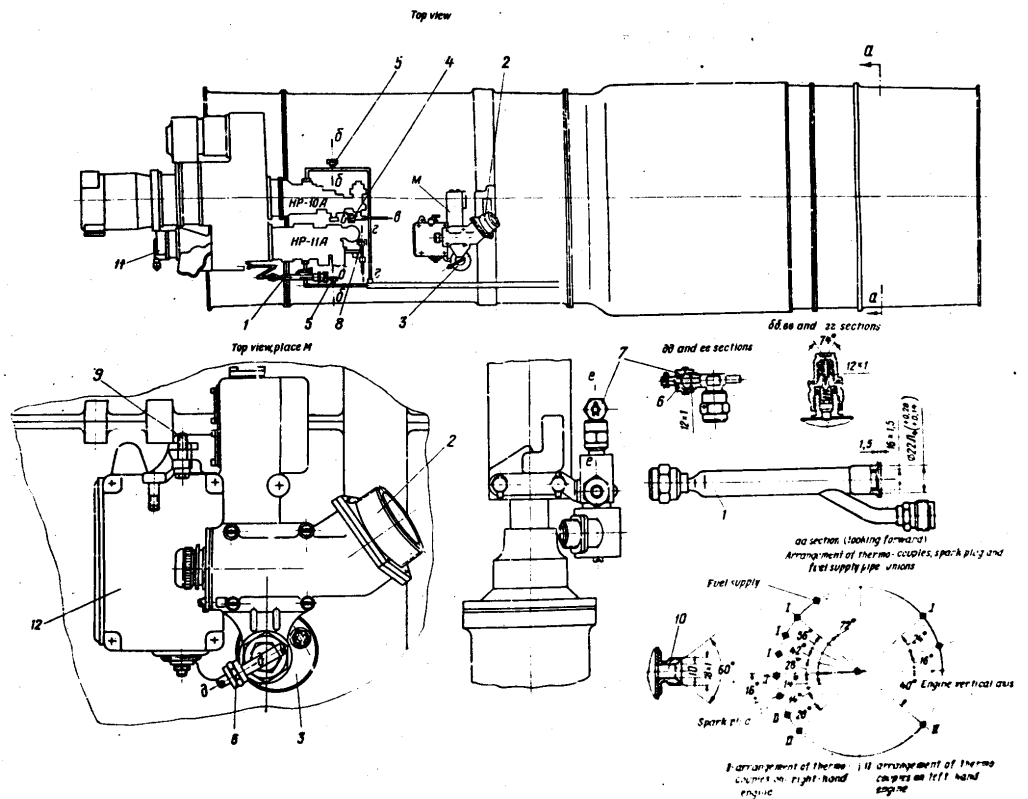


Fig. 152. Arrangement of Measuring Equipment

1 - oil temperature gauge at engine inlet; 2 - plug connector of control panel; 3 - oil pressure warning mechanism 2025-1.5-3 (at engine inlet); 4 - pressure gauge measuring main fuel pressure aft of HP-10A pump; 5 - pressure gauge measuring fuel pressure in low-pressure line; 6 - oil pressure gauge at engine inlet; 7 - starting fuel pressure gauge; 8 - after-start fuel pressure gauge; 9 - point of aircraft link connection; 10 - thermo-couple mounting place; 11 - tachometer generator TI-3; 12 - control panel



