

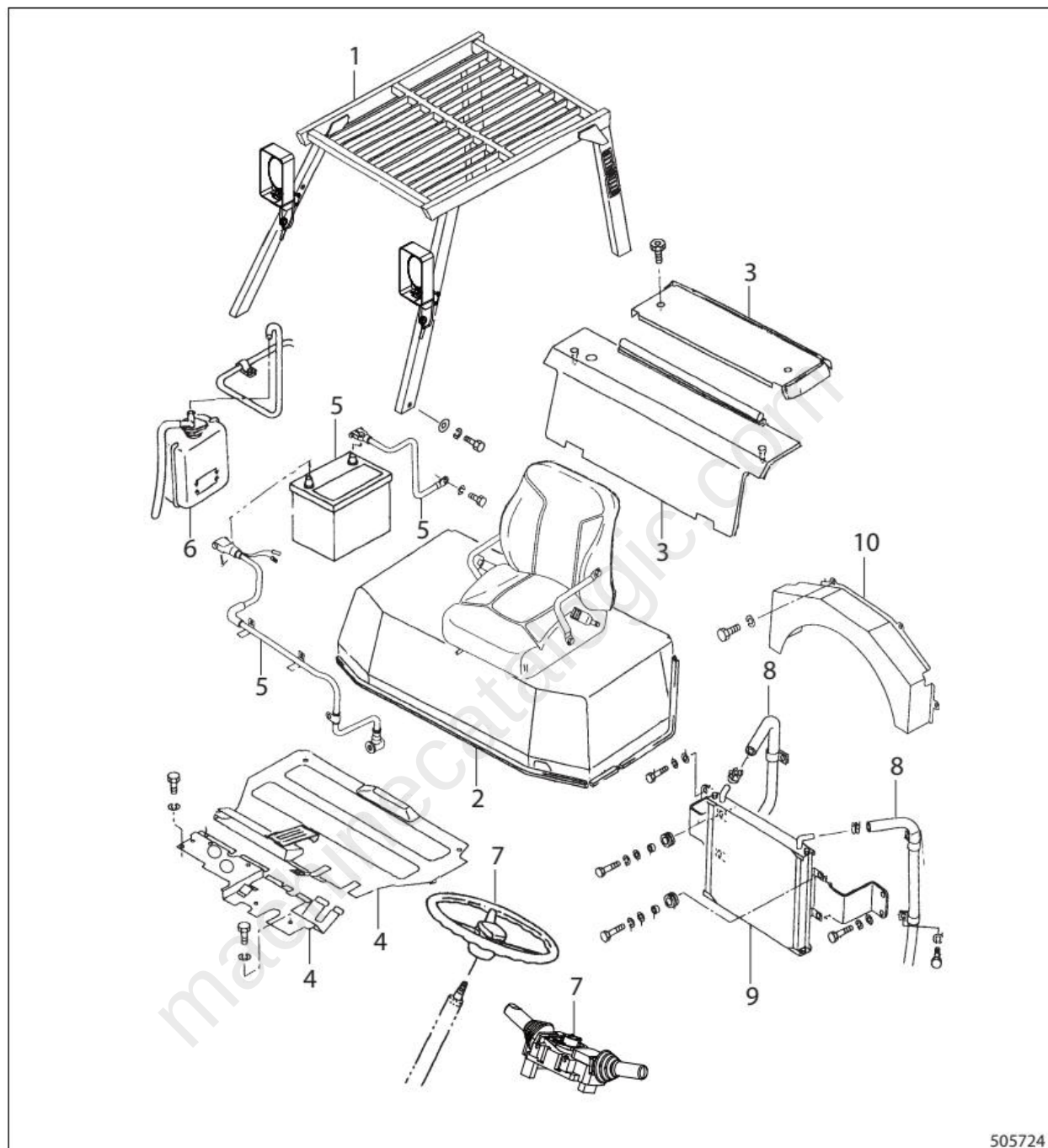


Service Manual

Chassis & Mast

GC35K	AT87B-10011-up
GC40K	AT87B-10011-up
GC40K STR	AT87B-10011-up
GC45K SWB	AT87B-10011-up
GC45K STR	AT87B-10011-up
GC55K	AT88B-10011-up
GC55K STR	AT88B-10011-up
GC60K	AT89B-10011-up
GC70K	AT89B-10011-up
GC70K STR	AT89B-10011-up

