CRAWLER EXCAVATOR

# SERVICE MANUAL

## *R210LC-7*

HYUNDAI

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### 9) SHOE

| Item | | Width | Ground pressure | Link quantity | Overall width |
|---|---|---|---|---|---|
| R210LC-7 | Standard | 600mm(24") | 0.46kgf/cm²(6.54psi) | 49 | 2990mm(9' 10") |
| | Option | 700mm(28") | 0.40kgf/cm²(5.69psi) | 49 | 3090mm(10' 2") |
| | | 800mm(32") | 0.35kgf/cm²(4.98psi) | 49 | 3190mm(10' 6") |
| R210LC-7 LONG REACH | Standard | 800mm(32") | 0.42kgf/cm²(5.97psi) | 49 | 3190mm(10' 6") |
| R210LC-7 HIGH WALKER | Standard | 600mm(24") | 0.49kgf/cm²(6.97psi) | 49 | 3395mm(11' 2") |
| | Option | 700mm(28") | 0.43kgf/cm²(6.12psi) | 49 | 3495mm(11' 6") |
| | | 800mm(32") | 0.38kgf/cm²(5.40psi) | 49 | 3595mm(11' 10") |
| | | ※ 710mm(28") | 0.43kgf/cm²(6.12psi) | 49 | 3505mm(11' 6") |

※ : Double grouser.

### 10) BUCKET

| Item | | Capacity | | Tooth quantity | Width | |
|---|---|---|---|---|---|---|
| | | PCSA heaped | CECE heaped | | Without side cutter | With side cutter |
| R210LC-7 | STD | 0.92m³(1.20yd³) | 0.80m³(1.05yd³) | 5 | 1130mm(44.5") | 1250mm(49.2") |
| | OPT | 0.51m³(0.67yd³) | 0.45m³(0.59yd³) | 3 | 700mm(27.6") | 820mm(32.3") |
| | | 0.80m³(1.05yd³) | 0.70m³(0.92yd³) | 5 | 1000mm(39.4") | 1120mm(44.1") |
| | | 1.20m³(1.57yd³) | 1.00m³(1.31yd³) | 6 | 1400mm(55.1") | - |
| | | 1.34m³(1.75yd³) | 1.15m³(1.50yd³) | 6 | 1550mm(61.0") | - |
| | | ◆0.74m³(0.97yd³) | 0.65m³(0.85yd³) | 5 | 915mm(36.0") | - |
| | | ◆0.90m³(1.18yd³) | 0.80m³(1.05yd³) | 5 | 1070mm(42.0") | - |
| | | ◆1.05m³(1.37yd³) | 0.92m³(1.20yd³) | 5 | 1220mm(48.0") | - |
| | | 0.87m³(1.14yd³) | 0.75m³(0.98yd³) | 5 | 1140mm(44.9") | - |
| | | ■0.75m³(0.98yd³) | 0.65m³(0.85yd³) | - | 1810mm(71.3") | - |

