

PARTS & SERVICE NEWS

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SUBJECT: REPAIR MALFUNCTION OF MAIN MONITOR PANEL

PURPOSE: To introduce repair procedures of the malfunctions of the main monitor panel on WA200-3 thru WA470-3 wheel loaders.

APPLICATION: WA200/250 Wheel Loaders, Serial Nos.
 WA300/320 Wheel Loaders, Serial Nos.
 WA350/380 Wheel Loaders, Serial Nos.
 WA400/420 Wheel Loaders, Serial Nos.
 WA450/470 Wheel Loaders, Serial Nos. } See page 6.

DESCRIPTION:

1. Introduction

On WA200-3 thru WA470-3 wheel loaders, noise occurring when the air compressor of the air conditioner system turns off may be lead through the main monitor harness to cause such malfunctions with the function parts of the main monitor as are exemplified below. When such a malfunction is found, repair the trouble referring to this Service News.

Meanwhile, although a majority of these malfunctions will return to normal immediately after their occurrence, when a malfunctioning occurs repeatedly, turn off the starting switch once before turning it on again to resume the normal state.

Examples of malfunctions:

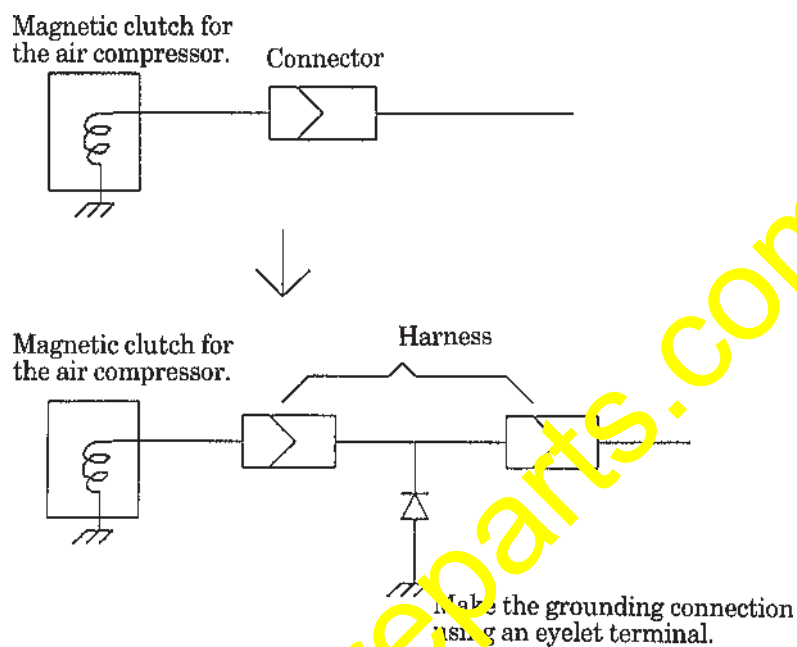
- The parking brake lamp and caution lamp light turn on for a moment.
- The speed meter reading and shift indicator reading turn off for a moment. Or, the readings freeze before disappearing gradually.
- Switch indicator lamps turn on and off at random. Or, they do not turn on or off as arranged when respective switches are depressed.

2. List of parts

Part No.	Part Name	Purpose of part	Q'ty	Remarks
418-06-22353 (418-06-22352)	Harness (Harness)		1 (1)	WA200-3/250-3
423-06-22192 (423-06-22191)	Harness (Harness)		1 (1)	WA300-3/350-3/400-3
423-06-22182 (423-06-22181)	Harness (Harness)		1 (1)	WA320-3/380-3/420-3
421-06-22183 (421-06-22182)	Harness (Harness)		1 (1)	WA450-3/470-3
424-06-22190	Harness	} Additional	1	
01435-00816	Bolt		1	For the WA200/250 only
01435-01016	Bolt		1	For the WA450/470 only
08034-20519	Band		3	3 units for the WA200 thru WA420 1 unit for the WA250/450/470

