SERVICE MANUAL

T4.85 / T4.95 / T4.105

Tractor

Part number 47531609
English
April 2013

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Top link arm - General specification Main specification of implement hitching device

Engine	Three-point linkage
Category: - All Models	2nd
Draft Control	by means of lower arms with flex bar
Maximum load that can be lifted with vertical rods pivoting in the rear hole of the horizontal arms and three--point linkage connected to upper hole of top link, with maximum working pressure: - at link arm ends- Without supplementary cylinder - With two supplementary cylinders (on request) With the centre of gravity at **610 mm** (**24.016 in**)610 mm from the forks: - Without supplementary cylinder - With two supplementary cylinders (on request)	 **3161 kg** (**6968.81 lb**) **4548 kg** (**10026.62 lb**) **3510 kg** (**7738.23 lb**) **4360 kg** (**9612.15 lb**)
End float of flex bar	**1.9 - 4.5 mm** (**0.075 - 0.177 in**)

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INT / WE markets, power shuttle transmission with Hi-Lo, with cab
Harnesses and connectors - Electrical schematic frame 18 (55.100-C.20.E.18)
INT / WE markets, power shuttle transmission, with cab
Harnesses and connectors - Electrical schematic frame 18 (55.100-C.20.E.18)
NA market, power shuttle transmission, with cab
Harnesses and connectors - Electrical schematic frame 18 (55.100-C.20.E.18)
Power shuttle transmission, cabless
Harnesses and connectors - Electrical schematic frame 18 (55.100-C.20.E.18)
Mechanical transmission, cabless
Harnesses and connectors - Electrical schematic frame 18 (55.100-C.20.E.18)
INT / WE markets, mechanical transmission, with cab
Harnesses and connectors - Electrical schematic frame 18 (55.100-C.20.E.18)
NA market, mechanical transmission, with cab
Harnesses and connectors - Electrical schematic frame 18 (55.100-C.20.E.18)

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2028-Not calibrated , Clutch B not calibrated

Control Module : XCM (multi-function CM)

Context:
Effects:
Poor performance of the uncalibrated clutch.

Possible failure modes:

