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FINAL DRIVES

GENERAL DATA

The filler and oil level plugs are positioned at a different height as the final drives are installed inclined.

Depending on whether the final drive is installed on the left or the right-hand side, one plug is for checking the oil level and one for filling. The lower plug will always be the oil level plug.

Maintenance

Change the oil:

- after 100 working hours
- after 200 working hours
- every 400 working hours thereafter, or annually

Gear ratio

- TX62 11/68
- TX64-65-66 10/75
- TX68 11/111

Final drive capacity

- Gear ratio 11/68: 5 litres each
- Gear ratio 10/75: 5 litres each
- Gear ratio 11/111: 6 litres each

Oil specification

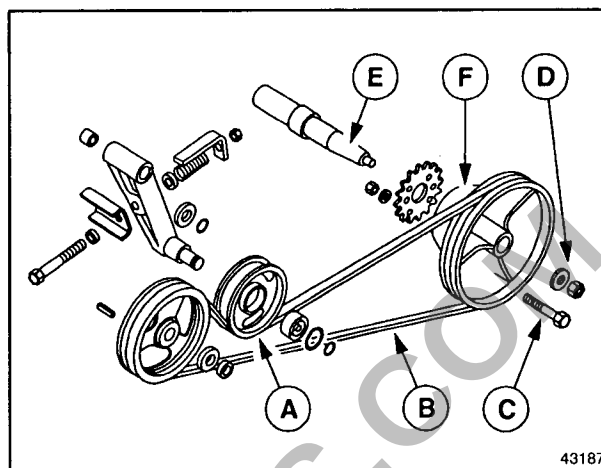
Use AMBRA Hypoid 90 gear oil (ref. NH520A) or an oil meeting the following specification:

- API-GL-5 or MIL-L-2105-D
- Viscosity grade: SAE 80W-90

WOBBLE BOX DRIVE PULLEY ON MAIN DRIVE

To remove the pulley, proceed as follows:

1. Loosen the auger chain idler and open the chain.
2. Loosen the wobble box belt idler A and remove belt B.
3. Remove three evenly spaced bolts of the six bolts C of the pulley-sprocket assembly.
4. Insert three threaded rods M8 to enable the removal of the pulley by means of a puller (special tool, part n° 80434629).



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IMPORTANT:

Do not pull at the outside of the pulley.

5. Remove nut and washer D.
6. Clean up the conical part of shaft E. If there are traces of slippage, polish shaft E. Degrease the conical part of shaft E.
7. Clean up the conical part of pulley F. If there are traces of slippage, polish the conical part of pulley F. Degrease the conical part of pulley F.
8. If severe traces of slippage were present and no service parts (shaft and pulley) are available, the use of Loctite® 242 or 601 is recommended. Reassemble pulley F on shaft E with the washer and nuts.
9. Tighten nut D with a torque of 150 Nm.
10. Beat up the pulley on the shaft and retighten nut D with a torque of 150 Nm. Repeat that action a second time.
11. Reassemble sprocket bolts, chain and belt.

CONCAVES

TYPES OF CONCAVES

Standard beater concave

Used for harvesting most crops.

Beater concave for rice

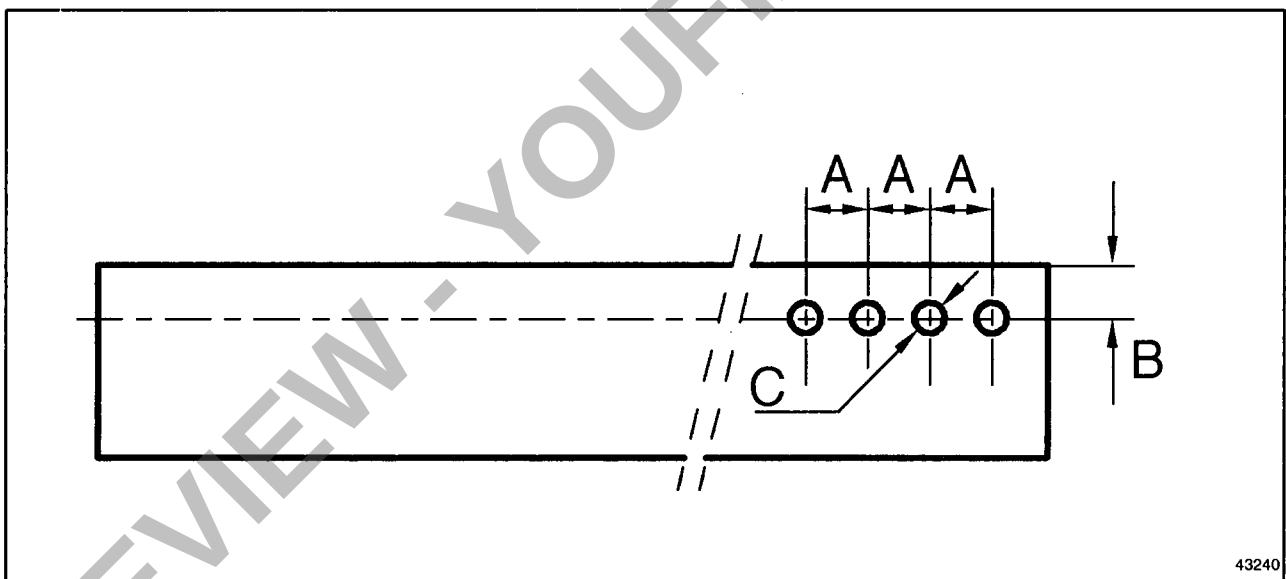
Used for harvesting rice.

The quantity of concave wires is 1/3 of the quantity of wires fitted to a standard beater concave.

Rotary separator concave

Used for harvesting all crops.

