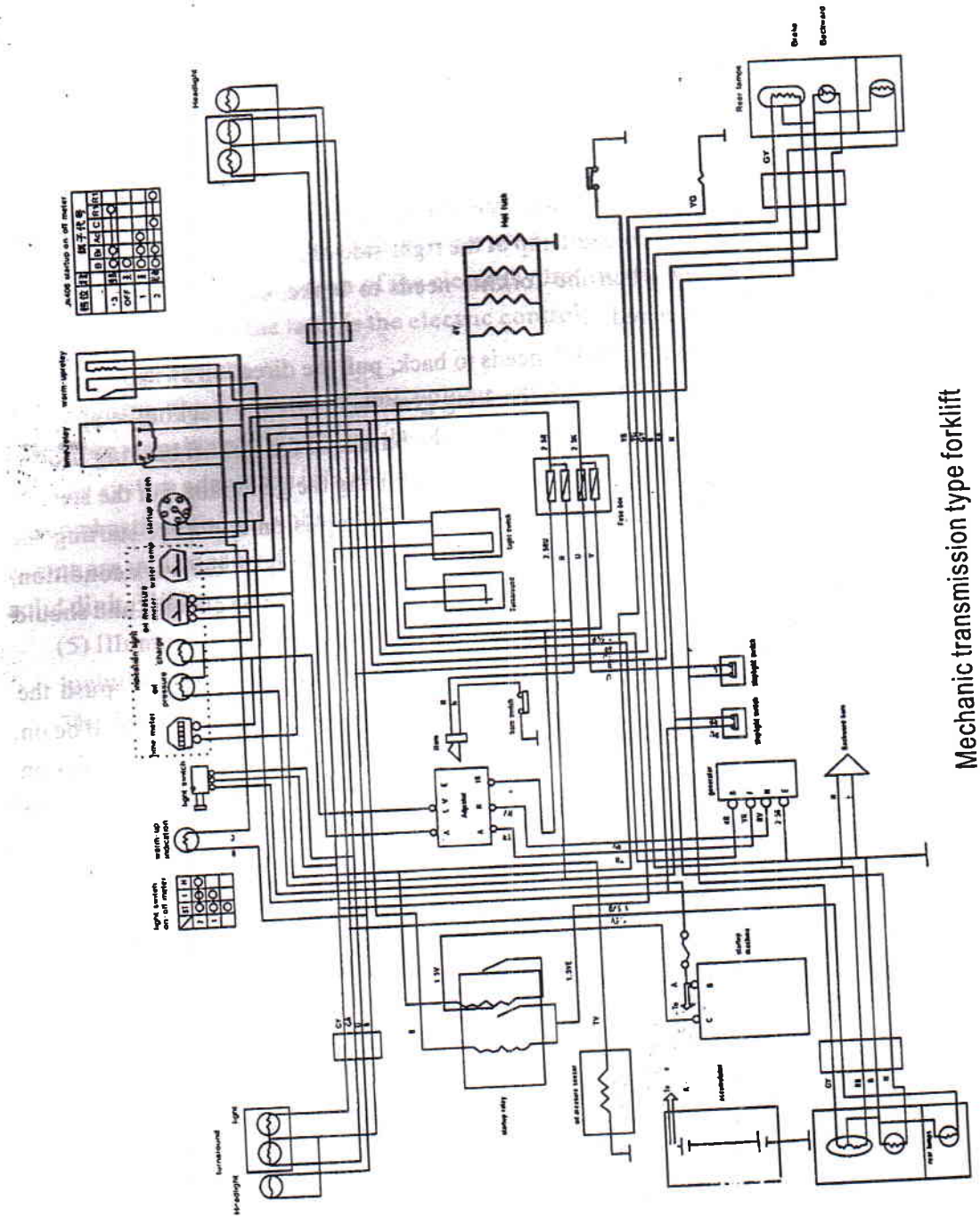
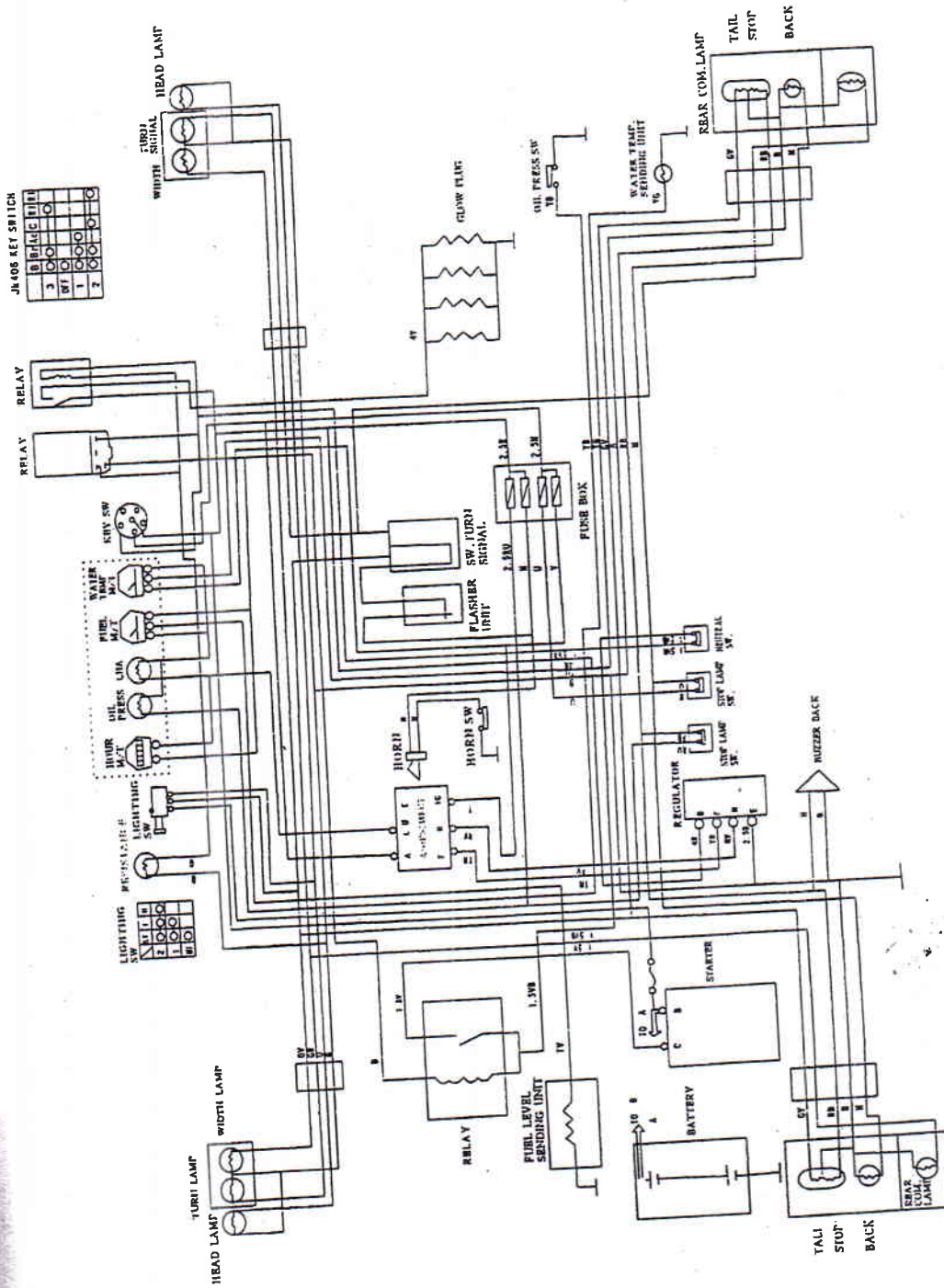


