CRAWLER EXCAVATOR

# SERVICE MANUAL

## *R28-7*

HYUNDAI

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| Description | | | Unit | Robex28-7 | |
|---|---|---|---|---|---|
| Machine weight | Canopy | Rubber shoe | Kg | 2750 | |
| | | Steel shoe | | 2760 | |
| | Cabin | Rubber shoe | | 2660 | |
| | | Steel shoe | | 2670 | |
| Standard bucket | Capacity | | $m^3$ | 0.07 | |
| | Width | | mm | 450 | |
| Engine | Maker, model | | | MITSUBISHI S3L2 | |
| | Rated power | | ps(kW)/$min^{-1}$ | 24.1(17.7)/2100 | |
| | Displacement | | cc | 1318 | |
| Working range | Arm length | | mm | 1165(std.) | 1465(long) |
| | Max.digging depth | | | 2610 | 2900 |
| | Max.vertical digging depth | | | 1870 | 2140 |
| | Max.digging height | | | 4380 | 4575 |
| | Max.dumping height | | | 3020 | 3220 |
| | Max.digging reach | | | 4590 | 4830 |
| | Min.swing radius | Front | | 1890 | 1950 |
| | | Swing | | 1530 | 1580 |
| | Rear end radius | | | 1350 | |
| | Boom swing angle | | deg | Left80/Right50 | |
| Dimension | Overall length | | mm | 4420 | |
| | Overall width | | | 1470 | |
| | Overall height | | | 2385 | |
| | Dozer(width × height) | | | 1470×300 | |
| Performance | Travel speed | | km/hr | 2.8/4.0 | |
| | Swing speed | | $min^{-1}$ | 10.3 | |
| | Gradeability | | deg(%) | 30(58) | |
| | Max.digging force | Bucket | kN(kgf) | 25.6(2610) | |
| | | Arm | | 15.6(1595) | |
| | Max. drawbar pull | | | 24.1(2460) | |
| Under-carriage | Ground pressure | Canopy&rubber shoe | kpa(kgf/$cm^2$) | 30.4(0.31) | |
| | | Cabin&rubber shoe | | 29.5(0.30) | |
| | Tumbler distance × track gauge | | mm | 1360×1150 | |
| | Track shoe width | | | 300 | |
| | Type of travelling motor | | | Piston shoe-in type | |
| | Crawler tension system | | | Grease cylinder | |
| Hydraulic | Type of hydraulic pump | | | Piston×2, Gear×1 | |
| | Pump oil flow | | ℓ/min | 2×33.6+22.1 | |
| | Auxiliary circuit oil flow | | | 55.7 | |
| | Relief valve setting pressure | | MPa(kgf/$cm^2$) | 20.6/17.2(210/175) | |
| Capacity | Hydraulic oil tank | | ℓ | 50.5 | |
| | Engine oil | | | 4.5 | |
| | Fuel tank | | | 42 | |
| | Cooling water | | | 5.5 | |
| Noise | Noise level(LwA/LpA) | | dB | 94/78 | |



