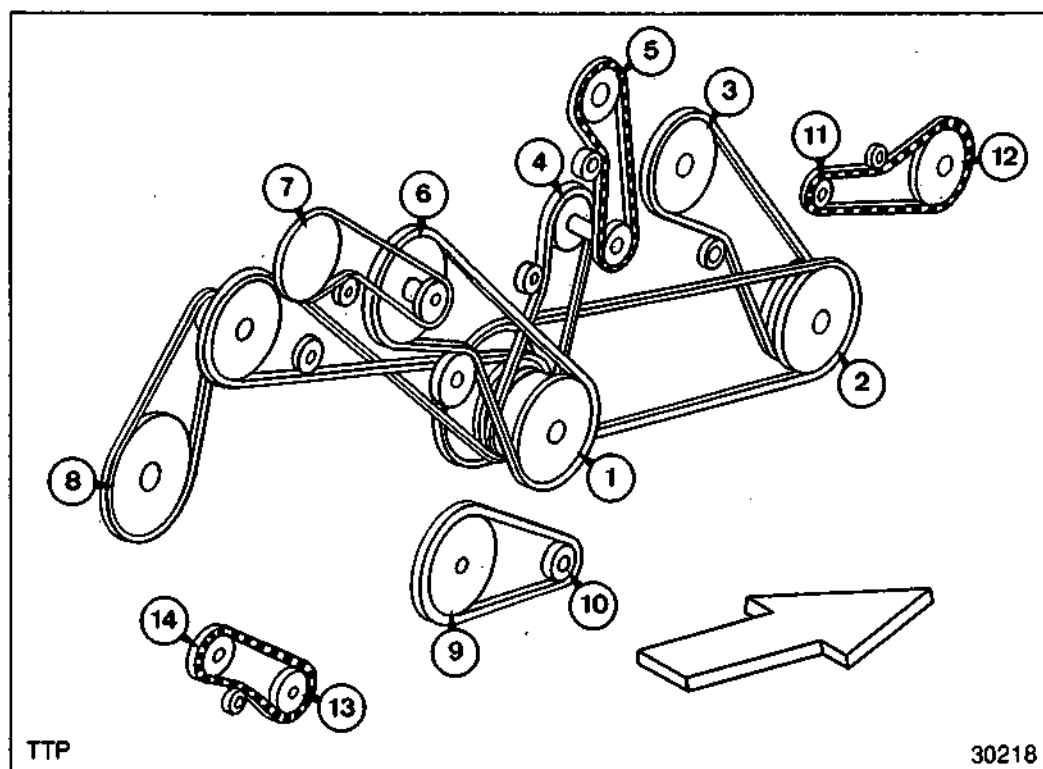


|                        | <b>Section</b>                |
|------------------------|-------------------------------|
| Introduction           | 01                            |
| Traction               | 02                            |
| Grain Header           | 03                            |
| Maize Header           | Refer to separate publication |
| Straw Elevator         | 05                            |
| Threshing              | 06                            |
| Separation             | 07                            |
| Cleaning               | 08                            |
| Grain Storage          | 09                            |
| Straw Chopper          | 10                            |
| Functional Adjustments | 11                            |
| Engine                 | 12                            |
| Airconditioning        | 13                            |
| Hydraulic System       | 14                            |
| Hydrostatic System     | 15                            |
| Electrical System      | 16                            |