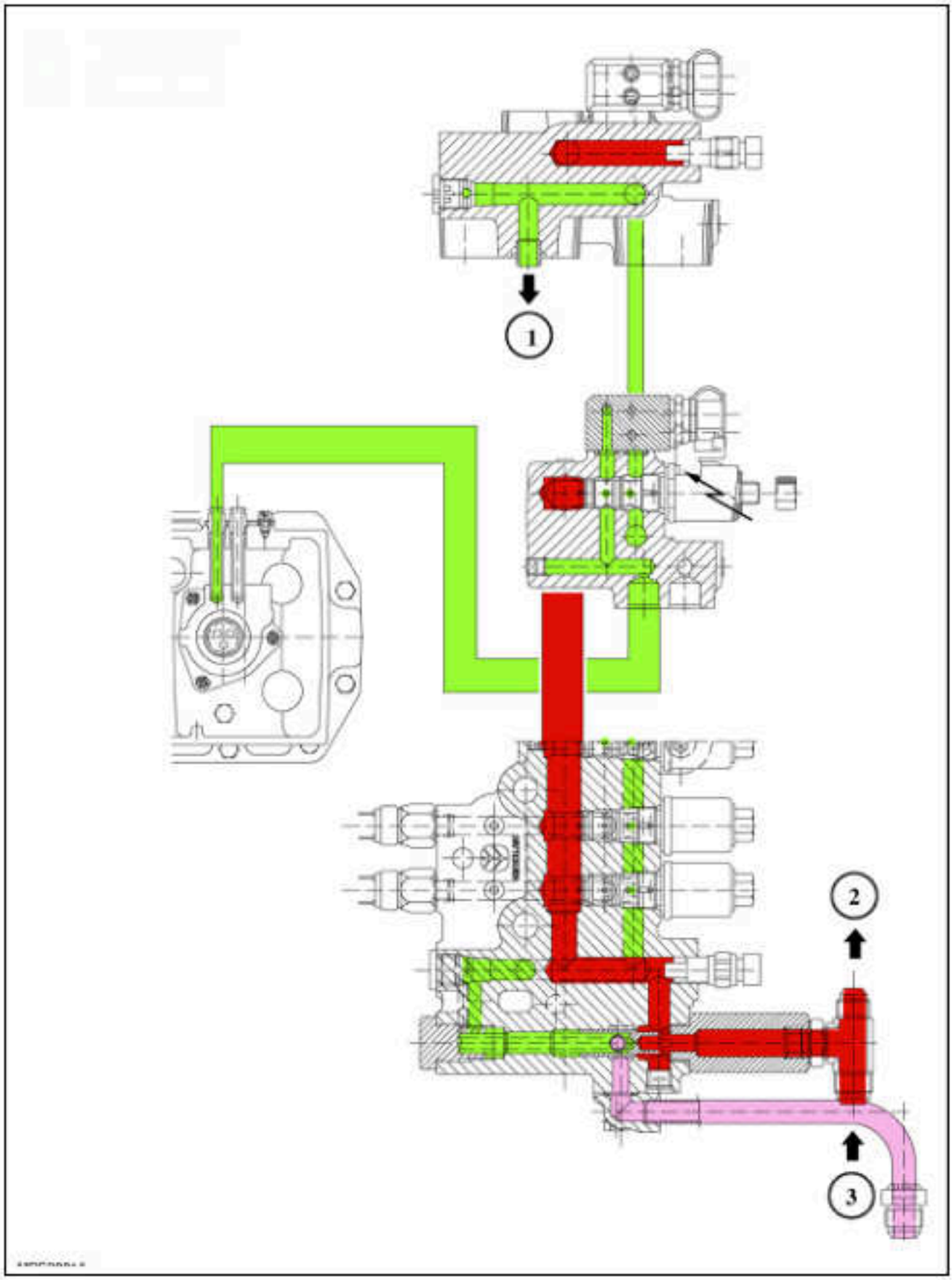
1. Transmission not calibrated
2. Clutch B solenoid valve fault
3. Hydraulic circuit fault
4. Mechanical failure

Solution:

1. Check whether the transmission has been calibrated.
   A. If the transmission has not been calibrated since replacing the control unit (**XCM**), or since using **H8**, delete the **EEPROM** memory and run the transmission calibration procedure.
   B. If the transmission has been calibrated, download the correct level of the software and run the calibration procedure again. If the fault re--occurs again, continue to step **2**
2. Check for other error codes being displayed.
   A. If other error codes are displayed, continue with these tests.
   B. If no other error code is displayed, continue to step **3**
3. Check the solenoid valve of the broken clutch.
   A. Remove the solenoid, clean or replace as required.
   B. If the error code is still displayed, continue to step **4**
4. Check the clutch pack pressures.
   A. If the pressures indicated are approximately **16 bar** (**232.00 psi**), possible mechanical fault within the transmission. If the pressures of all the clutches are low, continue to hydraulic troubleshooting procedures.
   B. If the pressures indicated are not approximately **16 bar** (**232.00 psi**) on one or more of the clutches. there may be an internal leak in the transmission.