CONCAVE SPECIFICATIONS - Figure 2



2

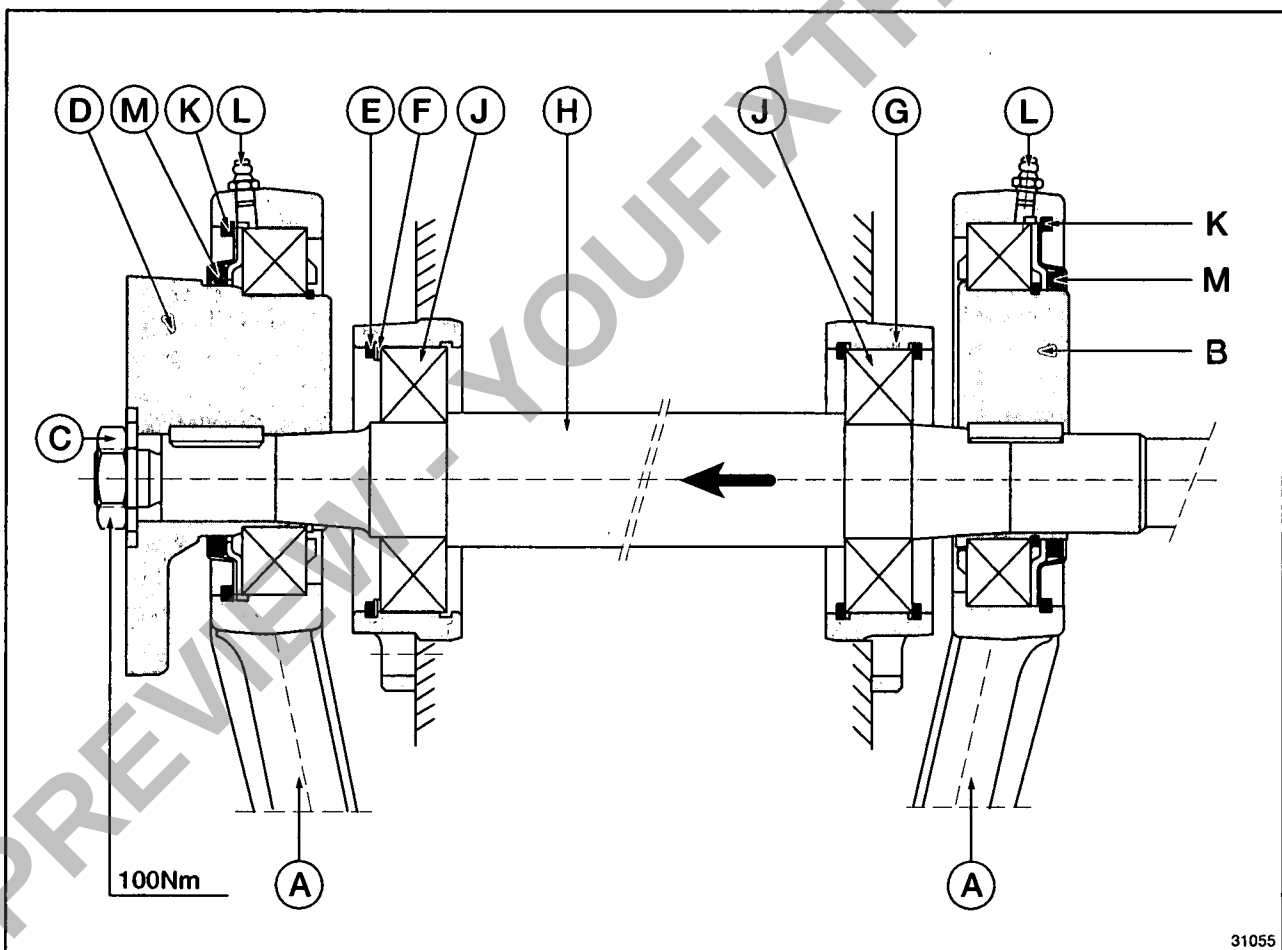
Concave type	Wire distance A	Wire distance B	Wire diameter	Number of bars
Standard beater concave	32 mm	11 mm	6 mm	8
Beater concave for rice	130 mm	11 mm	6 mm	8
Rotary separator concave	32 mm	11 mm	6 mm	12

Installation

Proceed in reverse order of the removal sequence.

Installation remarks:

1. Grease the bearing seals before installation of bearings J.
2. When the eccentric blocks B and/or D have been removed from conrods A, take care that the opening of circlip K is installed on the opposite side (180°) of grease fittings L.
3. Oil seal M before re-installation.
4. Tightening torque of left-hand side eccentric block bolt is 100 Nm.



31055

STRAW CHOPPER CLUTCH

A. Removal of the chopper clutch -

Figures 42 to 44

1. Open the unloading tube.
2. Remove guards A and B to gain access to the straw chopper clutch.
3. Loosen the tension of both belts C and D, and remove cover E.
4. Disconnect the electric connector at the clutch and support the clutch.
5. Remove four mounting bolts N of the inner bearing H and four mounting bolts G of plate F.
6. Remove the clutch assembly.

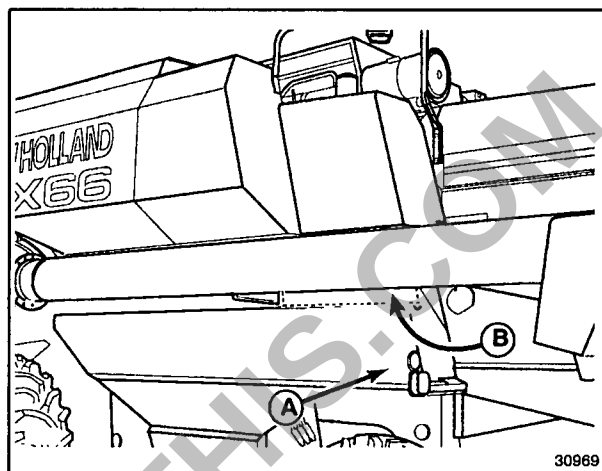


WARNING:

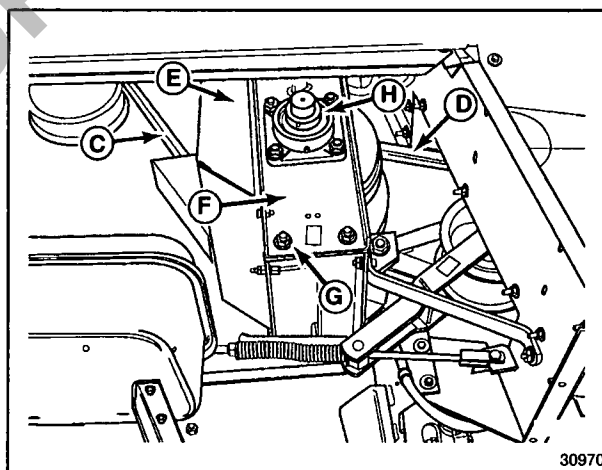
**The clutch assembly is heavy.
Take care when removing it.**

7. Loosen locking collars J, and bearings H and I.
8. Remove the shaft stop M, and pulleys K and L.

To reinstall, proceed in reverse order of the removal sequence.