## Combine right-hand side (Fig. 2)

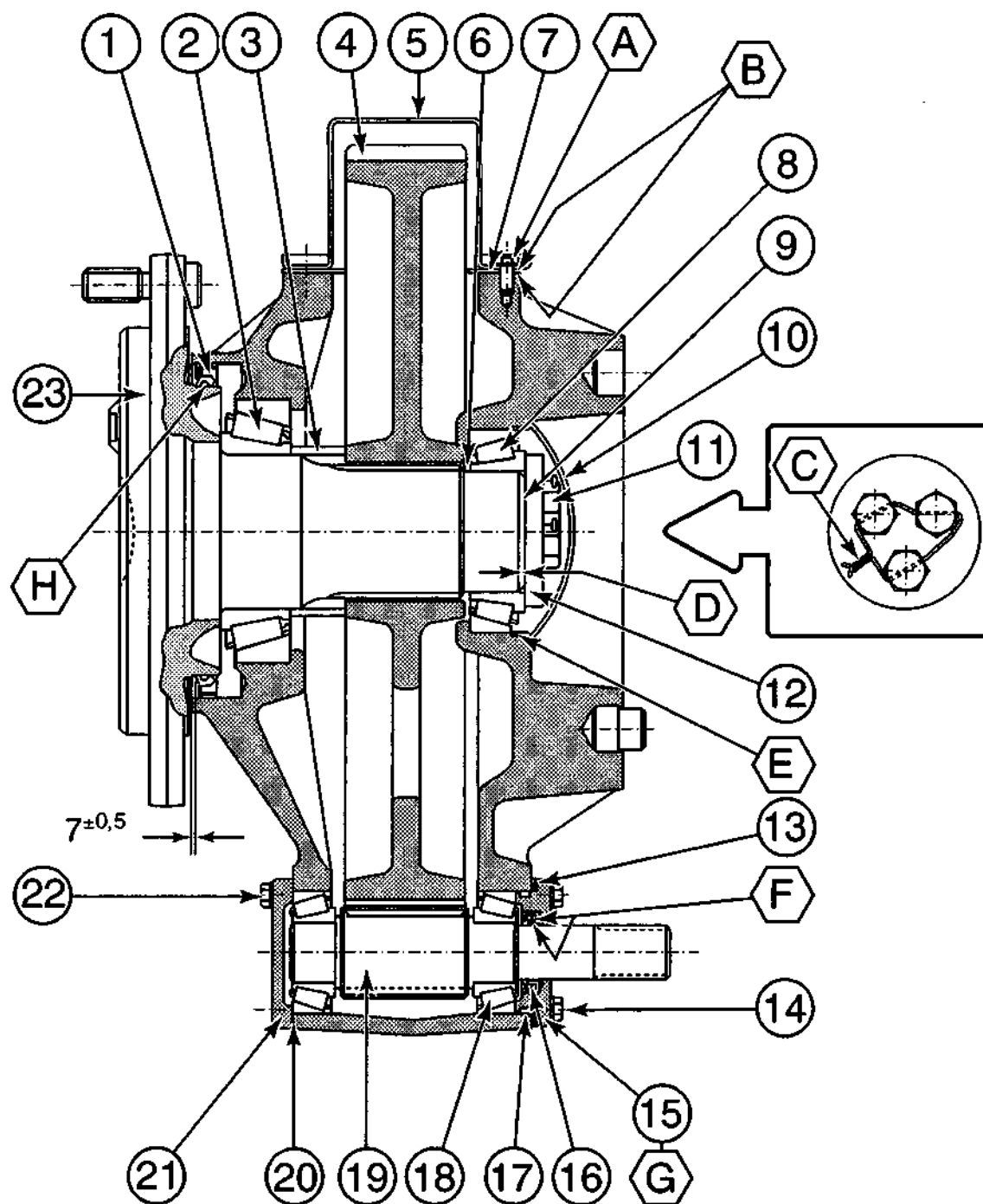


30218

Fig. 2

|    |                                         | rpm         |             |
|----|-----------------------------------------|-------------|-------------|
| 1  | Intermediate shaft                      | 800         |             |
| 2  | Threshing drum                          | 385 to 1140 |             |
| 3  | Beater                                  | 256 to 760  |             |
| 4  | Bubble-up auger speed (gearbox)         |             |             |
|    | standard:                               | 370         |             |
|    | option:                                 | 441         |             |
| 5  | Grain elevator top shaft                |             |             |
|    | standard:                               | 382         |             |
|    | option:                                 | 456         |             |
| 6  | Rotary separator                        | 760 or 400  |             |
| 7  | Straw flow beater                       | 760 or 400  |             |
| 8  | Straw walker                            | 220         |             |
| 9  | Eccentric shaft                         | 320         | 288*        |
| 10 | Cleaning fan                            | 500 to 920  | 450 to 838* |
| 11 | Grain tank unloading intermediate shaft | 1340        |             |
| 12 | Grain tank unloading auger              | 604         |             |
| 13 | Returns cross auger and rotothresher    | 800         | 720*        |
| 14 | Returns auger and thrower               | 600         | 540*        |

\* When using small diameter drive pulley 3 on left-hand side



30767

## GEAR RATIO 11/111 WITH MUD SEALS

### Disassembly

Similar procedure as for final drives with standard seals. Refer to the notes below for differences.

When removing the output shaft, only part 1 of the mud seal will remain on the shaft and part 2 will remain in the final drive housing.

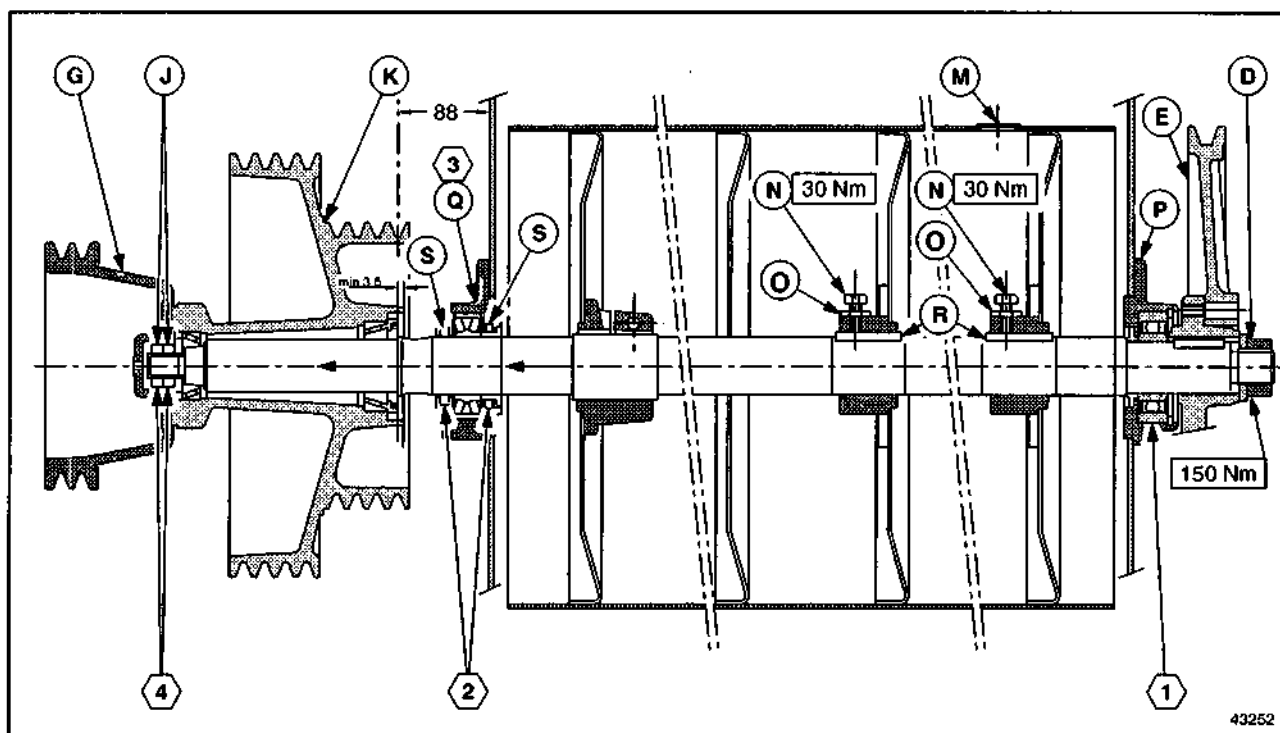


#### **CAUTION:**

**The surface between parts 1 and 2 of the mud seals should be oiled before touching them.**

### Assembly

- When installing the mud seals, take care that the outer sides of both seals 1 and 2 are free of dirt and oil (locations indicated with H).
- When installing the pre-assembled output shaft, ensure the surface between both seals is oiled.



