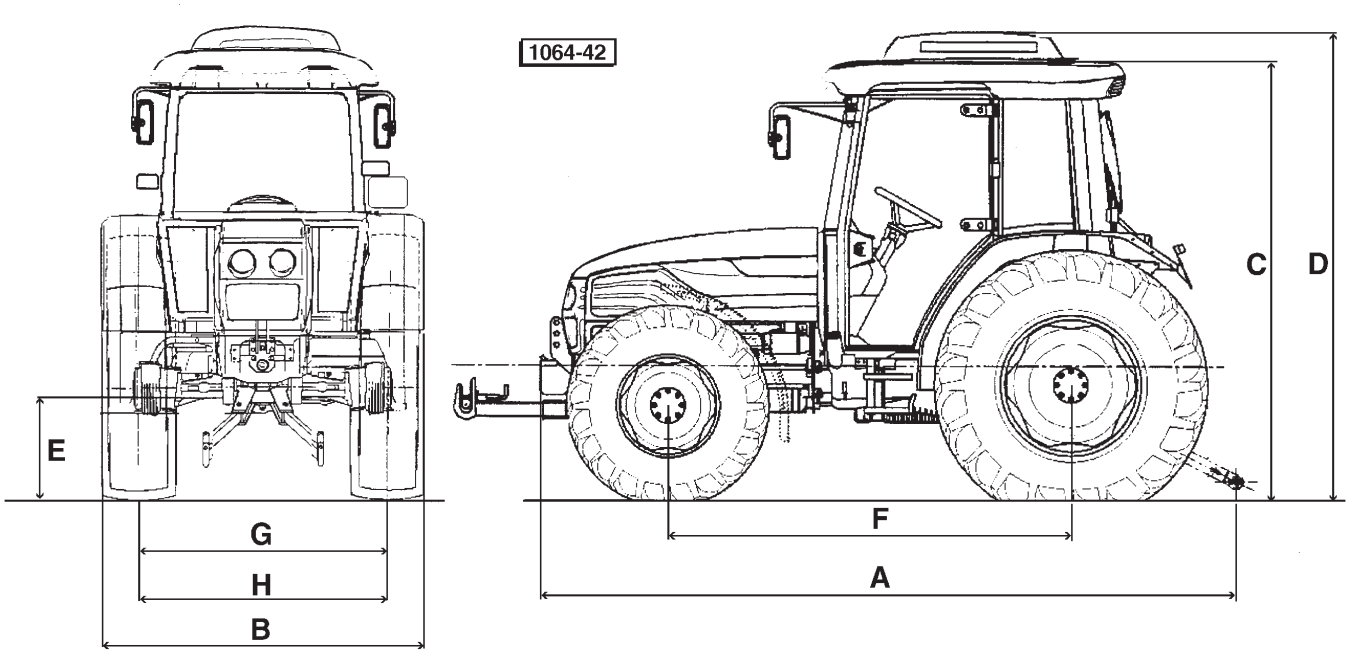
DIMENSIONS AND WEIGHTS

		AGROPLUS 60		AGROPLUS 70 -80	
		2 WD	**4 WD**	**2 WD**	**4 WD**
Length max:					
- without linkage	(A) mm	3800	3835	3930	3985
- with front and rear linkage	(A) mm	-	4350	-	4480
Width min./max.	(B) mm	1920 -2320	1920-2320	1920-2320	1920-2320
Height:					
- al telai di sicurezza	(C) mm	2420	2420	1490	
- at cab (standard)	(C) mm	2430	2430	1700	
- at cab (with air conditioning)	(D) mm	2595	2595	2360	
Ground clearance	(E) mm	345	345	365	365
Wheel base	(F) mm	2162	2112	2292	2242
Front track					
base	(G) mm	1400	1440	1400	1440
min./max.		1300-1600	1340-1740	1300-1600	1340-1740
Rear track					
base	(H) mm	1500	1500	1500	1500
min./max.		1400-1900	1400-1900	1400-1900	1400-1900
Min. turning radius					
without brakes	(mm)	3500	4050	3700	4300
Operating weight					
(without front lift)					
- with plataform	kg	2355	2705	2555	2905
- with cab	kg	2550	2900	2750	3100
Max. permissible load					
- front	kg	240	240	240	240
- rear	kg	200	200	200	200
- block	kg	-	250	-	250
Tyres					
- front		7.50-16	12.4R 20	7.50-16	11.2R 24
- rear		14.9R30	14.9R30	16.9R30	16.9R30



