NEW HOLLAND

LM1340
LM1440
LM1740

Workshop
Manual

NEW HOLLAND
CONSTRUCTION
BUILT AROUND YOU

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AVOID ACCIDENTS

Most accidents and injuries occurring in industry, on the farm, at home or on the road, are caused by the failure of some individual to follow simple and fundamental safety rules or precautions. For this reason, MOST ACCIDENTS CAN BE PREVENTED by recognizing the real cause and taking the necessary precautions, before the accident occurs.

Regardless of the care used in design and construction of any type of equipment, there may be conditions that cannot be completely safeguarded against without interfering with reasonable accessibility and efficient operation.

A careful operator is the best insurance against accidents. The complete observance of one simple rule would prevent many thousands serious injuries each year.

This rule is: Never attempt to clean, lubricate or adjust a machine while it is in motion.

⚠ WARNING

On machines having hydraulically, mechanically and/or cable controlled equipment (such as showels, loaders, dozers, scrapers etc.) be certain the equipment is lowered to the ground before servicing, adjusting and/or repairing.
If it is necessary to have the equipment partially or fully raised to gain access to certain items, be sure the equipment is suitably supported by means other than the hydraulic lift cylinders, cable and/or mechanical device used for controlling the equipment.

MODEL CODES

The complete range of telescopic handlers (Telehandler) described in this manual is identified in the text by reference to the maximum extension of the telescopic arm.

The vehicles listed below may not be available in all countries or markets, therefore for the latest information consult your authorised dealer.

Model	**LM1340**			**LM1440**			**LM1740**	
	not stab.	small stab.	large stab.	not stab.	small stab.	large stab.	not stab.	stab.
Engine	88 kW (120 Cv) Turbo Aftercooler			88 kW (120 Cv) Turbo Aftercooler			88 kW (120 Cv) Turbo Aftercooler	
Max. lifting height (m)	12.300	12.450	12.450	13.300	13.550	13.550	16.240	16.600
Max. capacity (kg) at 500 mm from fork stop	4000	4000	4000	4000	4000	4000	4000	4000
Capacity at max. height (kg)	2600	3600	4000	2800	3000	3600	700	2500
Extension at max. height (m)	1.200	0.500	0.000	1.000	0.500	0.300	2.000	1.000
Max. longitudinal extension (m)	8.650			9.330			12.540	
Capacity at max. extension (kg)	700	1700	1800	650	1400	1500	0	450
Weight (kg)	11050			11970			12340	
Length (m)	5.850			6.070			6.135	

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Service manual
LM1340 - LM1440 - LM1740
TELESCOPIC HANDLERS