## FUEL INJECTION PUMP

### DISASSEMBLY

1. Disconnect all components and assemblies which may interfere with the disassembly procedure in the injection pump area.
2. Disconnect the throttle control actuator.
3. Remove delivery pump 1.
4. Unscrew the fittings of high-pressure lines 2 from both the pump and the injectors.
5. Remove the brackets used to secure lines 2 to the engine and move them inwards.
6. Remove supply lines 3 and return lines 4.
7. Disconnect all remaining lines.
8. Remove engine stop solenoid 5.
9. Remove mounting bolts 6 and nuts 7.
10. Remove the pump.

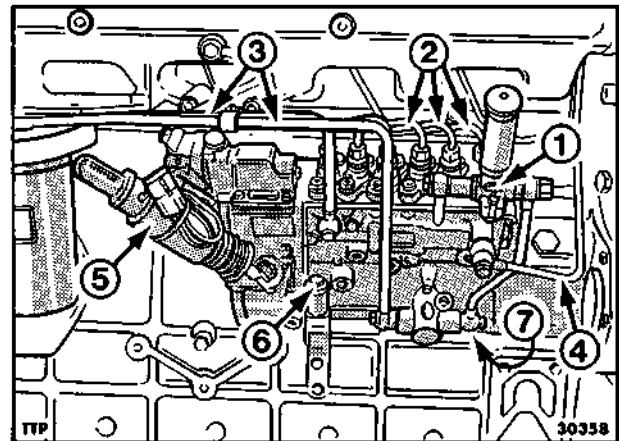


Fig. 1

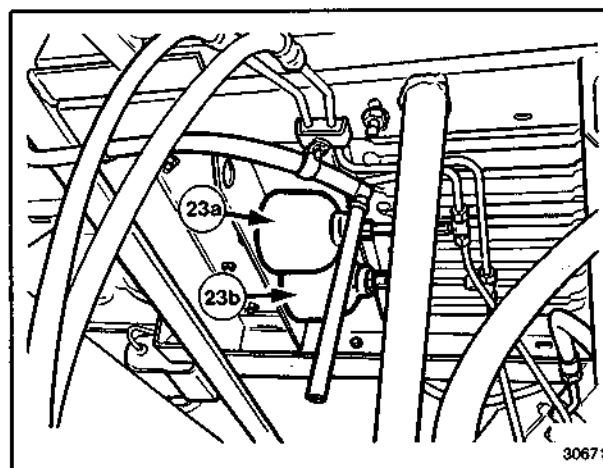


#### **WARNING:**

Handle all components with great care.  
Do not insert your hands or fingers in between components.  
Wear appropriate safety clothing, including goggles, gloves and safety boots.

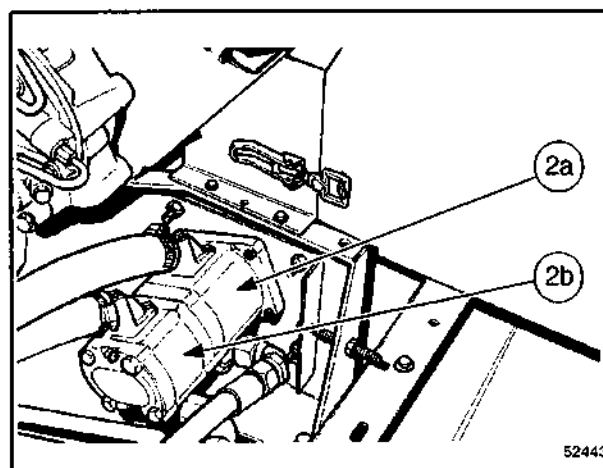
Figures 8 to 10

- 2a Duo pump (steering circuit)
- 2b Pump (main hydraulics)
- 3 Reservoir
- 4 Low pressure filter
- 23a Lateral float accumulator (60 bar)
- 23b Lateral float accumulator (120 bar)
- 37 Filler cap
- 38 Breather



