PT240
Tier 3
Pneumatic Line Roller

SERVICE MANUAL

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CASE CONSTRUCTION

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Contents

INTRODUCTION

Engine 10

[10.414] Fan and drive 10.1

[10.400] Engine cooling system 10.2

[10.001] Engine and crankcase 10.3

Transmission 21

[21.118] Transmission/Rear drive 21.1

Front axle system 25

[25.400] Non-powered front axle 25.1

Rear axle system 27

[27.100] Powered rear axle 27.1

[27.124] Final drive hub, steering knuckles, and shafts 27.2

Brakes and controls 33

[33.300] Pneumatic service brakes 33.1

[33.110] Parking brake or parking lock 33.2

Hydraulic systems 35

[35.000] Hydraulic systems 35.1

[35.300] Reservoir, cooler, and filters 35.2

Pneumatic system 36

[36.100] Pneumatic system 36.1

Frames and ballasting 39

[39.500] Vibratory roller 39.1

Steering 41

[41.101] Steering control 41.1

[41.106] Tie rods 41.2

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[41.200] Hydraulic control components 41.3
[41.206] Pump 41.4
[41.216] Cylinders 41.5
Wheels 44
[44.511] Front wheels 44.1
[44.520] Rear wheels 44.2
Cab climate control 50
[50.104] Ventilation 50.1
[50.200] Air conditioning 50.2
Electrical systems 55
[55.000] Electrical system 55.1
[55.100] Harnesses and connectors 55.2
[55.525] Cab engine controls 55.3
[55.201] Engine starting system 55.4
[55.301] Alternator 55.5
[55.302] Battery 55.6
[55.011] Fuel tank system 55.7
[55.640] Electronic modules 55.8
[55.512] Cab controls 55.9
[55.408] Warning indicators, alarms, and instruments 55.10
[55.DTC] FAULT CODES 55.11
Tools 89
[89.165] Water kit 89.1
Platform, cab, bodywork, and decals 90
[90.150] Cab 90.1
[90.114] Operator protections 90.2
[90.100] Engine hood and panels 90.3

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Hydraulic systems - Hydraulic schema

NOTE: *All numerical values on the schematics are metric.*

Schematic guide

Line color	Description
Blue	Return to tank
Green	Charge pressure

Position	Designation	Position	Designation
1	Power steering valve	6	Filter + element
2	Power steering valve	7	Safety valve
3	Edge cutter block	8	Engine
4	Compressor	9	Priority valve
5	Non-return valve	10	Logic valve

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Air conditioning - General specification

