SHOP MANUAL

WEBM000800

PW110R-1

HYDRAULIC EXCAVATOR

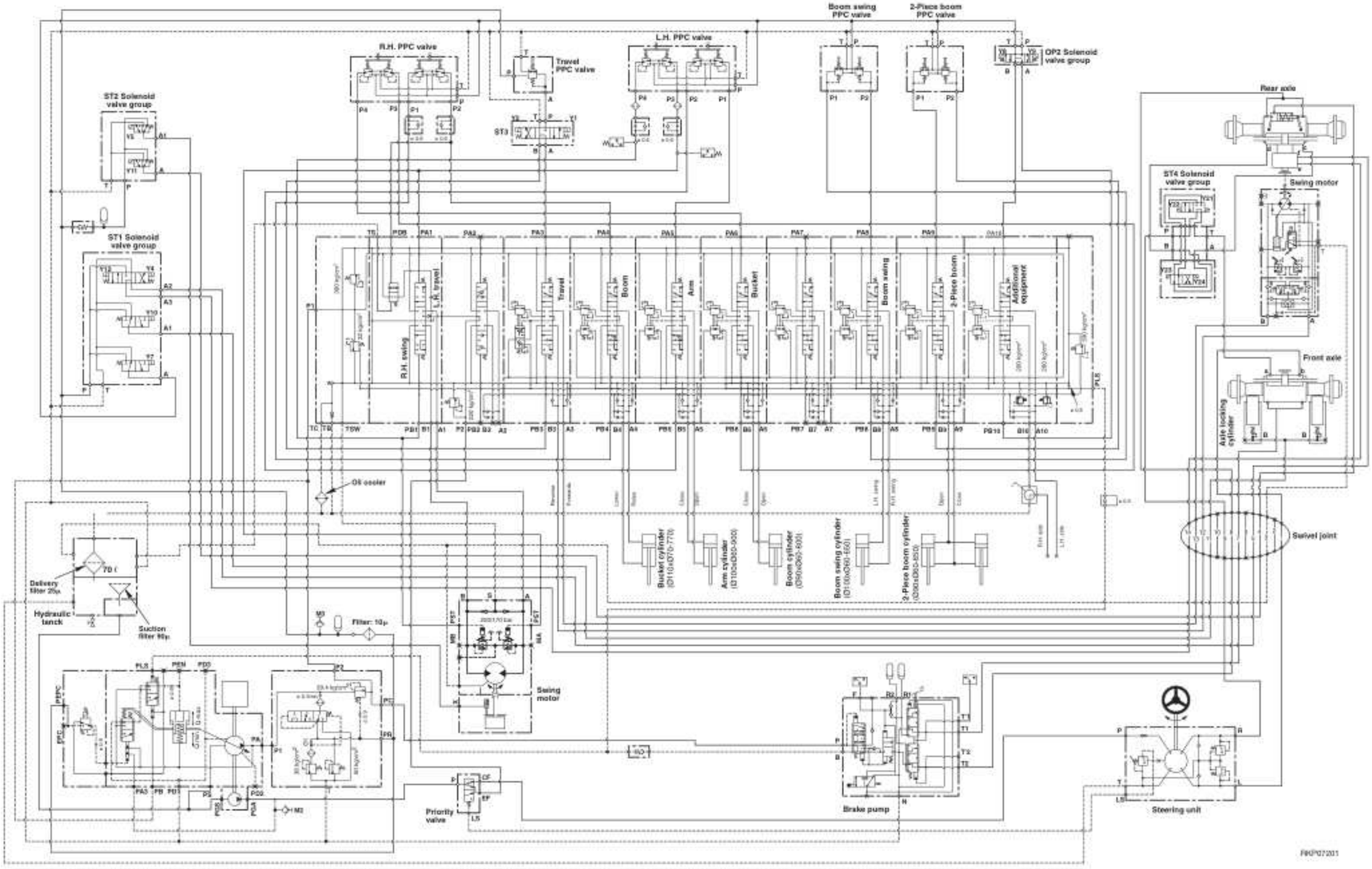
SERIAL NUMBER

PW110R-1 2260000001 and up

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HYDRAULIC CIRCUIT