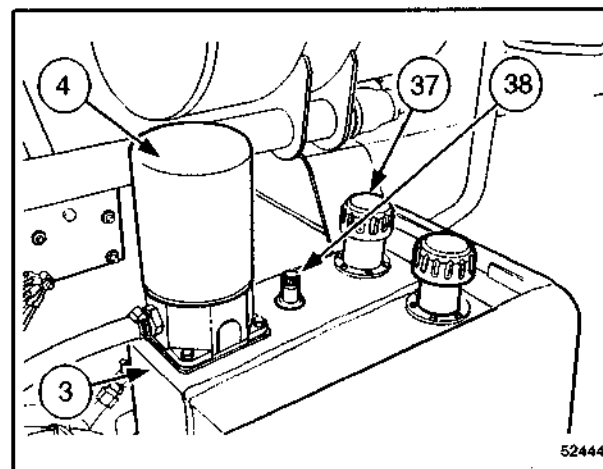
Units with lateral float only

8



All models

9



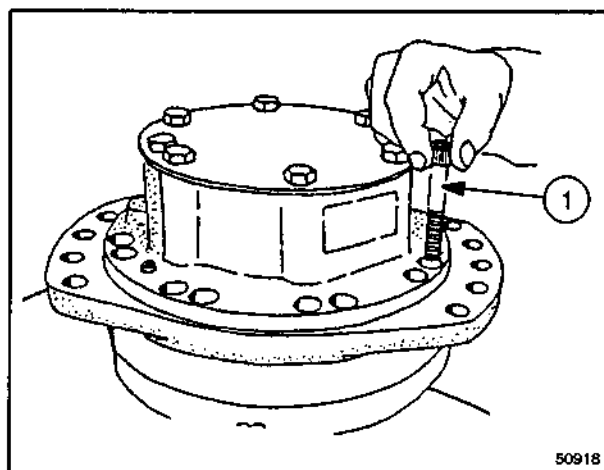
All models

10

## DISASSEMBLY AND ASSEMBLY OF DISTRIBUTOR AND DISTRIBUTOR SEALS

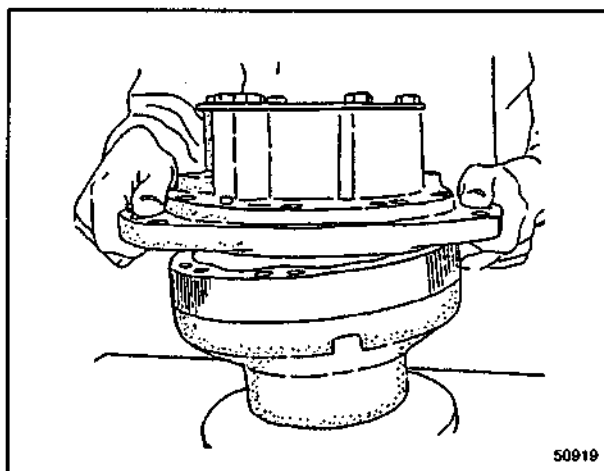
### DISASSEMBLY

1. Remove wheel motor from machine.
2. Refer to Figures 45, 126, and 127  
Remove 14 (of 16 total) socket head bolts 1 securing distribution cover 2 to cam ring 3 and bearing support housing 4 using 10 mm hex key and/or hex driver. Leave two opposite bolts partially engaged. Turn motor horizontal and break open to drain oil. Set motor into the tank of a parts washer with wheel studs down. Remove remaining bolts.



127

3. Refer to Figures 128 and 129  
Carefully lift distribution cover from cam ring.



128

#### NOTE:

If cover is lifted straight up, distributor 1 will tend to adhere to cylinder block 2 because of oil film between mating surfaces. Lift cover on one side only to break adhesion.

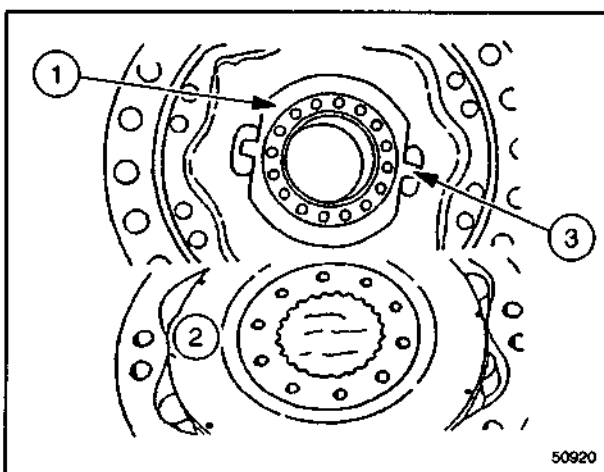
**ALTERNATE METHOD:** CAREFULLY insert thin piece of wood under location tab 3 of distributor and pry up to break adhesion.



#### CAUTION:

Inserting wood too far may scratch mating surfaces of distributor and/or cylinder block.

Discard large O-ring seal in distribution cover.