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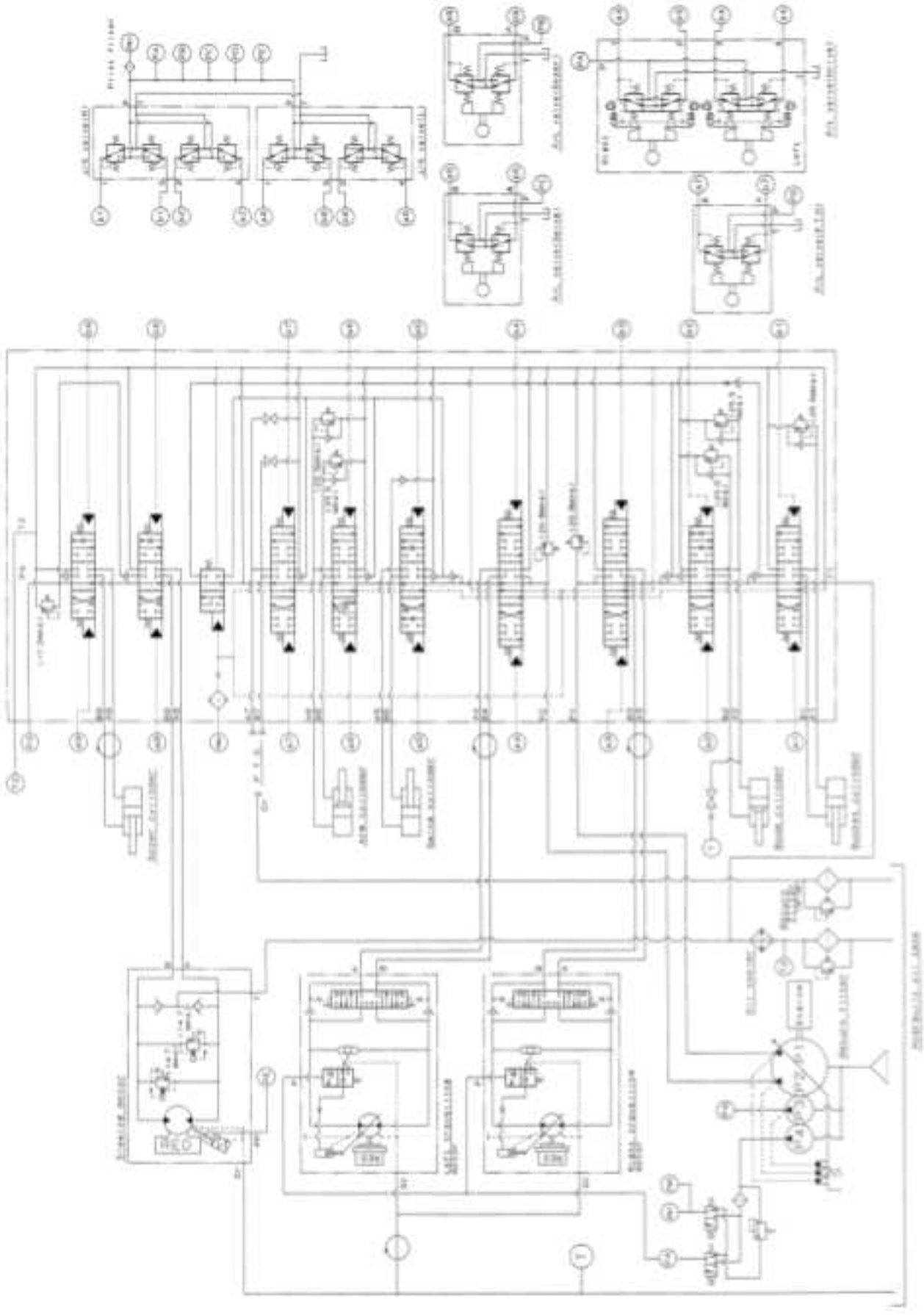
# 2 OUTLINE

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# 2-8 Hydraulic circuit diagram