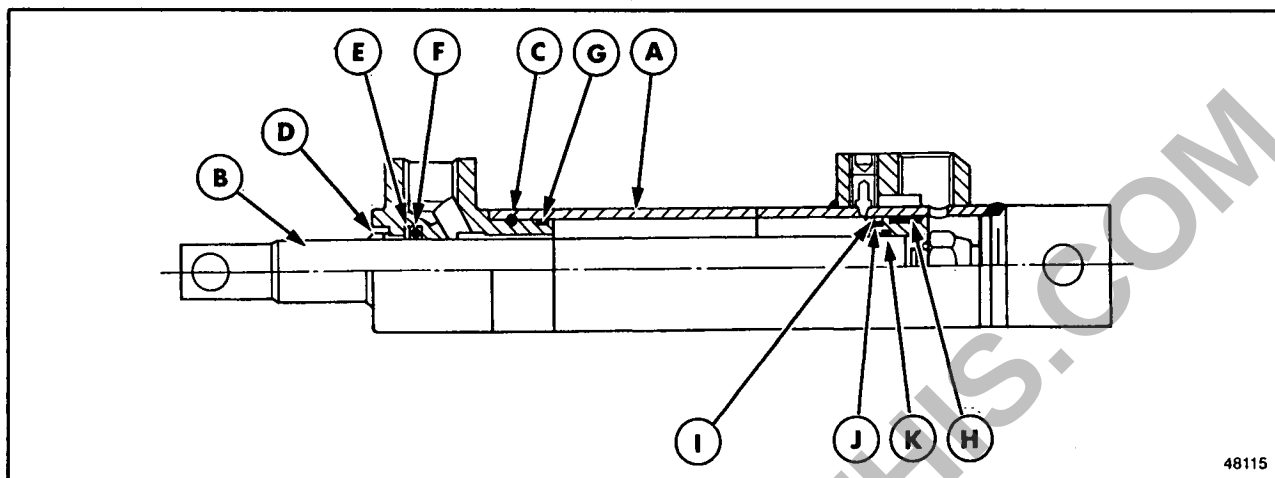


42

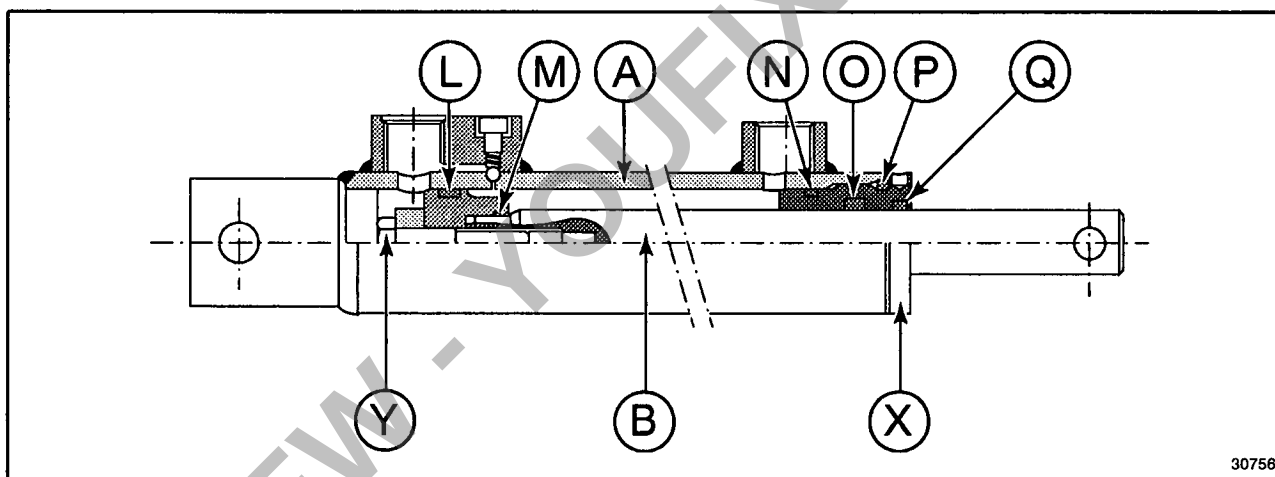


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HORIZONTAL REEL ADJUSTMENT MASTER CYLINDER (left-hand side) - Figures 67 and 68


48115

67


30758

68

- A Cylinder
- B Piston rod
- C Locking wire
- D Scraper ring
- E Backing ring
- F O-ring
- G O-ring
- H Piston guide ring
- I Piston seal
- J O-ring underneath the piston seal
- K O-ring
- L Piston guide ring

- M Seal
- N Seal
- O Guide ring
- P Seal
- Q Seal
- X Cylinder head
- Y Bolt (torque 34 Nm)

NOTE:

Refer to Figure 67 when "0530313905" is engraved in the cylinder (seal kit n° 89832746).

Refer to Figure 68 when "SV...." is engraved in the cylinder (seal kit n° 84026460).

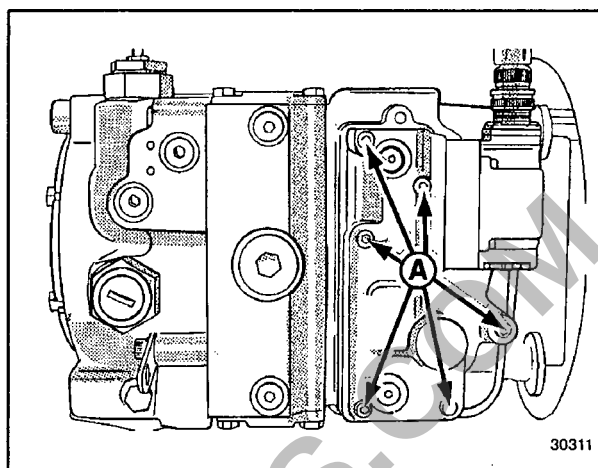
Control valve replacement

1. Remove the six cap screws A and lift control valve B with gasket away from the housing (Fig. 21).



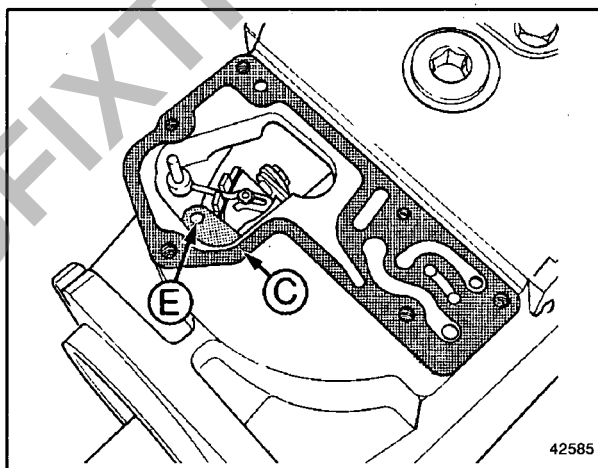
CAUTION:

Protect exposed surfaces and cavities from damage and foreign material. Foreign material may cause uncontrolled movement of the combine.



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2. Place a new gasket C (Fig. 22) on the housing. Check that the control orifice and springs are in the proper position.

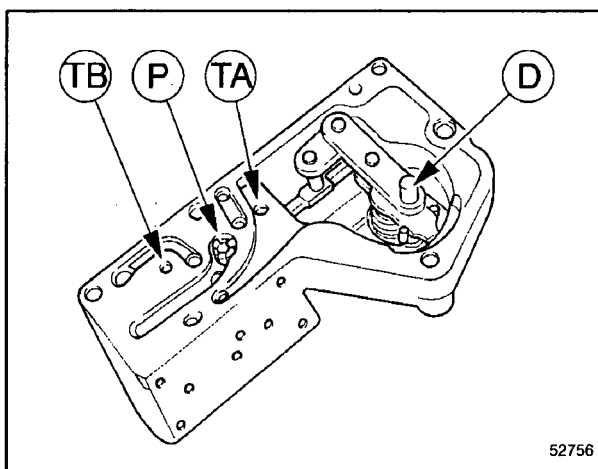


22

3. Engage pin D (Fig. 23) on the control linkage in mating hole E (Fig. 22) in the link attached to the swash plate. Check engagement of the pin in the link by moving the valve slightly from one side to the other.
4. Position the control into place against the pump housing, align the gasket and install the screws and torque to 16 Nm (Fig. 21).

IMPORTANT:

A servovalve ordered through New Holland Logistics does not contain an orifice in ports TB, P and TA. Remember to remove these orifices from the old part and install them into the new valve.