4.2 Removal Sequence (1)

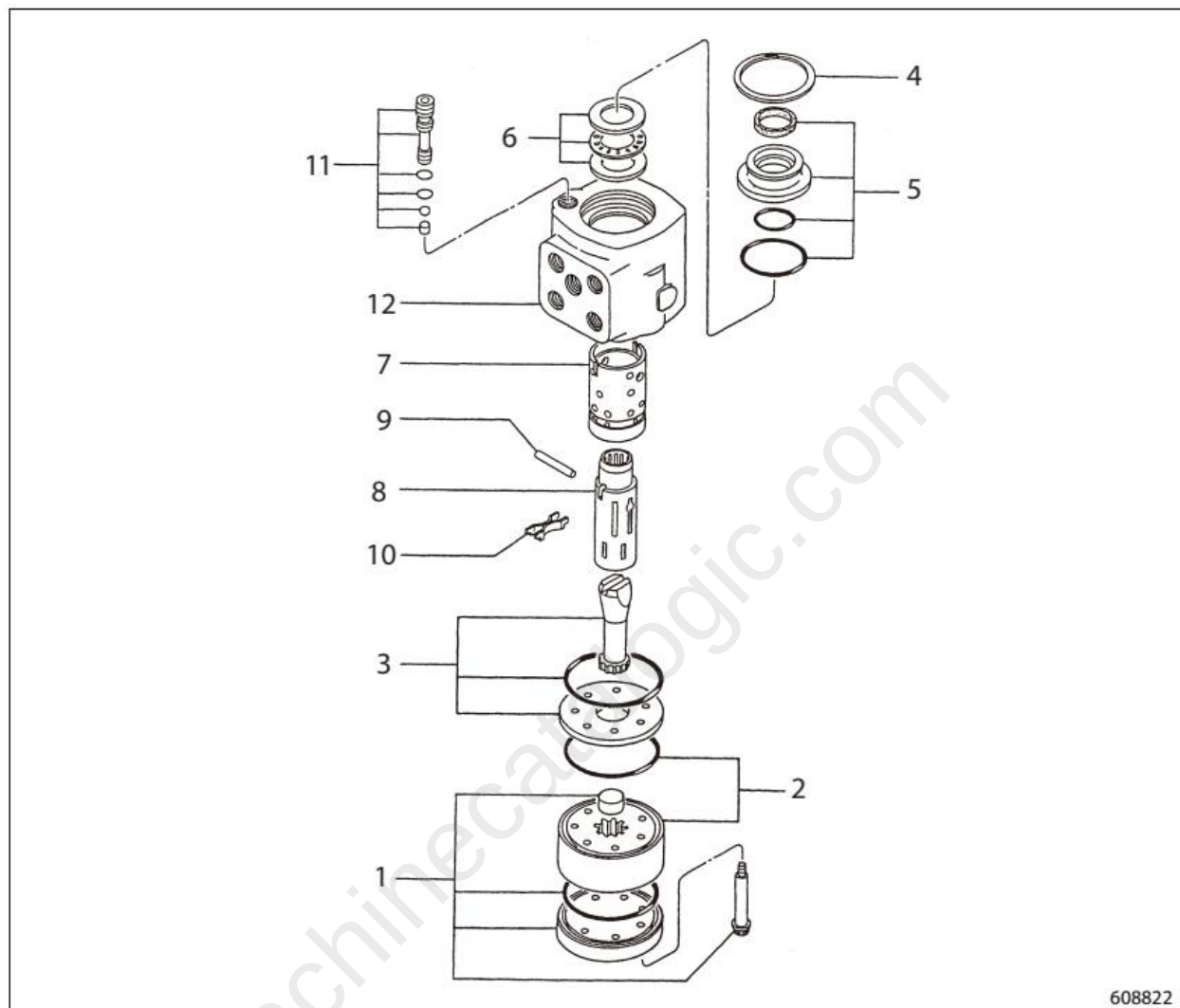


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- | | |
|------------------------------------|---|
| 1. Light harnesses, Overhead guard | 6. Reserve tank |
| 2. Engine cover, Seat | 7. Steering wheel, Forward/reverse lever assembly |
| 3. Radiator cover | 8. Transmission oil hoses |
| 4. Floor plate | 9. Transmission oil cooler, Bracket |
| 5. Battery cable, Battery | 10. Cowl |