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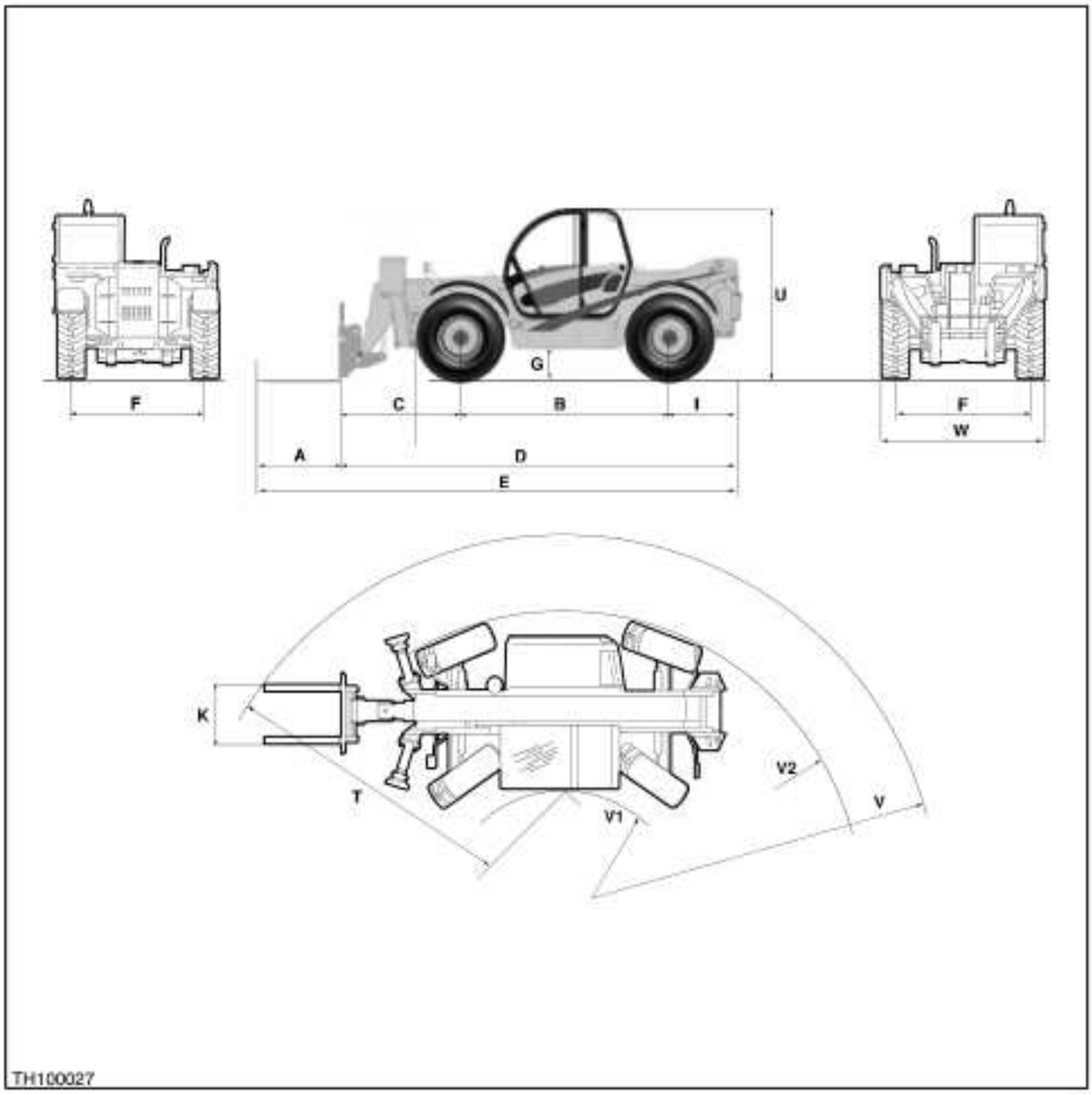
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LM1340

A	1200 mm	K	1260 mm
B	3120 mm	T	4396 mm
C	1617 mm	U	2730 mm
D	5850 mm	V	5204 mm
E	7050 mm	V_1	980 mm
F	2050 mm	V_2	3890 mm
G	402* mm	W	2445 mm
I	1100 mm		