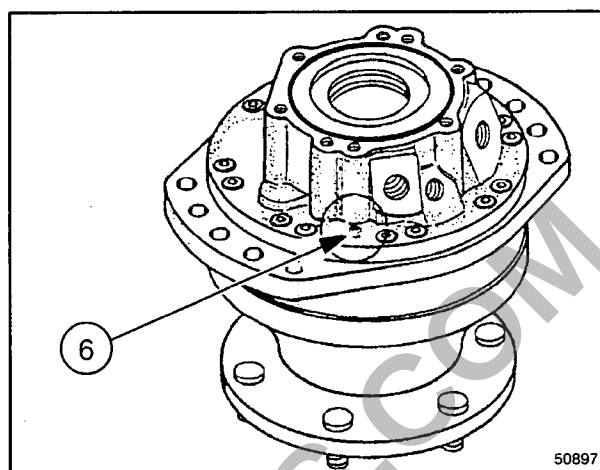
23

32. Refer to Figures 106 and 107.

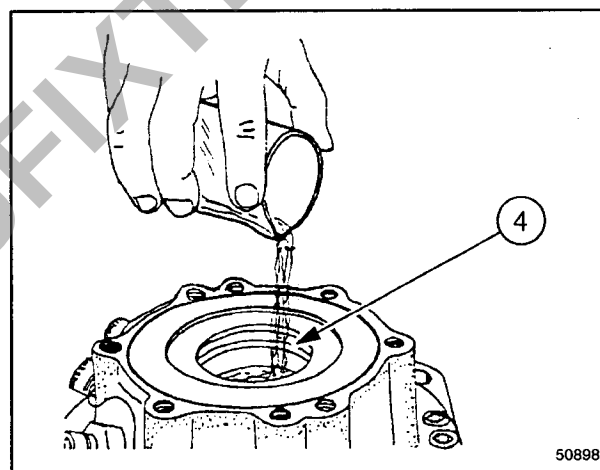
Remove one or both bleed screws 6 from distribution cover 2, using 7 mm hex key. Fill motor through distributor cavity 4 with approximately one litre of fresh hydraulic oil, or until oil flows out of bleed screw hole(s).

NOTE:

Use hydraulic oil that meets or exceeds specification for hydrostatic system of machine.



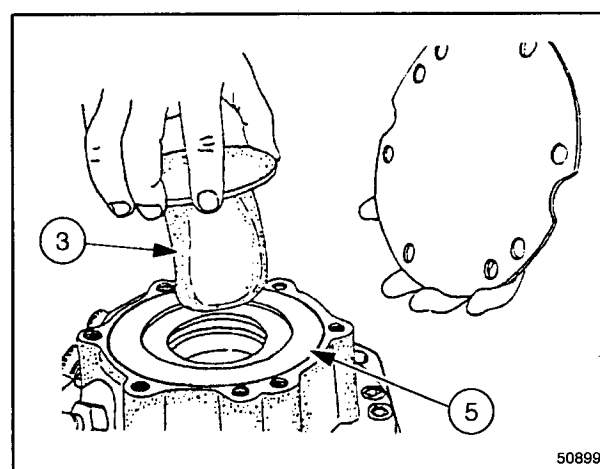
106



107

33. Refer to Figure 108

Reinstall and tighten bleed screw(s). Reinstall accumulator 3 back into distributor cavity 4. Lightly coat O-ring seal 5 with clean hydraulic oil and reinstall cover plate onto distribution cover. Tighten cover plate bolts to Torque 120 Nm.



108

LOCATION OF MAIN COMPONENTS

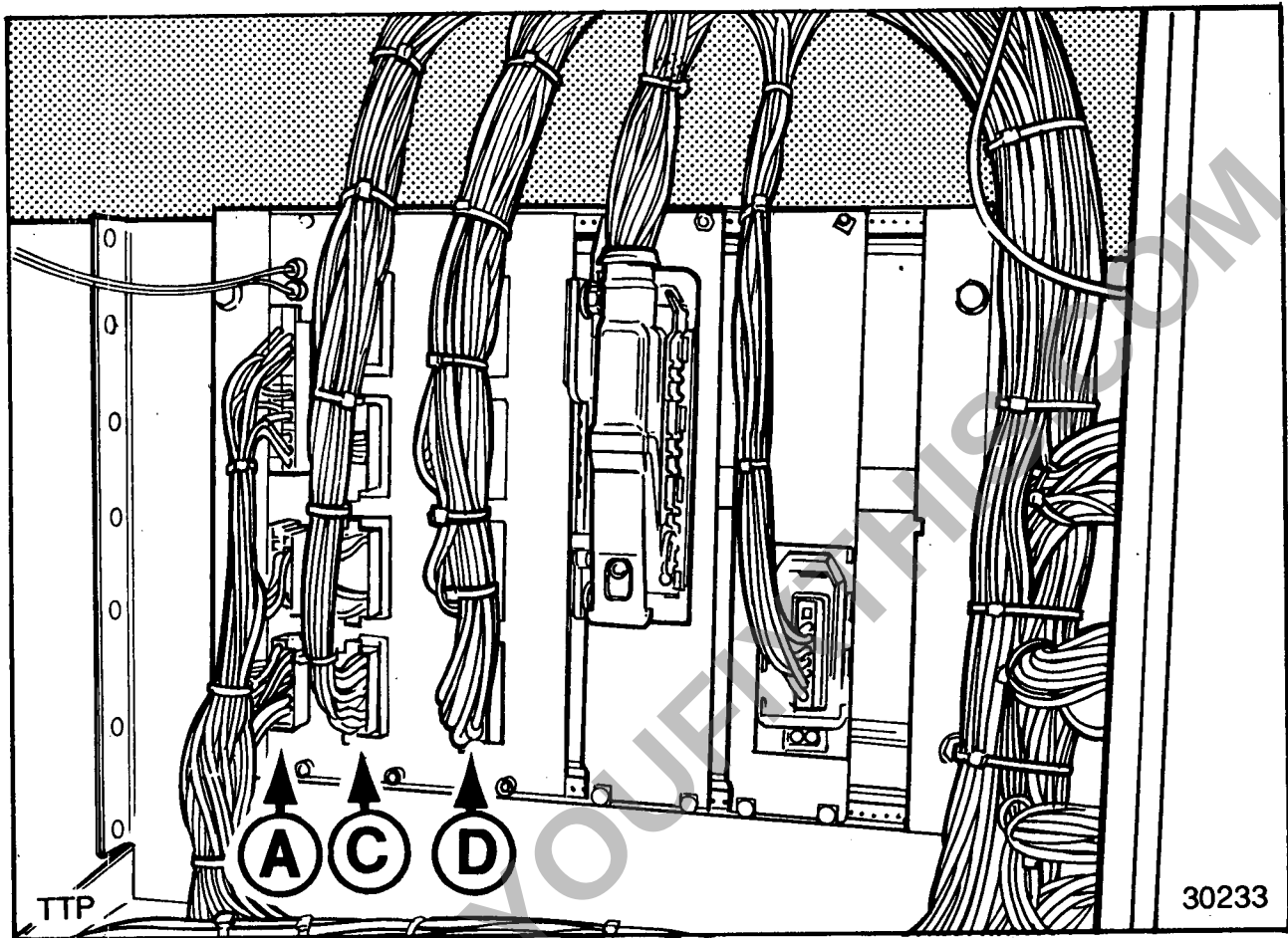


Fig.1

F17.	15A	Headlights	9160
			9190
			10240
			10310
F18.	15A	Headlights	9140
			10210
			10290
F19.	10A	Header height control	6390
			7170
F20.	25A	Stubble lights + side light	10130
F21.	15A	Operating lights on railing (inner side of lights) + light in grain tank	10050
F22.	10A	Light on unloading tube	9920
F23.	15A	Plugs - radio - CB - clock - light in cab	10720
F24.	10A	Threshing mechanism - Header height adjustment Central Process Unit	6540
			7250
F25.	10A	Sieve levelling system	3600
F26.	25A	Straw chopper	2940
		Threshing mechanism safety	3960
F27.	10A	Central Process Unit	7190
			7220
F28.	10A	Powered rear axle	1010
	25A	Powered rear axle	1010
		Engine throttle mechanism	1230
		Engine throttle mechanism	1300
		Alarm leds and buzzer	1960
		Printed circuit - Drum concave position	3840
		Reel variator	4980
F29.	10A	Valve for - Opening unloading auger	4470
		Valve for - Reel vertical	4780
F30.	10A	Lighting dashboard switches	960
			1210
			1700
			2620
			2950
			3310
			3850
			3950
			4320
			4370
			4500
			4970
			5220
		Display	8240
		Gauge lighting	8510
			8520
		Lighting dashboard switches	9910
F31.	15A	Stop solenoid	1560
		Leds on dashboard	1900