129

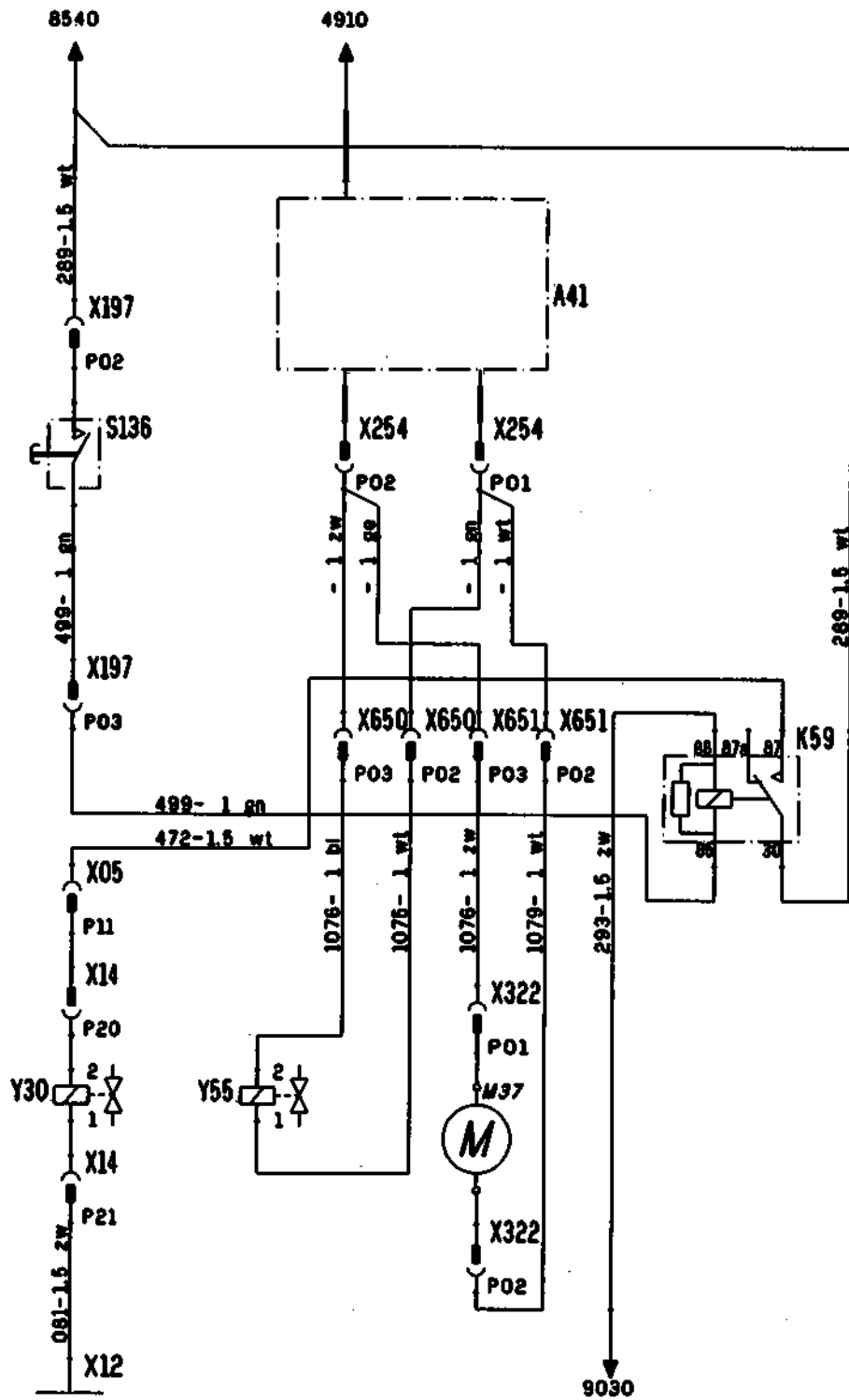
|      |                                           |       |
|------|-------------------------------------------|-------|
| E28. | Operating light (inner), right-hand       | 10010 |
|      | Operating light (outer), right-hand       | 10060 |
| E29. | Operating light on cab, right-hand        | 9950  |
| E30. | Operating light on cab, left-hand         | 9960  |
| E33. | Light in grain tank                       | 10080 |
| E34. | Stubble light, left-hand                  | 10100 |
| E35. | Stubble light, right-hand                 | 10120 |
| E36. | Side light on the right-hand side         | 10140 |
| E37. | Spotlight in cab                          | 10790 |
| E38. | Light in cab                              | 10790 |
| E39. | Header lighting                           | 8950  |
|      |                                           | 8960  |
| E40. | Light in engine coolant temperature gauge | 9030  |
| E41. | Registration plate light                  | 9000  |
| E45. | Rear light, right-hand side               | 10190 |
| E46. | Rear light, left-hand side                | 10170 |

**F. Fuses**

|      |     |                                                   | Line  |
|------|-----|---------------------------------------------------|-------|
| F1.  | 15A | Brush in rotary screen                            | 8660  |
| F2.  | 25A | Light switch, plugs left-hand and right-hand side | 8890  |
| F3.  | 15A | Hazard warning lights                             | 9420  |
| F4.  | 10A | Plug on straw hood, right-hand side               | 9120  |
| F5.  | 15A | Parking lights, right-hand side                   | 7290  |
|      |     |                                                   | 9040  |
|      |     |                                                   | 10450 |
|      |     |                                                   | 10740 |
| F6.  | 15A | Parking lights, left-hand side                    | 8940  |
|      |     |                                                   | 10420 |
| F8.  | 15A | Operating lights on cab                           | 9890  |
| F9.  | 25A | Wiper, Mirrors                                    | 10870 |
| F10. | 10A | Flex header                                       | 5540  |
|      |     | Direction indicator lights                        | 9410  |
| F11. | 15A | Stop lights, Horn                                 | 8850  |
| F12. | 10A | Operating lights                                  | 9880  |
| F13. | 10A | Airconditioning compressor clutch                 | 10590 |
| F14. | 25A | Airconditioning fan                               | 10630 |
| F15. | 25A | Plug - vertical knife, left-hand side             | 5190  |
| F16. | 25A | Plug - vertical knife, right-hand side            | 5220  |

