HYDRAULIC EXCAVATOR

# SERVICE MANUAL

# Robex 130S SMART

HYUNDAI

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### 7) REMOTE CONTROL VALVE

| Item | | Specification |
|---|---|---|
| Type | | Pressure reducing type |
| Operating pressure | Minimum | 6.5kgf/cm²(92psi) |
| | Maximum | 26kgf/cm²(370psi) |
| Single operation stroke | Lever | 61mm(2.4in) |
| | Pedal | 123mm(4.84in) |

### 8) CYLINDER

| Item | | Specification |
|---|---|---|
| Boom cylinder | Bore dia × Rod dia × Stroke | ø 95 × ø 70 × 1015mm |
| | Cushion | Extend only |
| Arm cylinder | Bore dia × Rod dia × Stroke | ø 110 × ø 75 × 1070mm |
| | Cushion | Extend and retract |
| Bucket cylinder | Bore dia × Rod dia × Stroke | ø 95 × ø 65 × 855mm |
| | Cushion | Extend only |
| Dozer cylinder | Bore dia × Rod dia × Stroke | ø 100 × ø 70 × 240mm |
| | Cushion | - |

- **Discoloration of cylinder rod can occur when the friction reduction additive of lubrication oil spreads on the rod surface.**
- **Discoloration does not cause any harmful effect on the cylinder performance.**

### 9) SHOE

| Item | | Width | Ground pressure | Link quantity | Overall width |
|---|---|---|---|---|---|
| R130S | Standard | 500mm(20") | 0.39kgf/cm²(5.55psi) | 41 | 2490mm( 8' 2") |
| | Option | 600mm(24") | 0.34kgf/cm²(4.84psi) | 41 | 2590mm( 8' 6") |
| | Option | 700mm(28") | 0.30kgf/cm²(4.27psi) | 41 | 2690mm( 8' 10") |

### 10) BUCKET

| Item | | Capacity | | Tooth quantity | Width | |
|---|---|---|---|---|---|---|
| | | SAE heaped | CECE heaped | | Without side cutter | With side cutter |
| R130S | STD | 0.45m³(0.59yd³) | 0.40m³(0.52yd³) | 4 | 830mm(32.7") | 940mm(37.0") |
| | OPT | 0.30m³(0.39yd³) | 0.27m³(0.35yd³) | 3 | 610mm(24.0") | 720mm(28.3") |
| | | 0.40m³(0.52yd³) | 0.44m³(0.58yd³) | 4 | 760mm(29.9") | 870mm(34.3") |
| | | 0.50m³(0.65yd³) | 0.45m³(0.59yd³) | 4 | 900mm(35.4") | 1010mm(39.8") |
| | | 0.59m³(0.77yd³) | 0.52m³(0.68yd³) | 5 | 1020mm(40.2") | 1130mm(44.5") |