2F HYDROSTATIC SYSTEM - POWERED REAR AXLE (REMOTE GEARSHIFTING)

TX67 44.01 ⇒

		Line
A12.	Printed circuit - Hydrostatic drive (underneath multifunction handle)	890
B40.	Reversing drive buzzer	930
F28.	10A Powered rear axle	1010
F30.	10A Dashboard lighting switches	960
R5.	Hydrostatic handle position	870
S14.	Powered rear axle	980
S31.	Neutral start switch	910
Y22.	Solenoid - Powered rear axle drive	990
Y28.	Solenoid - Hydrostatic pump	910

Lines: 860 - 1020

7A QUICK-STOP (REMOTE GEARSHIFTING)

TX67 1070 ⇒

		Line
A38.	Printed circuit - Remote gearshifting	1810
Y47.	Quick-stop valve	1780

Lines: 1710 - 1870

14B THRESHING, UNLOADING AND HEADER ENGAGEMENT

TX62 48.1033 ⇒ TX63 46.1044 ⇒

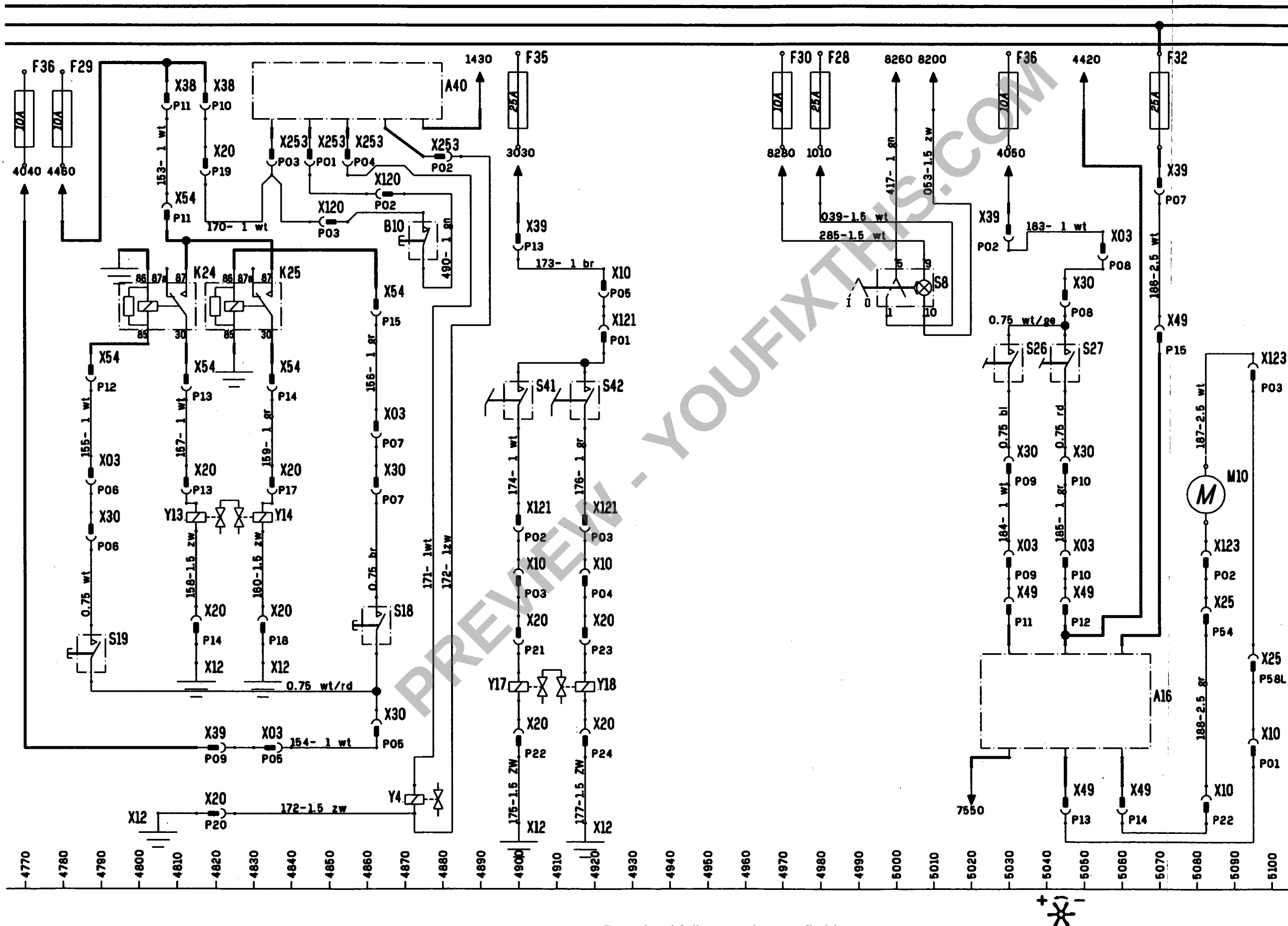
		Line
F26.	25A Threshing mechanism safety	3960
F36.	10A Quick-stop	4020
S48.	Threshing mechanism engaged	3930
S49.	Header mechanism engaged	4060
S50.	Unloading mechanism engaged	4010
V12.	Safety - engaging threshing mechanism	3950
V13.	Safety- engaging unloading mechanism	3980