The main parameter for Diesel machine

Parameter \ Model	C240	4JG2	490BPG	495BPG
Model	four stroke, water cool, straight arrangement, preset air gate		four stroke, water cool, straight arrangement	
NO. of cylinder-diameter*distance	4. 86*102	~~4. 95. 4*107~~	4. 90*100	4-95*105
Total discharge	2. 369	3. 095	2. 54	2. 977
The ratio for compress	21. 3	21. 3 to 1	18	18. 5
Rated power/rotate speed kw(ps)/rpm	34. 5 (47) 2500	46. 3 (62) 2400	37/2650	47. 8/2650
Rated torque/rotate speed N.m(kg.m)/rpm	139 (14. 2) /1800	191 (141) /1800	148/1800-1900	180. 2/2000-2200
The minimum rotate speed without load rpm	700±25	700±25	800±25	800±25
The minimum consumption rate for flaming fuel g/ps. h	≤215	≤215	≤238	≤238
Length*width*height mm	698*561*667	710*555*733	751*565*704	696*541*696
Weight kg	252	244	260	260
The direction of twisting	clockwise			
The cooling system	water cooling			
The lubrication system	Forced lubrication			
Battery voltage/capacity	12V/100HZ			
Lubrication fuel	3. 8			
Cooling water	4. 6			