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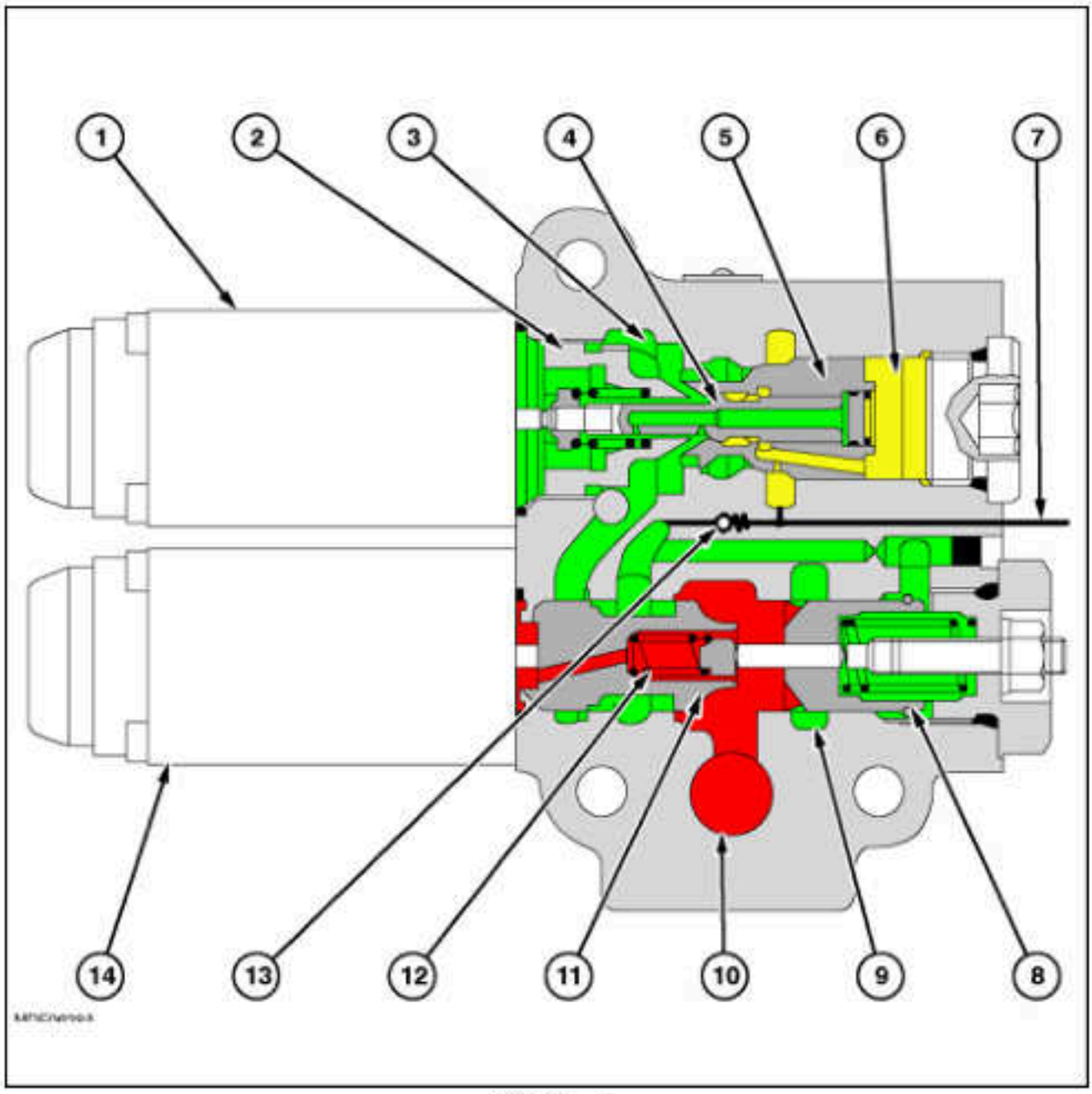
Power shuttle transmission - Hydraulic schema Power Shuttle transmission with Dual Command (2 Speed Power Shift) function (24+24) -- Clutch C in discharge



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Command valve - Dynamic description

Electronically controlled lift functional diagram. Neutral phase



: Oil at static rest.
: Pressurized oil.
: Discharge oil.