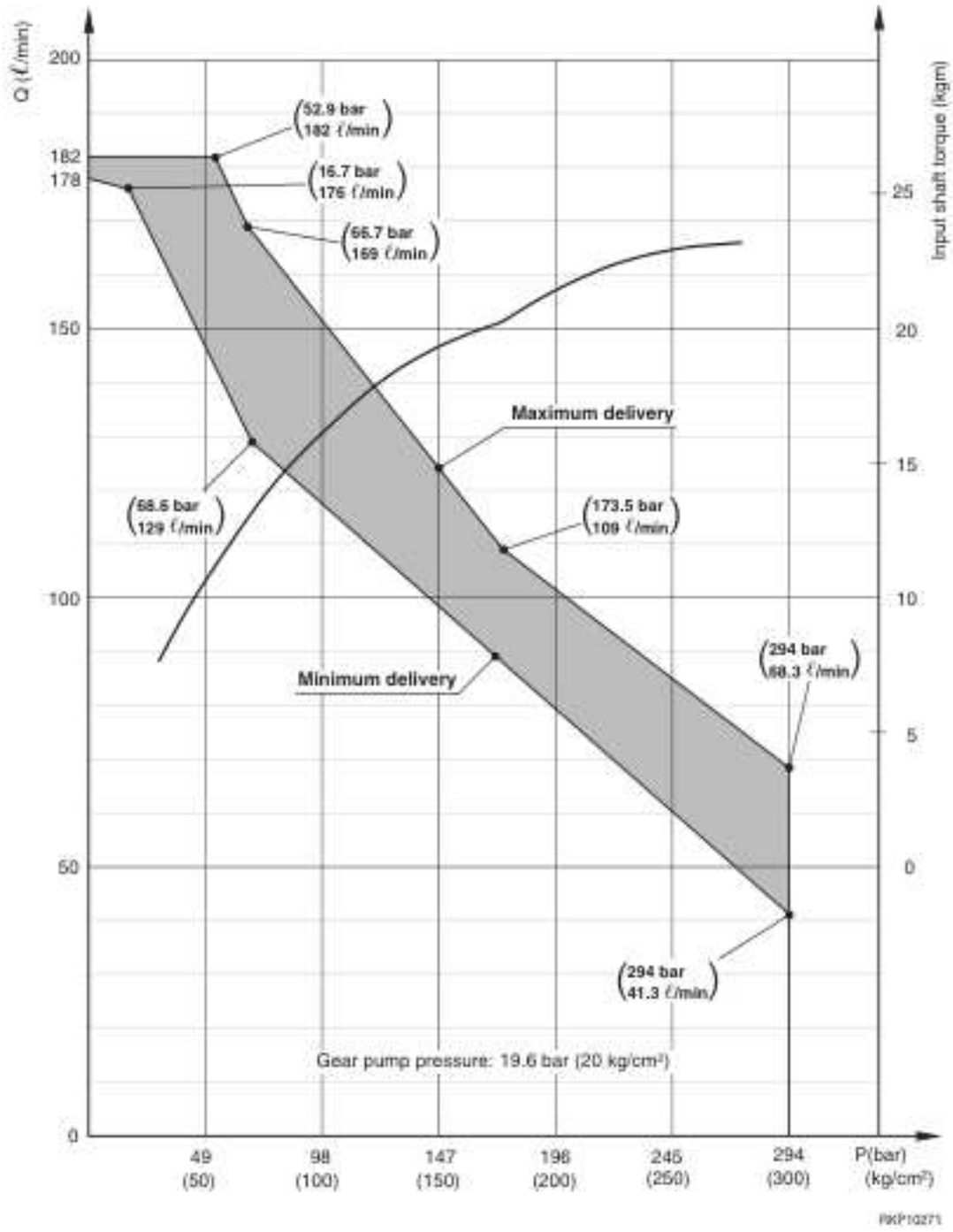
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Classification

- Delivery of individual piston pumps P1
- WORKING MODE selector: position E
- Pump speed: 2000 rpm.
- Oil temperature: 45 – 55°C.