Lines: 3920 - 4080

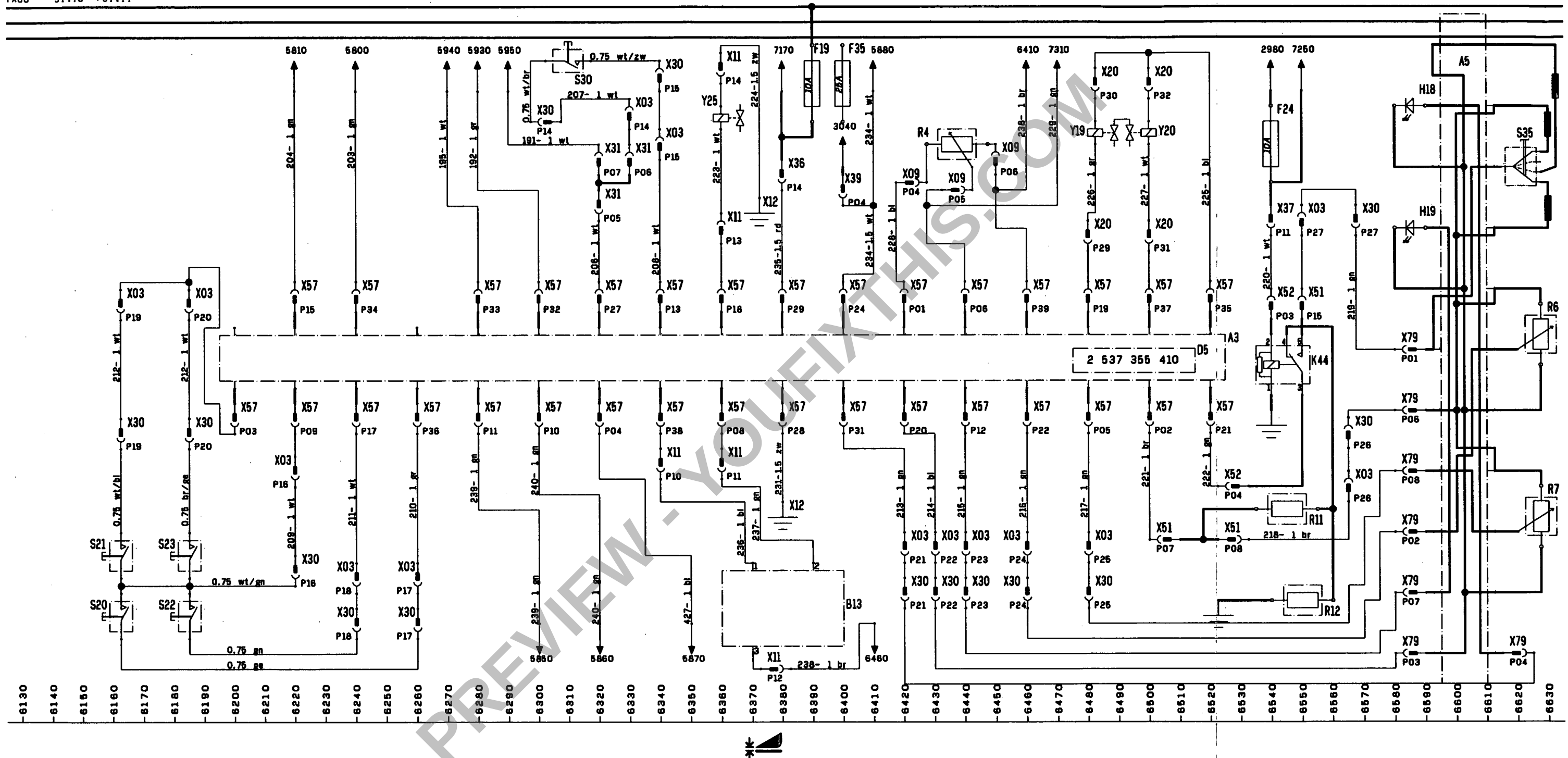
17j. Reel control + Hydraulic pilot valve control

TX64 49.20 > 1066 TX65 66.20 > 1066 TX66 50.26 > 1066

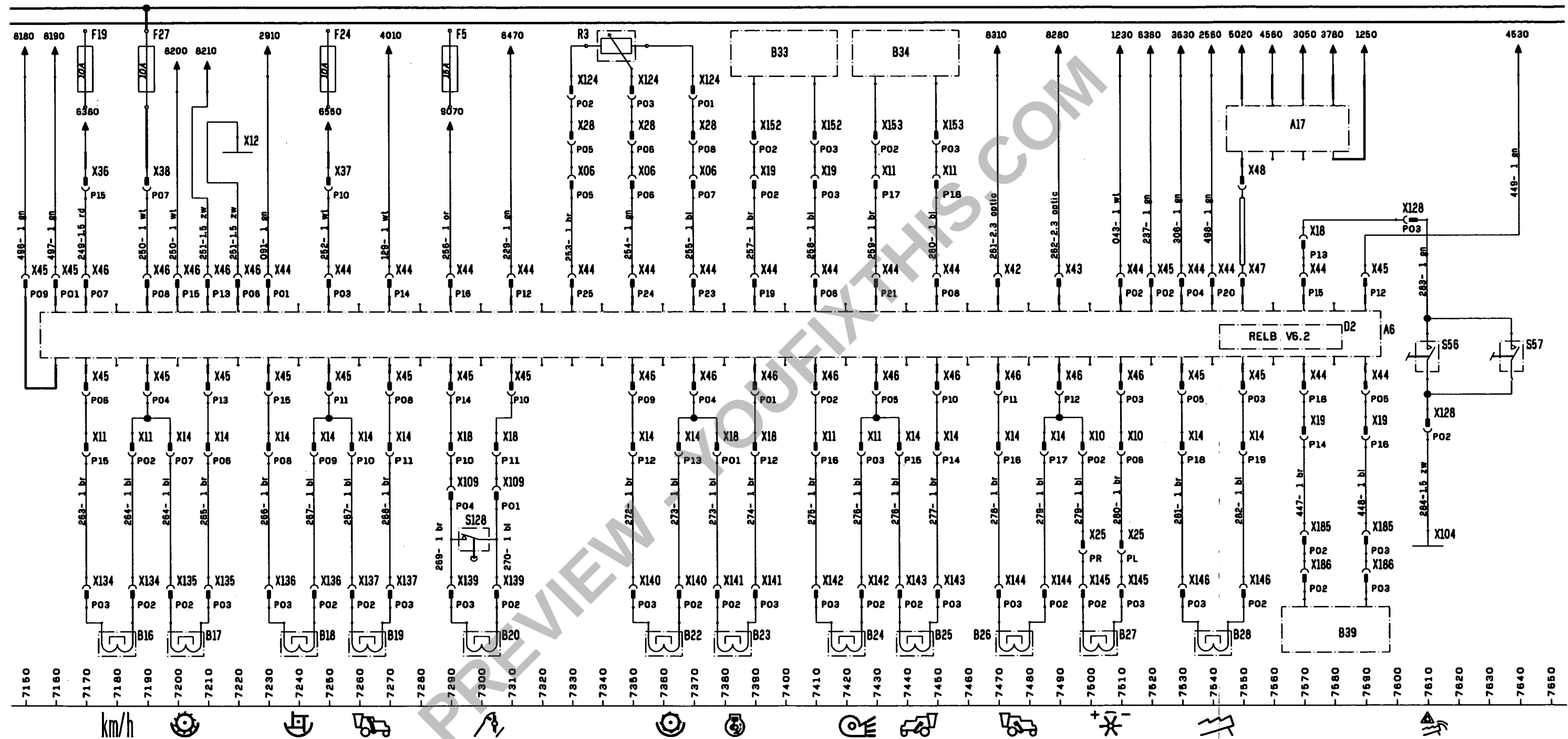
TX67 44.01 > 1066 TX68 51.26 > 1066



22g Header height adjustment
 TX64 49.04 >49.06 TX65 66.04 >66.06 TX66 50.10 >50.11
 TX68 51.10 >51.11



24m CPU and sensors
 TX64 49.1033> 1242 TX65 66.1033> 1242 TX66 50.1035> 1242
 TX67 44.1044> 1242 TX68 51.1035> 1242



