CRAWLER EXCAVATOR

SERVICE MANUAL

R25Z-9AK

HYUNDAI

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3) GEAR PUMP

Item	Specification
Type	Fixed displacement gear pump single stage
Capacity	8.5/4.5 cc/rev
Rated oil flow	19.6/10.4 ℓ /min (5.2/2.7 U.S. gpm / 4.3/2.3 U.K. gpm)

4) MAIN CONTROL VALVE

Item	Specification
Type	Sectional, 9 spools (12 blocks)
Operating method	Hydraulic pilot system
Main relief valve pressure : P1, P2 / P3	220 kgf/cm² (3130 psi) / 175 kgf/cm² (2490 psi)
Overload relief valve pressure	240 kgf/cm² (3410 psi)

5) SWING MOTOR

Item	Specification
Type	Fixed displacement axial piston motor
Capacity	12.5 cc/rev
Relief pressure	170 kgf/cm² (2420 psi)
Braking system	Automatic, spring applied hydraulic released
Braking torque	7.0 kgf · m (50.6 lbf · ft)
Brake release pressure	25–50 kgf/cm² (356–710 psi)
Reduction gear type	2 - stage planetary

6) TRAVEL MOTOR

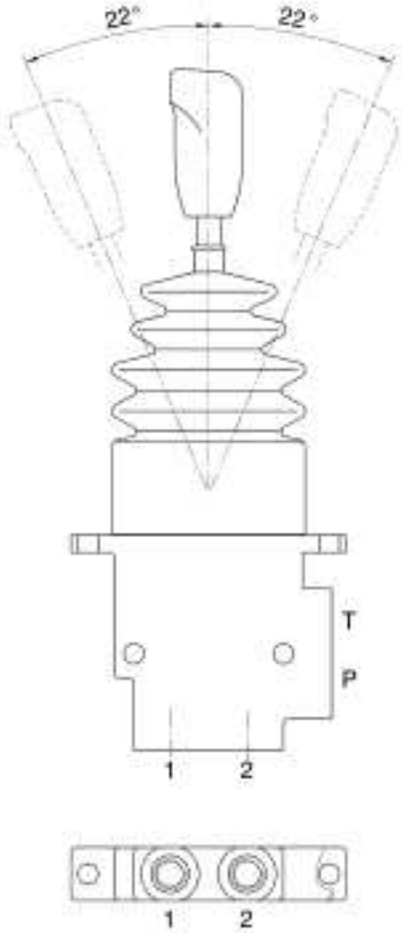
Item	Specification
Type	Variable displacement axial piston motor
Relief pressure	220 kgf/cm² (3130 psi)
Reduction gear type	2-stage planetary
Braking system	Automatic, spring applied hydraulic released
Brake release pressure	19 kgf/cm² (270 psi)
Braking torque	5.7 kgf · m (41 lbf · ft)

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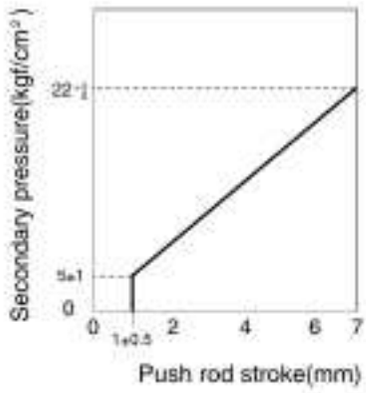
4. DOZER LEVER

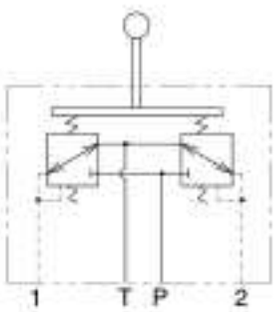
1) STRUCTURE

The casing has the oil inlet P (primary pressure) and the oil return port (tank).
In addition the secondary pressure is taken out through port 1 and port 2 provided at the housing bottom face.







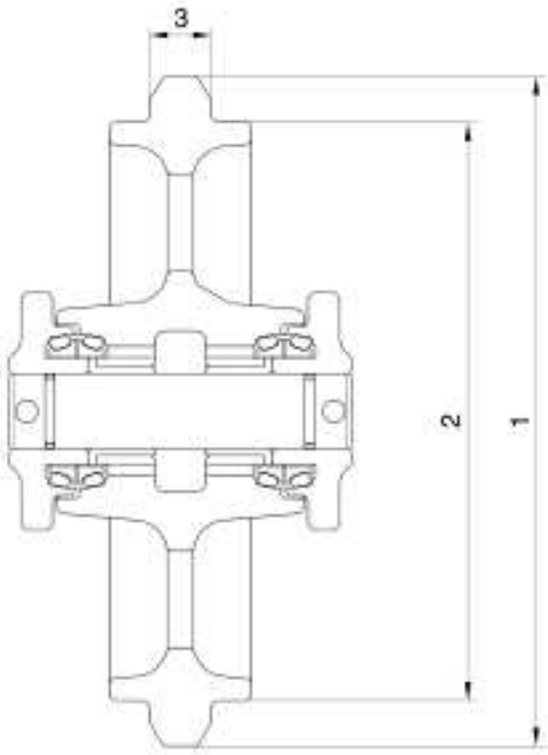


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Port	Port	Port size
P	Pilot oil inlet port	PF 1/4
T	Pilot oil return port	PF 1/4
1	Dozer blade up port	PF 1/4
2	Dozer blade down port	PF 1/4

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2. IDLER



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Unit : mm

No	Check item		Criteria		Remedy
			Standard size	Repair limit	
1	Outside diameter of flange	Rubber	311	-	Rebuild or replace
2	Outside diameter of thread	Rubber	269	263	
3	Width of flange		29	20.2	

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(4) Fit the O-ring (214) into the plug (221).