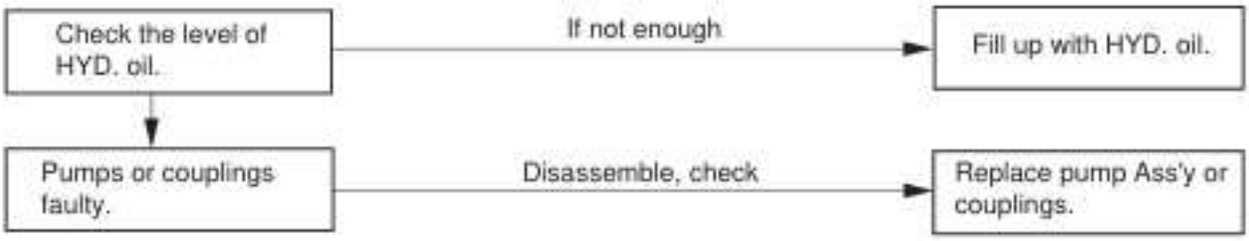




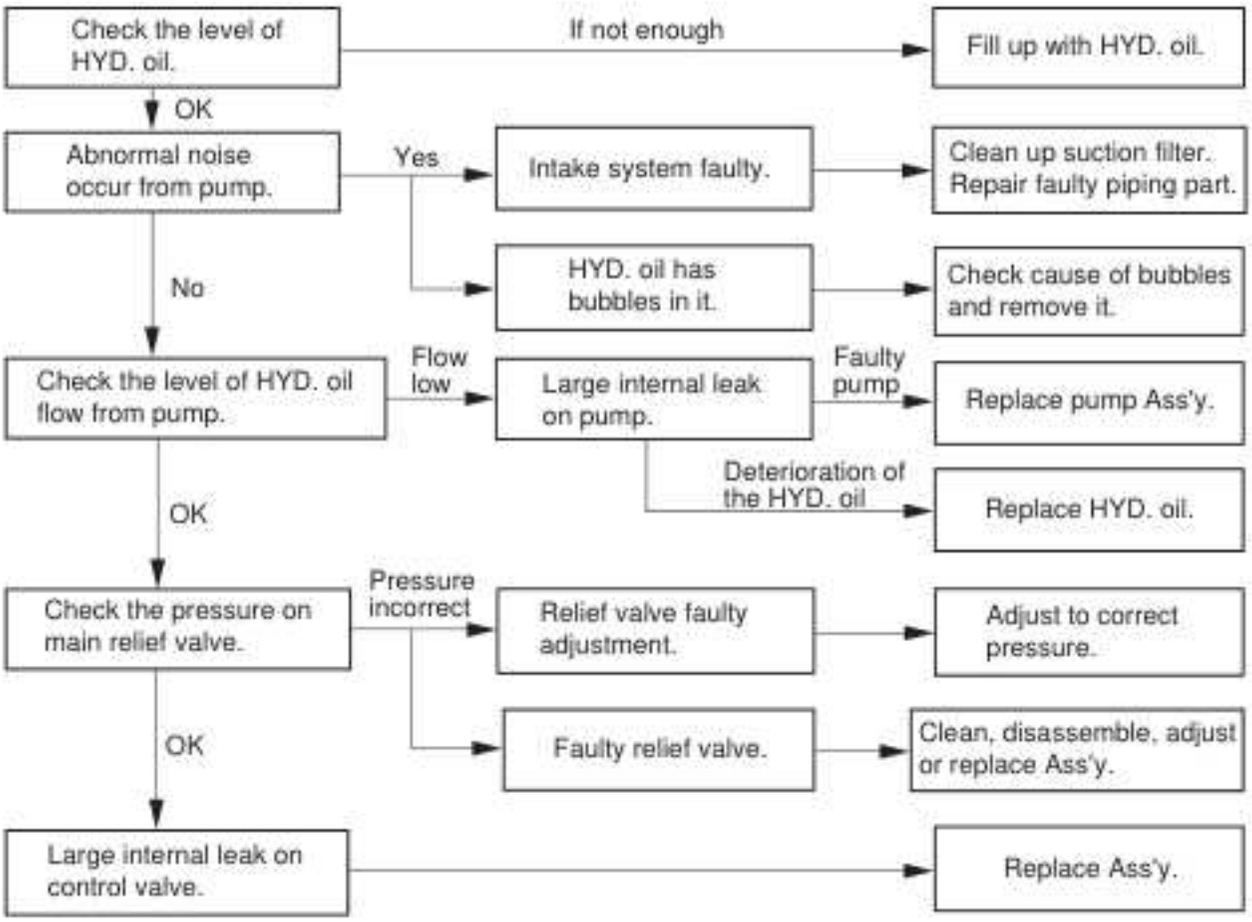
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# 23-1 Troubleshooting

## 23-1-1 All functions not operational




## 23-1-2 Operation power is weak






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