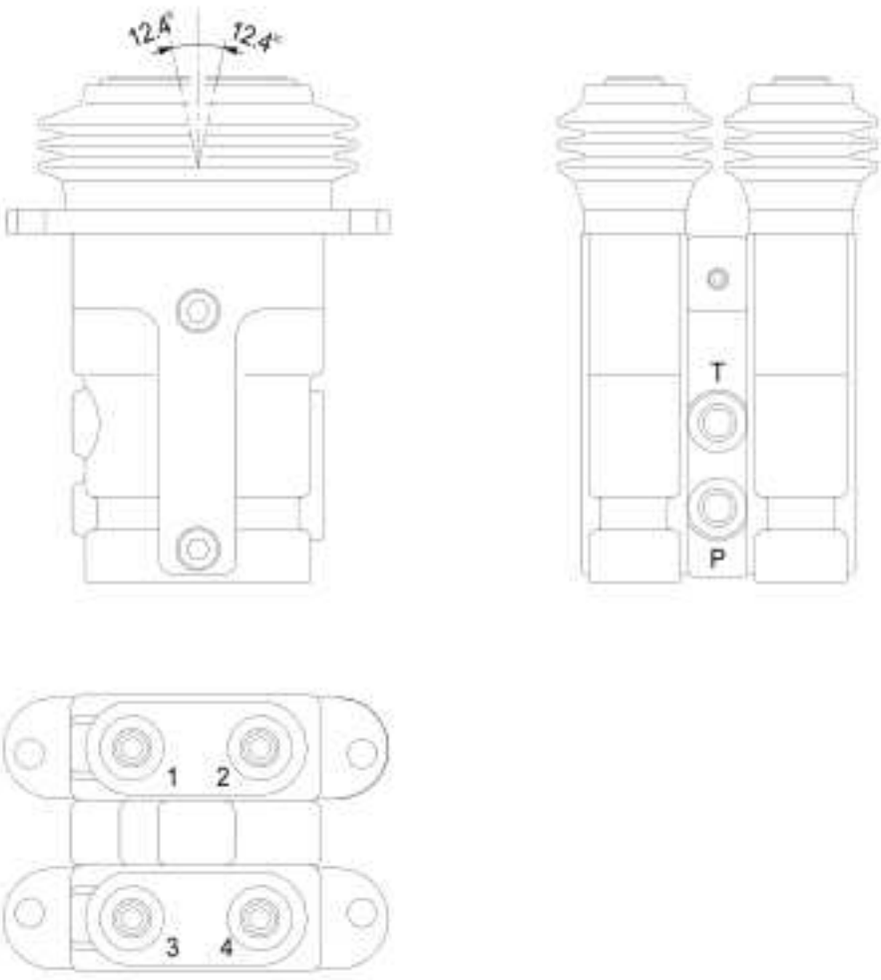


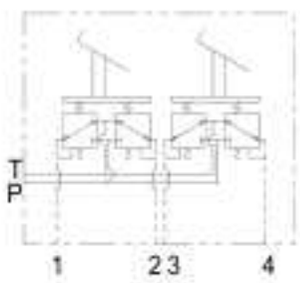
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## GROUP 6 RCV PEDAL

### 1. STRUCTURE

The casing(Spacer) has the oil inlet port P(Primary pressure), and the oil outlet port T(Tank). In addition the secondary pressure is taken out through ports 1, 2, 3 and 4 provided at the bottom face.




Hydraulic circuit

| Port | Port | Port size |
|---|---|---|
| P | Pilot oil inlet port | PF 1/4 |
| T | Pilot oil return port | |
| 1 | Travel(LH, Forward) | |
| 2 | Travel(LH, Backward) | |
| 3 | Travel(RH, Forward) | |
| 4 | Travel(RH, Backward) | |

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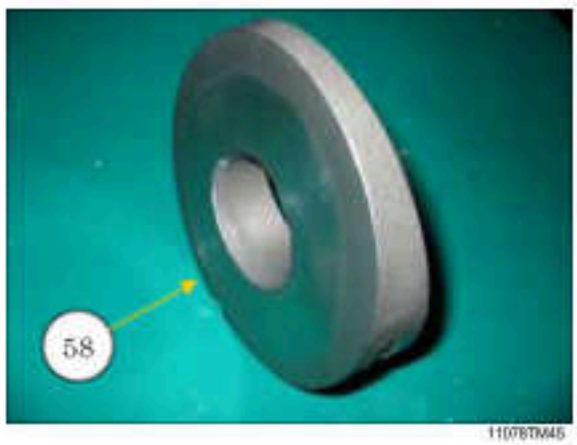
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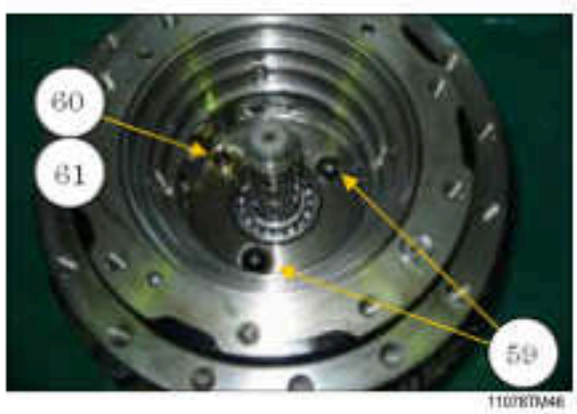

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(31) Remove cam(58) from the body casing.




(32) Remove two steel balls(59) and piston(60) from the body casing. Remove the spring(61) behind the piston.