5e Hydrostatic pressure release and Blow-off system

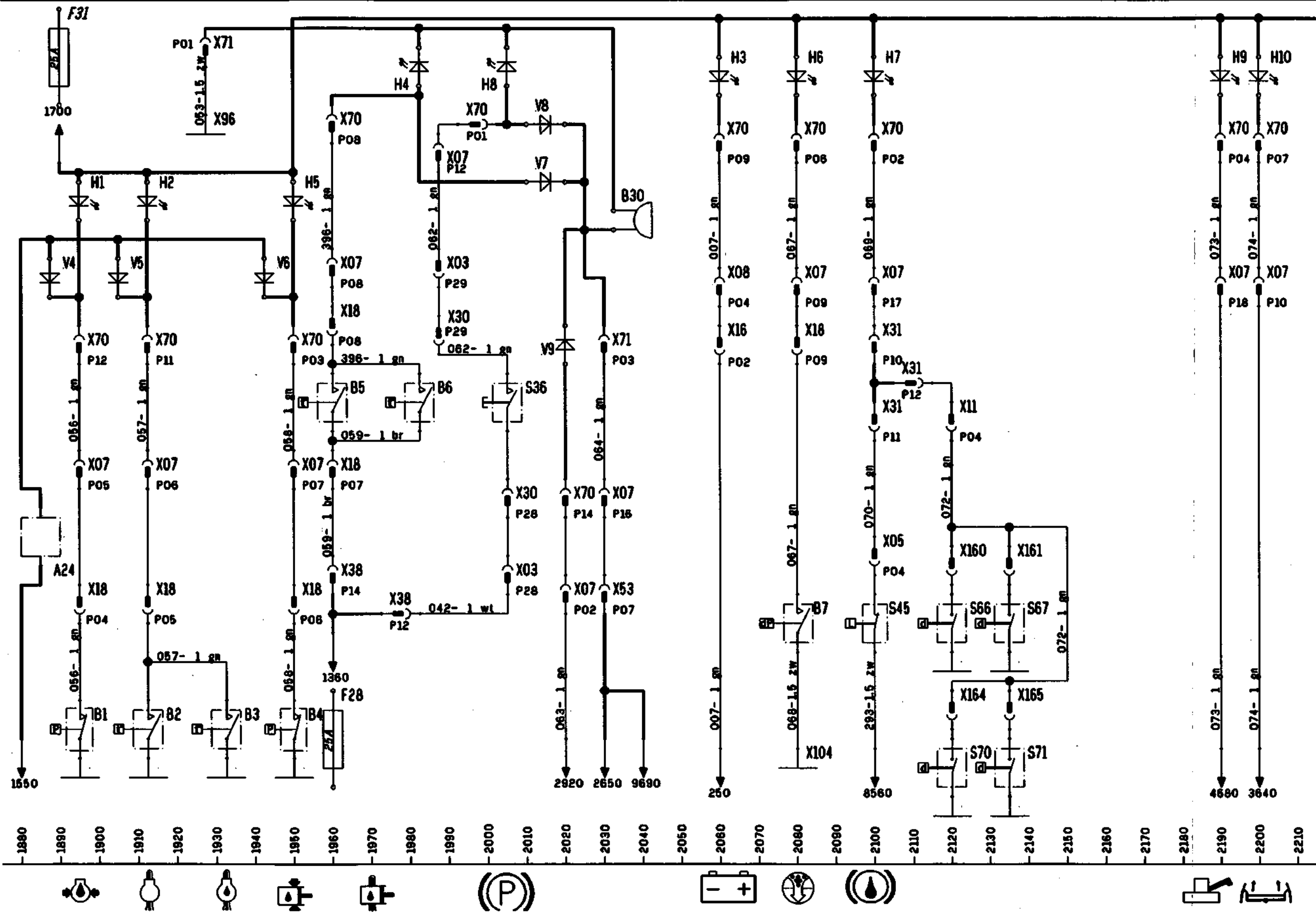
TX64 49.1110> ..... TX65 66.1110> ..... TX66 50.1110> .....  
 TX68 51.1110> .....



1370 1380 1390 1400 1410 1420 1430 1440 1450 1460 1470 1480 1490 1500 1510 1520 1530

8c Control instruments

|      |          |       |      |          |       |      |          |       |
|------|----------|-------|------|----------|-------|------|----------|-------|
| TX62 | 48.1110> | ..... | TX63 | 46.1110> | ..... | TX64 | 49.1110> | ..... |
| TX65 | 66.1110> | ..... | TX66 | 50.1110> | ..... | TX68 | 51.1110> | ..... |