5. Disassembling Steering Control Valve

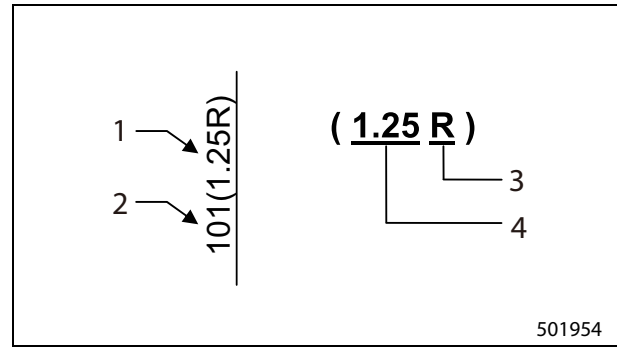
5.1 Disassembly Sequence



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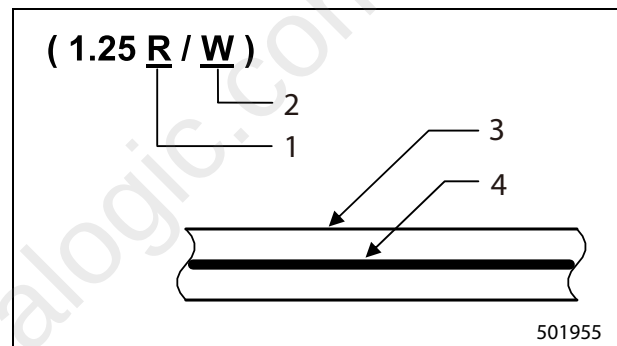
2.3 Connecting Lines

- (1) There are two thicknesses of the line which connect between elements in the circuit diagram. Each line is used as follows:
 - Thick line: Connecting lines for the electric wires size of 20 mm^2 (0.78 in^2) or above.
 - Thin line: All other connecting lines except the above.
- (2) Connecting lines are represented by the circuit number, wire diameter and wire color. For the connecting lines of 0.5 mm^2 (0.02 in^2) wire size, the wire diameter is omitted.



1. Wire diameter, wire color
2. Circuit number
3. Wire color
4. Wire diameter

- (3) Here are two types of wires: the one having only one color and the one having a colored stripe (combination of two colors).



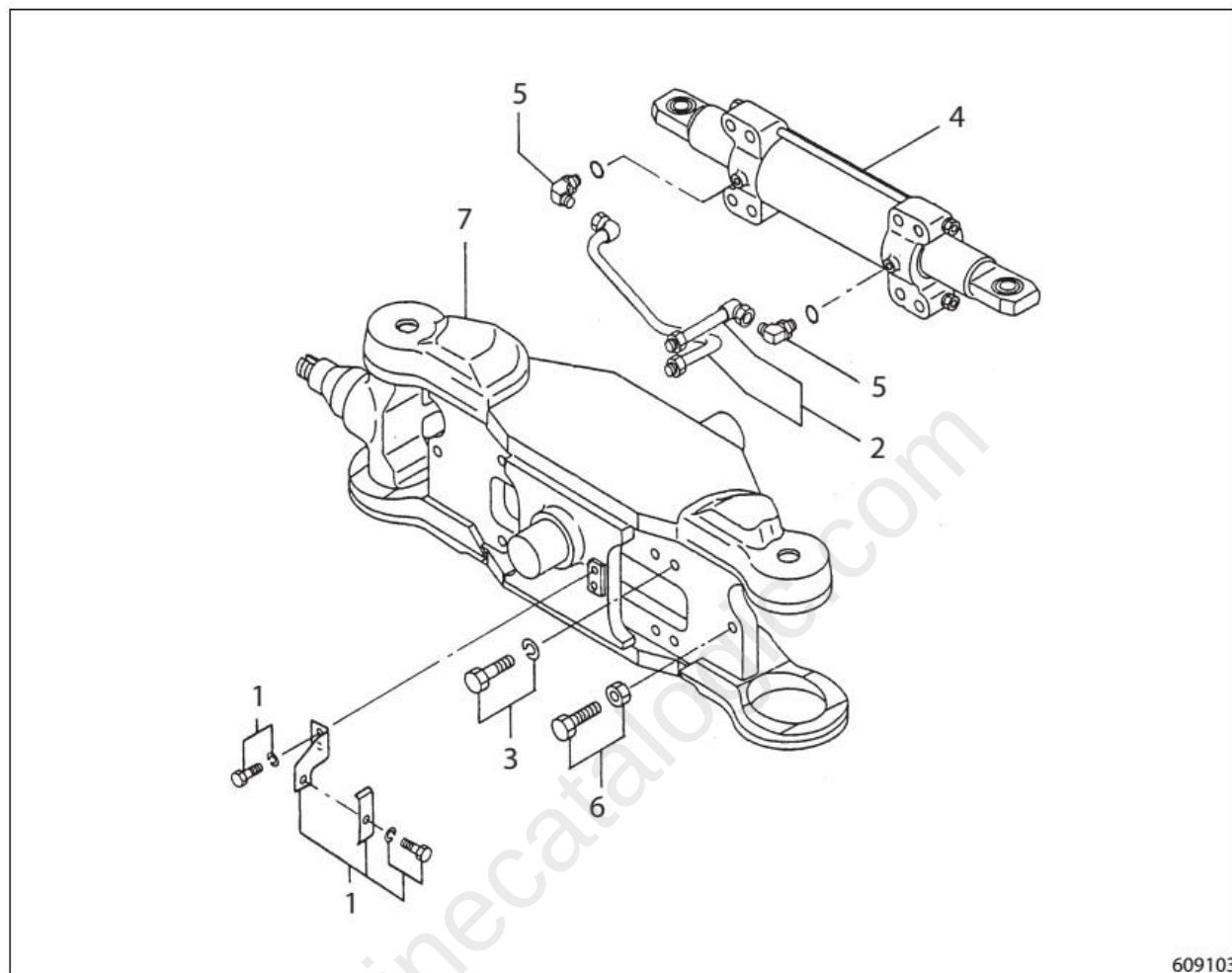
1. Base color
2. Stripe color
3. Base color
4. Stripe color