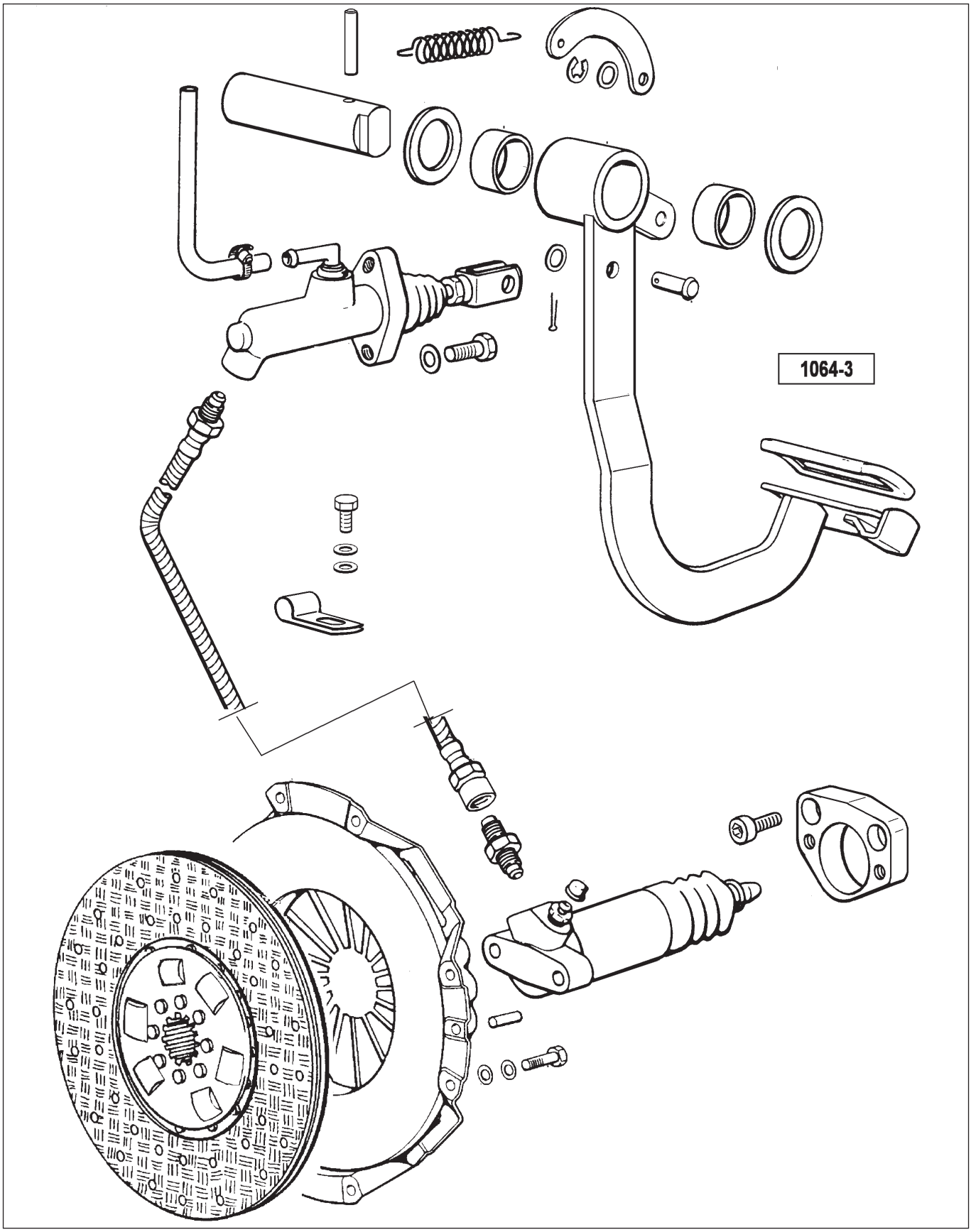


Fig. 4 - Components of clutch assembly

ADJUSTMENT OF END FLOAT IN THE POWERSHIFT UNIT (fig. 84)

Screw one M8x1,25x30 bolt **finger tight** into the cover **W** (fig 84), so as to hold the centre shaft of the H-M-L unit in position during the adjustment.

Measure dimensions **X** and **Y** with a gauge then calculate **(X - Y - 1 mm)** , which gives the thickness of the thrust washer **K** to fit.

Example: values measured **X = 191,88** **Y = 188,24**

(191,88 - 188,24 - 1) = 2,64 ~ 2,6 mm (2.1599.727.0/10 washer required)

IMPORTANT: the thrust washer must be selected from those available to give either the exact thickness, or the next thickness down from the value calculated.
washer p/n:

2.1599.725.0/10	thicknesst 2.2 mm
2.1599.726.0/10	thicknesst 2.4 mm
2.1599.727.0/10	**thicknesst 2.6 mm**
2.1599.728.0/10	thicknesst 2.8 mm
2.1599.729.0/10	thicknesst 3 mm
2.1599.730.0/10	thicknesst 3.2 mm
2.1599.731.0/10	thicknesst 3.4 mm
2.1599.732.0/10	thicknesst 3.6 mm
2.1599.733.0/10	thicknesst 3.8 mm
2.1599.734.0/10	thicknesst 4 mm

— Fit a shim of the predetermined thickness on the LOW shaft with the relative circlip
— Fit the epicyclic reduction unit in the gearbox and then fit the POWERSHIFT clutches unit, applying Silastic sealing compound to the contact surfaces.

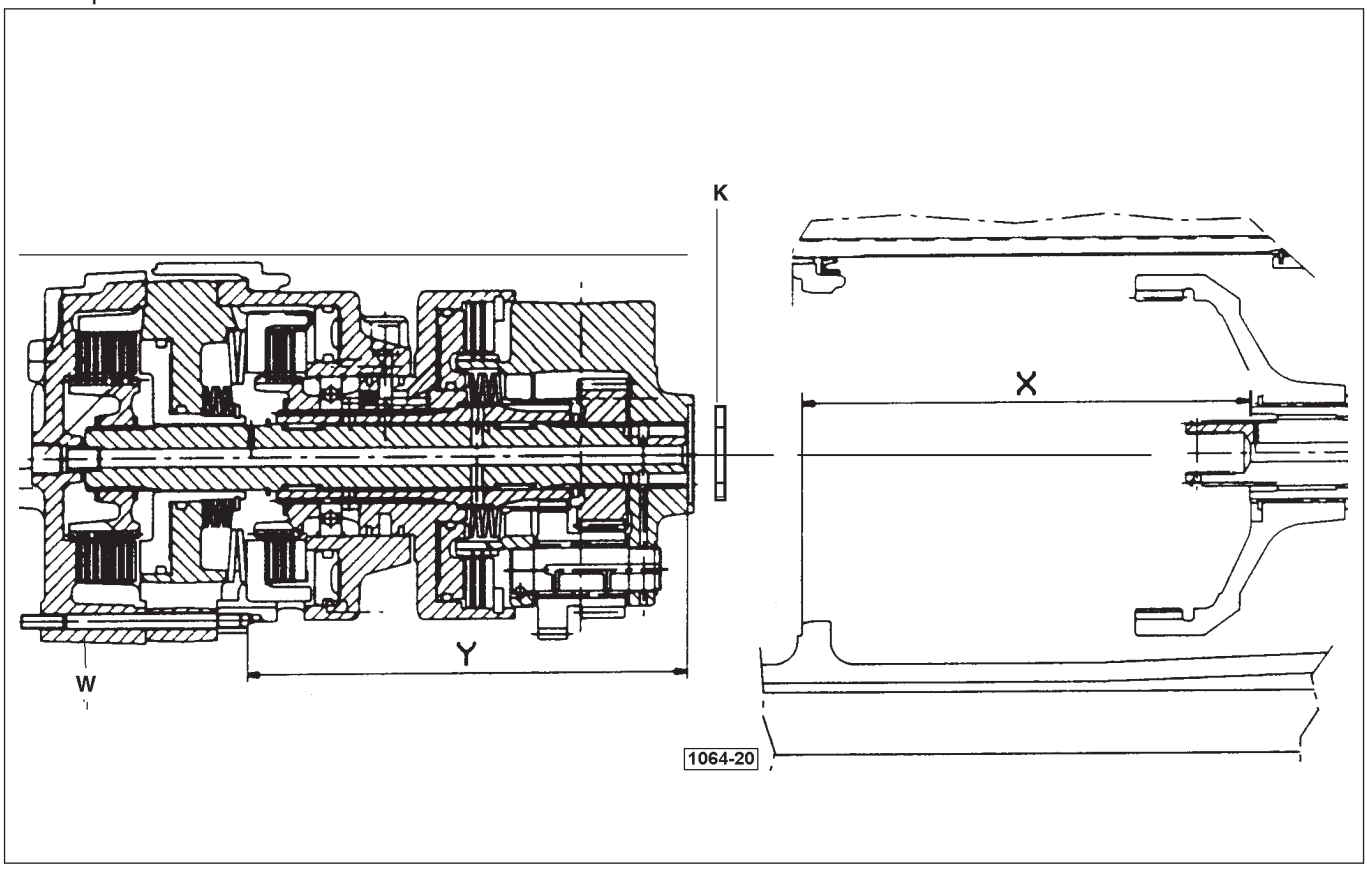
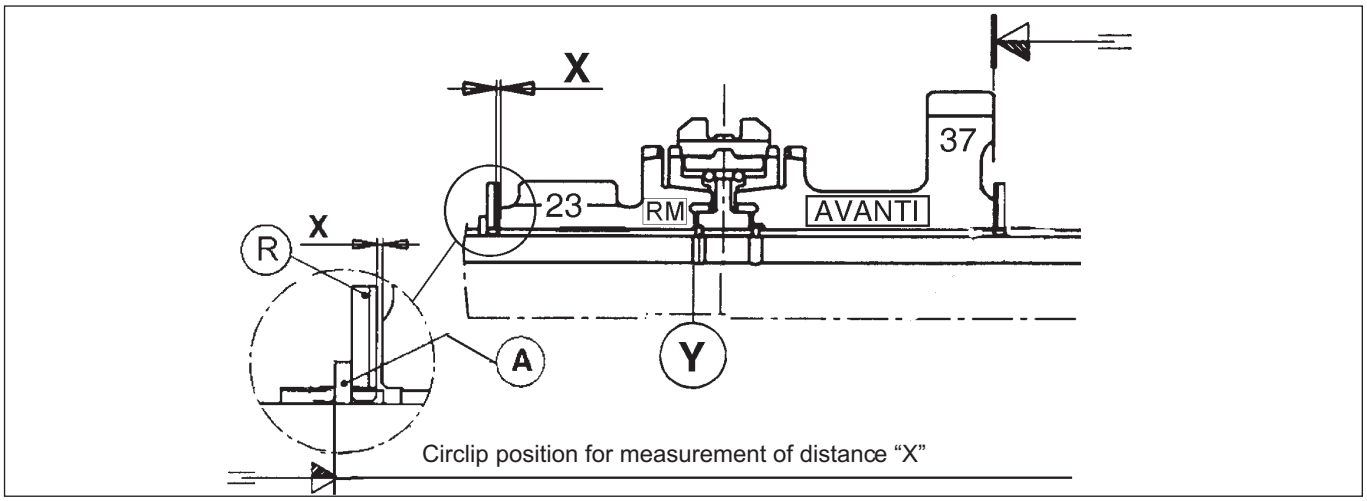