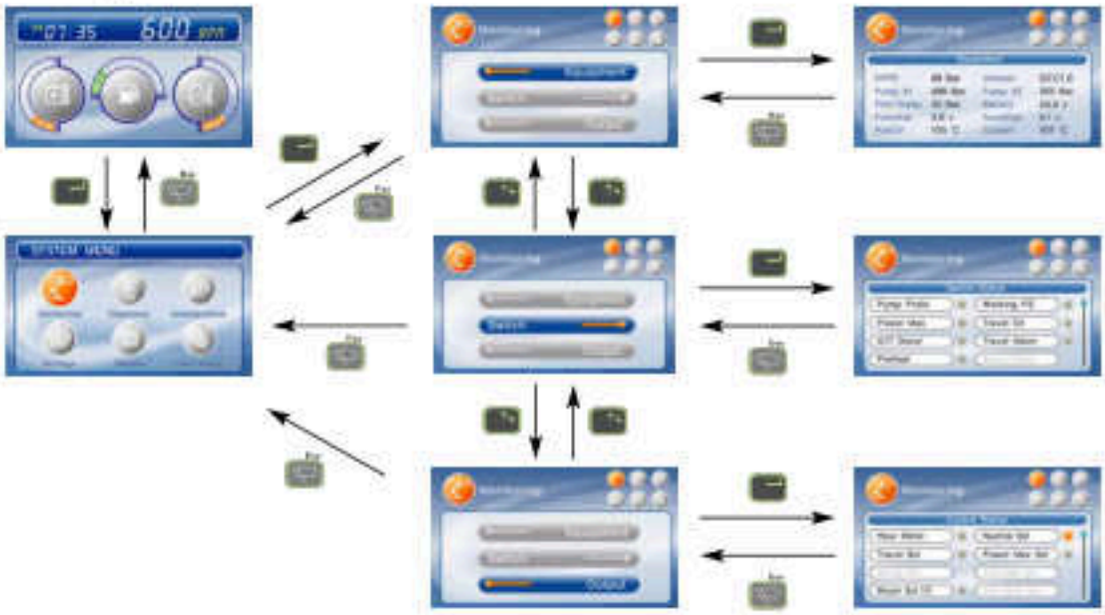




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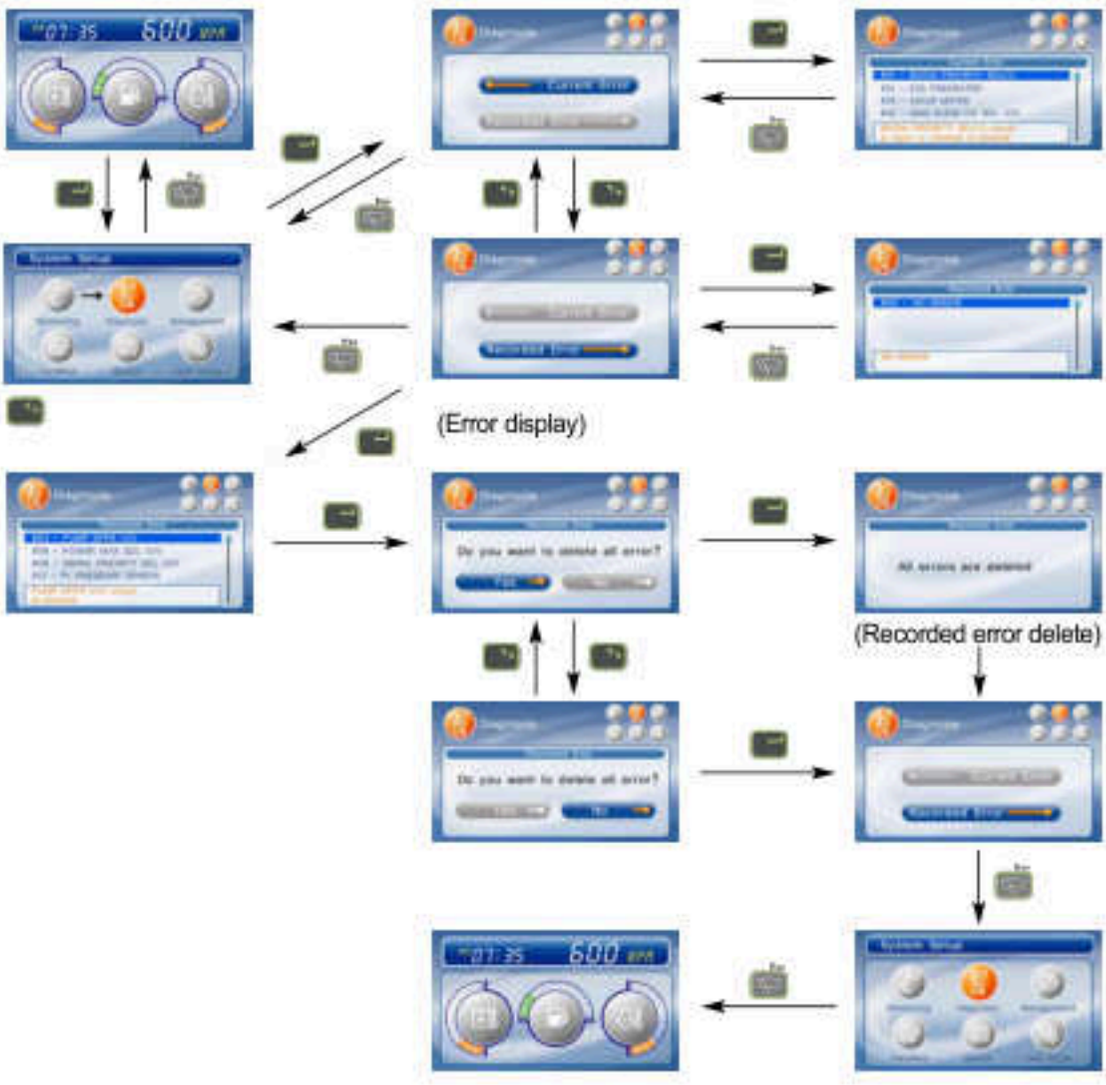
## (2) Display map