Color codes

Symbol	Color	Symbol	Color	Symbol	Color
B	Black	Br	Brown	P	Pink
W	White	L	Blue	Sb	Sky blue
R	Red	Lg	Light green	V	Purple
G	Green	O	Orange		
Y	Yellow	Gr	Gray		

7.2 Rear Axle (6.0 to 7.0 Ton)

Disassembly sequence

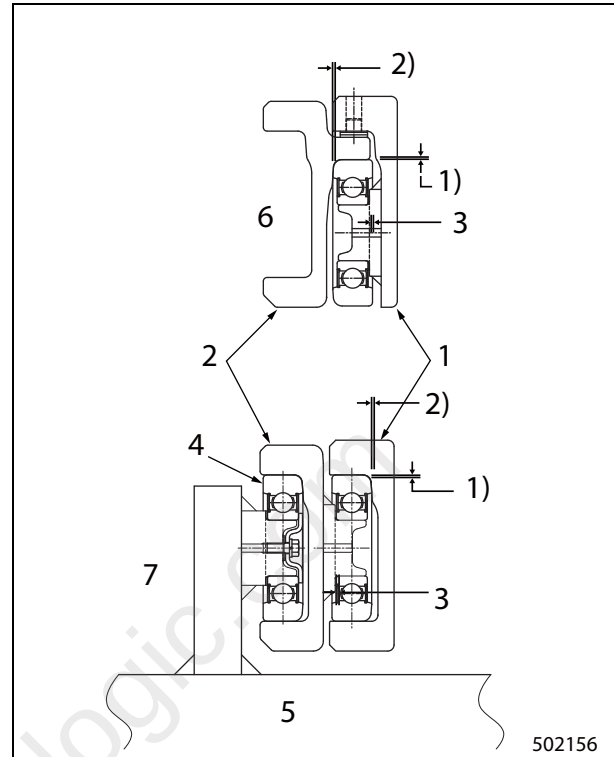


- | | |
|---------------------------|----------------------|
| 1. Bolt, Washer, Clamp | 5. Elbows, O-rings |
| 2. Oil pipes (L.H., R.H.) | 6. Bolt, Locknut |
| 3. Bolt, Spring washer | 7. Rear axle housing |
| 4. Bolt, Washer, Clamp | |

Since different oil pipes are used for 6.0 to 7.0 ton models, clamps of different shapes are used. Elbows are also different.

2.12 Installing Outer/Inner Mast Rollers

Mast rollers have the same shape and size as the lift bracket middle roller and the lower roller, and the mast rollers have the same standard value for clearances between the rollers and the masts.