Fig. 84 - Location of the preassembled POWERSHIFT unit in its housing.

- **REVERSE SHAFT**

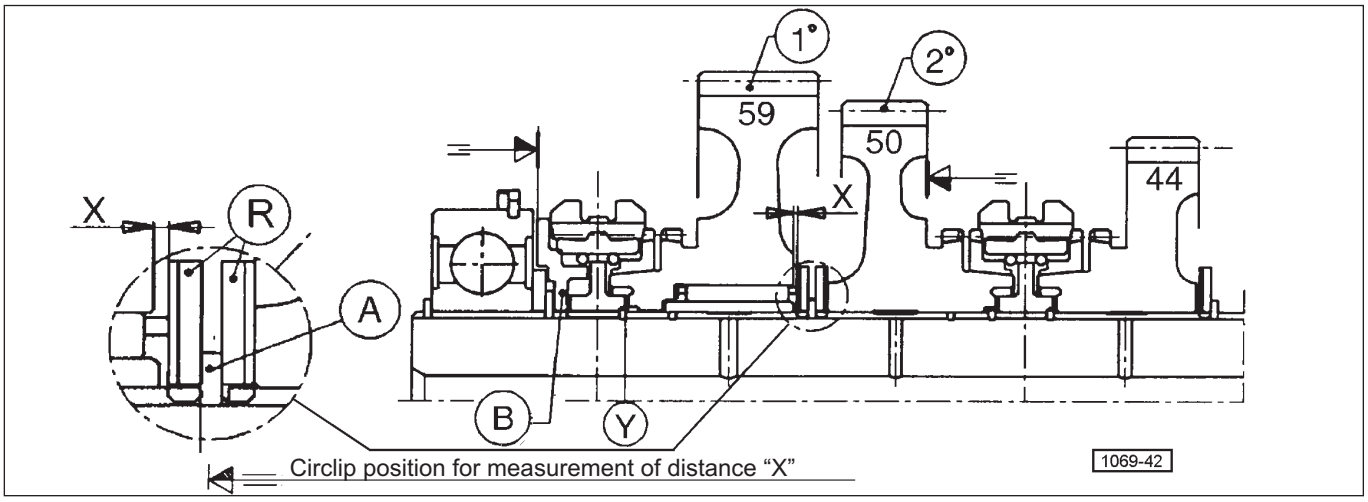


Adjusting the play of the reverse gearwheel mounted on the shuttle shaft.
Obtain play **X** of **0.15** to **0.30 mm** of reverse gearwheel (z = 23) by selecting and fitting a thrust washer **R** of suitable thickness from those available:

cod. **008.0251.0** **010.0629.0** **010.0630.0** **010.0631.0** **010.0632.0**

Play **X** is measured by pushing the forward gearwheel (z=37) in the direction indicated by the arrow, thereby pushing the synchronizer up against point **Y** and pushing the circlip A as indicated in the detail.

- **SECONDARY SHAFT 1st SPEED**



Adjusting the play of the **1st speed gear (z=59)**.
Obtain an play **X** of **0.15** **0.30 mm** of the 1st speed gear (z=59) by selecting the thrust plate **R** of the appropriate thickness from among those available:

cod. **008.0251.0** **010.0629.0** **010.0630.0** **010.0631.0** **010.0632.0**

Play **X** is to be measured with a feeler gauge while pushing spacer **B** in the direction indicated by the arrow so that the synchroniser is pushed up against point **Y**, while simultaneously pushing the 2nd speed gear (z=50) in the direction indicated by the arrow up against circlip **A**.

2WD extendible axle

General information

The wide sideways front axle swinging obtained through excellent anchoring, not only makes it possible to operate the tractor nimbly on steep slopes but also permits the axle to be easily removed from the tractor when any repair is to be performed. End play check is the only operation required on axle reassembly.

The telescopic-type axle is extremely rugged and enables the tread to be adapted to any work requirements without removing the hydrostatic steering cylinders.

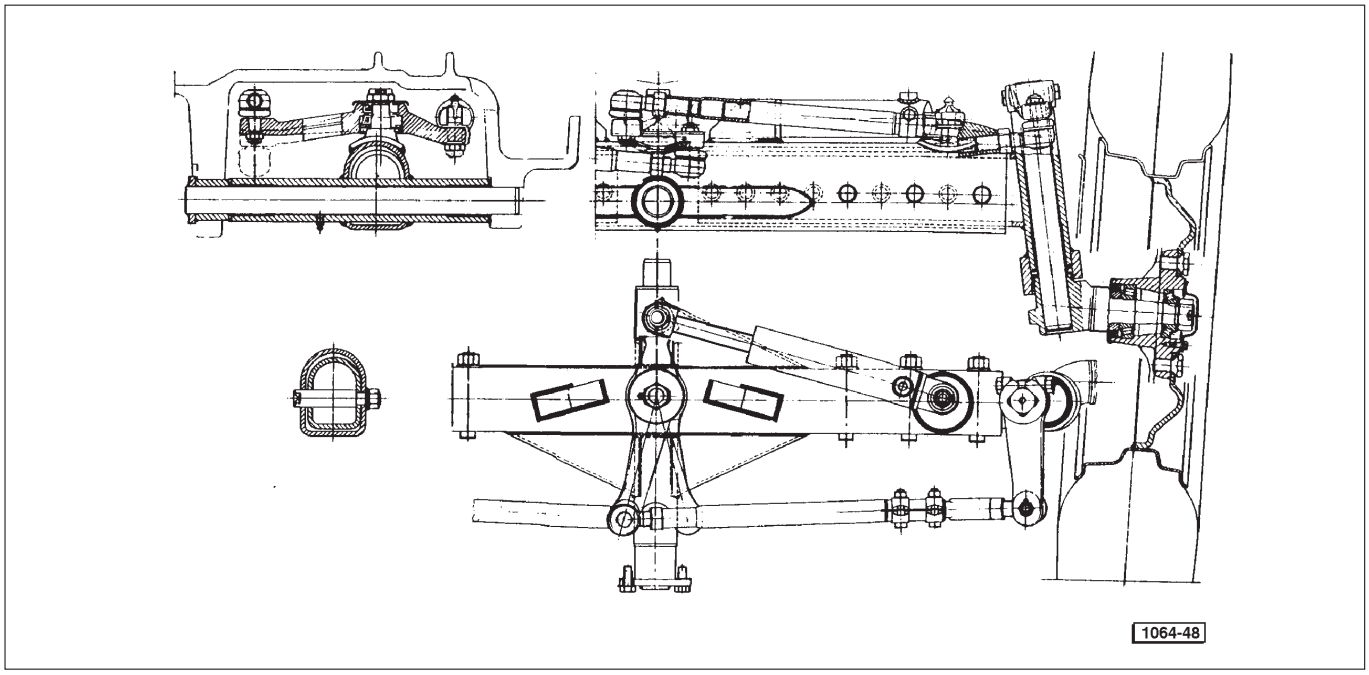


Fig. 1 - Extendible front axle pivot system.

