

GROUP 4 MAIN CONTROL VALVE

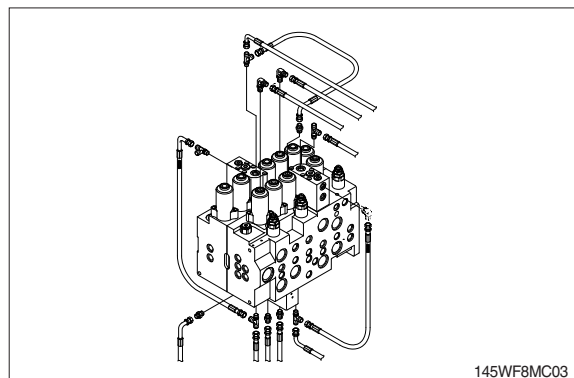
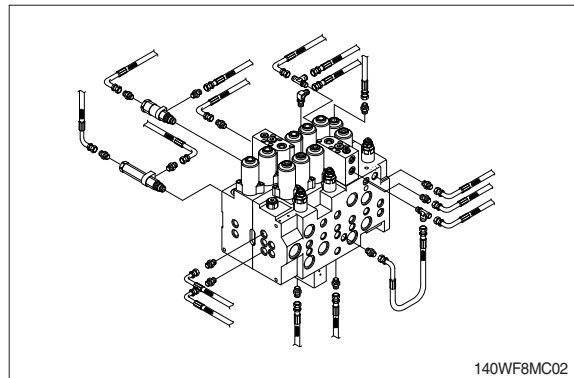
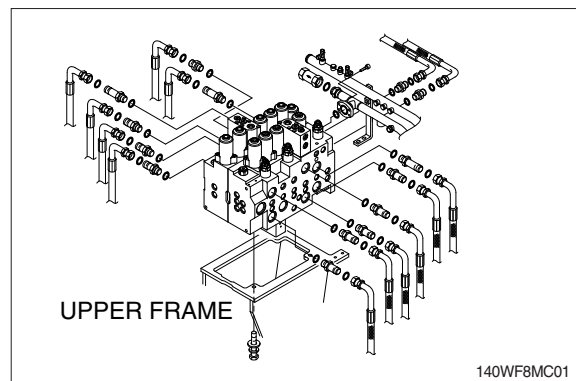
1. REMOVAL AND INSTALL OF MOTOR