* Value measured with tyres 405/70x24

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TROUBLESHOOTING

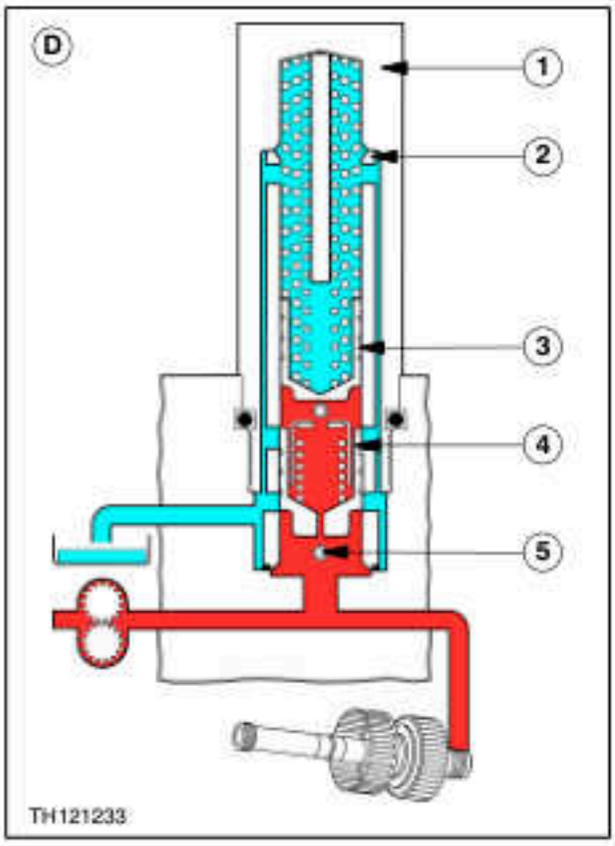
PROBLEM	CAUSE	REMEDY
Same noise for engagement and release	1. Hub bearings damaged	Replace damaged elements
Higher noise during engagement rather than release	2. Low oil level	Top up oil
	3. Crown wheel and pinion worn	Check through the upper cover. Replace worn crown wheel and pinion
	4. Crown wheel and pinion bearings worn	Replace damaged elements
	5. Epicycloids planetary hub or bearing worn	Replace damaged elements
	6. Pinion ring nut loose	Check the crown wheel and pinion and respective bearings. If they are not damaged, tighten the ring nut
	7. Only one pinion bearing worn	See remedy No. 4
Noise under steering	8. Differential satellites and/or planetary hubs damaged	Replace damaged elements
"Stick slip" noise when changing direction of travel.	9. Universal joint damaged	Check and replace the joint as shown in the vehicle handbook
	10. Wheel loose	Check possible wheel hub disc and stud bolt damages. If needed, replace damaged elements and tighten the nuts to prescribed torque
	11. Steering pin seals, axle shafts or steering pivots damaged	Check and replace damaged elements
	12. Differential case satellites free	Check through the upper cover. Replace damaged elements
	13. Differential adjusting bushes worn	See remedy No. 8

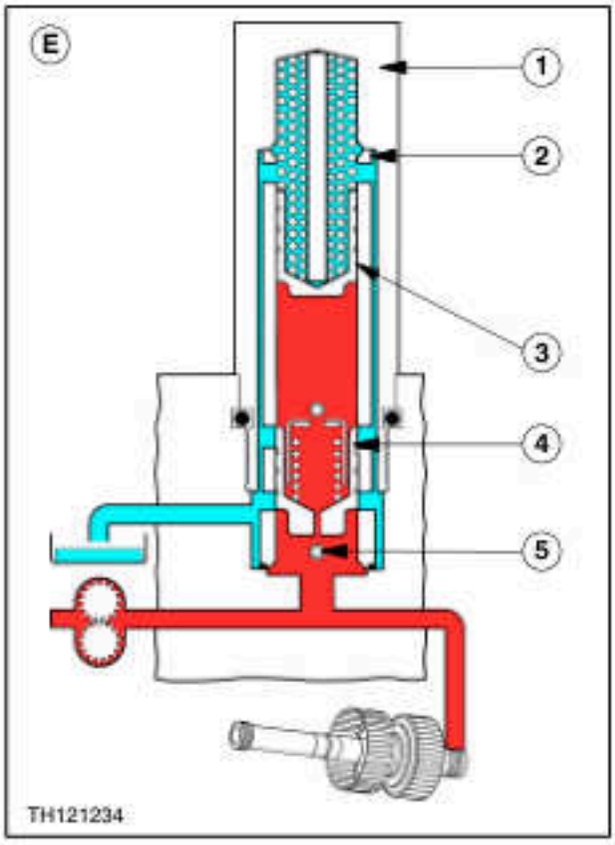
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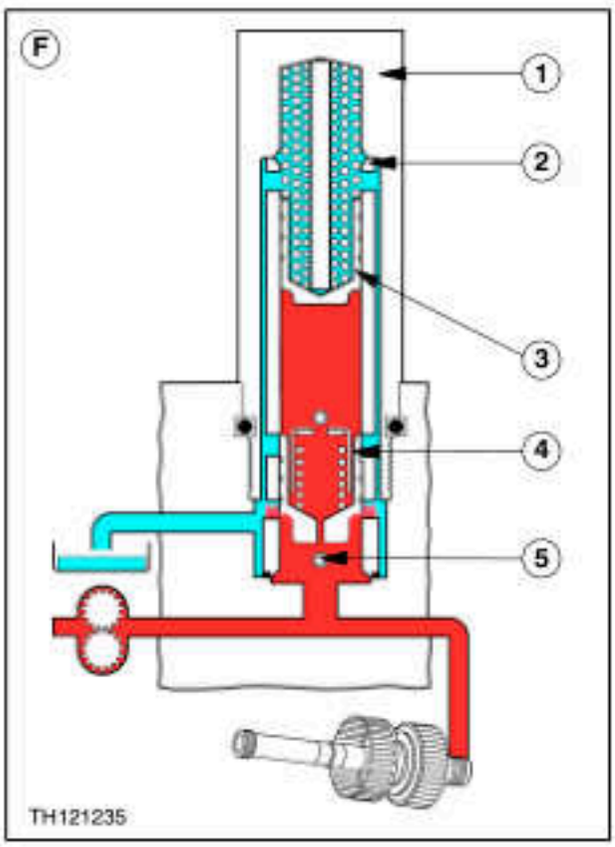
DIAGRAM 9 – HEATING/SOUND SYSTEM/ELECTRIC SOCKET/ROOF LAMP

