Service Manual

Teletruk

From M/c No. 788001

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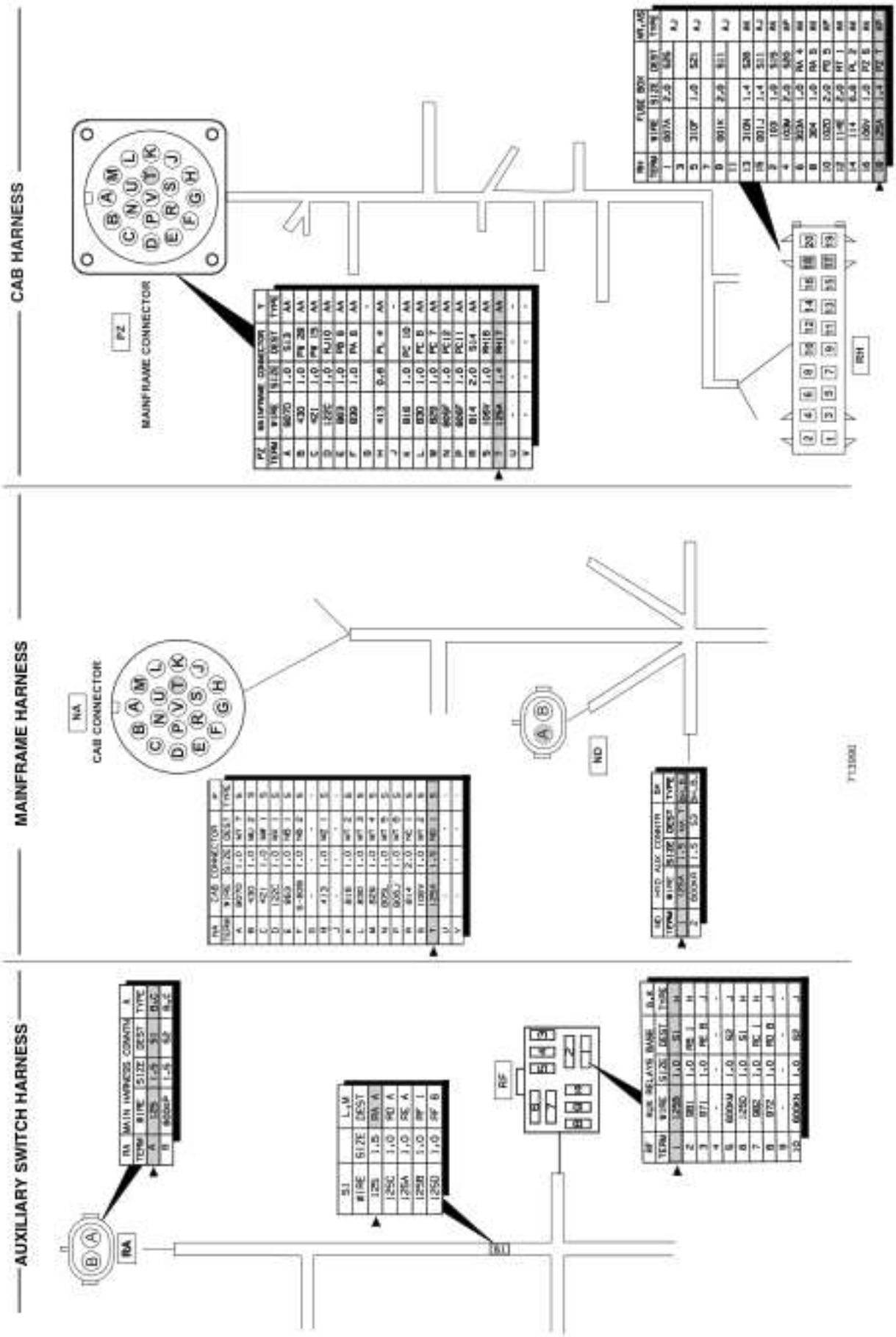
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Susmic Controller (cont)

NFPE Controller Error Codes

POWER Error
If this LED remains unlit, the controller has lost its supply from the ignition switch (engine running).

Remedy - check the ignition switch wiring and connections.