Mechanic transmission type forklift



Hydrodynamic transmission type forklift

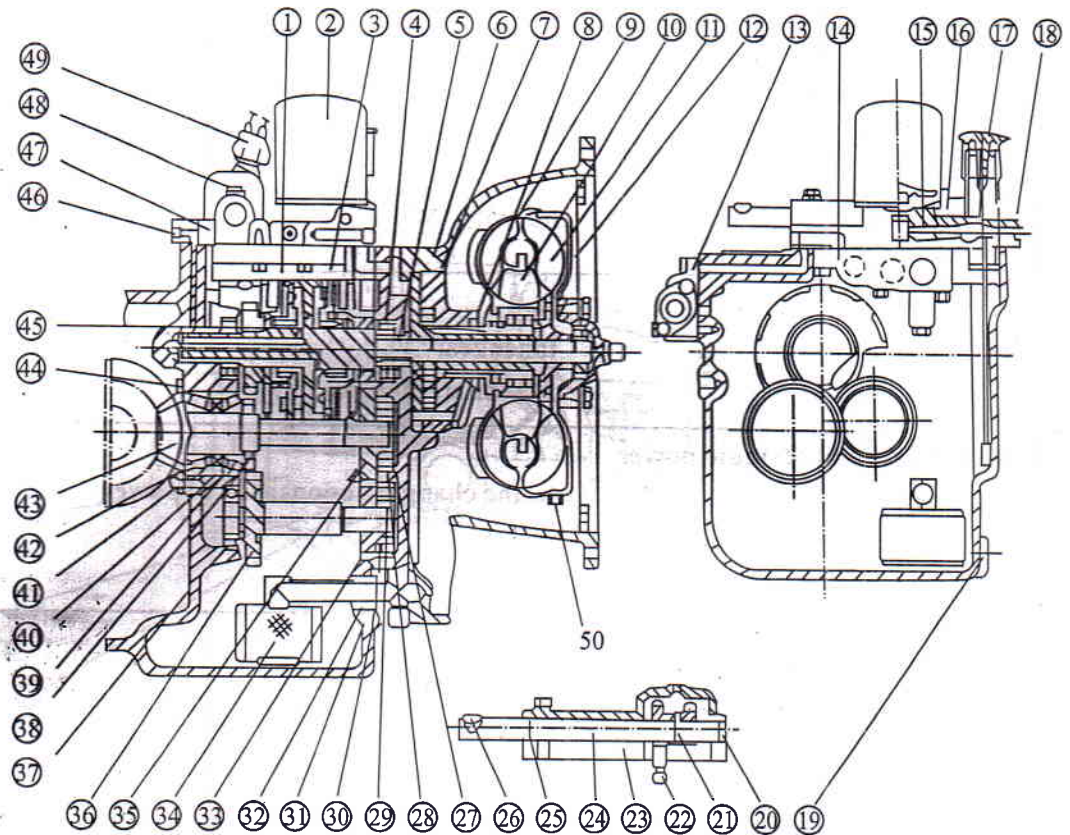


Fig 5-1 Hydranlic Transmission

- | | | |
|----------------------------------|------------------------------------|-------------------------------------|
| 1.forward clutch | 18. safety valve cover | 35. output gear |
| 2.filter | 19. inner-hexagoned plug | 36. idler shaft |
| 3.backward clutch | 20. plug | 37. single row radial ball bearing |
| 4.single row radial ball bearing | 21. spring pin | 38. nut for bearing |
| 5.seal ring | 22. shift arm | 39. single row tapered roll bearing |
| 6. "o" ring | 23. transmission case cover | 40. "O" ring |
| 7.chfarging pump | 24. shift arm shaft | 41. oil seal |
| 8.oil seal | 25. "O" ing | 42. single row tapered roll bearing |
| 9.impeller | 26. half-round key | 43. output |
| 10.stator | 27. clip ring for hole | 44. supporting piece |
| 11.turbine | 28. single row radial ball bearing | 45. single row radial ball bearing. |
| 12.spring plate | 29. single row radial ball bearing | 46. inner-hexagoned plug |
| 13.inching valve | 30. "O" ring | 47. transmission case cover |
| 14.control valve | 31. clip ring | 48. mounting bolt |
| 15.piston | 32. "O" ring | 49. reverse lamp switch |
| 16.spring | 33. idler | 50. oil drain plug |
| 17.oil inlet cover | 34. oil filter | |

5.7 The hydraulic oil path (the hydraulic gearing)

After the generator starts, the oil feed pump takes out the oil from oil tank (the bottom of transmission case shell) through the oil filter and the oil flows through the controlling valve, dividing the pressure oil into two parts in the valve: the one part is for the hydraulic separator, the other is to supply oil to torque-converter.