◆ : Heavy duty bucket
: Rock bucket(Heavy)
■ : Slope finishing bucket



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# SECTION 6 TROUBLESHOOTING


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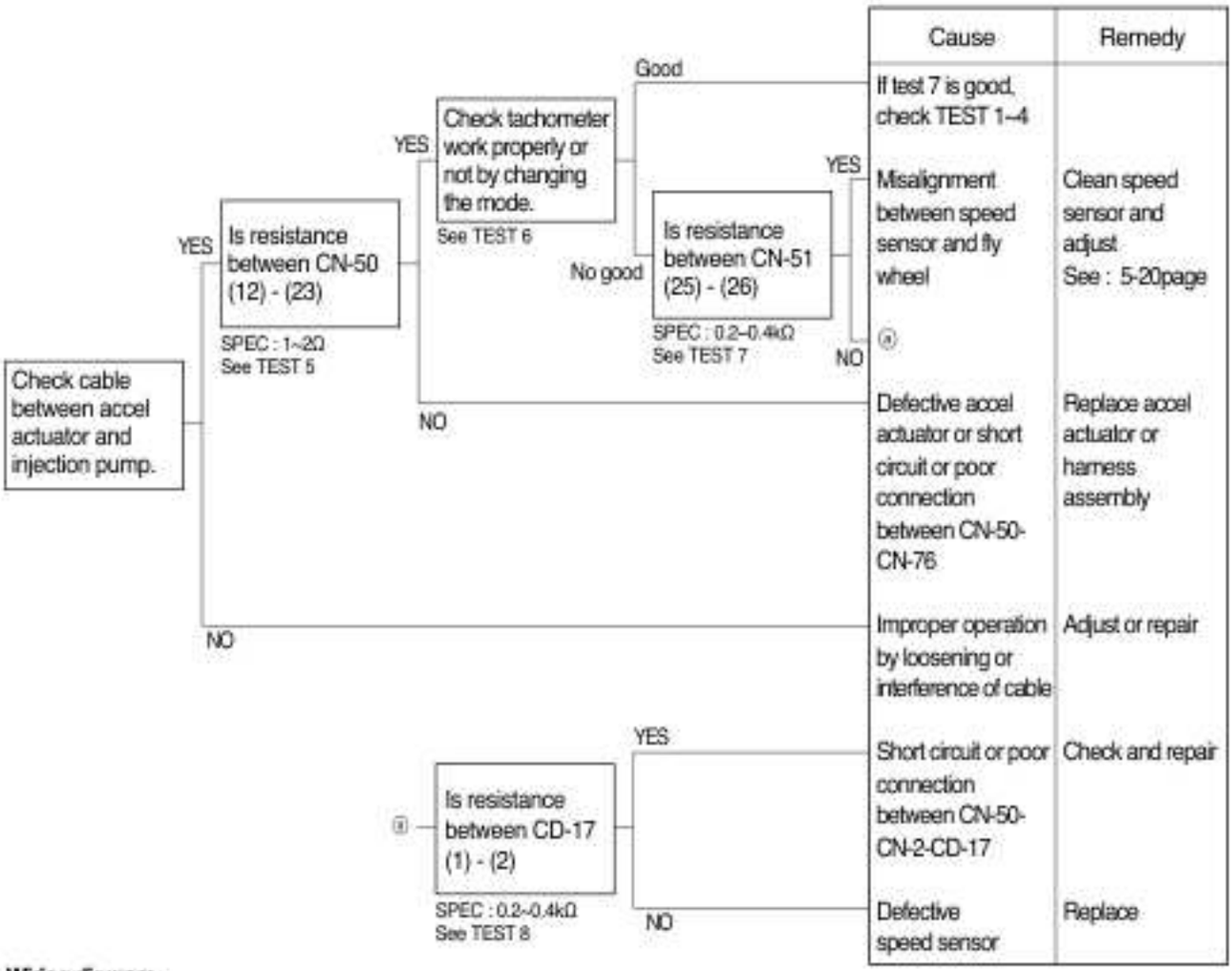


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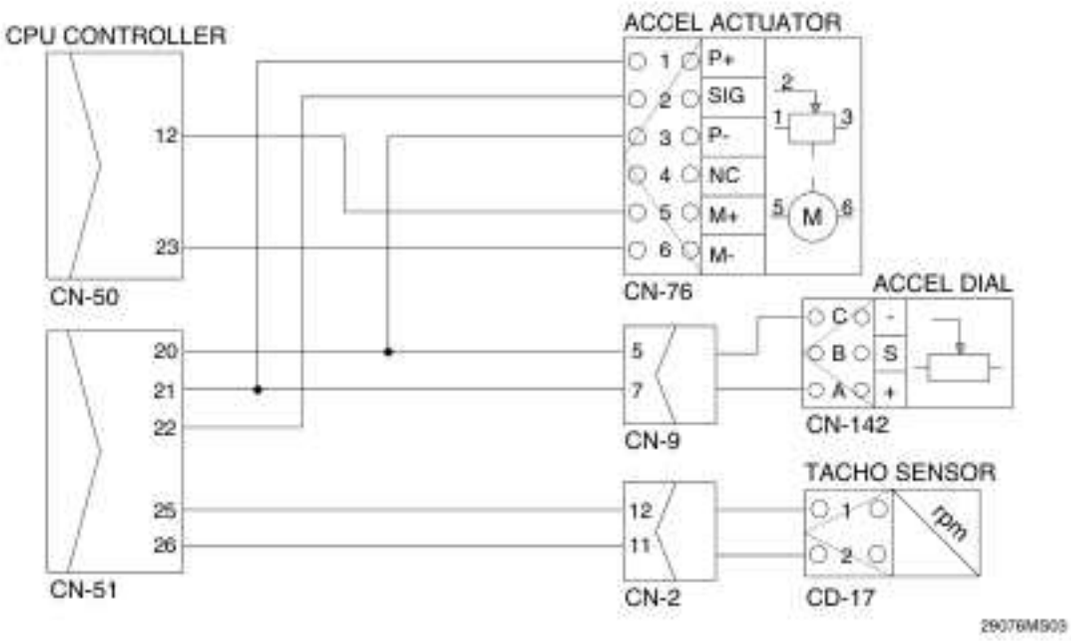
## 2. ENGINE SPEED IS SLOW AT ALL MODE

※ Before carrying out below procedure, check all the related connectors are properly inserted.

