



Service Manual

Chassis & Mast

MC

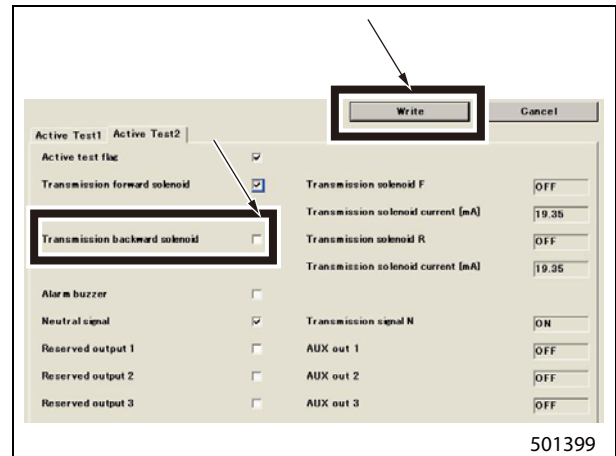
GP15N	CT25C-55001-up	GPE15N	CT34-00001-up	DP15N	CT16D-54001-up
GP15ZN	CT34-52001-up	GPE18N	CT34-40001-up	DP18N	CT16D-74001-up
GP18N	CT25C-75001-up	GPE20CN	CT34-30001-up	DP20CN	CT16D-24001-up
GP18ZN	CT34-72001-up	GPE20N	CT17D-20001-up	DP20N	CT18C-20001-up
GP20CN	CT34-22001-up	GPE20ZN	CT35-20001-up	DP25N	CT18C-70001-up
GP20N	CT17D-10001-up	GPE25N	CT17D-70001-up	DP30N	CT14E-10001-up
GP20ZN	CT35-10001-up	GPE25ZN	CT35-70001-up	DP35N	CT14E-80001-up
GP25N	CT17D-60001-up	GPE30N	CT13F-10001-up		
GP25ZN	CT35-60001-up	GPE35N	CT13F-80001-up		
GP30N	CT13F-40001-up				
GP35N	CT13F-60001-up				

For use with K15, K21, K25, S4Q2 and S4S
Engine Service Manuals.

99719-38210

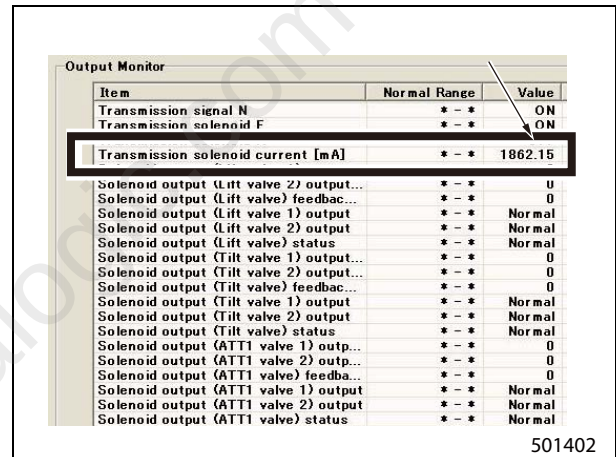
- (5) Insert a check mark in the box of either T/M solenoid F or T/M solenoid R, and press the write button.
- (6) When the write confirmation dialogue box is displayed, press the YES button the same as (4) above, and when the write completed dialogue box is displayed, press the OK button to complete the set-up.

Note: Do not check both boxes of T/M solenoid F or T/M solenoid R to avoid the controller damage.



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- (7) Press the output monitor button in the service tool screen to display the output monitor screen. Make sure that the T/M control valve current is 2000 mA or around.



501402

- (8) After confirmation, turn the key switch to the OFF position to terminate the active test. (Be sure to turn off the key switch before proceeding to the next step.)

Note: If a defect is found, refer to 4-51 "Truck Status Display and Troubleshooting" and check for the possible causes of the diagnostic code F-85, F-87, and F-89.

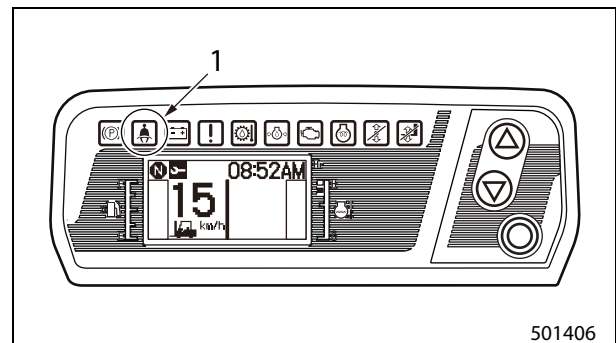
6. Seat Belt Warning Light

6.1 Seat Belt Warning Light, Checking the Operation

This light flashes when the seat belt is not worn or not buckled properly.