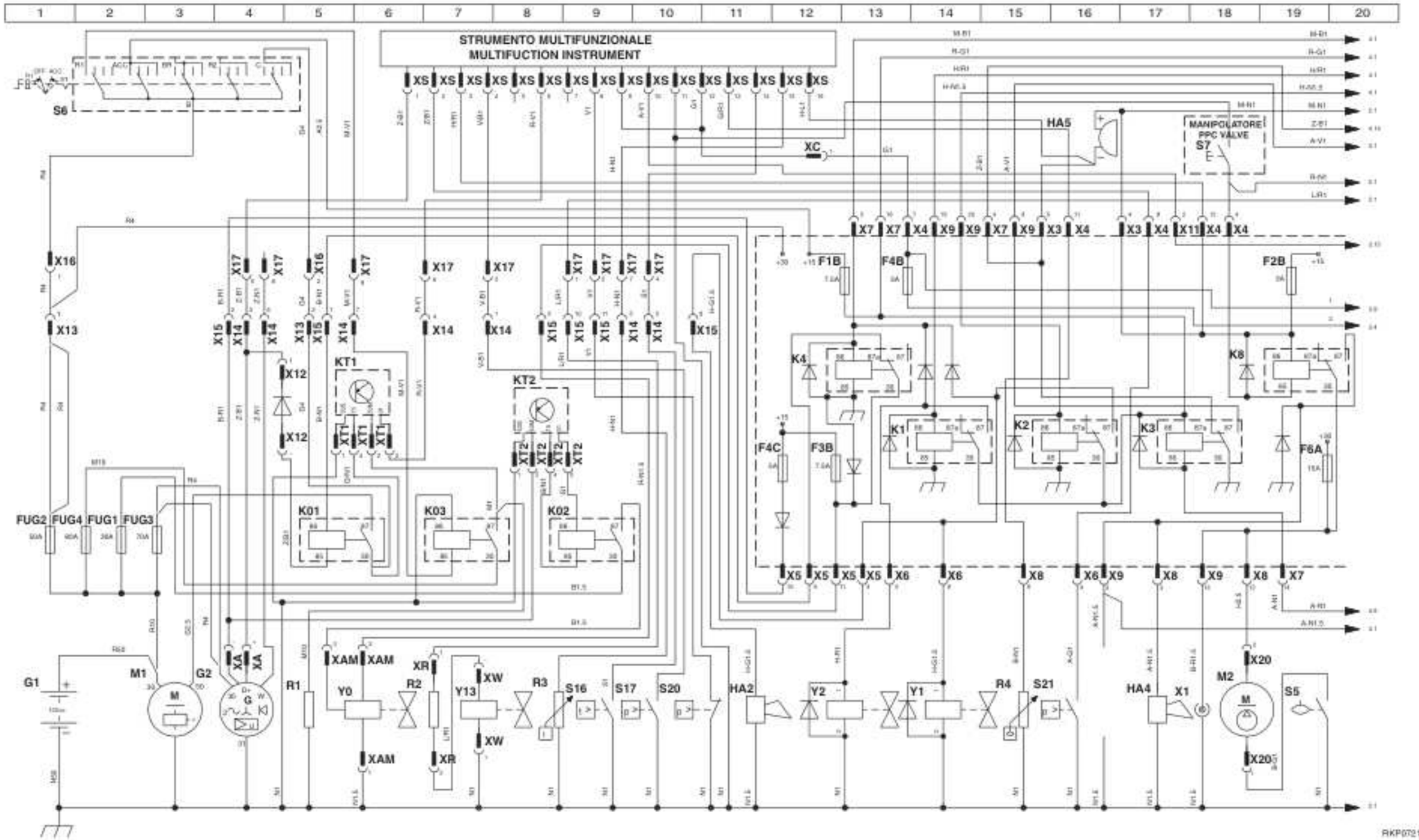
Pump characteristics



★ When measuring the deliveries with the pumps mounted on the machine, it becomes difficult to use the accelerator to set the number of engine rpm corresponding to the test speed prescribed for the pump.
Measure the delivery with the engine set to 2000 rpm, and perform a proportional calculation to find the delivery value required for the test.

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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
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
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 - PLIERS 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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