- | | |
|------------------------------|--|
| 1. Outer mast | 6. Mast upper side |
| 2. Inner mast | 7. Mast lower side |
| 3. Shim (a) | 1) Clearance between main roller rolling face and mast |
| 4. Lift bracket lower roller | 2) Clearance between main roller side face and mast |
| 5. Lift bracket | |

Item		Standard value
1)	Clearance between main roller rolling face and mast	1 mm (0.04 in.) or less
2)	Clearance between main roller side face and mast	0.1 to 0.5 mm (0.004 to 0.020 in.)

Measuring the clearance between main roller rolling face and mast

If the measured clearances does not meet the standard value given in the table below, replace the roller with a roller of the correct diameter.

Note: For measurement, see 11-63 "Adjusting Mast Roller Clearance".

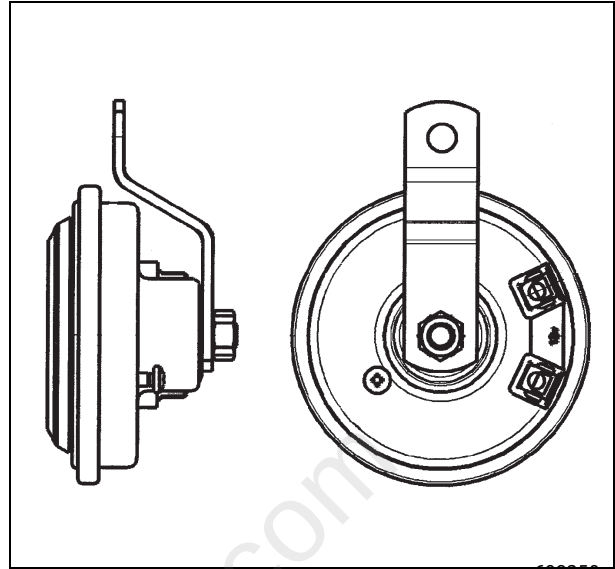
Item		Specifications	
		3.5 to 4.0 ton	4.5C to 5.5 ton
Roller size (external diameter)	S	117 mm (4.61 in.)	129 mm (5.08 in.)
	M	118 mm (4.65 in.)	130 mm (5.12 in.)
	L	119 mm (4.69 in.)	131 mm (5.16 in.)
	LL	120 mm (4.72 in.)	132 mm (5.20 in.)

5.4 Horn

Check that the horn sounds when applying the specified voltage to both terminals of the horn.

Replace the horn with a new one if it does not sound or its sound is abnormal.

Operating voltage: 9V to 16 V

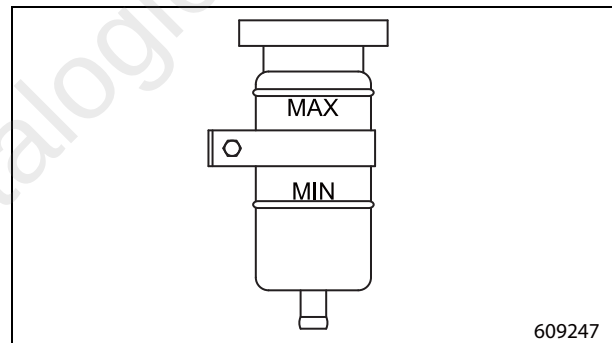


5.5 Reserve Tank

This reserve tank is equipped with LPG empty indicator switch.

Volume: Maximum 150 cc (9.2 cu. in) / Minimum 50 cc (3.1 cu. in)

Note: LPG empty indicator light glows when the brake fluid level reaches the minimum level.

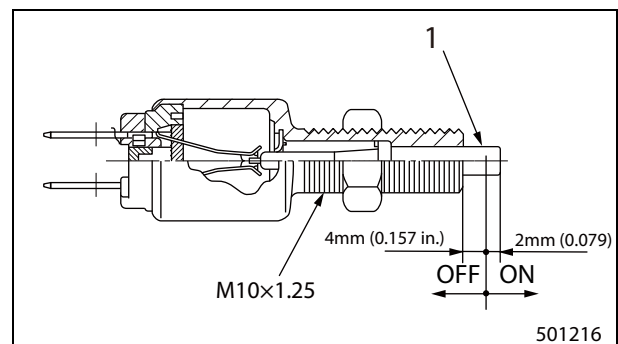


5.6 Stop Light Switch

Connect a tester across the terminals and check that the lights turn ON and OFF when the amount of the push rod extended projection is within the specified value.