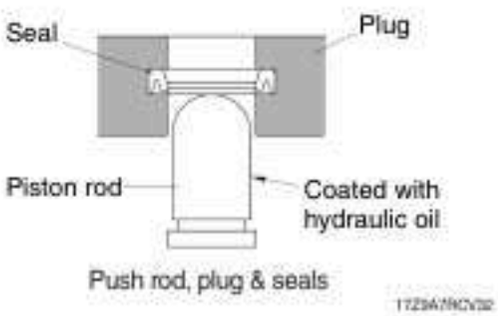
(5) Fit the seal (213) into the plug (211).

- Fit the lip of the seal (213) as shown right.



(6) Fit the push-rod (212) into the plug (211).

- Apply hydraulic oil to the surface of the push rod.







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(16) Place the ring (128) over the pre-load collars.



(17) Place the carrier 1 assembly into the body (101) align spline of carrier to the pinion shaft (104).



(18) Place the carrier 2 assembly into the body (101) align spline of S1 gear to the b1 gear.

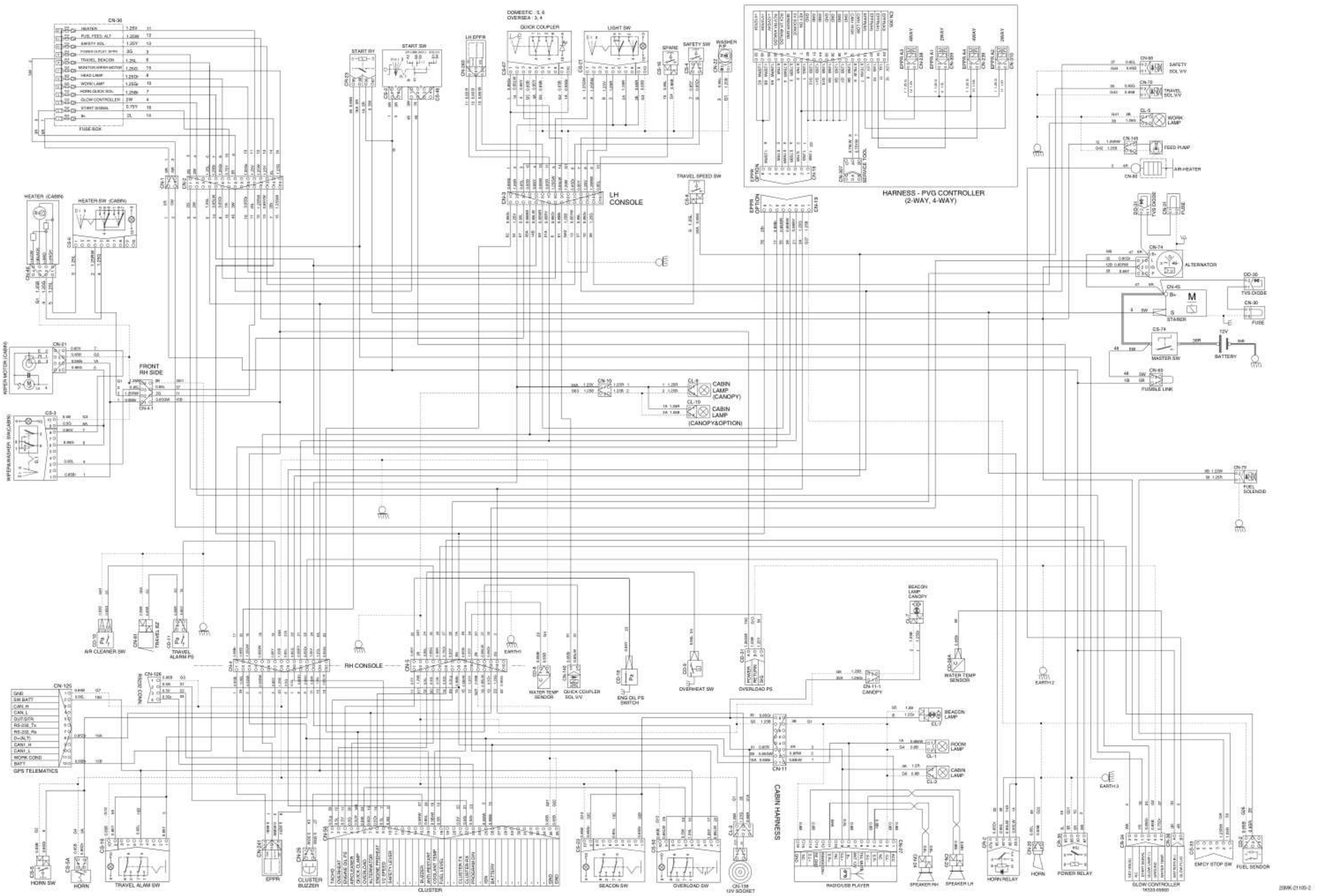


(19) Place the S2 gear (109) into the carrier 2 assembly.



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ELECTRICAL CIRCUIT (machine serial No. : #0159~)



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