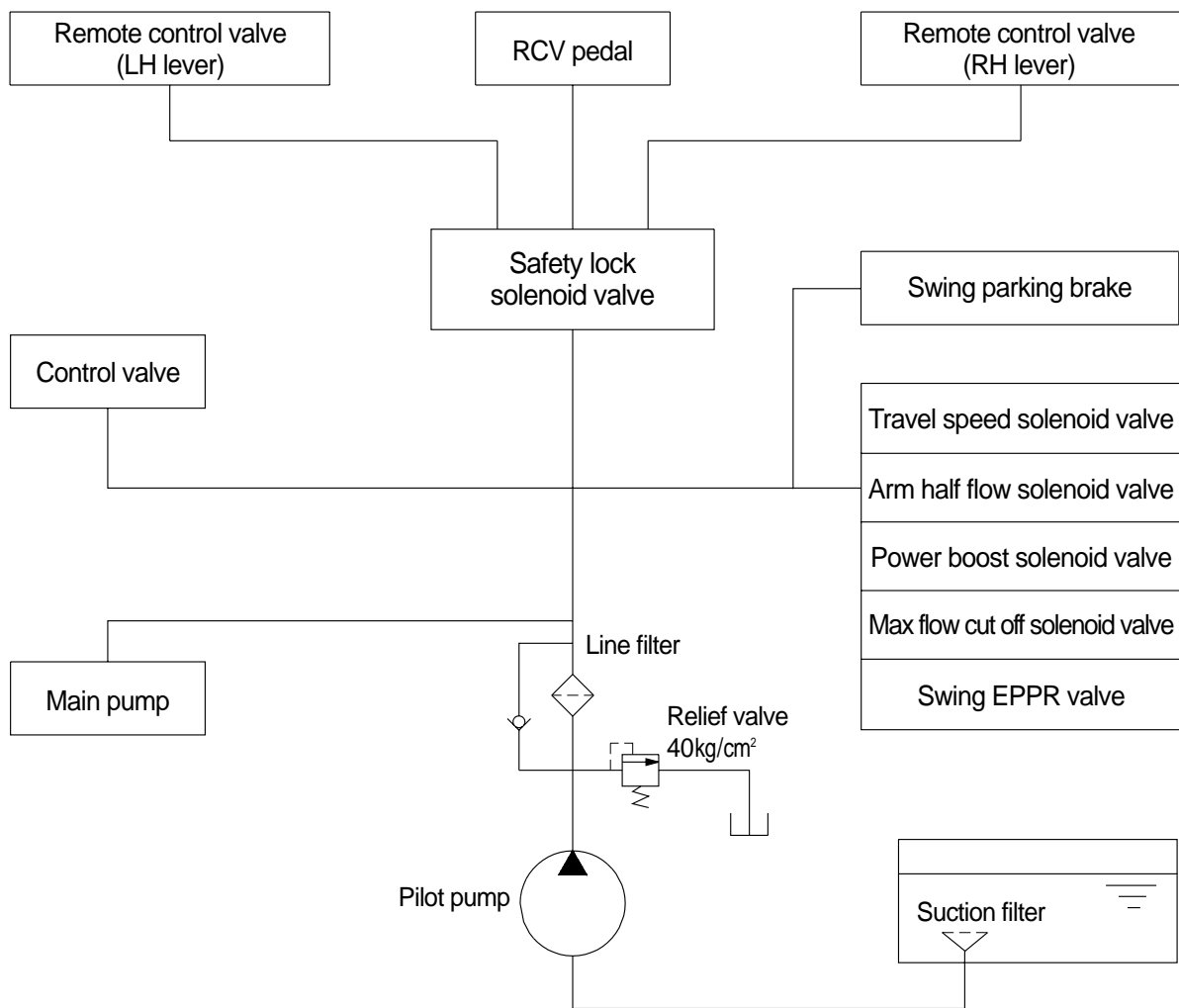


## GROUP 3 PILOT CIRCUIT

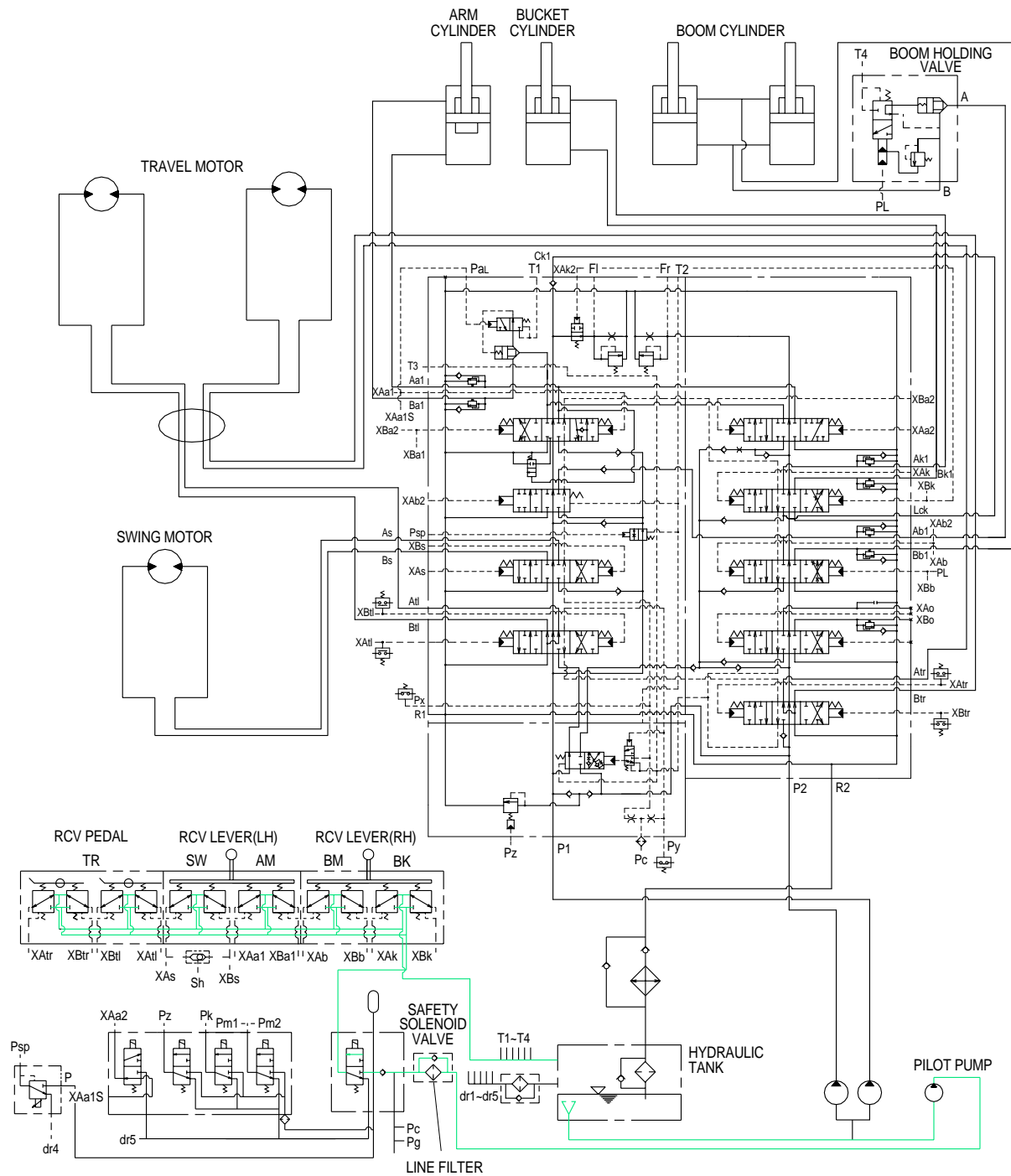


The pilot circuit consists of suction circuit, delivery circuit and return circuit.

The pilot pump is provided with relief valve, receives the oil from the hydraulic tank through the suction filter.

The discharged oil from the pilot pump flows to the remote control valve through line filter, EPPR valve, solenoid valve assemblies, swing parking brake, main control valve and safety lock solenoid valve.