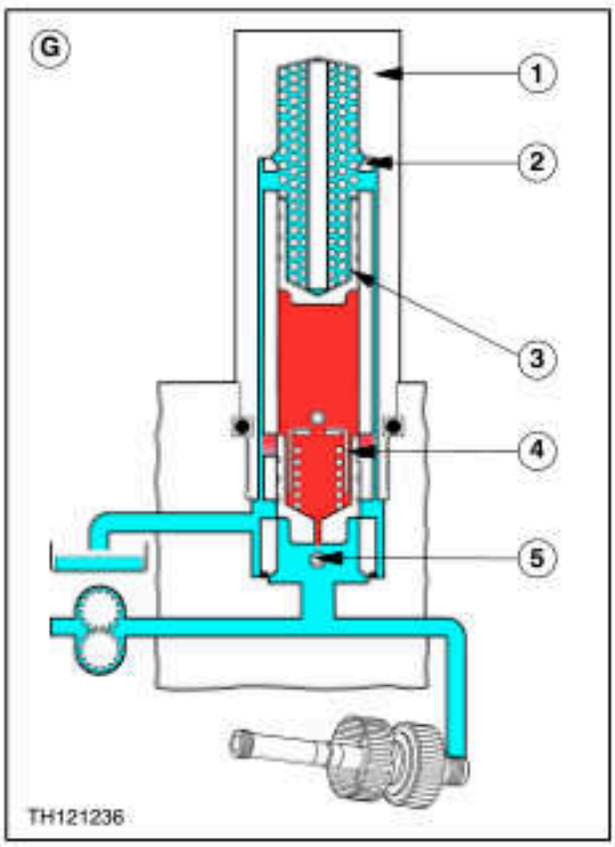
COMPONENTS AND FUSES	DESCRIPTION
BS1	RH loudspeaker
BS2	LH loudspeaker
H13	Cigar lighter illumination
H14	Roof lamp
M7	Fan
S131	Heating switch
F8	Seat fuse 15A
F23	Cabin ventilation solenoid valve fuse 10A
F27	Fuse + 30 roof lamp + sound system 5A
F28	Micro seat fuse 5A
F29	Fuse + 30 CB 7.5A
F32	Fuse + 15 sound system 3A
F41	Fridge socket fuse 15A
F42	Cigar lighter fuse 20A
X53	Cigarette lighter
X54	Fridge socket