### 1) INSPECTION PROCEDURE




**Wiring diagram**






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■ **Disassemble cylinder sub.**

9) Disassemble cylinder block assembly, piston assembly(9) and seat plate(M).



21078TM31



21078TM32

10) Disassemble ball guide(16), ring and pin(15) from cylinder block, respectively.



21078TM33



21078TM34



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**(3) Disassemble rear cover assy sub**

① Disassemble pin(8, 23), valve plate(24) from rear cover(21).



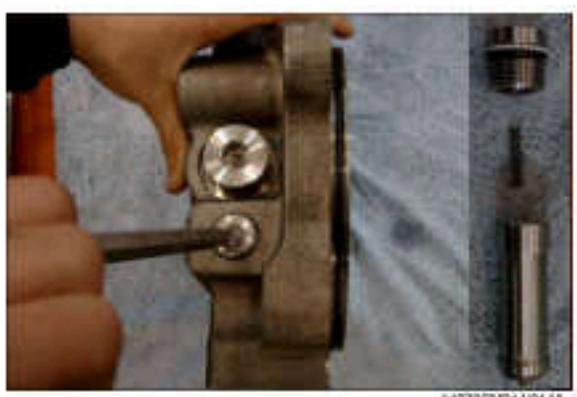
1407BSM212/212A

② Using a torque wrench, disassemble relief valve assy(33) 2 set from rear cover(21).



1407BSM213/213A

③ After disassembling plug with a L-wrench from rear cover(21), disassemble respectively back up ring, O-ring, O-ring, spring, anti-inversion valve assy(34)



1407BSM214/214A

④ Disassemble make up check valve assy with a torque wrench from rear cover(21).



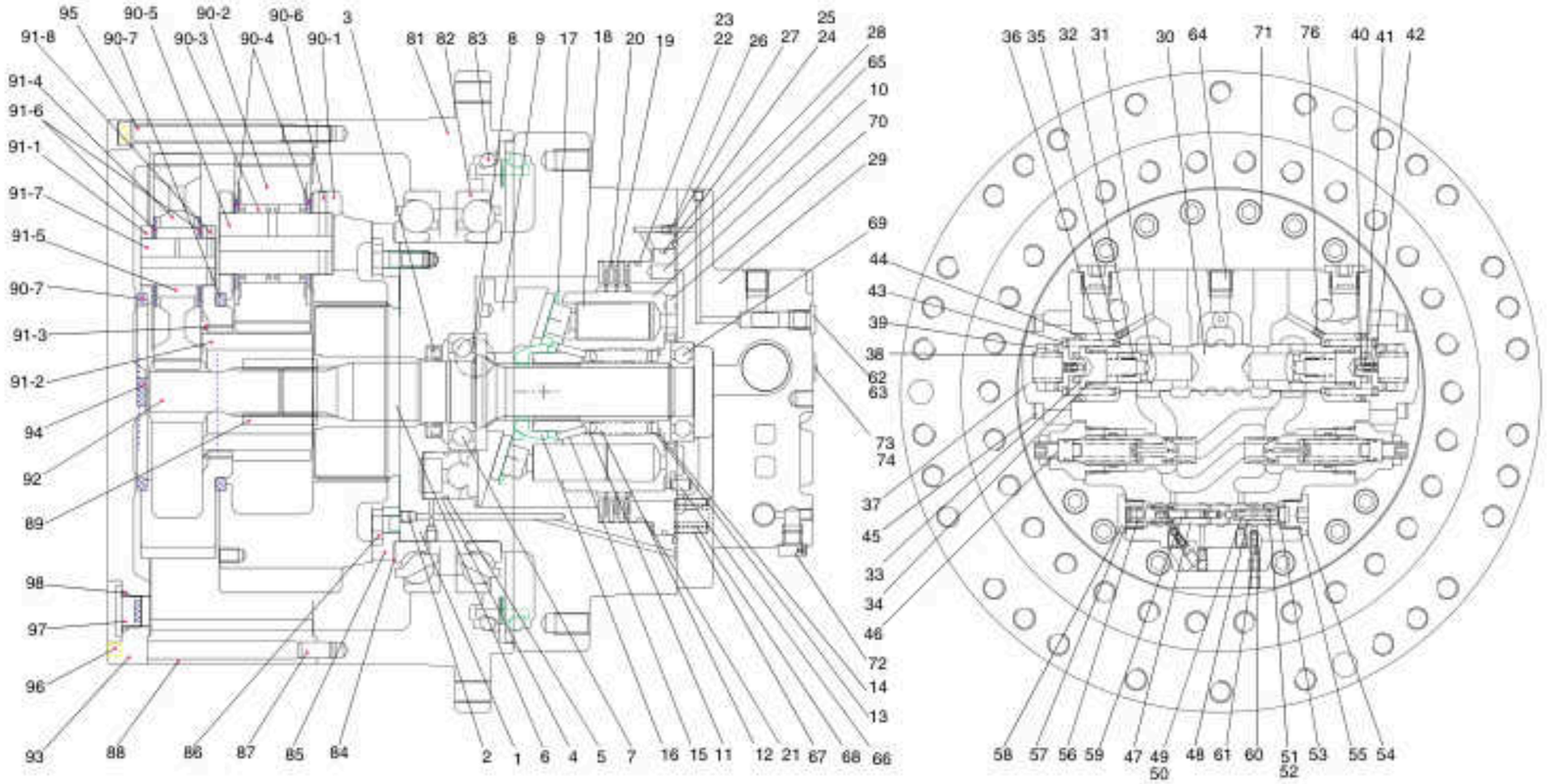
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## 2. TRAVEL MOTOR