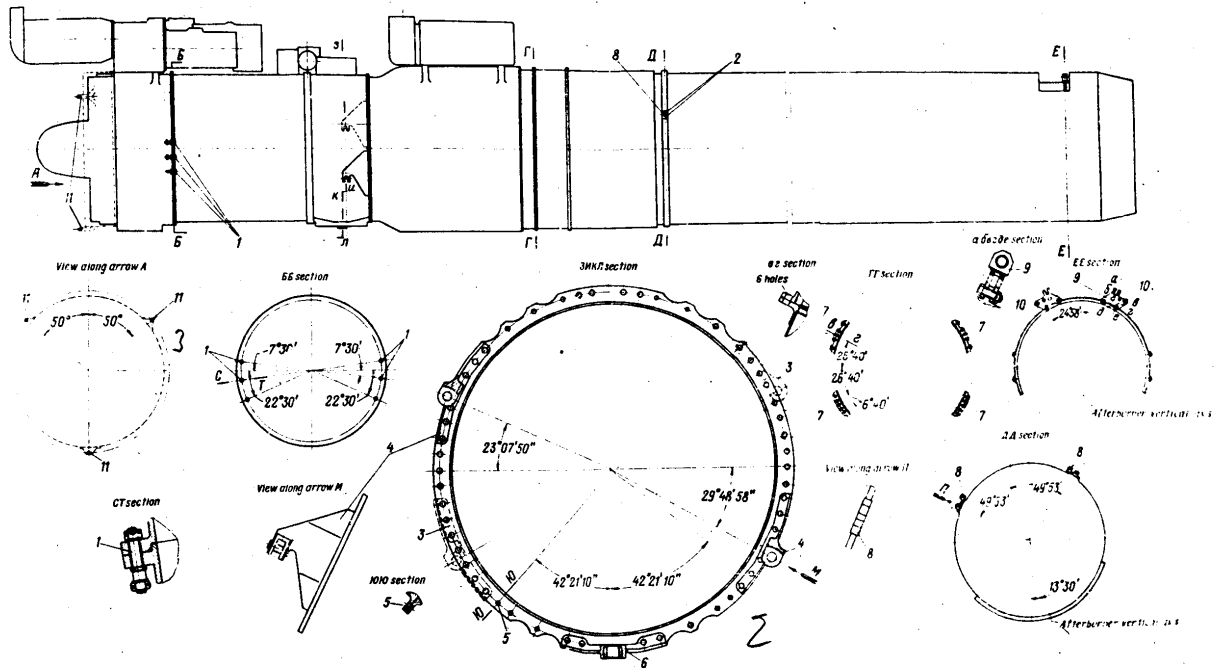
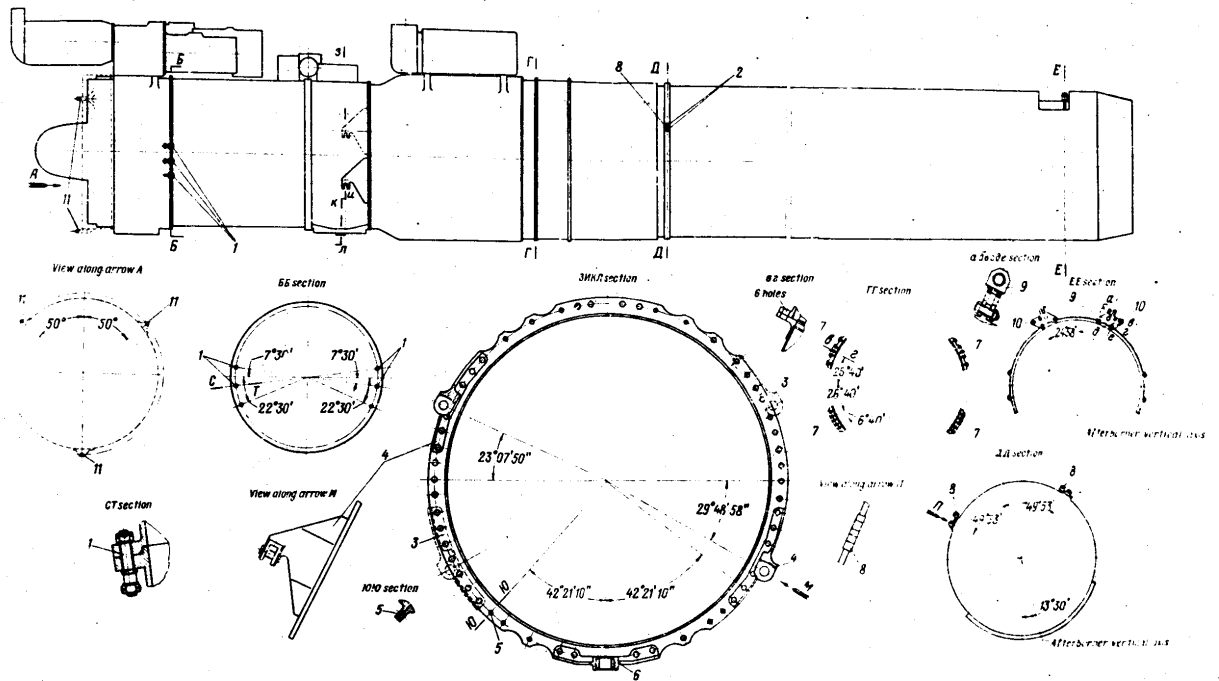


Fig. 159. Engine Mounting Diagram  
 1 - shipping and rigging bolts at inlet housing-to-middle housing joint; 2 - shipping bolts; 3 - engine attachment side bracket (right-hand); 4 - engine attachment side bracket (left-hand); 5 - hole for engine mounting on aircraft; 6 - engine attachment lower bracket; 7 - shipping and rigging holes at nose assembly joint; 8 - plates for mounting afterburner shipping and rigging fixtures; 9 - afterburner attachment brackets; 10 - shipping holes; 11 - dowels (aircraft) for engine attachment.



**Fig. 153. Engine Mounting Diagram**  
 1 - shipping and rigging bolts at inlet housing-to-middle housing joint; 2 - shipping bolts; 3 - engine attachment side bracket (right-hand); 4 - engine attachment side bracket (left-hand); 5 - hole for engine mounting on aircraft; 6 - engine attachment lower bracket; 7 - shipping and rigging holes at nozzle assembly joint; 8 - plates for mounting afterburner shipping and rigging fixtures; 9 - afterburner attachment brackets; 10 - shipping holes; 11 - dowels (aircraft) for engine attachment.

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