1) REMOVAL

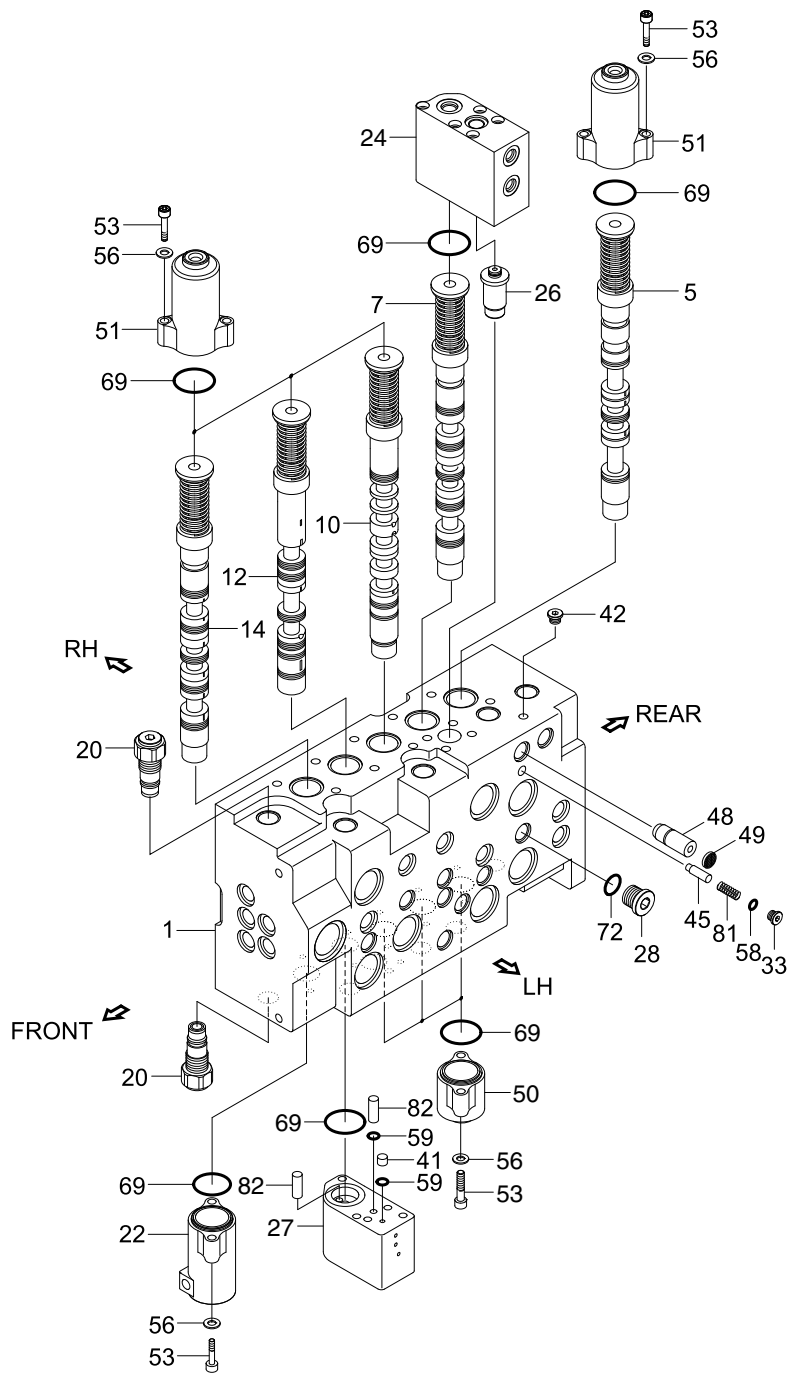
- (1) Lower the work equipment to the ground and stop the engine.
- (2) Operate the control levers and pedals several times to release the remaining pressure in the hydraulic piping.
- (3) Loosen the breather slowly to release the pressure inside the hydraulic tank.
- ▲ **Escaping fluid under pressure can penetrate the skin causing serious injury.**
 - ※ When pipes and hoses are disconnected, the oil inside the piping will flow out, so catch it in oil pan.
- (4) Remove the wirings for the pressure sensor and so on.
- (5) Remove bolts and disconnect pipe.
- (6) Disconnect pilot line hoses.
- (7) Disconnect pilot piping.
- (8) Sling the control valve assembly and remove the control valve mounting bolt and bracket.
 - Weight : 80 kg (175 lb)
- (9) Remove the control valve assembly.
When removing the control valve assembly, check that all the piping have been disconnected.

2) INSTALL

- (1) Carry out installation in the reverse order to removal.
- (2) Bleed the air from below items.
 - ① Cylinder (Boom, arm, bucket)
 - ② Swing motor
 - ③ Travel motor
 - ※ See each item removal and install.
- (3) Confirm the hydraulic oil level and recheck the hydraulic oil leak or not.



2. STRUCTURE (1/4)



140WF8MC04

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|----|-----------------------|----|--------------------|----|------------------|
| 1 | Housing-P1 | 27 | Regeneration block | 51 | Pilot B1 cap |
| 5 | Spool assy-option C | 28 | Plug | 53 | Socket head bolt |
| 7 | Spool assy-boom 1 | 33 | Plug | 56 | Plain washer |
| 10 | Spool assy-arm 2 | 41 | Orifice | 58 | O-ring |
| 12 | Spool assy-arm regen | 42 | Plug | 59 | O-ring |
| 14 | Spool assy-bucket | 45 | Poppet | 69 | O-ring |
| 20 | Nega con relief valve | 48 | Orifice | 72 | O-ring |
| 24 | Holding valve kit A1 | 49 | Coin type filter | 81 | Spring |
| 26 | Lock valve kit B | 50 | Pilot A cap | 82 | Pin-regeneration |