A/C system specifications

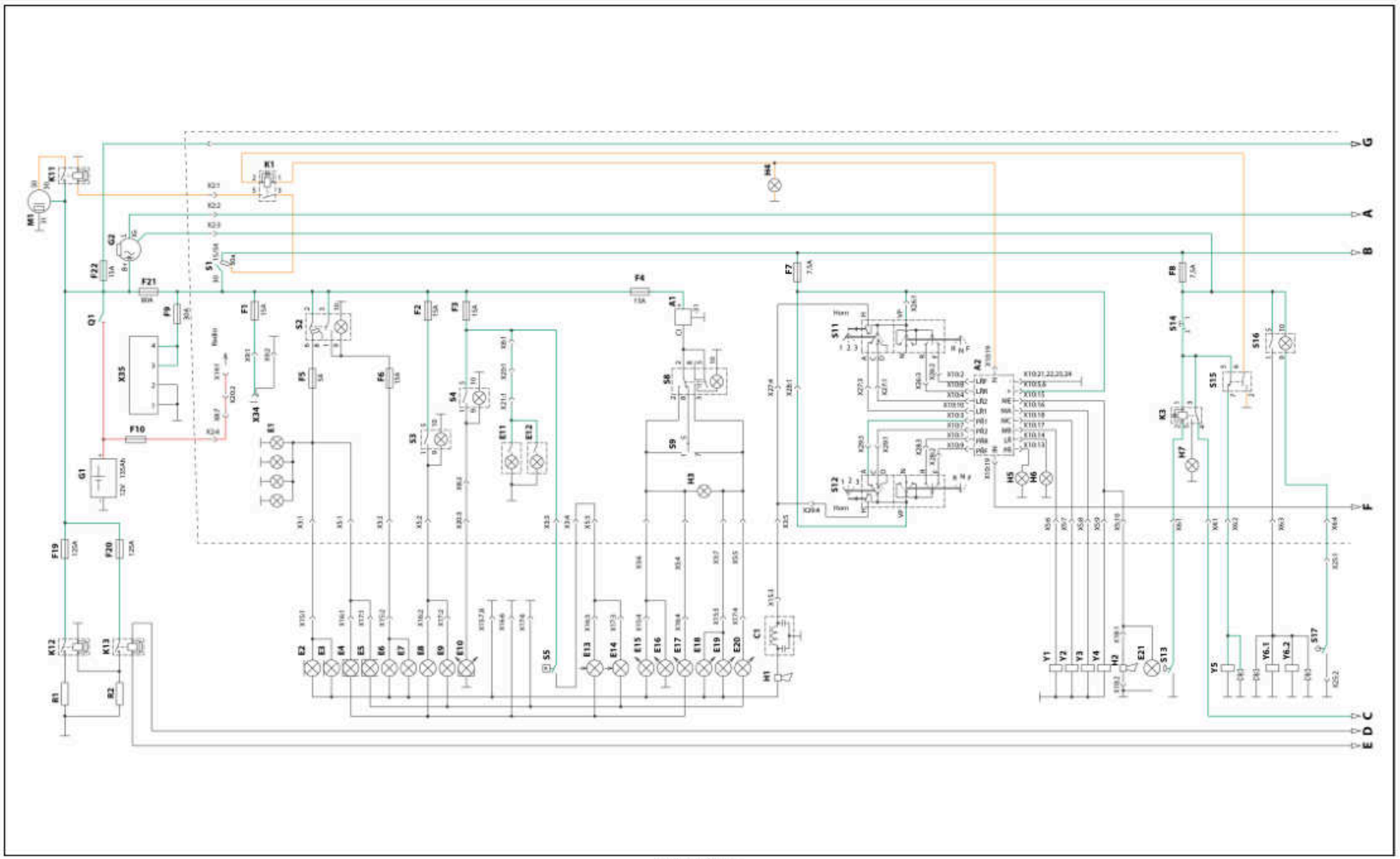
Refrigerant	**R134A**
Capacity	**1.1 kg (2.4 lb)**
Cut-off pressure for the high pressure switch	**2.65 MPa (384 psi)**
Cut-off pressure for the low pressure switch	**0.21 MPa (30 psi)**
Cut-off temperature of the freezing thermostat	**1 °C (34 °F)**

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Instrument cluster - Troubleshooting

Problem	Possible Cause	Correction
"WAIT TO START PREHEATING" is displayed	The Engine Control Unit (ECU) is telling the operator to wait before starting the engine.	When the ECU decides the engine is ready for operation, this screen will no longer appear on the multifunctional display and the operator can start the engine.
"CANBUS FAILURE" is displayed	The multifunctional display has not received any valid J1939 CAN messages for at least **30 s**.	1. Search for additional trouble codes within the system. 2. Check the CAN Bus circuit for opens, shorts, and high resistance.
"TIMEOUT ECU NOT RESPONDING" is displayed	The multifunctional display sent a request to the ECU for stored fault code (DM2) information and the ECU did not respond to the request.	1. Search for additional trouble codes within the system. 2. Check the CAN Bus circuit for opens, shorts, and high resistance. 3. This message could indicate that the ECU may not support the stored fault code (DM2) functionality over the CAN Bus.
"NO STORED CODES" is displayed	The multifunctional display sent a request to the ECU for stored fault code (DM2) information and the ECU responded. There are zero stored codes.	No action needed. The system is working as designed.
"NO GAUGE DATA" is displayed	The multifunctional display has no record of gauges connected to the RS485 bus.	1. Search for additional trouble codes within the system. 2. Check the CAN Bus circuit for opens, shorts, and high resistance.
"NOT SUPPORTED" is displayed in place of a parameter value	The ECU is transmitting a message that it does not support this parameter.	Change the parameter on the display
"NO DATA" is displayed in place of a parameter value	The multifunctional display has not received data for the selected parameter for at least **5 s**.	1. Scan for fault codes 2. Check the circuit related to the parameter
"DATA ERROR" is displayed in place of a parameter value	The ECU is transmitting a message that there is a data error with this parameter.	1. Scan for fault codes 2. Check the circuit related to the parameter
	The fuel level has been selected for display, and analog input has been set to fuel level, but no fuel sensor has been connected to the analog input.	1. Check the functionality of the fuel level sensor. 2. Check the circuit of the fuel level sensor.
One of the 4-UP quadrants is empty	No parameter has been selected for display in this quadrant.	Select a parameter to be displayed in the quadrant.
The display is not readable, very dim, or very dark	The LCD contrast may have been over or under adjusted.	Press and hold the menu button for approximately **5 s**. This will reset the LCD contrast setting to factory default.

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