Tecnical specifications

front axle		**AGROPLUS 60-70-80**
tread		
- minimum	mm	1300
- base	mm	1400
- maximum	mm	1600
toe-in	mm	2 ÷ 4
wheel caster angle		3°
axle swinging angle		10°
tyre inflating pressure		
	bar	2,4
	Kg/cm²	2,40
lubricating grease type		NGLI 2 LITIO / Ca
steering angle		70°

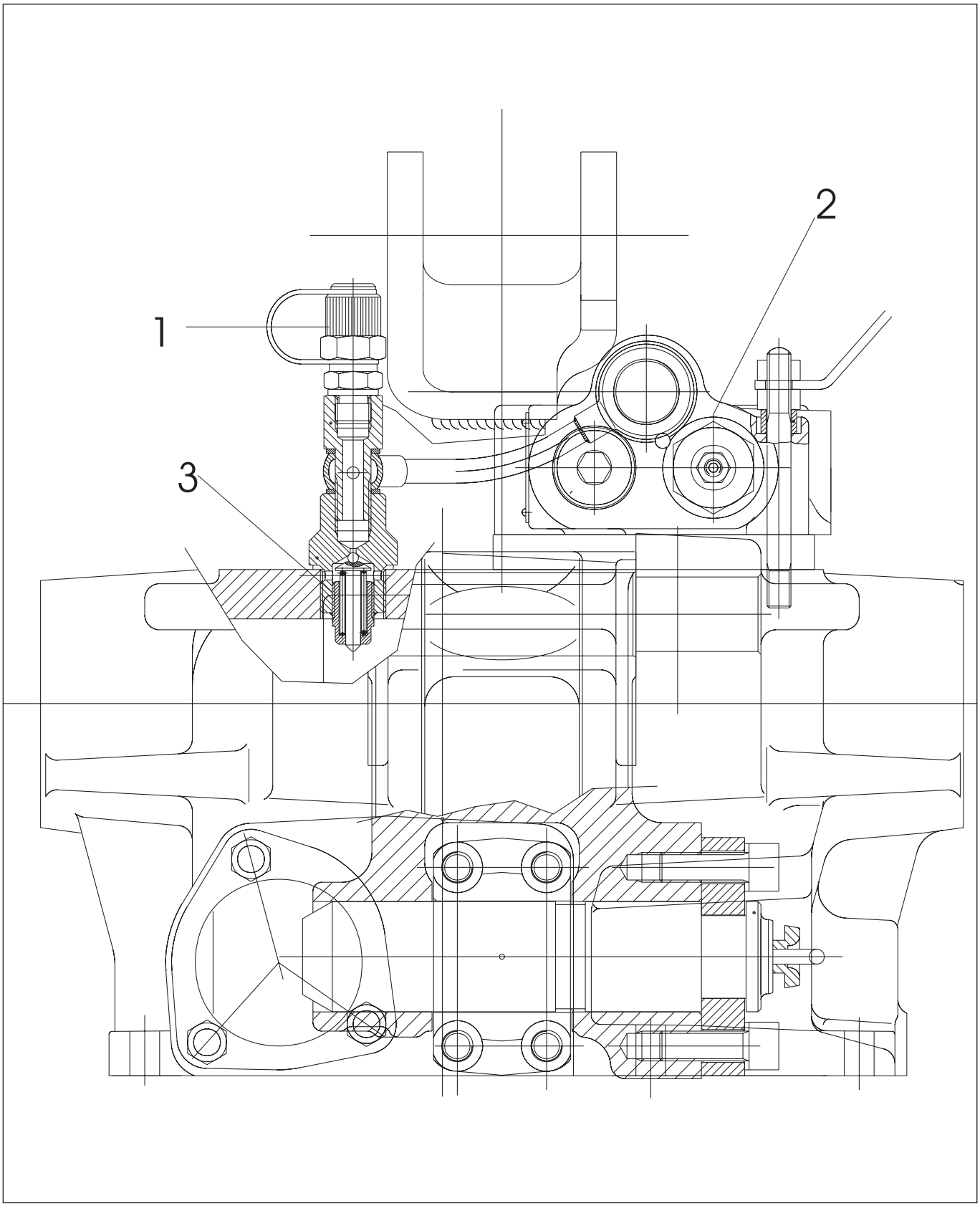


Fig. 14 - Pin for draft control of the electronic lift
1 - Pressure test fitting for lift cylinder pressure
2 - Lift control valve
3 - Anti-shock valve

— Detach the two pipe clamps positioned in the channel passing over the engine and disconnect the oil return pipe from the cooler and the oil pipe of front lift;
— Disconnect the two hydrostatic steering delivery-return pipes from the hydrostatic steering oil cooler;
— Disconnect the lead and remove the brake and clutch oil reservoir securing strap;
— Disconnect the handbrake control and the synchro PTO control rod on the left-hand side under the driving platform;
— Loosen the 4 screws securing the platform to the silent-blocks;
— Disconnect the air conditioning system pipes at the quick-fit couplings and then loosen the respective retaining nuts of the pipes connected to the cab so that they may be detached from their support brackets;
— Connect the cab to a suitable hoist and raise it, taking care that it disengages form the tractor, then remove it from the tractor;

Fig. 15 - Disconnecting the parts connectinga the cab to the tractor.

Fig. 16 - Lifting the cab off the tractor using a hoisting.

Remove cab.

WARNING: during the cab hoisting operation, check carefully that all the parts have been disconnected and that the cab disengages from the tractor.

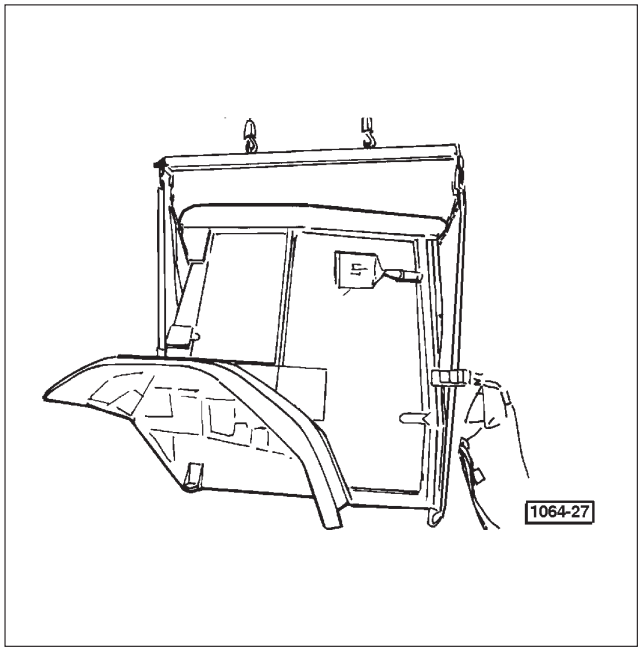


Fig. 17 - Position the cab on suitable supports and proceed with the operations on the tractor.