The oil needed by the hydraulic separator flows into the fixed pressure valve (the pressure is set to 1.1-1.4Mpa), the oil from the fixed pressure valve further flows to the inching valve and controlling valve, on the other hand, the oil is also supplied to the leaf wheel of torque-converter through flowing valve, the oil from torque-converter is cooled through the oil radiator, then the lubricant hydraulic separator then return to the oil tank.

During the neutral gear, the oil way from the controlling valve to separator is close, at this moment the fixed pressure valve opens and transmits the oil to the torque converter completely through the overflowing valve. When the controlling valve is in the forward and backward position, the oil circuit from the selector to the forward separator or backward separator was integrated so that each separator can work respectively. When a separator works, the parting slip and the friction plate of the other separator are in the isolated condition and are lubricated by the cooling oil and carried away the heat. When the inching pedal operates the inching valve, a small part or a large part of the oil of the separator is sent to the oil tank through the inching valve rod, at that time the oil circulation of the torque-converter is the same during the neutral gear.

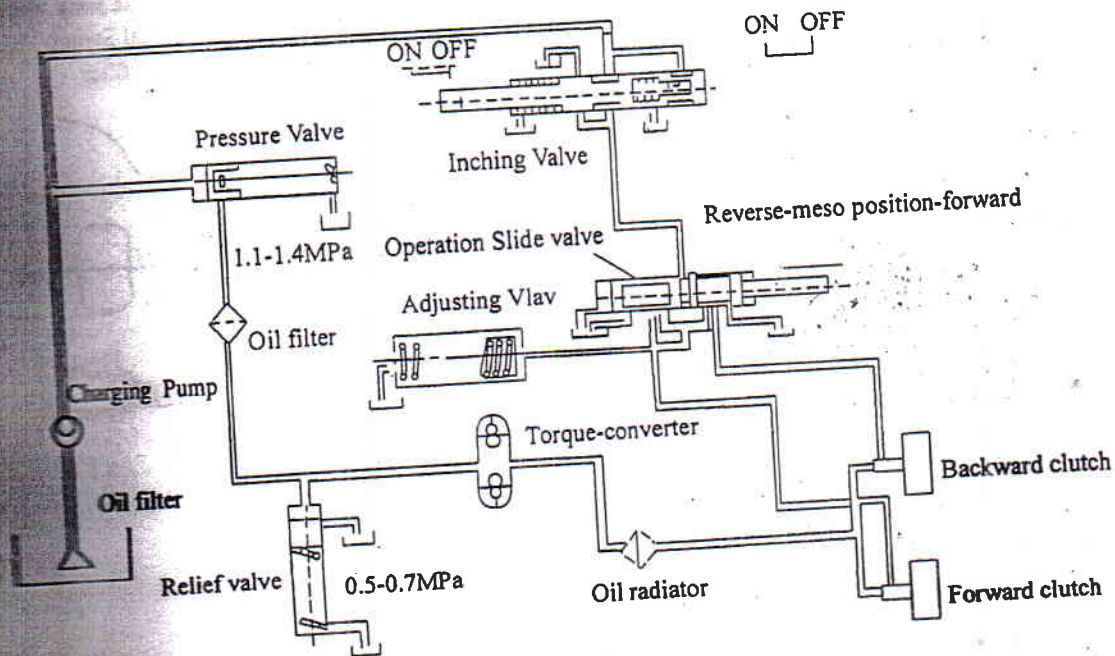


Fig 5-7 Hydraulic Circuit

5.8 Drag the forklift to be repaired

When the hydraulic driven forklift is damaged, it needs to be towed by other cars, Pay attention to the following things:

