

Inspection sheet for front p.t.o.s TYPE ZW starting from 2001

P.t.o. switches off respectively does not switch on again

1. Inspect electric circuit
 - At least 9 Volt at the magnetic valve.
 - Inspect all plug connections between magnetic valve and JD cable harness.
 - Check p.t.o. switch and relay in the cabin.
 - Without pulse from the rotational speed sensor the front p.t.o. switches off automatically after about 10 seconds. Control lamp blinking.

2. Inspect hydraulic circuit
 - Check oil level and refill if necessary. (see table for oil approval)
 - Check oil filter, clean it if necessary or exchange it.
 - Check pump pressure. 24 bar (see data sheet)

⇒ Pump generates no pressure – Pump or magnetic valve defective

- Check coupling pressure. Off 0 bar - On 22 bar (see data sheet)

⇒ Front p.t.o. switched off and has more than 0 bar – Magnetic valve leaking or jammed.

- Front p.t.o. switched on, pressure below 20 bar - leakage between pump and laminated disc pack

Front p.t.o. constantly running

- Magnetic valve to be inspected (see inspection electric circuit)
- Check hydraulic circuit
-

Hydraulic pump – whistling noise

⇒ Inform after sales service

Front p.t.o. switched off – rattling of the gearbox

- Check clearance of drive train.
- Inspect all screwed fastenings.
- Inspect torsion muffler (of JD).

Front p.t.o. switched on – rattling of gearbox

- Control clearance of drive train.
- Inspect all screwed fastenings.
- Inspect torsion muffler (of JD).
- Rattling noise with or without load?

Gearbox leakage

- Input shaft or output shaft
- Housing
- rotating speed sensor

- Hydraulic pump
- ⇒ Retaining ring or seal ring or gasket to be replaced

No indication of rotation speed

- Inspect all plug connections
- Entry in Bif or BCU Box to be tested.
- Rotational speed sensor adjustment to be checked and replaced, if necessary



Testing of switch-on module

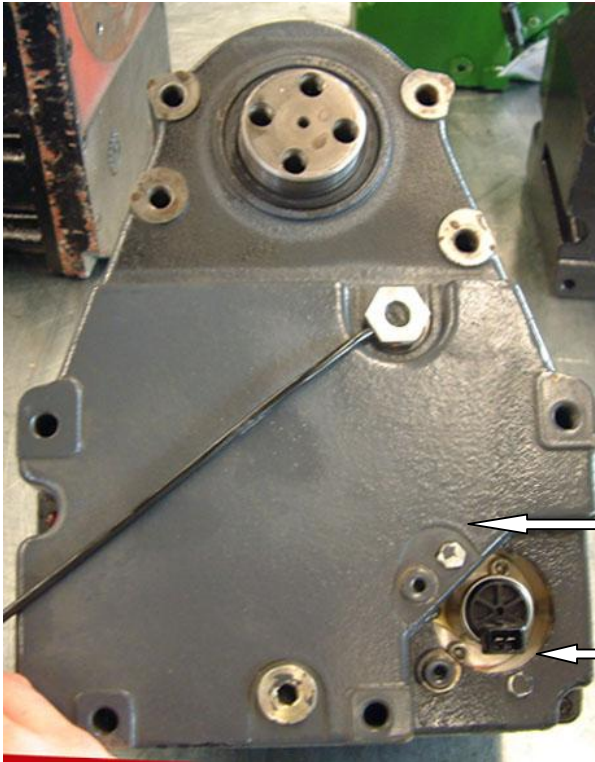
Connect ampere meter between module and magnetic valve. Target value is 1,6 Ampere!
Switch on front p.t.o., target value is 1,6 Ampere.
Value reduces to 0,1 Ampere and then increases again to 1,6 Ampere.

Approval of oil types for the front p.t.o. transmission for types ZW200, ZW400/410, ZW600/610, ZW700/710

JOHN DEERE:	Hy-Gard JDMJ 20C
SHELL:	Donax TX
ESSO:	ATF E 25131
BP:	AUTRAN DX III
CASTROL:	TRANSMAX S
ELF:	ELFMATIC G2 SYN
FINA:	FINAMATIC HP
MOBIL:	MOBIL ATF
TEXACO:	TEXAMATIC 7045
VALVOLINE:	ATF DEXRON II-E
BEVEROL:	Dextron II-E cn (Fina)matic HP
TOTAL:	Fluide AT42 cn Fluidematic Syn



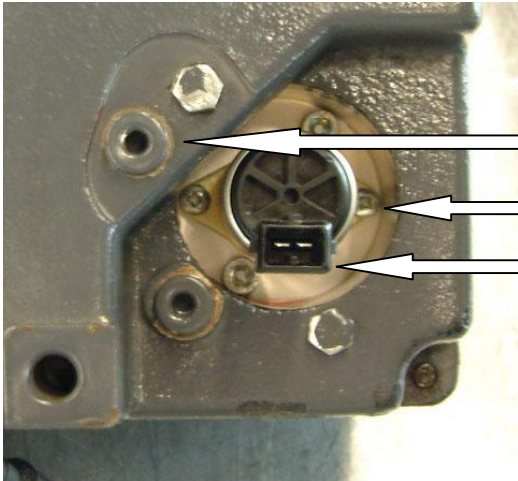
Magnetic valve with 9 Volt voltage



Hexagon bolt to be untightened for dismounting of the pump

Hexagon bolt to be untightened for dismounting of the pump

Old version

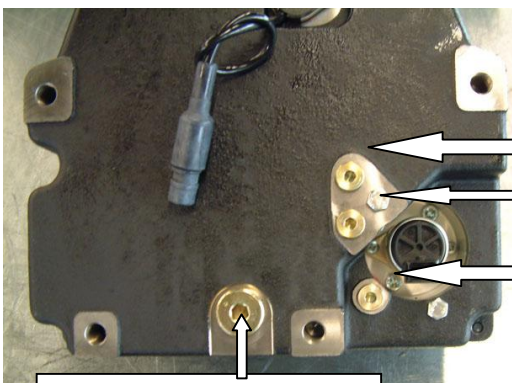


Test plug of pump pressure M10x1 24 bar

Untighten 2 cross headscrews for dismounting magnetic valve

Connection proportional valve

New version



Test plug coupling pressure M10x1
Off: 0 bar
On: 22 bar

Test plug of pump pressure M10x1 24 bar

Input oil cooler hollow bolt M10x1

Return oil cooler M18x1,5