IMPORTANT: If the fuel tank is also to be removed, disconnect the flexible pipe from the rigid injector leak-off pipe.

Refitting the cab or driving platform.

Refitting: the reverse of removal.

BREAKAGE OF THE TOP ENGINE HOOD RELEASE CABLE

To open the hood, insert a screwdriver between the hood and the grille to operate the hood catch.
Push the screwdriver to the left (relative to the driving position) to release the hood.

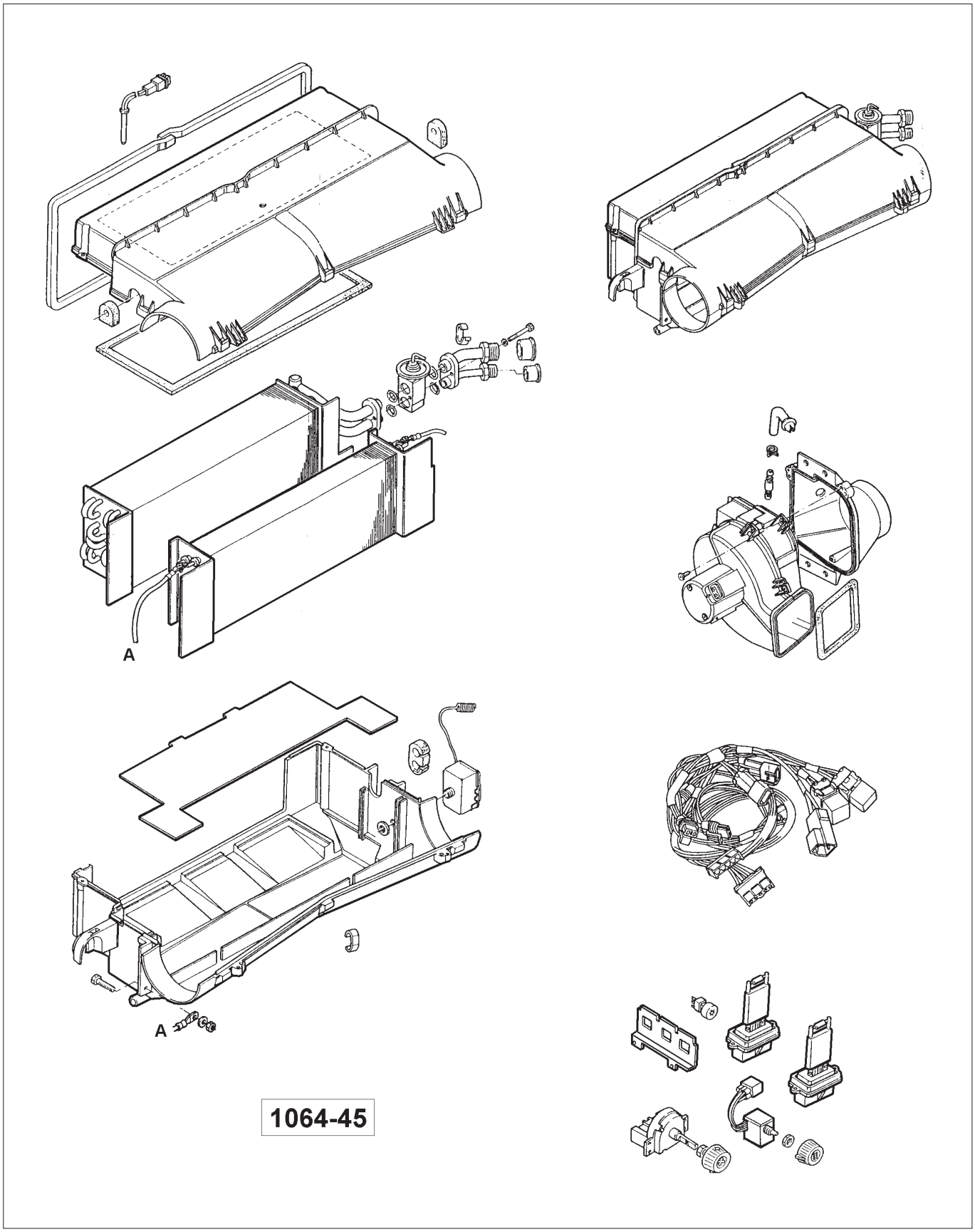
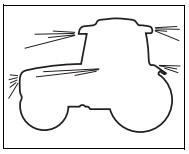
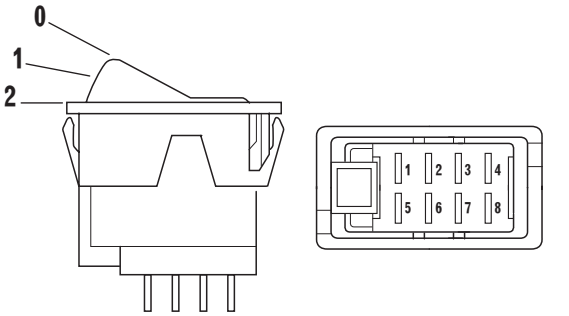
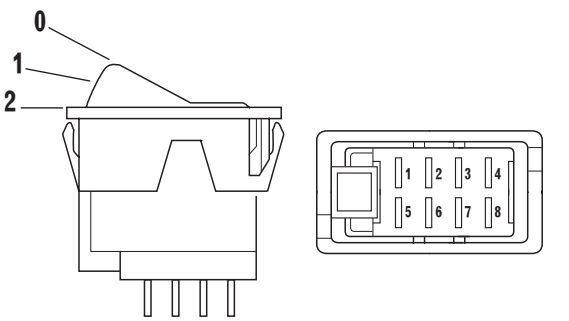
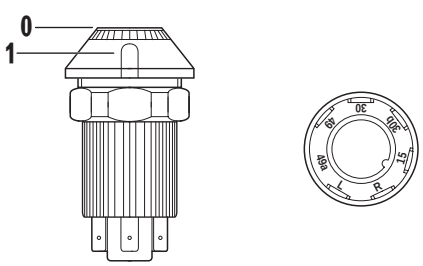