- (1) The semi-axis should be taken down from the front wheel
- (2) The shifting rod should be set to neutral position

5.9 The linking position of oil outlet, the oil pressure and the measurement of oil temperature (see the picture of 5-8)

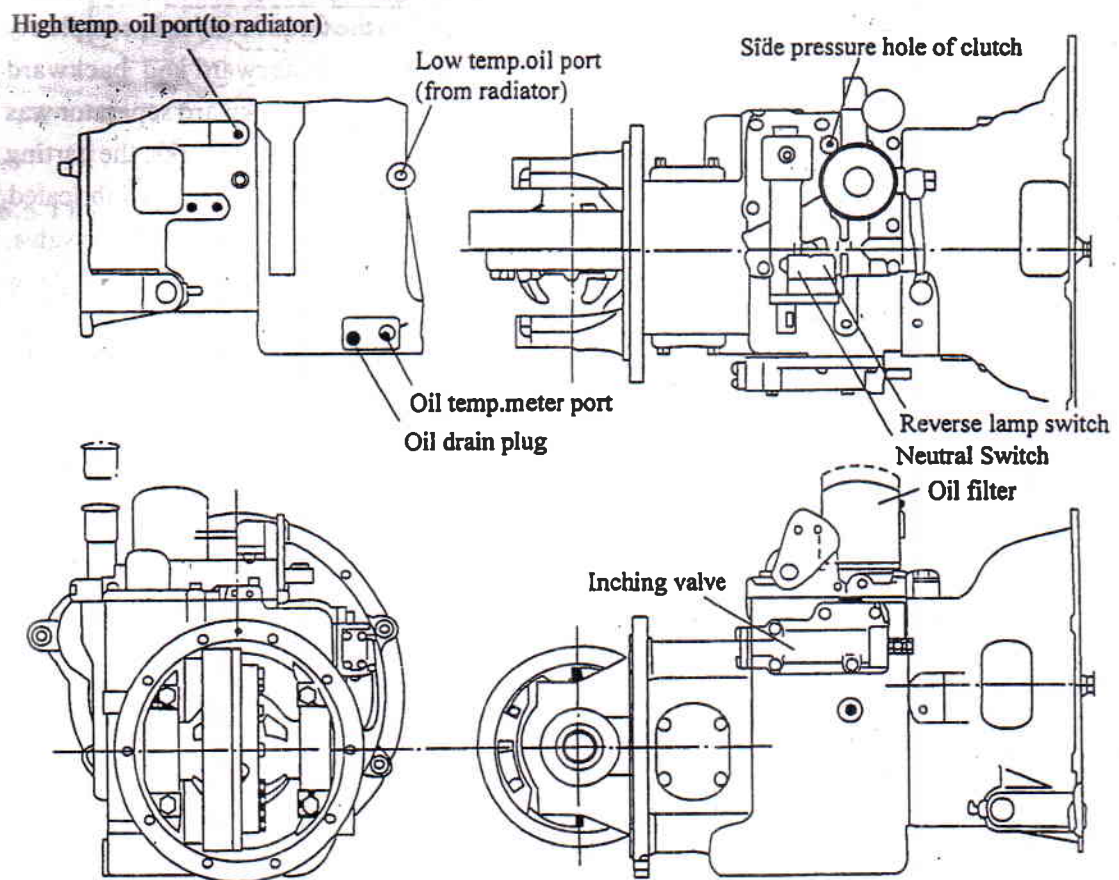


Fig 5-8 Oil temperature and oil pressure survey

1. brake wheel cylinder assembly
2. spring
3. cup ring
4. piston
5. wheel cylinder shell
6. piston mandrill
7. brake shoe return spring
8. friction plate
9. spring
10. hand brake push rod
11. spring mechanism
12. brake shoe
13. compression spring seat
14. compressor spring pull rod
15. compressor spring
16. spring
17. detent
18. spring
19. clearance adjuster assembly
20. pin
21. Soleplate
22. break shoe return spring
23. hand brake pull rod
24. brake cable assembly