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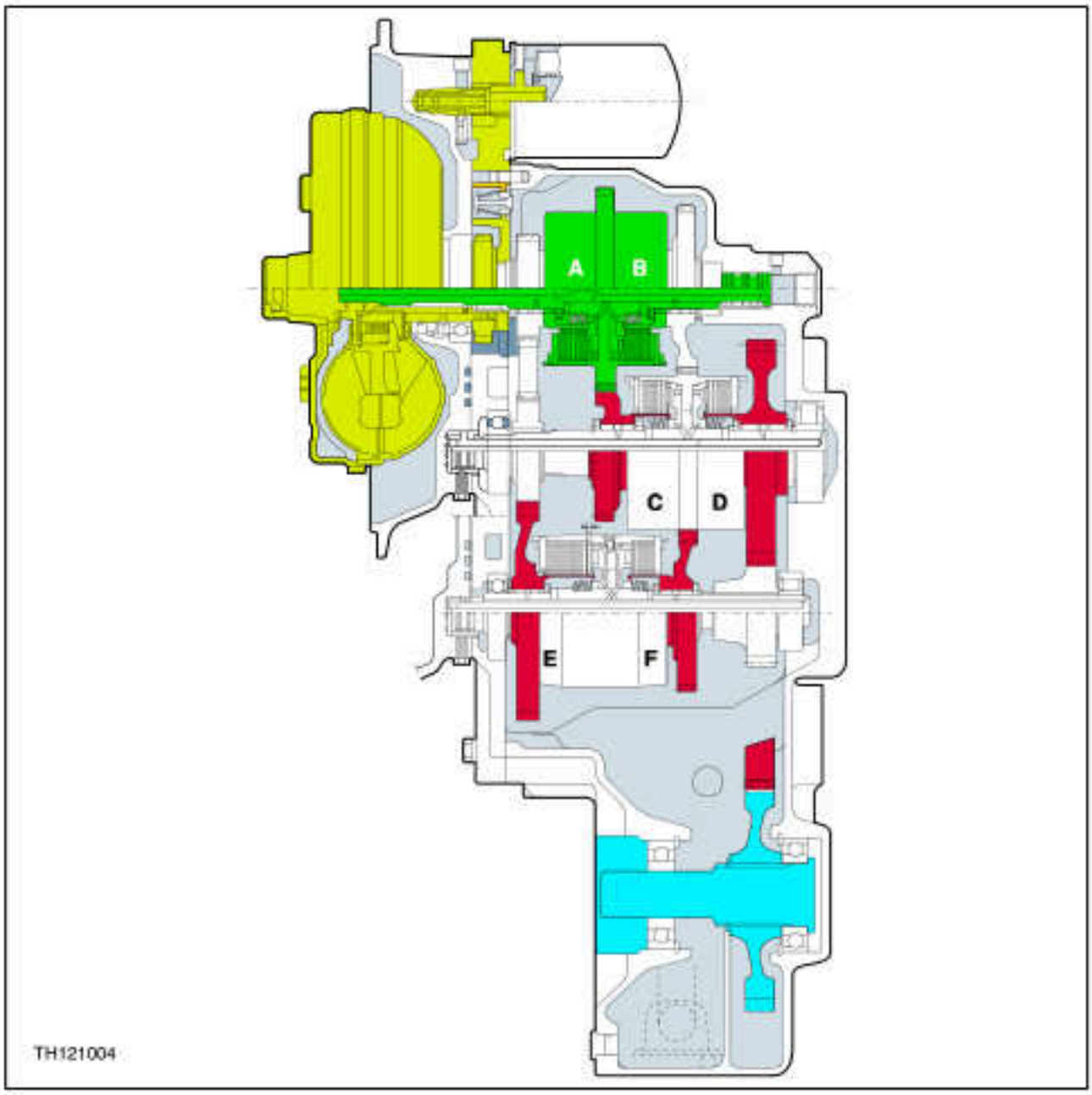


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GEARBOX OPERATION

Through the converter, the thermal engine transmits motion to the gearbox input shaft, on which the advance/reverse motion clutches are assembled.
Depending on the gearbox control lever selection, solenoid valves are energised/de-energised to enable oil under pressure to engage the clutch packages corresponding to the selected direction and speed.