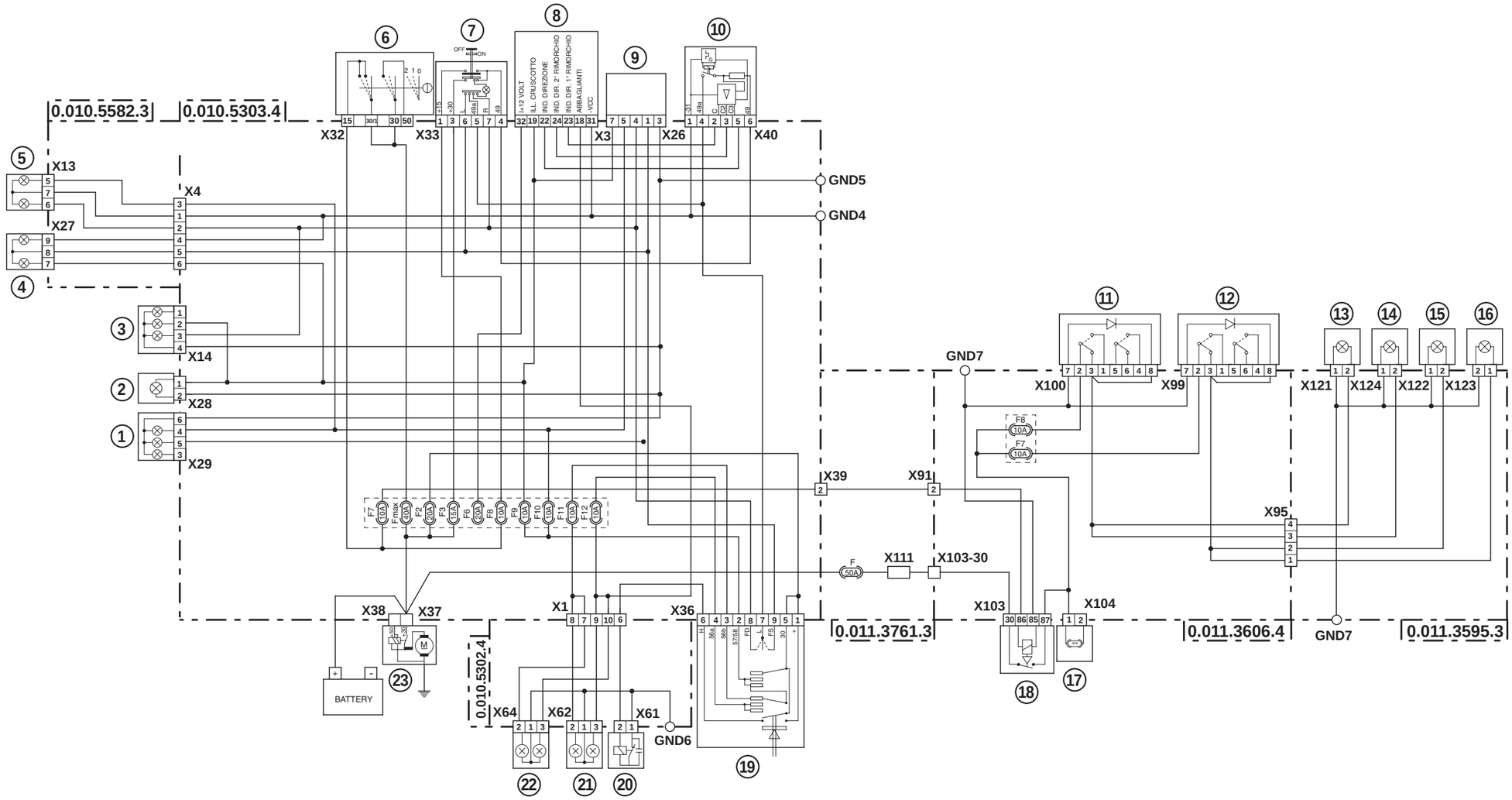
Fig. 17 - Climatisation system components for high visibility cab



Component description	Component code	Tech. descr. (Chap. 3.2.x)	Connector	System (Chap. 4.xx)
Front wiper control switch	2.7659.224.0	38	X98	10
Rear wiper control switch	2.7659.146.0	26	X79	9
Rear wiper control switch	2.7659.192.0	37	X97	10
Start enable switch	2.7659.097.0		X31	2
Handbrake switch	2.7659.129.0	17	X24	18
Hazard warning lights switch	2.7659.110.0	27	X33	3-4-5
Rear worklights switch (Not utilised)			X34	3
Brake pedal switch	2.7659.097.0		X5	18
Flashing light			X127	7-8
Windscreen wiper motor	04413192		X130	9-10
Rear screen wiper motor	2.9019.100.0/20		X125	9
Rear screen wiper motor	2.9019.180.0		X125	10
Starter motor	01180928		X37-X38	2
Clock	2.9389.002.0		X83	7-8
Interior roof light	2.8339.032.0		X74	7-8
Fuel pump			X41	2
Front screen washer pump	0.9241.566.1		X129	9-10
Rear screen washer pump	0.9241.566.1		X135	9-10
Max. lift height adjustment potentiometer	0.011.2990.0	3	H1	20
Lift position adjustment potentiometer	0.011.2990.0	4	P1	20
Potentiometer adjustment heading	0.98707.67.3		X138-X145	14-15-16-17
Draft/wheelslip adjustment potentiometer	0.011.2990.0	5	M1	20
Lift lowering speed adjustment potentiometer	0.011.2990.0	6	V	20
Outlet socket (in cab)	2.6039.017.0		X11	6-7-8
Trailer socket (For lights and auxiliary power)			X26	3-4-5-18
Air conditioning pressure switch	0.010.2140.0		X118-X120	16
Air conditioning pressure switch	0.010.2262.0		X116	17
Trailer braking low pressure switch	2.7099.430.0		X25	18
Hydraulic oil low pressure switch	2.7099.660.0/10	15	X20	11
Pressure switch - hydraulic oil filter clogging			X19	11
Engine oil pressure switch	01181549	16	X55	11
Engine governor reset button	2.7659.139.0	18	X45	11

N°	Description	Code	Characteristics	Connector
25	Winscreen wiper control switch	2.7659.092.0	 Pin / Pos: 1 2 3 4 5 6 7 8 0: ● ● ● ● 1: ● ● ● ● 2: ● ● ● ●	X84
26	Rear wiper control switch	2.7659.146.0	 Pin / Pos: 1 2 3 4 5 6 7 8 0: ● ● ● ● 1: ● ● ● ● 2: ○ ○ ○ ○	X79
27	Hazard warning lights switch	2.7659.110.0	 Pin / Pos: 15 49 30 L 49a R 0: ● ● 1: ● ⊗ ● ● ●	X33

