WEBM001801

SHOP MANUAL

PW95R-2

HYDRAULIC EXCAVATOR

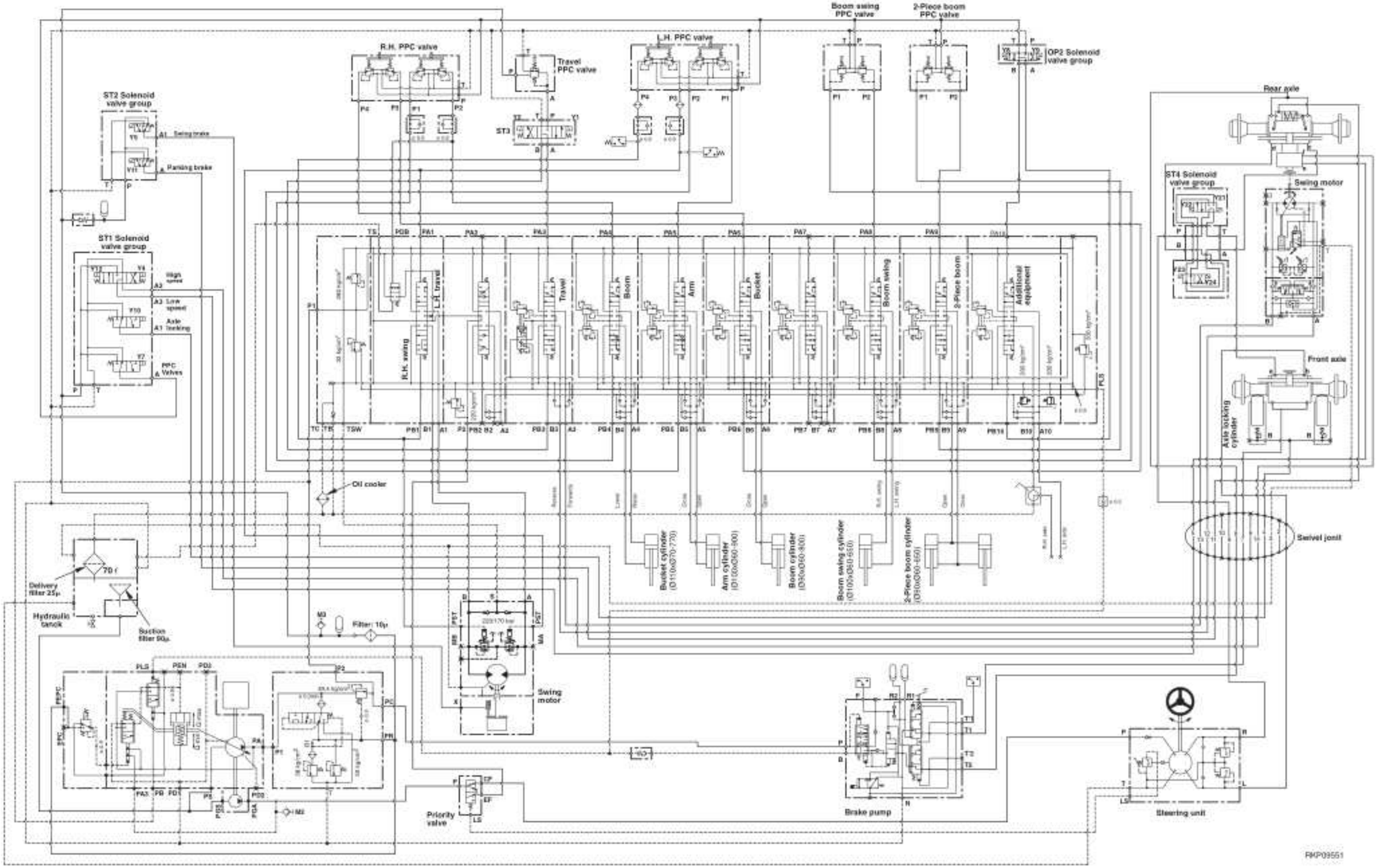
SERIAL NUMBER

PW95R-2 21D0200280 and up

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