# 1. SUCTION, DELIVERY AND RETURN CIRCUIT



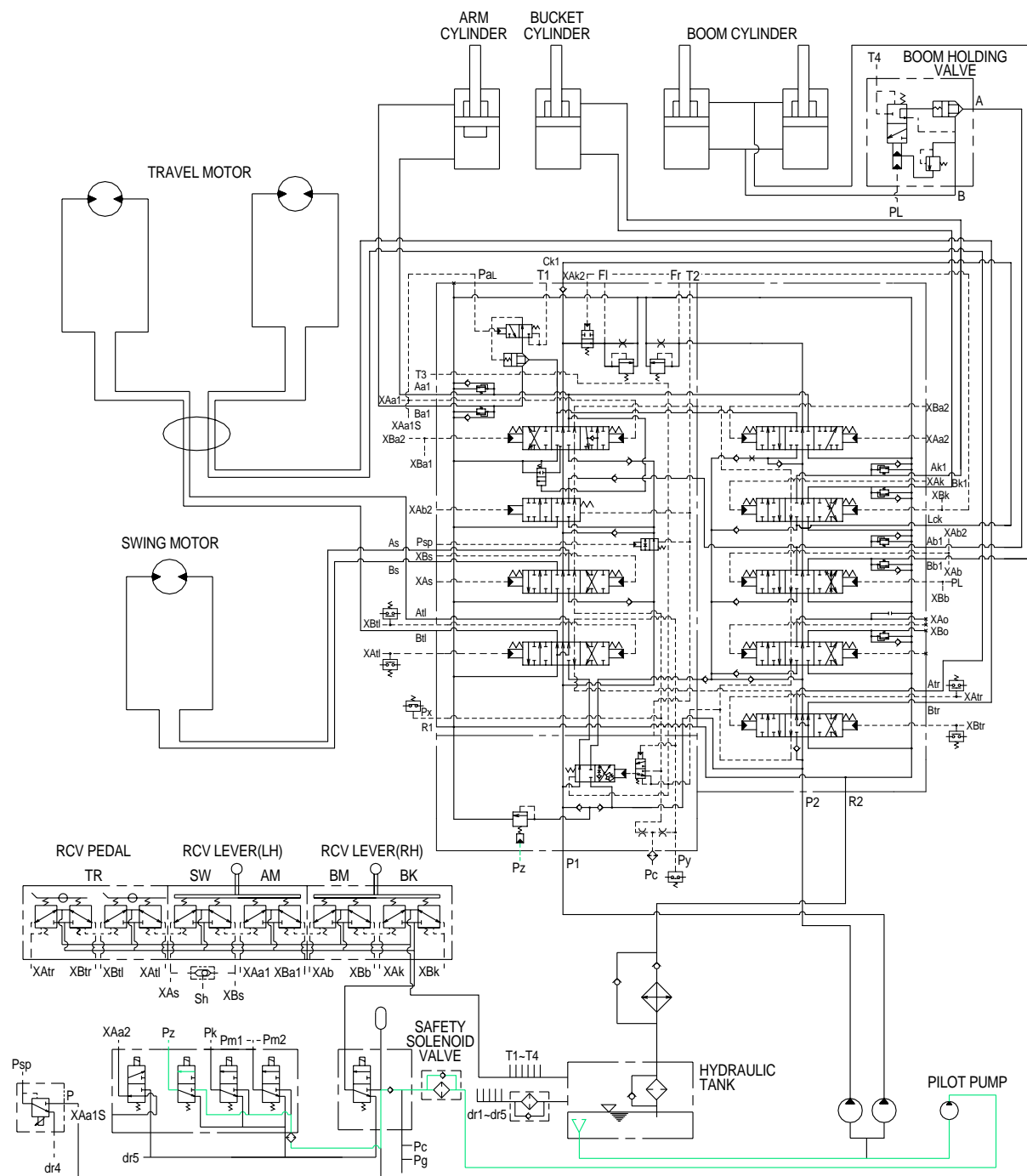
The pilot pump receives oil from the hydraulic tank. The discharged oil from the pilot pump flows to the safety solenoid valve through the line filter. The oil is filtered by the line filter. The pilot relief valve is provided in the pilot pump for limiting the pilot circuit pressure. The oil filtered by line filter flows into the remote control valve through safety solenoid valve. The returned oil returns to the hydraulic tank through the remote control valve.