SYSTEM Error
If this LED remains unlit, there is an internal error.

MODE Error
If this LED flashes at a rate of approx. 10 flashes per second, or remains unlit, there is a software fault. The programming may have been lost or there may be a short-circuit in the external wiring.

Remedy - Check external wiring for short circuits.

STATUS Error
The following table lists the various flash patterns of this LED and their related errors.

Key to Flash Pattern	
_ _ _	Long Flashes
. . .	Short Flashes

Flash Pattern	Error	Action
_ . . .	Sensor supply voltage out of range	Check sensor supply voltage (5Volt) at sensors, sensor wiring and sensors
_____	Susmic Controller internal error	Renew controller (parts must be returned if under warranty)
_ _ . .	Brake Sensor signal incorrect	Check sensor, sensor wiring and connections Check sensor supply voltage (5Volt) at sensor Check brake sensor set-up procedure
. . _ .	Speed Sensor signal not picked up	Check speed sensor wiring and connections Check sensor supply voltage (5Volt) at sensor Check speed sensor set-up procedure
_ . _ .	Control Current error	Check pump control valve solenoid wiring and solenoid control circuits for open or short circuit
. _ _ .	Forward/Reverse Switch short-circuit	Check Forward/Reverse switch and wiring
_ _ _ .	Speed Sensor signal interrupted	Check sensor, sensor wiring and connector Check sensor supply voltage (5Volt) at sensor Check speed sensor set-up procedure
. . . _	Unloader Control	Check sensor supply (pins 9 and 22) short circuit (+) - min volune flow short circuit (-) - max volume flow open circuit - max volume flow
. _ . _	Internal error (kernal) Software	Download latest software or replace controller

Note:
. . _ . The speed sensor error will flash when the engine is not running and the ignition is switched on.

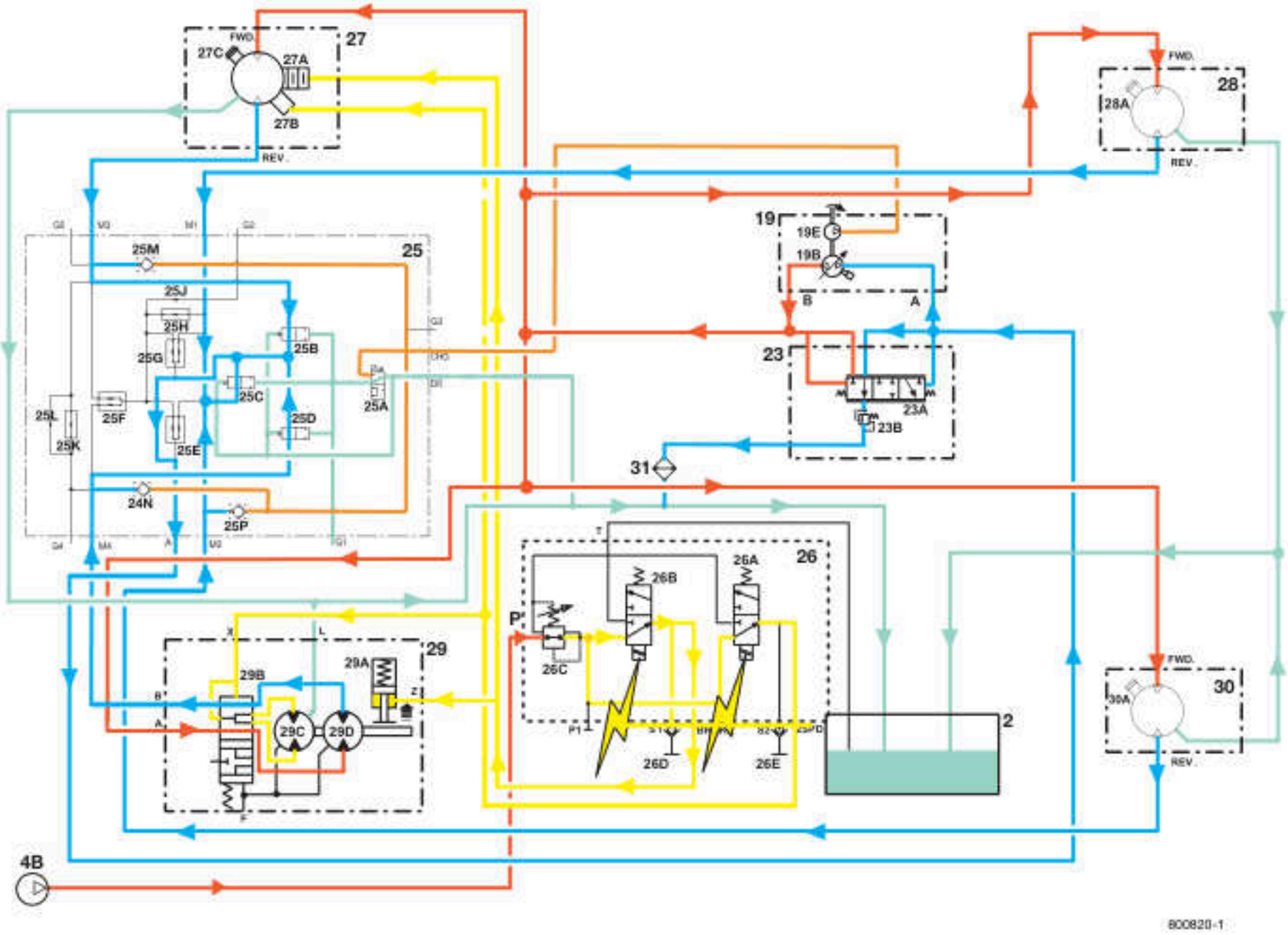
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Technical Data (cont'd)