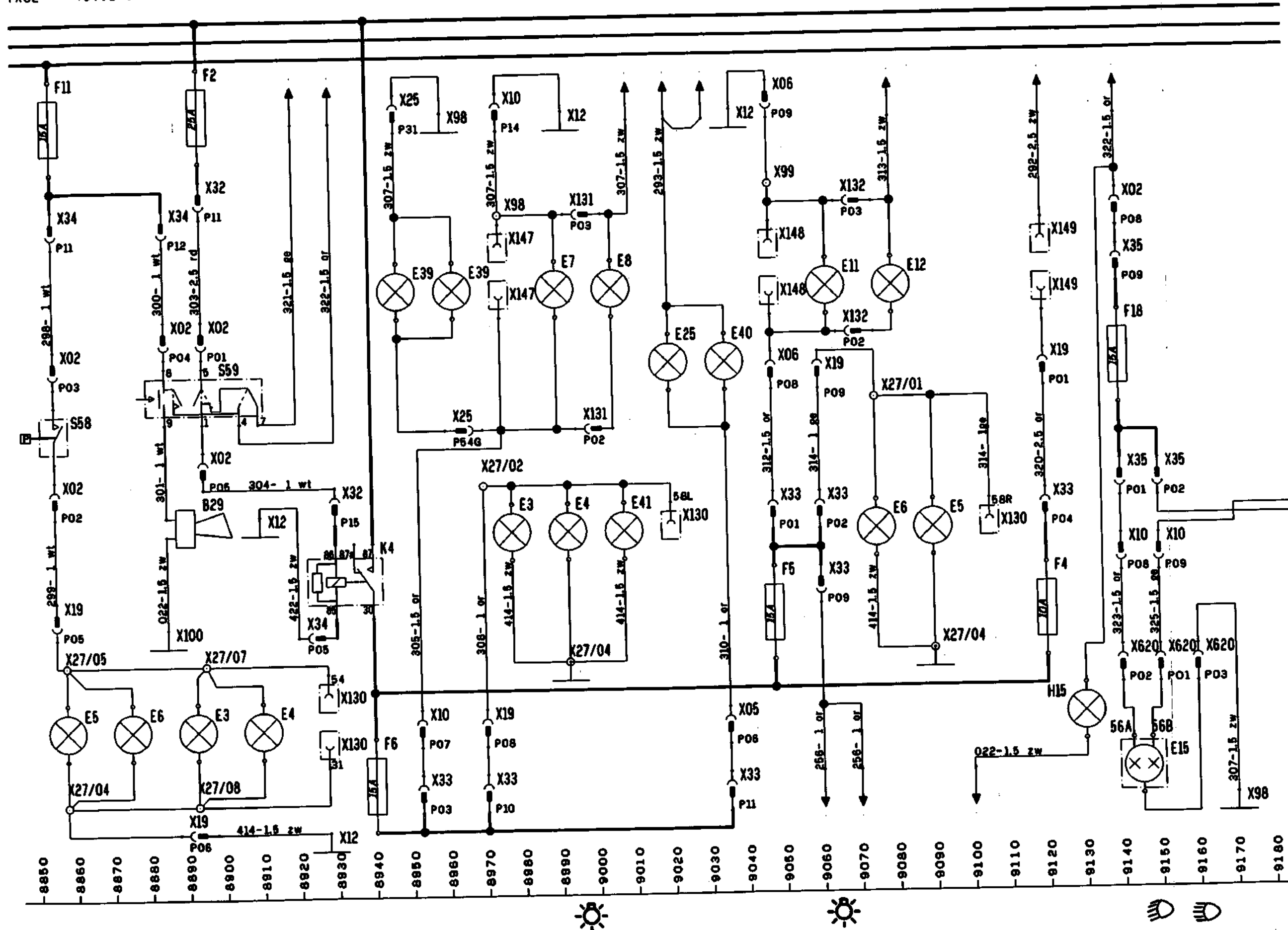
**24Q CPU AND SENSORS (FLEX)**

|      |               |      |               |
|------|---------------|------|---------------|
| TX64 | 49.10 ⇒ 49.11 | TX66 | 50.16 ⇒ 50.18 |
| TX65 | 66.10 ⇒ 66.11 | TX68 | 51.16 ⇒ 51.18 |

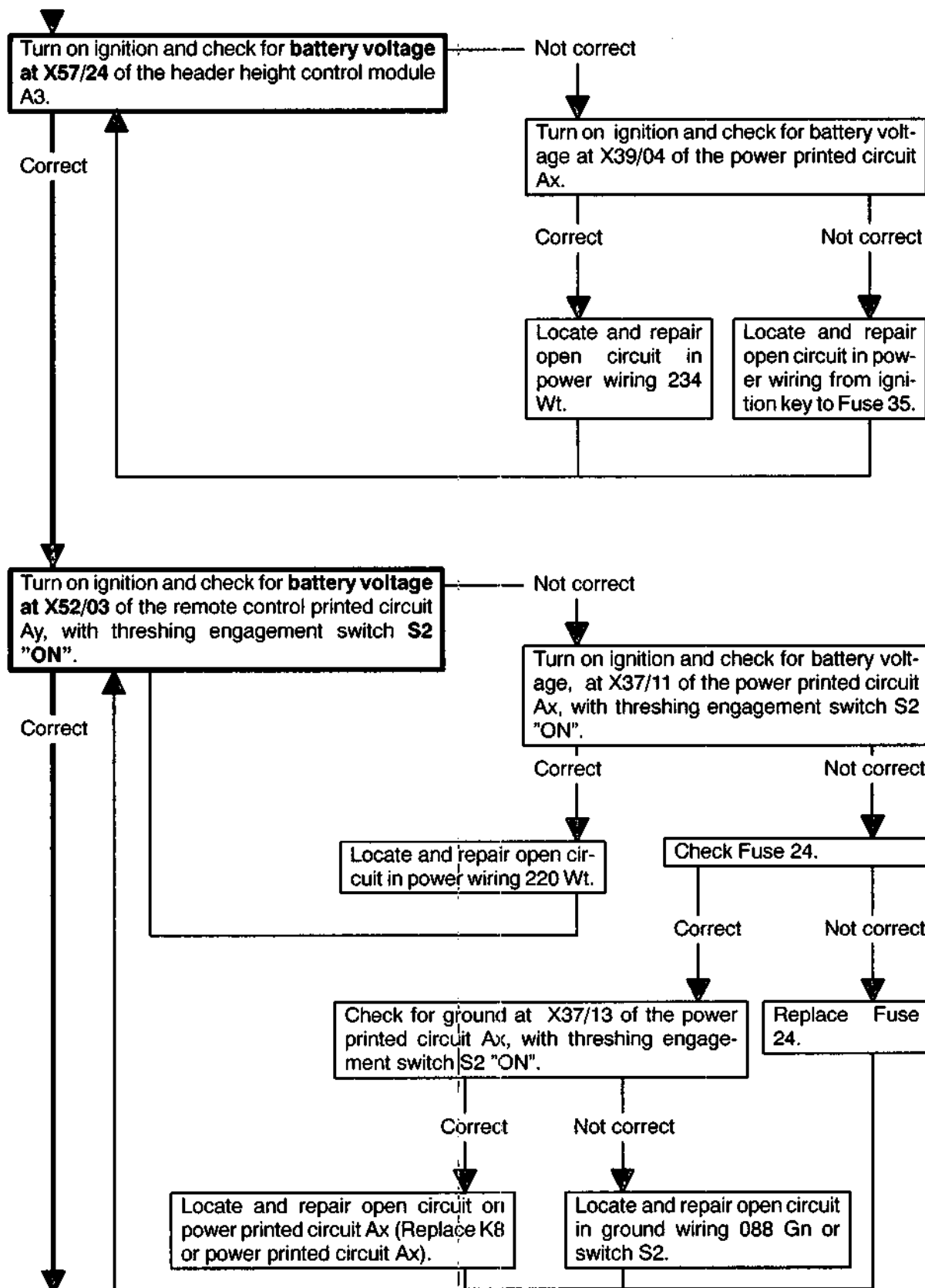
|      |                                                     | Line |
|------|-----------------------------------------------------|------|
| A6.  | Printed circuit - Central Process Unit              | 7600 |
| A17. | Printed circuit - Decoder                           | 7560 |
| A21. | Printed circuit - Decoder (flex)                    | 7600 |
| A25. | Printed circuit - Optical star (flex)               | 7490 |
| B16. | Ground speed                                        | 7180 |
| B17. | Rotary separator speed                              | 7200 |
| B18. | Beater speed                                        | 7240 |
| B19. | Grain elevator speed                                | 7260 |
| B20. | Straw chopper speed                                 | 7300 |
| B22. | Drum speed                                          | 7360 |
| B23. | Engine speed                                        | 7380 |
| B24. | Fan speed                                           | 7420 |
| B25. | Right-hand returns auger speed                      | 7440 |
| B26. | Left-hand returns auger speed                       | 7460 |
| B27. | Reel speed                                          | 7500 |
| B28. | Straw walkers                                       | 7540 |
| B33. | Straw walker grain loss sensor (right-hand side)    | 7390 |
| B34. | Sieve sensor (performance monitor)                  | 7430 |
| B39. | Straw walker grain loss sensor (left-hand side)     | 7580 |
| D6.  | ITRLB V6.2                                          | 7580 |
| F5.  | 15A Parking lights, right-hand side                 | 7290 |
| F19. | 10A Header height control                           | 7170 |
| F24. | 10A Central Process Unit                            | 7250 |
| F27. | 10A Central Process Unit                            | 7190 |
| R3.  | Lateral float position                              | 7330 |
| S56. | First straw walker protection                       | 7610 |
| S57. | Second straw walker protection (with straw chopper) | 7640 |