HYDRAULIC CIRCUIT

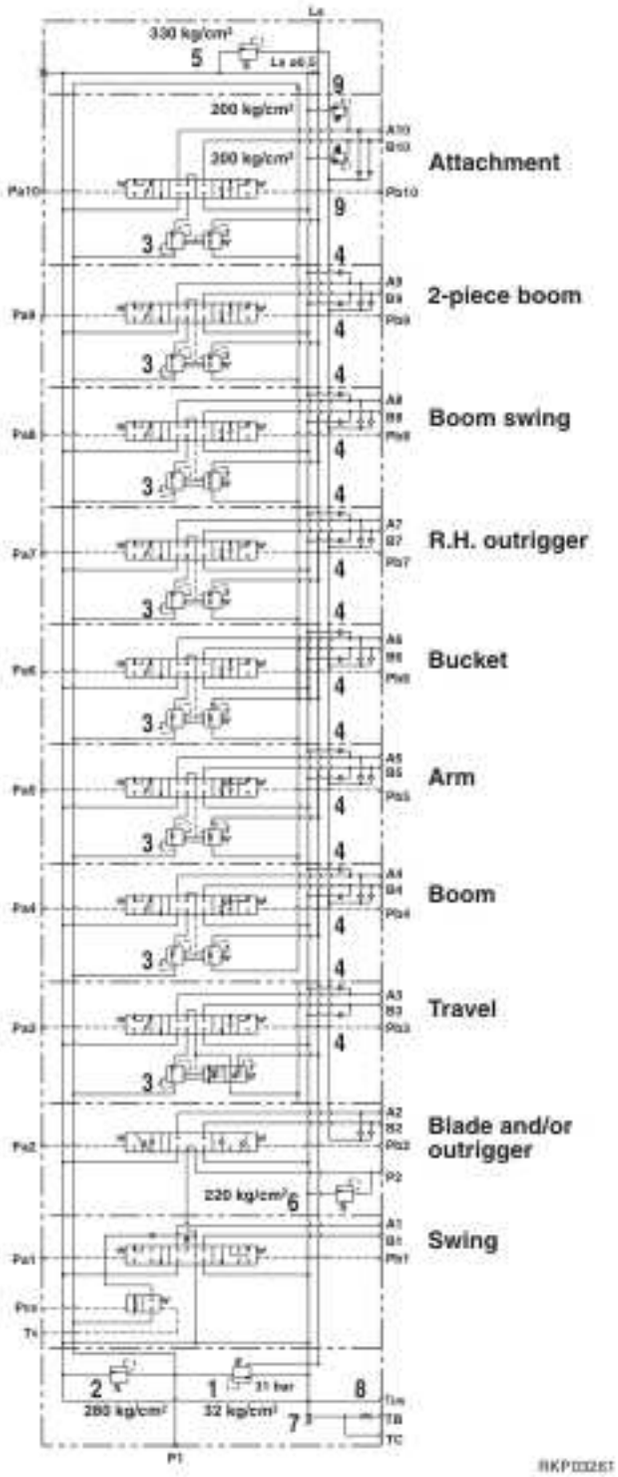


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3. Operation for each function and valve