Measure the insulation resistance value across the terminals when the push rod is pushed in.

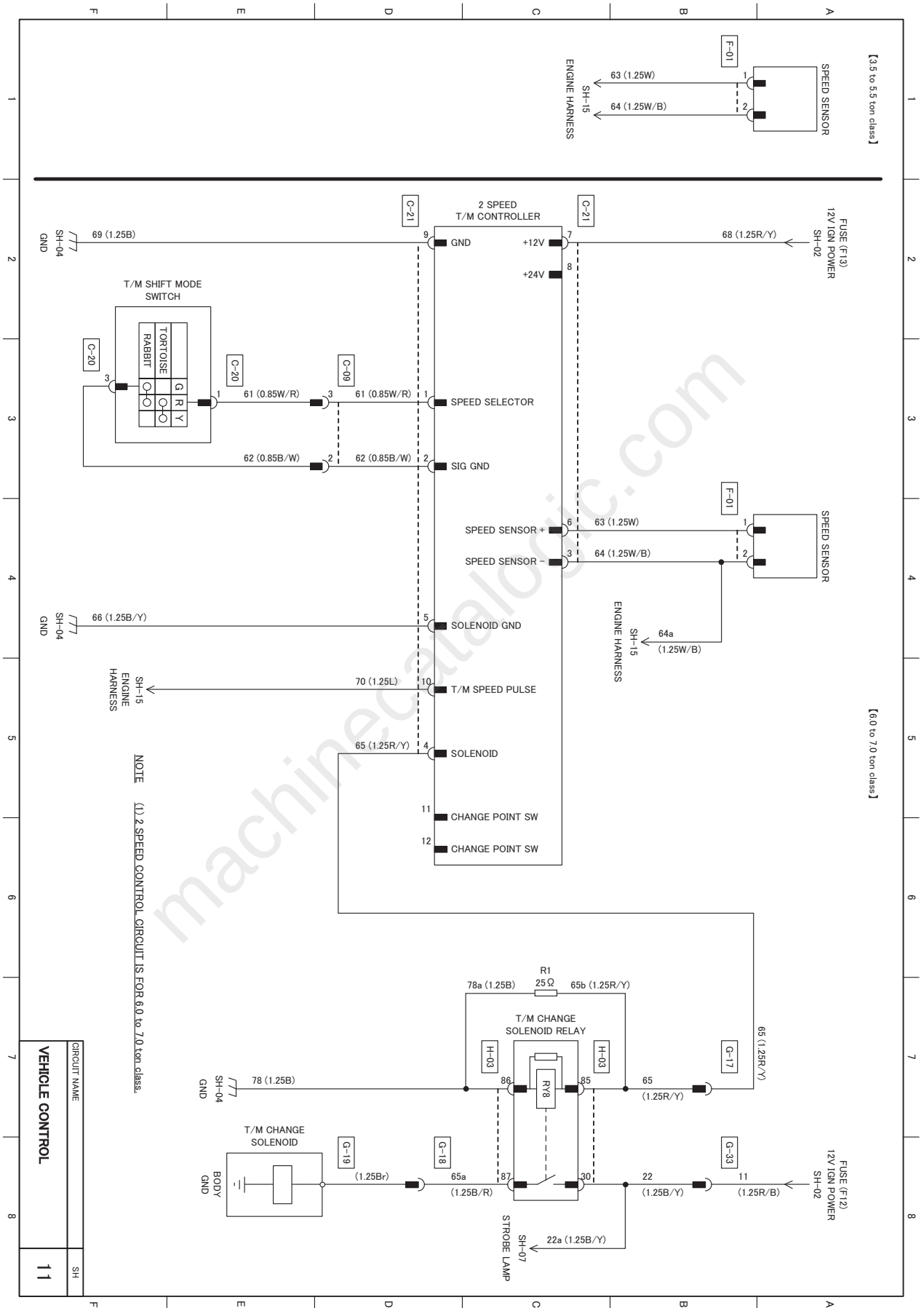
Replace the switch if the measured insulation resistance value is less than the value listed below:



1. Push rod

Item	Limit value
Insulation resistance	1 M ohm or more with 500V insulation resistance tester

Rated voltage: DC12V



Full Version Available

Caterpillar GC55K Forklift LPG Service and Schematic Manual (99739-8D100)

Caterpillar GC55K forklift LPG service manual, covers fuel system, converter, regulator, mixer, and schematics. Instant PDF download.

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