### 1) STRUCTURE




| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Shaft casing | 20 | Plate | 39 | Spool | 57 | Spring seat | 75 | Seal kit | 90-7 | Thrust ring |
| 2 | Plug | 21 | Packing piston | 40 | Steel ball | 58 | Plug | 76 | Orifice | 91 | Carrier assy No.1 |
| 3 | Oil seal | 22 | O-ring | 41 | Spring | 59 | Spool | 81 | Housing | 91-1 | Carrier No.1 |
| 4 | Swash piston | 23 | Back up ring | 42 | Plug | 60 | Orifice | 82 | Main bearing | 91-2 | Sun-gear No.2 |
| 5 | Piston ring | 24 | O-ring | 43 | Spring seat | 61 | Orifice | 83 | Floating seal | 91-3 | Retaining ring |
| 6 | Shaft | 25 | Back up ring | 44 | O-ring | 62 | Plug | 84 | Shim | 91-4 | Planetary gear No.1 |
| 7 | Bearing | 26 | Orifice | 45 | Wrench bolt | 63 | O-ring | 85 | Retainer | 91-5 | Needle bearing No.1 |
| 8 | Steel ball | 27 | O-ring | 46 | Relief valve assy | 64 | Plug | 86 | Hex head bolt | 91-6 | Thrust washer |
| 9 | Swash plate | 28 | O-ring | 47 | Spool | 65 | Pin | 87 | Parallel pin | 91-7 | Pin No.1 |
| 10 | Cylinder block | 29 | Rear cover | 48 | Guide | 66 | Pin | 88 | Ring gear | 91-8 | Spring pin |
| 11 | Spring seat | 30 | Spool | 49 | O-ring | 67 | Spring | 89 | Coupling | 92 | Sun gear No.1 |
| 12 | Spring | 31 | Check | 50 | Back up ring | 68 | Spring | 90 | Carrier assy No.2 | 93 | Cover |
| 13 | End plate | 32 | Spring | 51 | O-ring | 69 | Bearing | 90-1 | Carrier No.2 | 94 | Pad |
| 14 | Snap ring | 33 | Plug | 52 | Back up ring | 70 | Valve plate | 90-2 | Planetary gear No.2 | 95 | Hex socket head bolt |
| 15 | Pin | 34 | O-ring | 53 | Snap ring | 71 | Wrench bolt | 90-3 | Needle bearing No.2 | 96 | Hex socket Screw |
| 16 | Ball guide | 35 | Spring seat | 54 | plug | 72 | Plug | 90-4 | Thrsut washer | 97 | Hydraulic plug |
| 17 | Set plate | 36 | Spring | 55 | O-ring | 73 | Name plate | 90-5 | Pin No.2 | 98 | O-ring |
| 18 | Piston assy | 37 | Cover | 56 | Spring | 74 | Rivet | 90-6 | Spring pin | 99 | Name plate |
| 19 | Friction plate | 38 | Spring | | | | | | | | |



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