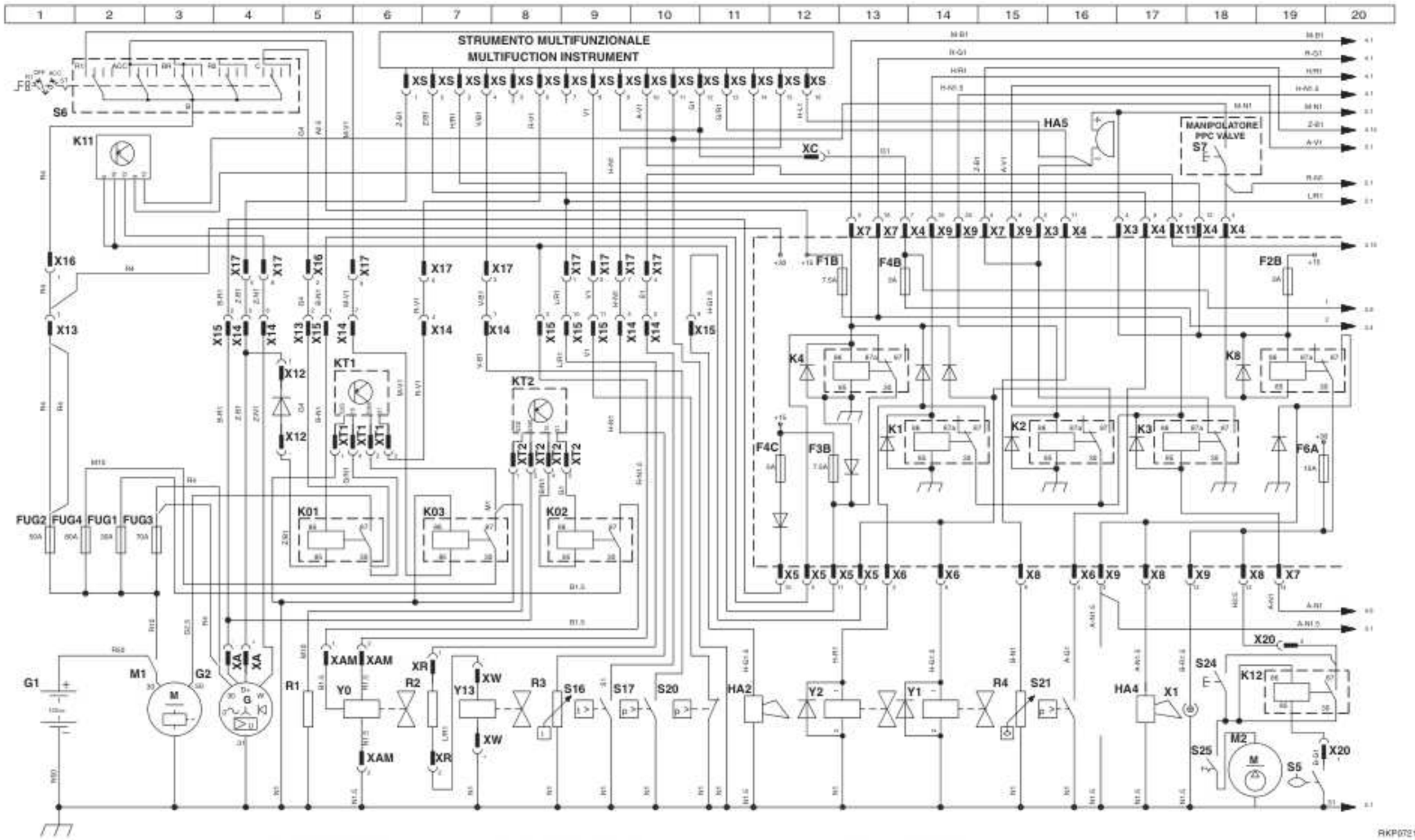
Hydraulic circuit diagram and names of valves



1. Unload valve
   LS pressure + 23 bar (25 kg/cm^2)
2. Main relief valve (P1 port)
   294 bar (300 kg/cm^2)
3. Pressure compensation valve
4. Suction valve
5. Safety valve
   324 bar (330 kg/cm^2)
6. Main relief valve (P2 port):
   216 bar (220 kg/cm^2)
7. Lift check valve
8. Cooler bypass valve
   opening pressure: 8.1 bar (8.3 kg/cm^2)
9. Safety valve: 196 bar (200 kg/cm^2)

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ELECTRICAL DIAGRAM (1/4)