4.5 LIGHTS - STEERING COLUMN SWITCH UNIT (HIGH-VISIBILITY CAB)

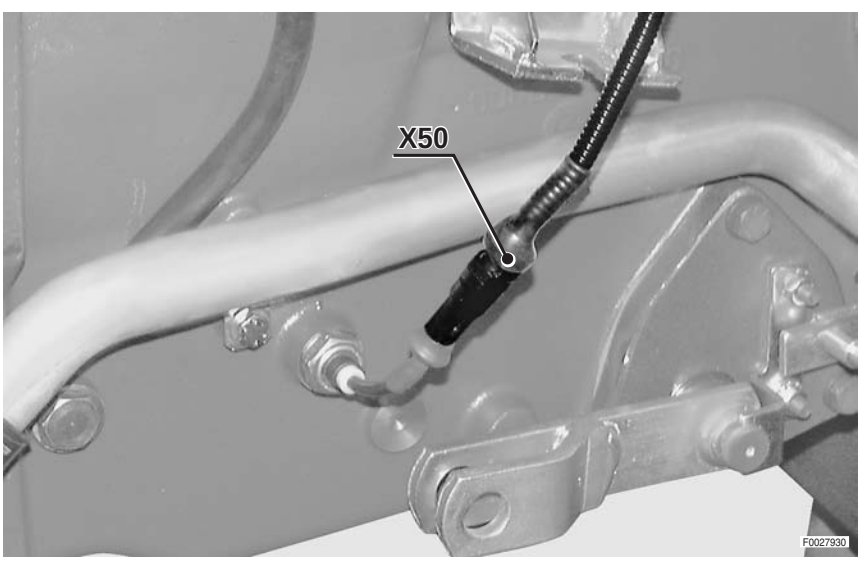


1 Rear left light
2 Number plate light
3 Rear right light
4 Front left sidelight and direction indicator
5 Front right sidelight and direction indicator
6 Starter switch
7 Hazard warning lights switch
8 Instrument panel
9 Trailer socket
(For lights and auxiliary power)
10 Hazard warning control unit
11 Front worklights control switch
12 Rear worklights control switch
13 Front left worklight
14 Front right worklight
15 Rear left worklight
16 Rear right worklight
17 Roof wiring power fuse (40 Amp)
18 Roof wiring power relay
19 Lights selector switch
20 Horn
21 Front left lights
22 Front right lights
23 Starter motor

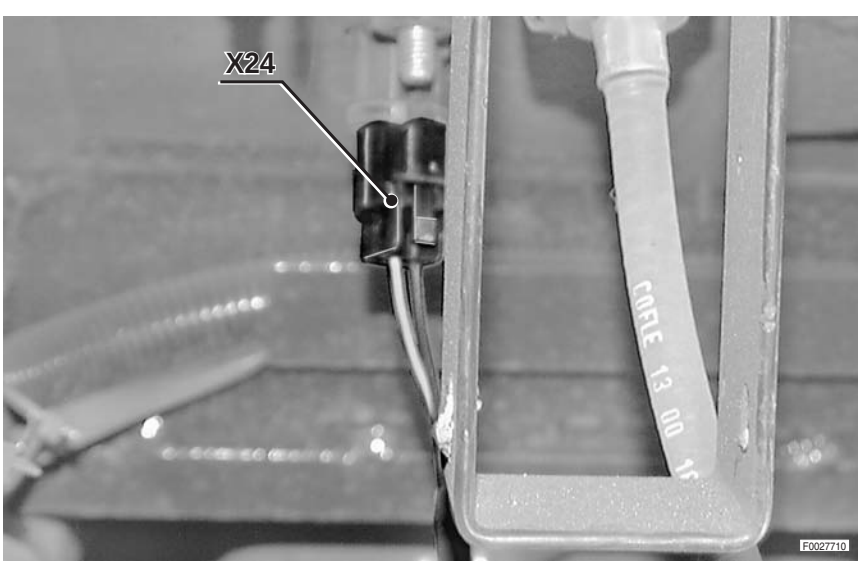
D0008870

12

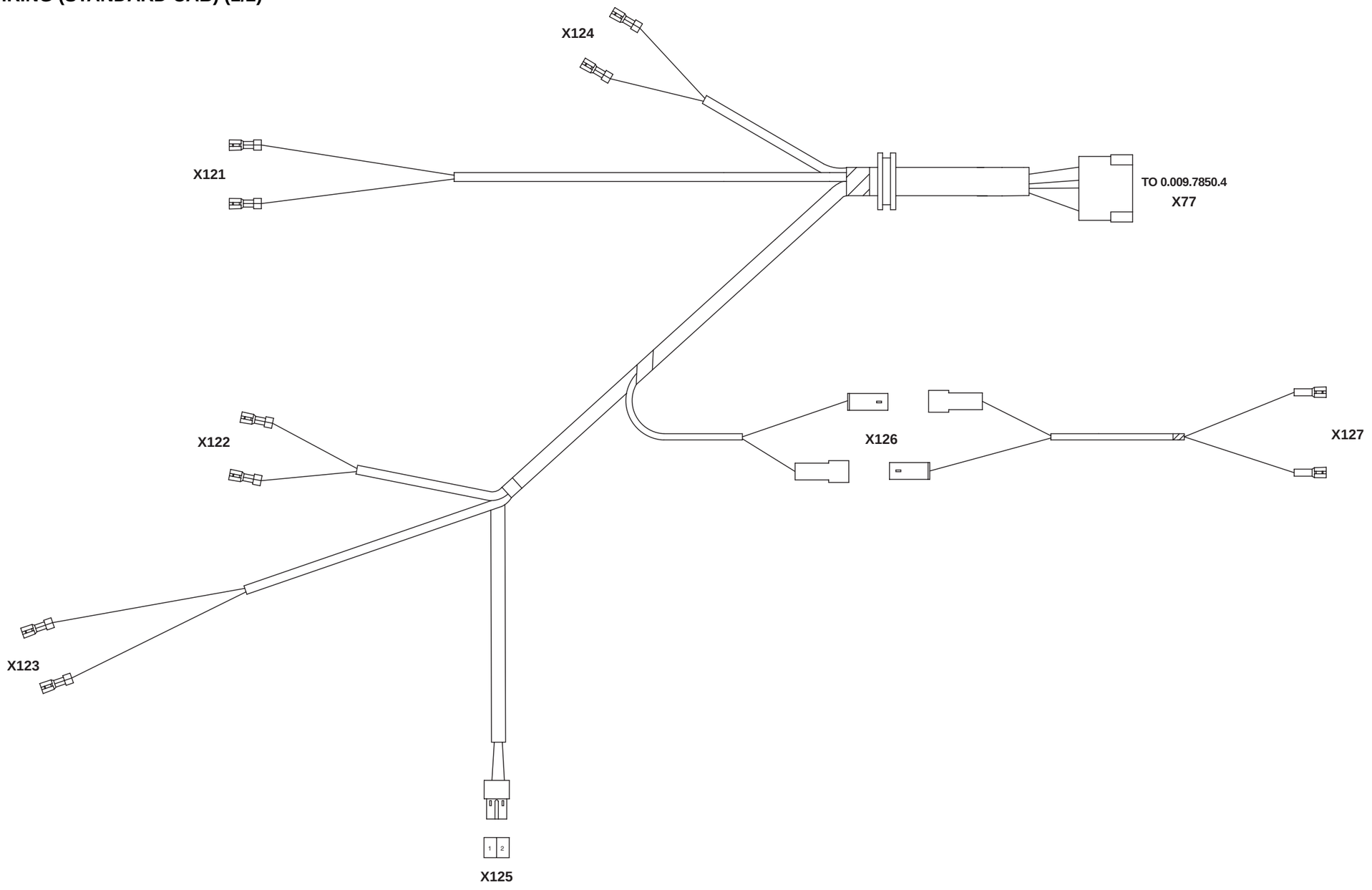
13



14



WORKLIGHTS WIRING (STANDARD CAB) (1/2)



X77 To roof wiring
X121 Front left worklight
X122 Rear left worklight
X123 Rear right worklight
X124 Front right worklight
X125 Rear screen wiper motor
X126 Connector
X127 Rotating beacon

D0006770

ROOF WIRING (HIGH VISIBILITY CAB) (2/2)