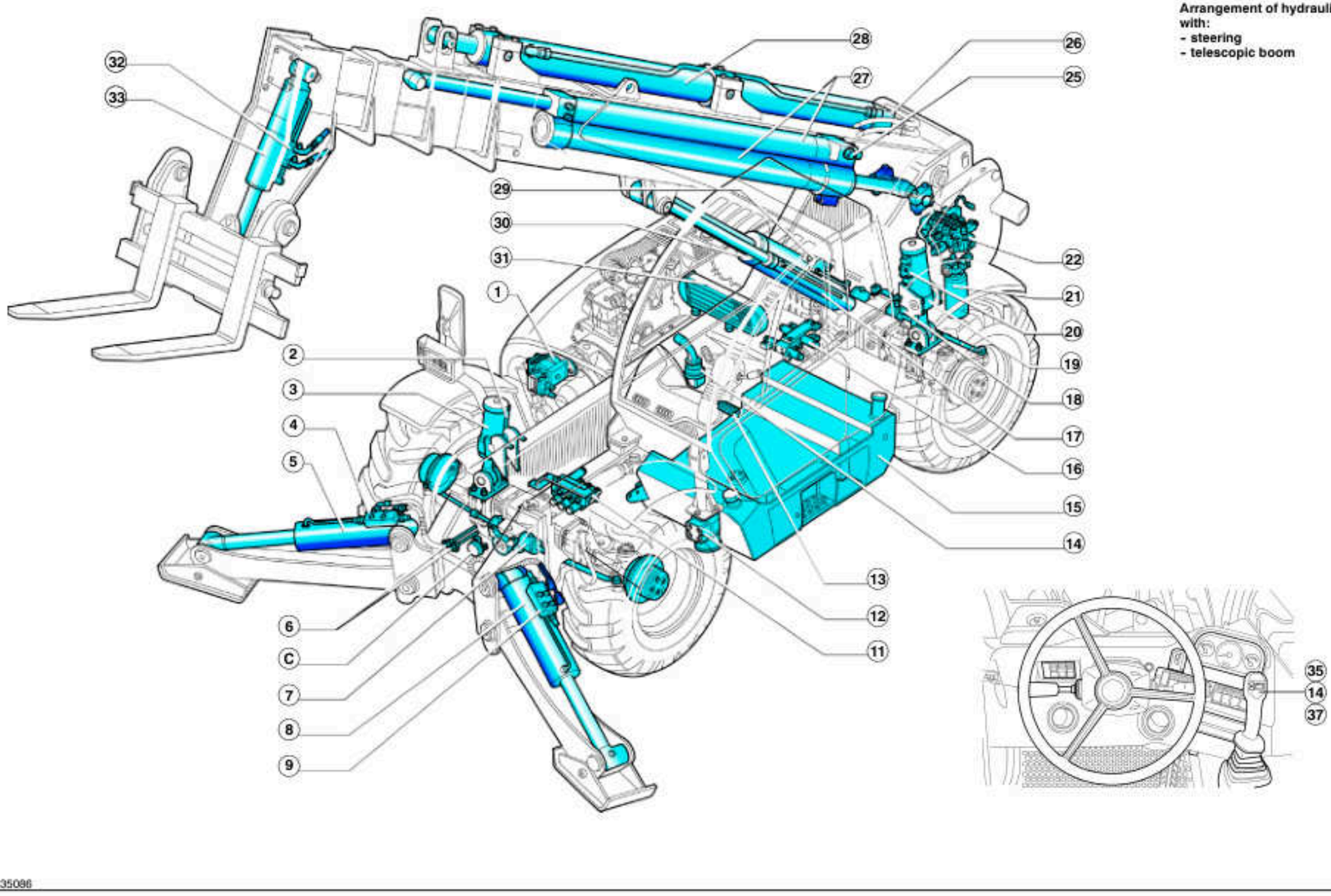
NOTE: *For details, see the following pages.*



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1. Control pump converter and pressure adjusting valve
2. Input shaft and direction clutches (forward/reverse)
3. Speed gears
4. Output shaft
5. Speed clutches

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Arrangement of hydraulic system components, complete with:
- **steering**
- **telescopic boom**

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