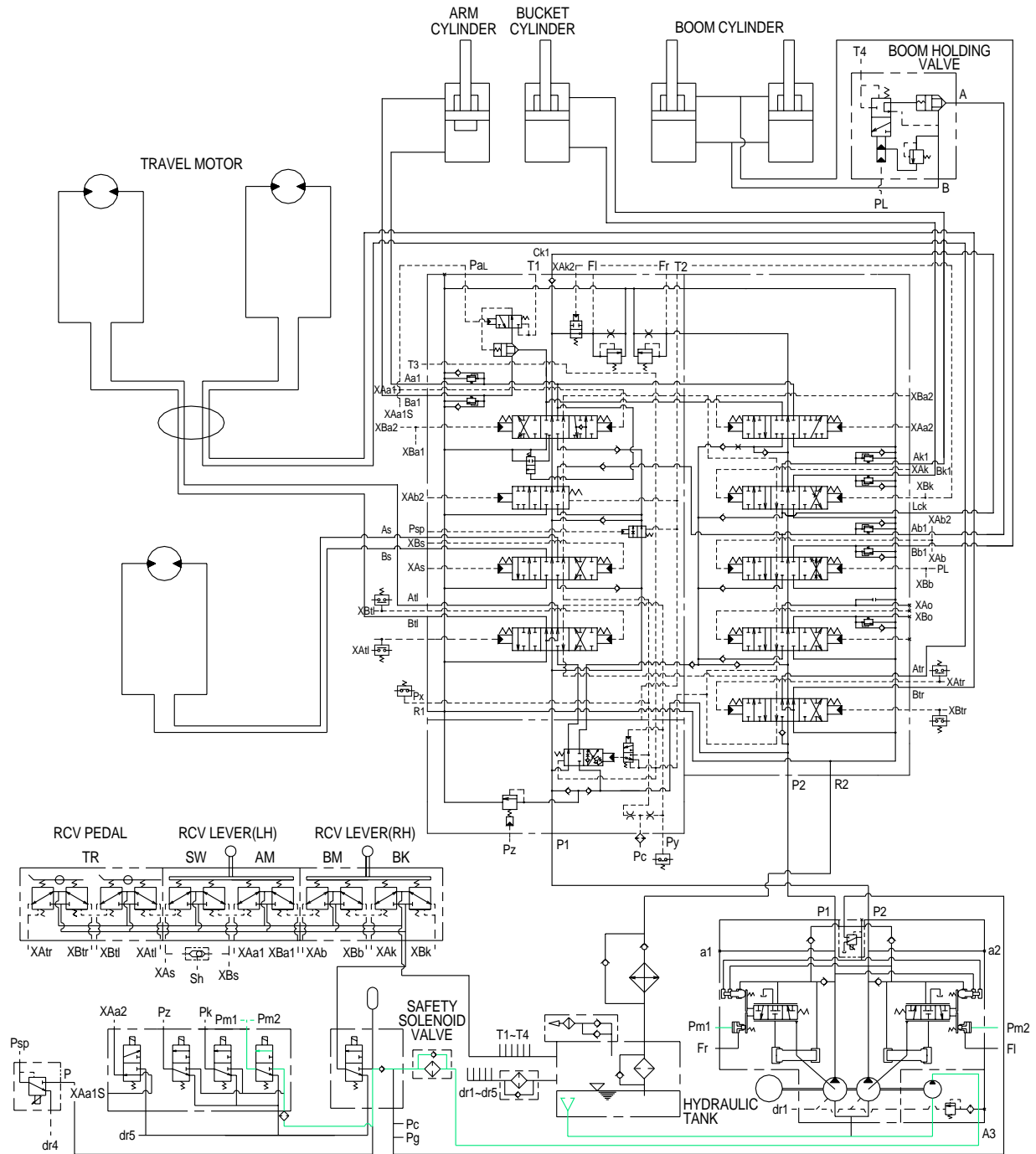


## 5. MAIN RELIEF PRESSURE CHANGE SYSTEM



When the power boost switch on the left control lever is pushed ON, the power boost solenoid valve is actuated, the discharged oil from the pilot pump flows into Pz port of the main relief valve of main control valve; then the setting pressure of the main relief valve is raised from 320kgf/cm<sup>2</sup> to 350kgf/cm<sup>2</sup> for increasing the digging power. And even when pressed continuously, it is canceled after 8 seconds.

## 6. MAX FLOW CUT OFF FUNCTION SYSTEM



When the L mode is selected on the cluster, max flow cut off solenoid valve actuates automatically. Thus pilot pressure(Pm1, 2) is sent to the regulator and pump discharge volume is decreased.