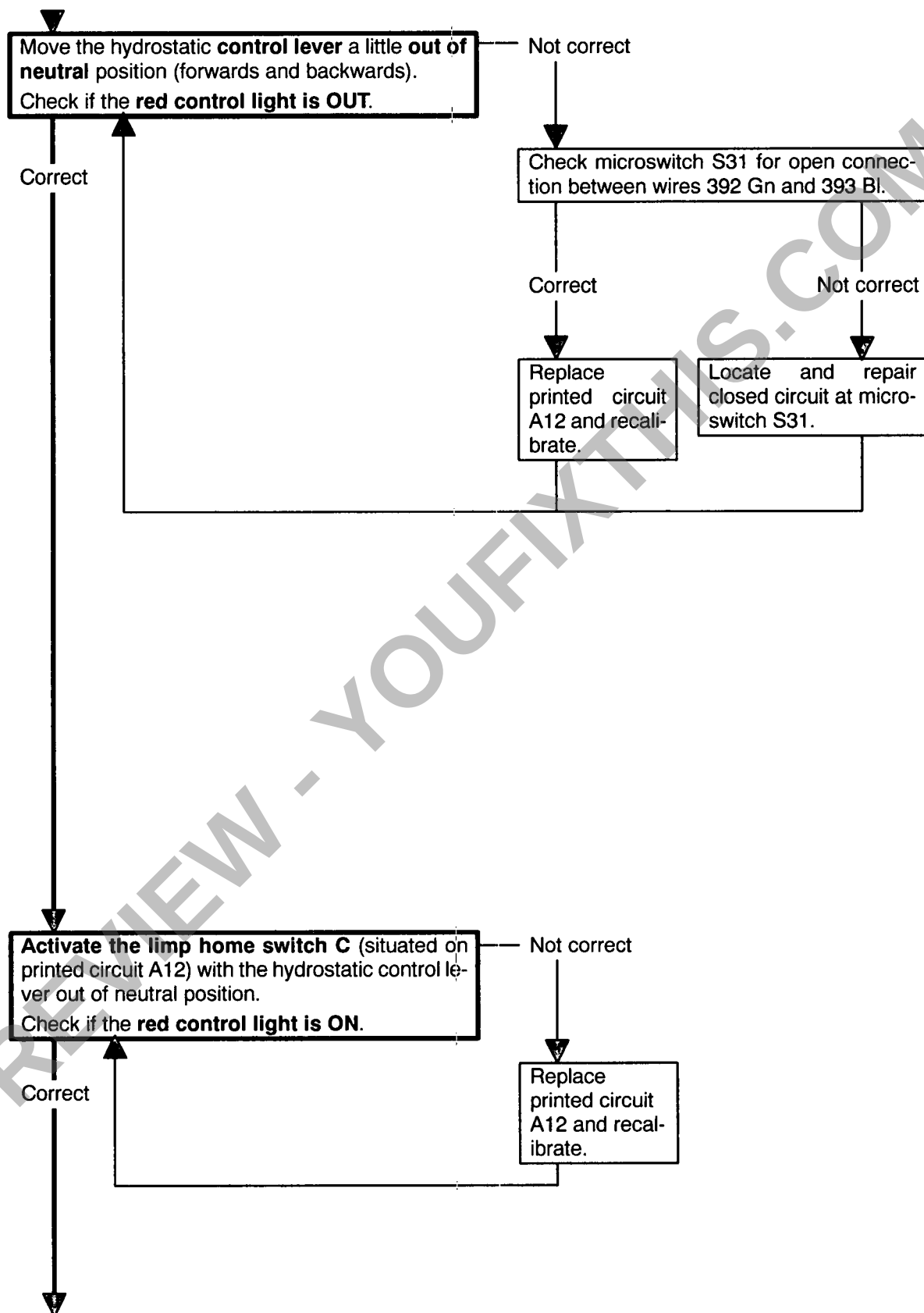
27A HEADLIGHTS AND HORN

TX62	48.04 ⇒ 48.21	TX65	66.04 ⇒ 66.21	TX67	44.01 ⇒ 44.04
TX64	49.04 ⇒ 49.21	TX66	50.03 ⇒ 50.28	TX68	51.02 ⇒ 51.28

		Line
B29.	Horn	8890
E3.	Brake light, left-hand side - guard	8890
E3.	Parking light, left-hand side - guard	8970
E4.	Brake light, left-hand side - straw hood	8910
E4.	Parking light, left-hand side - straw hood	8990
E5.	Brake light, right-hand side - straw hood	8860
E5.	Parking light, right-hand side - straw hood	9090
E6.	Brake light, right-hand side - guard	8870
E6.	Parking light, right-hand side - on guard	9070
E7.	Parking light, left-hand side - front	8990
E8.	Additional parking light, left-hand side - front	9000
E11.	Parking light, right-hand side - front	9060
E12.	Additional parking light, right-hand side - front	9080
E15.	Headlight, left-hand side	9150
E16.	Headlight, right-hand side	9170
E25.	Light in fuel gauge	9020
E39.	Header lighting	8950
E39.	Header lighting	8960
E40.	Light in water temperature gauge	9030
E41.	Registration plate	9000
F2.	25A Light switch, plugs left-hand and right-hand side	8890
F4.	10A Plug on straw hood, right-hand side	9120
F5.	15A Parking lights, right-hand side	9040
F6.	15A Parking lights, left-hand side	8940
F11.	15A Stop lights - Horn	8850
F17.	15A Dipped headlights	9160
F18.	15A Headlights	9140
H15.	Headlights (in steering column)	9110
K4.	Parking lights	8940
S58.	Foot brake switch	8850
S59.	Combined switch in steering column	8890
X130.	Trailer	8930
X130.	Trailer	9020
X130.	Trailer	9100
X147.	12 V plug, front left-hand side	8970
X148.	12 V plug, front right-hand side	9050
X149.	12 V plug, rear right-hand side (ladder)	9120

Lines: 8850 - 9180

No hydrostatic drive



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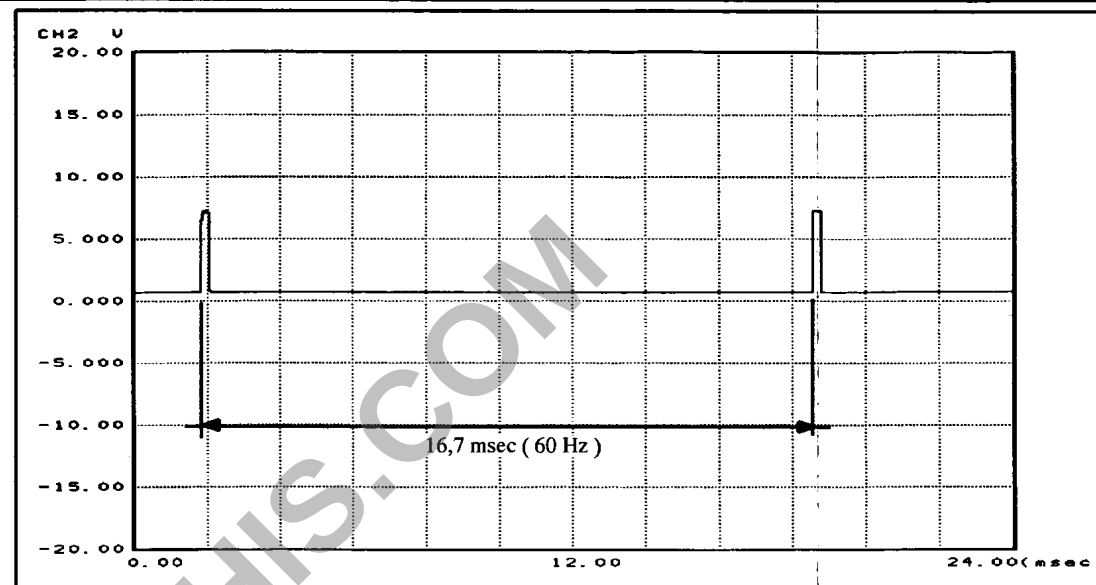