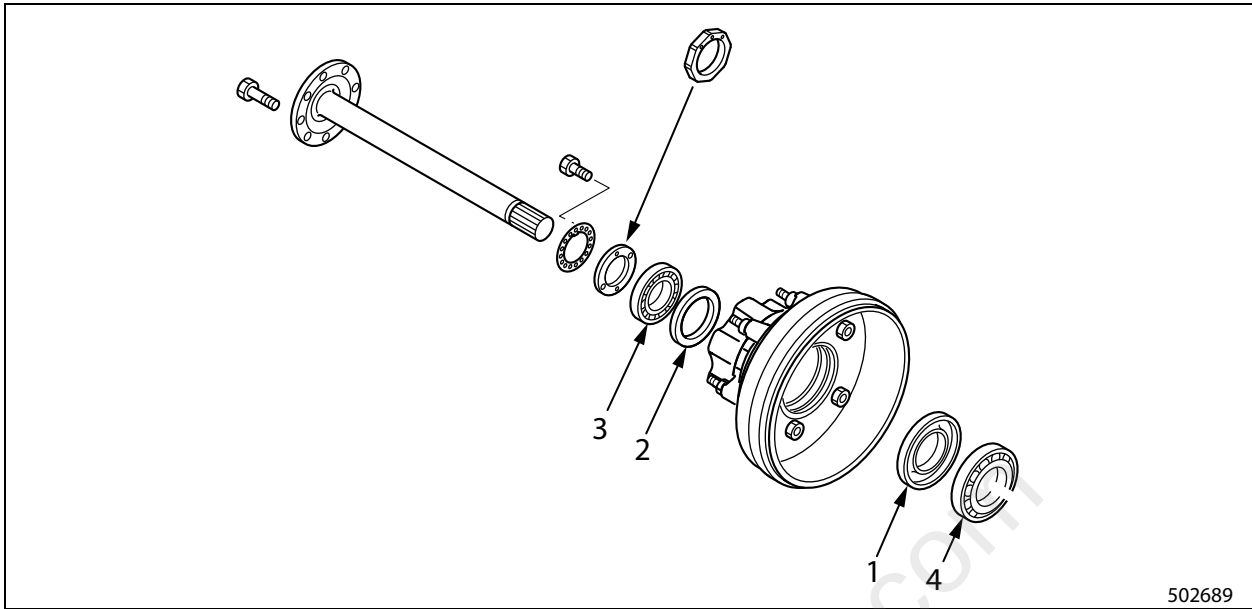
Controller function

The controller sends a warning signal to the meter panel if the seat belt is not fastened.



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1. Seat belt warning light



502689

1. Oil seal
2. Oil seal
3. Tapered roller bearing
4. Tapered roller bearing

Special tool (Installer)		Truck classifications	
		1 ton class	2, 3 ton classes
1	Oil seal	91A68-00500	
2	Oil seal	91B68-00900	91E68-00700
3	Tapered roller bearing		91E68-00900
4	Tapered roller bearing		91E68-00800

- Apply sealant (ThreeBond 1184) to the flange surfaces of the axle shaft.

Note: DO NOT apply grease or oil to outer peripheral portion of oil seal when installing.

17. Lift cylinders, Removing (Second Cylinder for Duplex Mast)

17.1 Disassembly Sequence



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- | | |
|------------------------------|-------------------|
| 1. Holder subassembly | 12. Rod |
| 2. Head subassembly | 13. Piston |
| 3. Piston rod subassembly | 14. Slide ring |
| 4. Cylinder tube subassembly | 15. Set screw |
| 5. Holder | 16. Check valve |
| 6. Wiper ring | 17. Cushion spool |
| 7. Back-up ring | 18. Spring |
| 8. U-ring | 19. Snapring |
| 9. O-ring | 20. Tube assembly |
| 10. Head | 21. Plug |
| 11. Bushing | |

17.2 Suggestions for Disassembly

Removing piston

Be careful not to damage the piston seals and cylinder bore surface when pulling out the piston from the cylinder.

18. Lift Cylinder (Second for Duplex Mast), Inspecting

Cylinder tube

- Check the bore surface for excessive wear, scratches and rust.
- Check welds for cracks or dents.

Piston rod

- Check rod deflection.
- Check the rod surface for scratches, rust or wear.

Rings, packings and threaded portions

- Check seal lips for damage, wear, or deterioration.
- Check threaded portions for damage.

Full Version Available

Caterpillar DP20NDS Forklift Service and Operator Manual (99719-38210)

Caterpillar DP20NDS forklift service manual, covers hydraulics, wiring, power train, mast, and engine service. Searchable PDF download.

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