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Harnesses and connectors - Electrical schema INPUT/OUTPUT WIRING DIAGRAM FOR THE CENTRAL CONTROL UNIT (CCU)

T4.85, less cab, with mechanical or power shuttle transmission [ZxJY5xxxx] Transmission - Mechanical, T4.85, with cab, with mechanical or power shuttle transmission [ZxJY5xxxx] Transmission - Mechanical, T4.85, less cab, with mechanical or power shuttle transmission [ZxJY5xxxx] Transmission - Mechanical, T4.85, with cab, with mechanical or power shuttle transmission [ZxJY5xxxx] Transmission - Mechanical, T4.95, less cab, with mechanical or power shuttle transmission [ZxJY5xxxx] Transmission - Mechanical, T4.95, with cab, with mechanical or power shuttle transmission [ZxJY5xxxx] Transmission - Mechanical, T4.95, less cab, with mechanical or power shuttle transmission [ZxJY5xxxx] Transmission - Mechanical, T4.95, with cab, with mechanical or power shuttle transmission [ZxJY5xxxx] Transmission - Mechanical, T4.105, less cab, with mechanical or power shuttle transmission [ZxJY5xxxx] Transmission - Mechanical, T4.105, with cab, with mechanical or power shuttle transmission [ZxJY5xxxx] Transmission - Mechanical, T4.105, less cab, with mechanical or power shuttle transmission [ZxJY5xxxx] Transmission - Mechanical, T4.105, with cab, with mechanical or power shuttle transmission [ZxJY5xxxx] Transmission - Mechanical

CONNECTION	DESCRIPTION
EDC + EHR	
X-200-20	+12 VH
X-210-29	EXT UP
X-210-30	EXT DOWN
X-210-20	RAISE SW
X-210-18	WORK SW
X-210-6	R/L_FAULT_SW
X-210-2	ROCK SHAFT SENSOR
X-210-3	POSITION
X-210-8	DRAFT
X-210-5	HEIGHT LIM
X-210-7	MAX SLIP
X-210-4	DROP RATE
X-210-6	SENS/MIX
X-210-10	LEFT PIN
X-210-25	VPINS(+8.5V)
X-210-9	RIGHT PIN
X-210-19	RADAR PRESENT (Hi = PRESENT)
X-210-33	RADAR GROUND SPEED
X-220-14	EHR ENCODER 1
X-240-20	EHR ENCODER 2
X-210-27	EHR ENC ENTER
X-210-24	EHR FLOAT SW
X-230-3	HYDR MASTER SWITCH
X-220-19	STAT LAMP
X-220-24	SLIP LAMP
X-220-11	RAISE LAMP
X-220-25	LOWER LAMP
X-200-5	RAISE SOLENOID
X-220-4	RAISE SOLENOID
X-200-12	LOWER SOLENOID
X-220-5	LOWER SOLENOID
X-240-29	EHR STOP LAMP
ETC	
X-200-14	+12VP
X-230-14	CRANKING SW
X-230-4	Gear 1-2
X-230-5	RANGE 1 SW
X-230-26	RANGE 2 SW
X-210-21	SAFETY Pr. SW A
X-210-28	SAFETY Pr. SW B
X-230-1	FUSE SENS
X-210-14	TRANS OIL TEMP
X-210-14	WHEEL SPEED
ETC	
X-200-1	+12 VF
X-200-8	+12 VD
X-240-26	DISABLE_DRIVE
X-230-15	FOR_OR_REV_SW
X-230-13	NEUTRAL_SW
X-210-12	FORWARD_SW
X-210-13	REVERSE_SW
X-210-17	5VREF
X-230-7	CLUTCH PEDAL POT
X-240-24	REACTIVITY LOW
X-240-33	REACTIVITY HIGH
X-200-4	CLUTCH A SOLENOID
X-240-1	CLUTCH A SOLENOID
X-200-11	CLUTCH B SOLENOID
X-240-2	CLUTCH B SOLENOID
X-200-6	CLUTCH C SOLENOID
X-240-3	CLUTCH C SOLENOID
X-220-18	LOADER READY n°1
X-240-27	LOADER READY n°2
X-240-28	LOADER READY n°2
X-200-19	POWER GROUND (PGND)

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