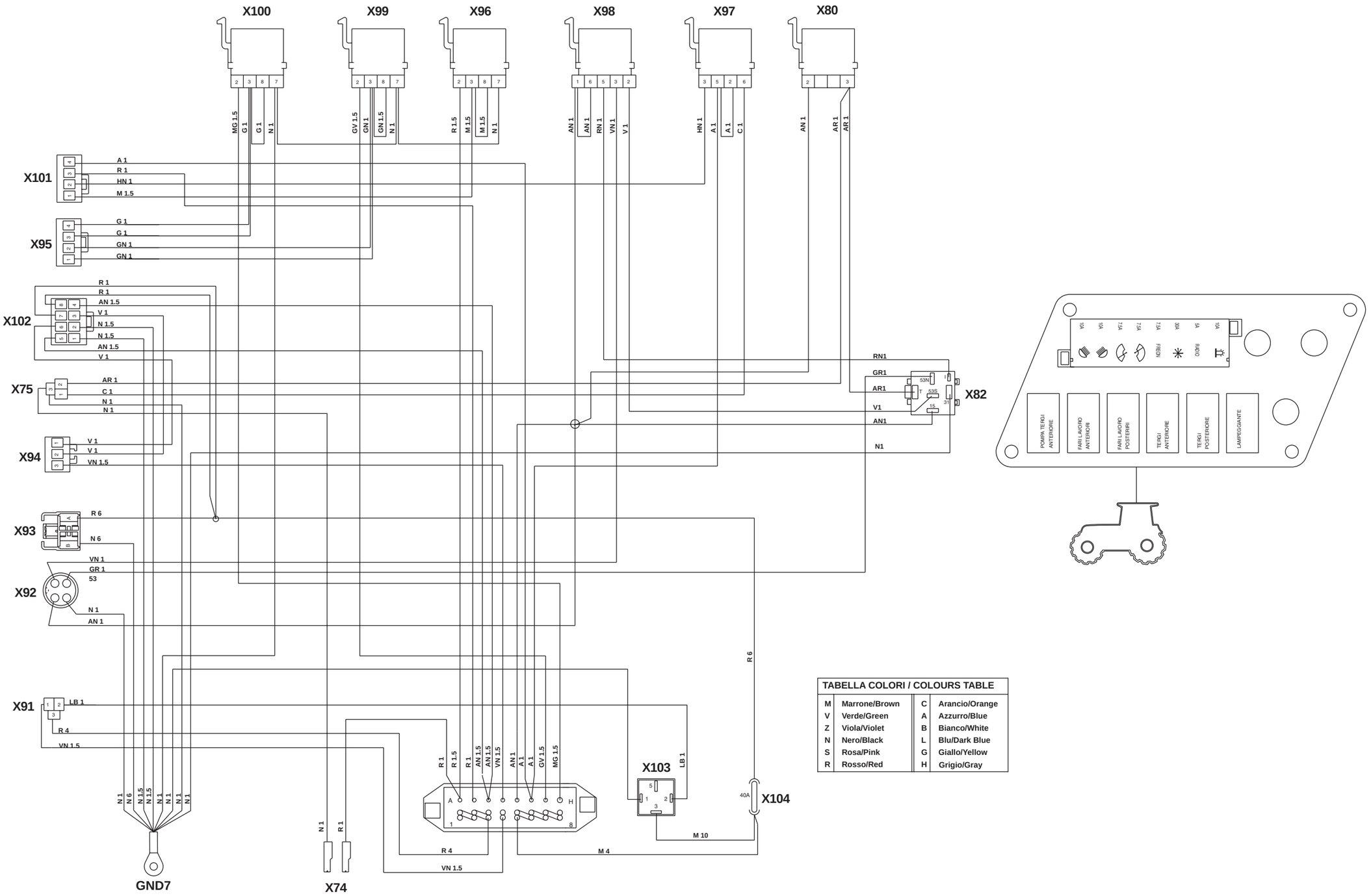
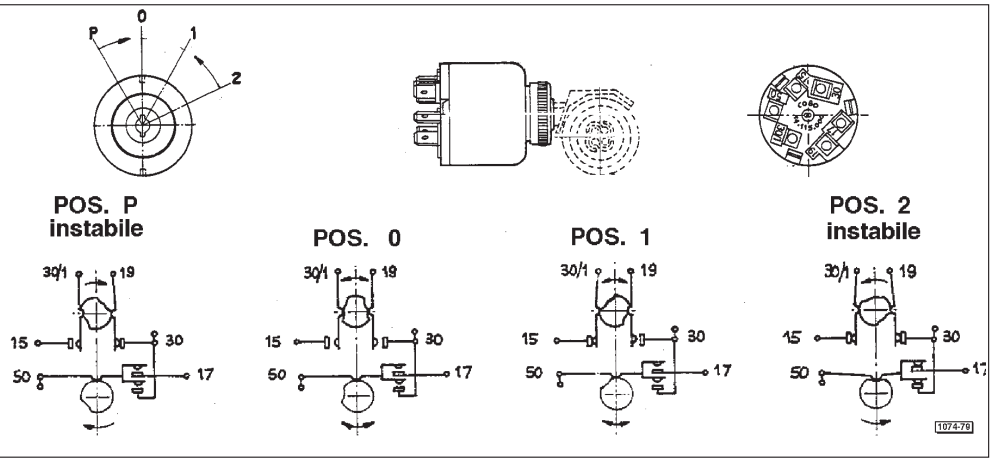
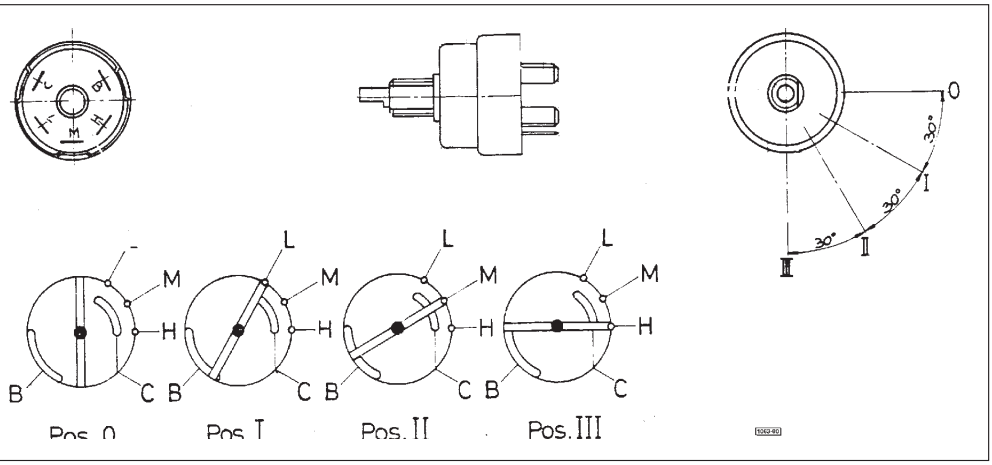


TABELLA COLORI / COLOURS TABLE			
M	Marrone/Brown	C	Arancio/Orange
V	Verde/Green	A	Azzurro/Blue
Z	Viola/Violet	B	Bianco/White
N	Nero/Black	L	Blu/Dark Blue
S	Rosa/Pink	G	Giallo/Yellow
R	Rosso/Red	H	Grigio/Gray

IGNITION KEY



VENTILATION CONTROL
for tractors equipped with standard cab



PUSH BUTTON CONTROL

HAZARD WARNING LIGHTS