COMPONENTS

G1 - BATTERY
G2 - GENERATOR
HA2 - REVERSE BUZZER
HA4 - LOOM HORN
HA5 - BUZZER
K01 - STARTER RELAY
K02 - FUEL SHUT OFF RELAY
K03 - PREHEATING RELAY
K1 - FORWARD SPEED VALVE RELAY
K2 - REVERSE SPEED SOLENOID VALVE RELAY
K3 - SPEED CONNECTION RELAY
K4 - KEY SAFETY START RELAY
K8 - HORN RELAY
K11 - POWER MODE UNIT
K12 - TRANSFER PUMP RELAY
KT1 - PREHEATING TIMER
KT2 - FUEL SOLENOID VALVE TIMER
M1 - STARTER MOTOR
M2 - TRANSFER PUMP
R1 - HEATING START
R2 - RESISTOR
R3 - WATER TEMPERATURE SENDER
R4 - FUEL LEVEL SENDER
S5 - TRANSFER PUMP SENSOR
S6 - STARTING SWITCH
S7 - JOYSTICK HORN BUTTON
S16 - HIGH WATER TEMPERATURE SWITCH
S17 - AIR FILTER SWITCH
S20 - ENGINE OIL LOW PRESSURE SWITCH
S21 - BRAKES PRESSURE SWITCH
S24 - TRANSFER PUMP START BUTTON
S25 - TRANSFER PUMP SWITCH
Y0 - FUEL SHUT OFF SOLENOID VALVE
Y1 - REVERSE SPEED SOLENOID VALVE
Y2 - FORWARD SPEED SOLENOID VALVE
Y13 - WORKING MODE SOLENOID VALVE

CONNECTOR

X1 - INTERFACE LINE 5 WAY CONNECTOR
X3 - RIGHT LATERAL DASHBOARD LINE 18 WAY CONNECTOR
X4 - RIGHT LATERAL DASHBOARD LINE 12 WAY CONNECTOR
X5 - ENGINE LINE 11 WAY CONNECTOR
X6 - LIGHTS SWITCH-GEAR SHIFT LINE 13 WAY CONNECTOR
X7 - STEERING INTERFACE LINE 21 WAY CONNECTOR
X8 - LOOM LINE 21 WAY CONNECTOR
X9 - LIGHTS SWITCH-GEAR SHIFT LINE 21 WAY CONNECTOR
X11 - LATERAL DASHBOARD LINE 13 WAY CONNECTOR
X12 - DIODE 2 WAY CONNECTOR
X13 - POWER 3 WAY CONNECTOR
X14 - ENGINE LINE 7 WAY CONNECTOR
X15 - ENGINE LINE 11 WAY CONNECTOR
X16 - POWER 3 WAY CONNECTOR
X17 - LATERAL DASHBOARD 9 WAY CONNECTOR
X20 - TRANSFER PUMP 2 WAY CONNECTOR
XA - GENERATOR 2 WAY CONNECTOR
XAM - FUEL SHUT OFF 3 WAY CONNECTOR
XR - RESISTOR 2 WAY CONNECTOR
XS - MULTIFUNCTION INSTRUMENT 16 WAY CONNECTOR
XT1 - PREHEATING 4 WAY CONNECTOR
XT2 - FUEL SHUT OFF 4 WAY CONNECTOR
XW - 2 WAY CONNECTOR

FUSES

F1B - GEAR VALVE FUSE 7.5A
F2B - JOYSTICK - INSTRUMENT POWER FUSE 3A
F3B - SAFETY START - FUEL SHUT OFF FUSE 7.5A
F4B - RIGHT TRAFFIC LIGHT AND INSTRUMENT LIGHT FUSE 3A
F4C - GENERATOR AND TIMERS (STARTING MOTOR PREHEATING) 5A
F6A - PUERS VALVE-HORN-CURRENT INTAKE FUSE 15A
FUG1 - FUEL SHUT OFF FUSE 30A
FUG2 - GENERAL FUSE 50A
FUG3 - GENERATOR FUSE 70A
FUG4 - PREHEATING FUSE 80A

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