Lines: 7150 - 7650

27c Headlights and Horn  
TX62 48.1246> .....



### Power supply to the header height control module A3



**Line 3 – GROUND SPEED**

1. Enter the calibration mode by pressing .
2. Select line 3 ("GROUND SPEED") (Fig. 39) by pressing  or , and .

to validate the choice.

On the display appears (Fig. 40) :

"GROUND SPEED CONST: XXXX"

XXXX is a **constant** = measured amount of pulses/min on the differential gear at a ground speed of 1 km/hr.

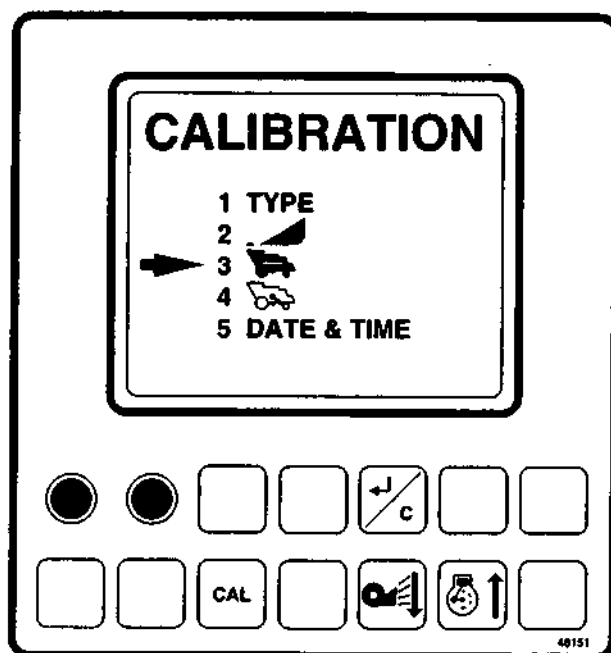


Fig.39

**Determination of constant: 3 different ways.**

- 1) Taking into account the **dynamic radius**:

$$\text{Constant} = \frac{25 \times a \times c}{3 \times \pi \times R \times b}$$

- a: Teeth on large final drive gear
- b: Teeth on small final drive gear
- c: Teeth on differential

| MODEL | a   | b  | c  |
|-------|-----|----|----|
| TX62  | 68  | 11 | 52 |
| TX64  | 75  | 10 | 50 |
| TX65  | 75  | 10 | 50 |
| TX66  | 75  | 10 | 50 |
| TX68  | 111 | 11 | 50 |

R: Traction tyre dynamic radius  
(For tracks: Radius of the primary track roller)

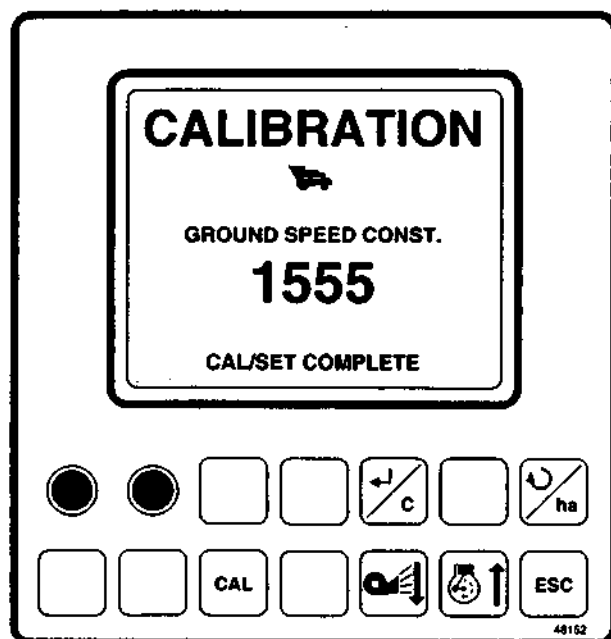


Fig.40