Fig 3

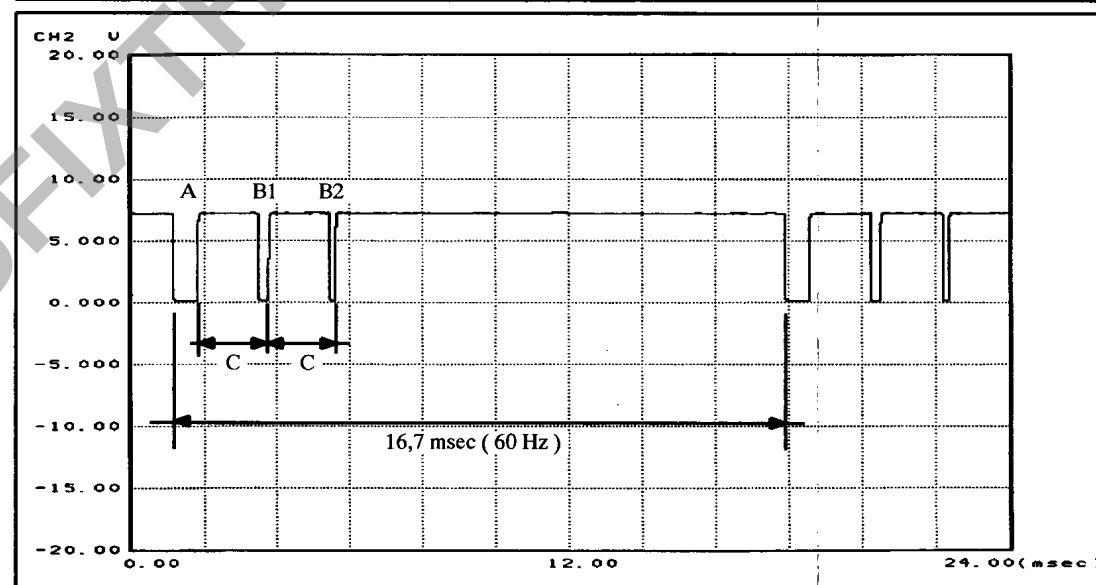


Fig 4

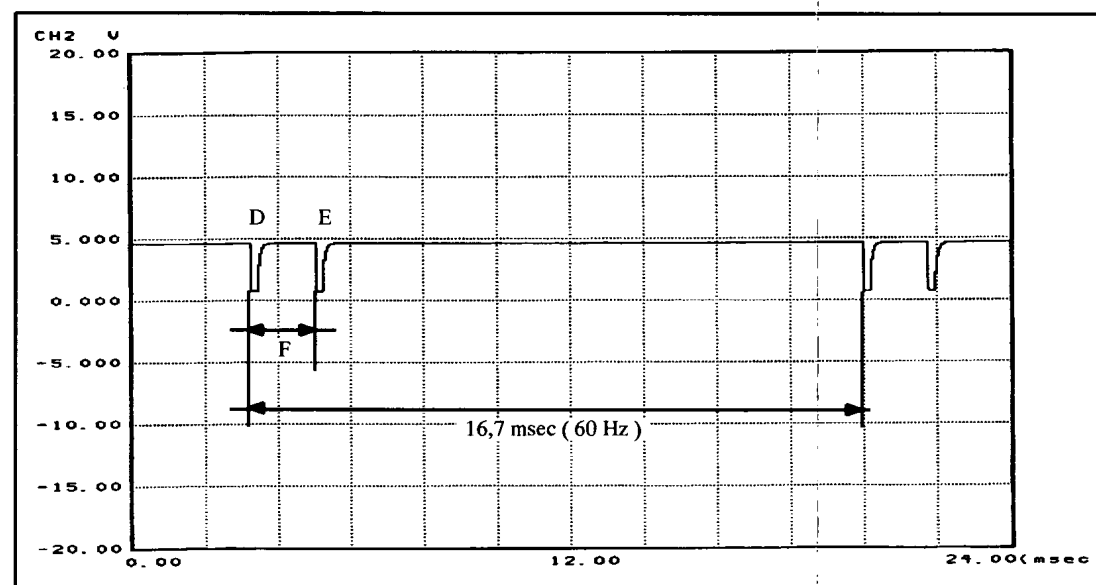


Fig 5

ERROR REPORTS

Error	Error description	Importance
001	LCD NETWORK ERROR	High

Explanation:

Data information sent out by the InfoView monitor, through the monitor flat cable and the optical fibers, is not returning to the monitor.

ACTION

Remove both optical fibers from the CPU. Turn on the ignition and check if the red light in the white optical fiber connector of the CPU is ON.

Correct

Not correct

Turn on the ignition and check for battery voltage at X46/08.

Correct

Not correct

Repair Fuse F27 or open circuit in wiring diagram: line 7190.

Remove the flat cable from the rear of the CPU, turn on the ignition and check if the red light in the white optical fiber connector of the CPU is "ON";
CAUTION:
The CPU is permanently powered by Fuse F19, even with ignition "OFF". Therefore, we advise to open the battery key when manipulating the CPU.

Correct

Not correct

Reinstall the flat cable at the CPU and disconnect the same flat cable at the remote control printed circuit. Turn on the ignition and check if red light in the white optical fiber connector of the CPU is "ON".

Replace the CPU.

Correct

Not correct

Replace the remote control printed circuit.

Replace the flat cable (short circuit between power line and ground).

CALIBRATIONS

Calibration of the following systems has to be carried out:

- InfoView monitor calibrations – Part 16/5a
- Header calibrations – Part 16/5b
- Ground speed calibrations – Part 16/5c

PURPOSE

Calibration is needed to obtain:

- Correct information on the InfoView monitor and on the lateral float and header height bargraph indicators (B & C - Fig. 1), by introducing correct "fixed" parameters. The parameters inform the monitor about the configuration of the machine and a number of choices the operator wishes to make.
- A correct function of the header compensation and stubble height system and of the automatic lateral float system [if installed] by introducing the ground level (= zero base).
- A correct maximum ground speed (according to legal requirements).

Figure 1: A InfoView monitor
B Lateral float bargraph indicator
C Header height bargraph indicator

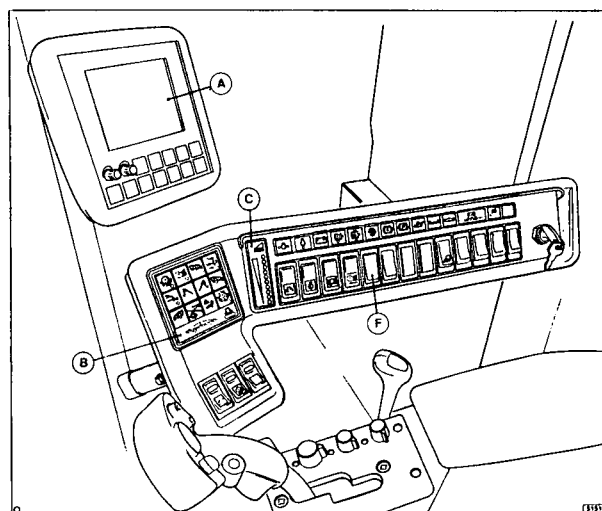


Fig. 1

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