① Monitoring



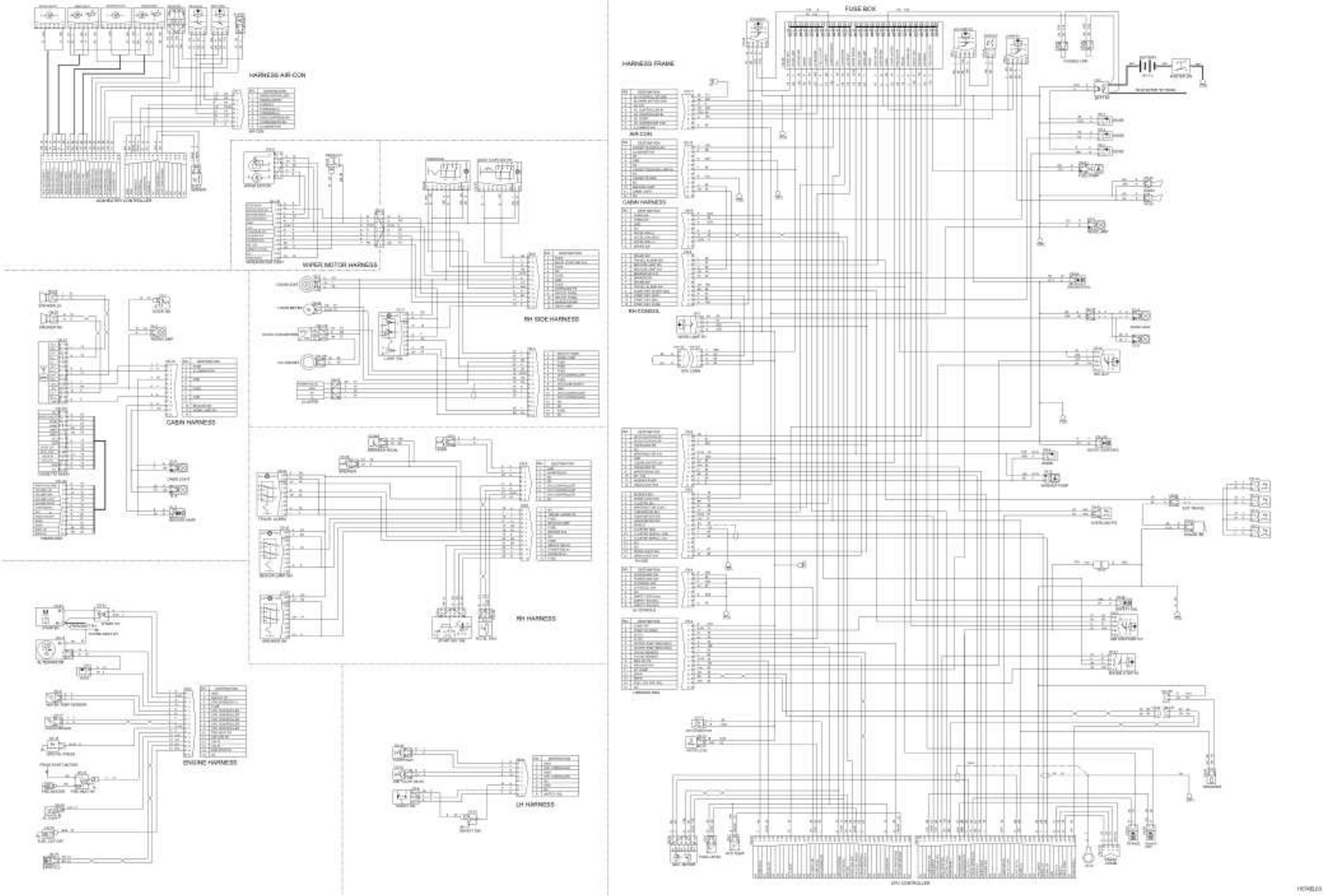
② Diagnosis

a. Protocol type 1






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