4X4 Additional Components

* Anti-Slip Valves (3.0D)	
Maximum Flow Rate at Inlet port P	125 litres/min (27.5 gal/min)
Maximum System Pressure	480 bar (6960 lbf/in²)
Control Pressure at Port X3	35 bar (507 lbf/in²) @ max. RPM
Control Solenoid @ idle (no slip)	600 mA
Front Drive Motors (Twin Speed (Braked) MCR)	
Displacement	635 cc/rev/ 228 cc/rev
Maximum Speed	220 rpm
Maximum Flow	105 litres/min (23 gal/min)
Rear Drive Motors (Single Speed MCR 03)	
Displacement	400 cc/rev
Maximum Speed	240 rpm
Maximum Flow	40 litres/min (8.8 gal min)
Charge Pressure	TBA
Combined 2 Speed/Brake Valve	
Rated flow	11 litres/min (2.4 gall min)
Relief Valve Pressure	25 bar (363 lbf/in²)
Inlet Pressure	210 bar (3045lbf/in²)
Purge Valve	
Relief Valve Pressure	18 bar (261 lbf/in²)
Flow Rate	25 l/min (5.5 gal/min)
Transmission Pump	
Charge Pressure	
Oil temperature @ 50°C, 122°F)	32bar (464 lbf/in²) @ idle
Unloader Valve (Computer Controlled)	90-100 bar (1305- 1450lbf/in²) (0A) @ flight (2600rpm)
Unloader Settings	190 bar (2756lbf/in²) (1.2A) @ flight (2600rpm)
Flow Divider Valve (3.5D)	
* Maximum Flow Rate at Inlet port P	220 litres/min (48.4 gal/min)
Maximum System Pressure	350 bar (5076 lbf/in²)
Control Pressure at Port X3	TBA bar (TBA lbf/in²) @ max. RPM
Control Solenoid @ idle (no slip)	TBA mA
Main/Steer/Fan Pump (3.5T 4x4)	
* Type	Triple Gear Pump
Displacement	
Main Pump	21 cc/rev
Fan Pump	12 cc/rev
Steer Pump	12 cc/rev
Fan Motor (3.5T 4x4)	
* Displacement	8.4 cc/rev
Relief Valve Pressure - High Speed	95 bar (1378 lbf/in²) @ High Idle (Approx 3000 rpm)
Relief Valve Pressure - Low Speed	55 bar (797 lbf/in²) @ High Idle (Approx 2250 rpm
Direction of Rotation	Clockwise

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