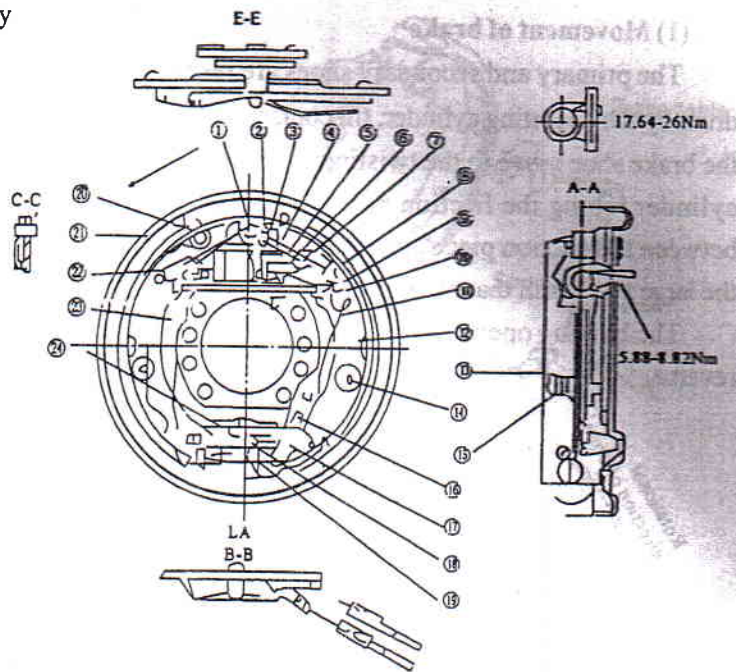


Fig.9-5 Wheel Brake for 3 and 3.5 Ton Trucks

1. wheel cylinder piston mandrill
2. hood shield
3. piston
4. spring
5. leather cup
6. wheel cylinder body
7. assist-brake shoe
8. brake shoe return spring
9. spring
10. handbrake pull rod
11. spring mechanics
12. compressor spring pull rod
13. compressor spring seat
14. spring
15. return spring
16. detent
17. spring
18. clearance adjuster
19. "E" check ring
20. parking brake cable
21. compressor spring pull rod
22. compressor spring seat
23. hand brake pull rod
24. main brake shoe
25. return spring

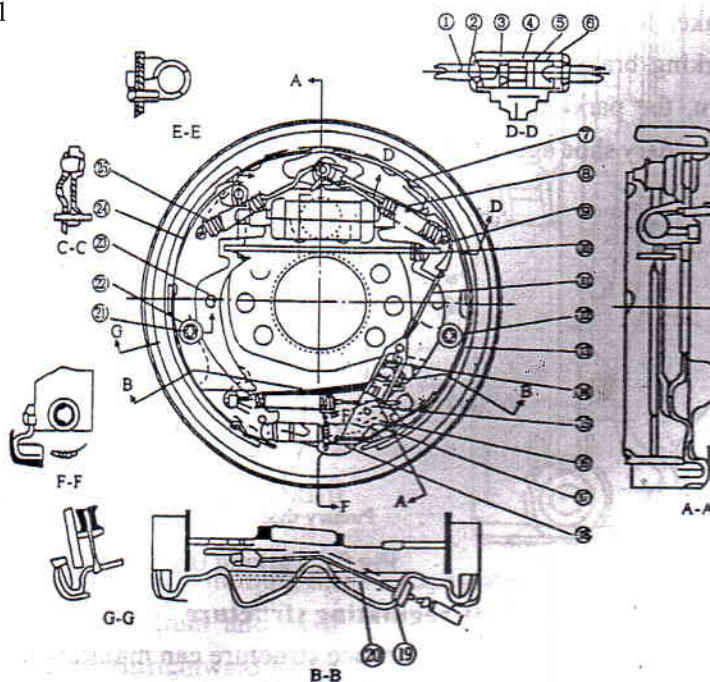


Fig.9-6 Wheel Brake for 1 and 1.8 Ton Trucks (Left)