3. Contents of the modification

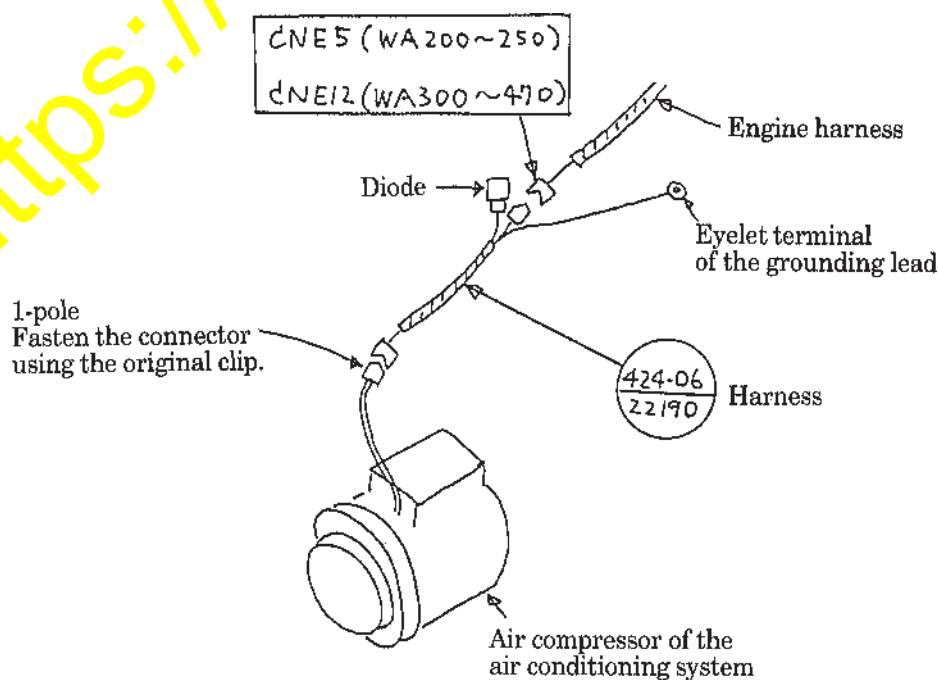
To suppress noise occurring from the electromagnetic clutch of the air compressor for the air conditioning system, a diode has been supplemented to the electromagnetic clutch harness.



4. Modification procedures

(1) Supplementation of a harness

Disconnect the air compressor connector (CNE5 with the WA200 thru WA250 and CNE12 with the WA300 thru WA470) and connect the prepared harness (424-06-22190) in supplementation.

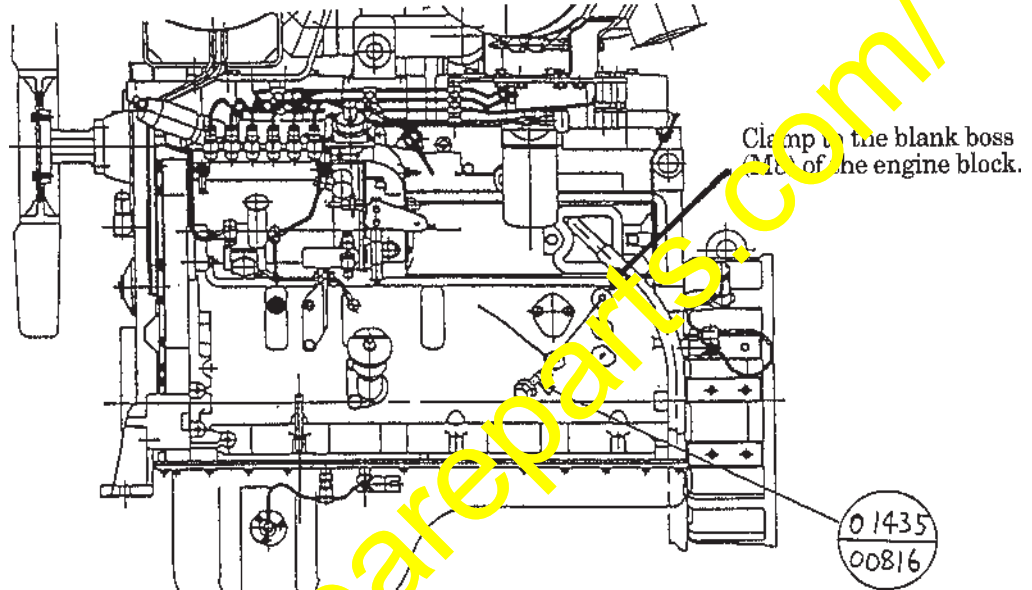


(2) Clamping the harness

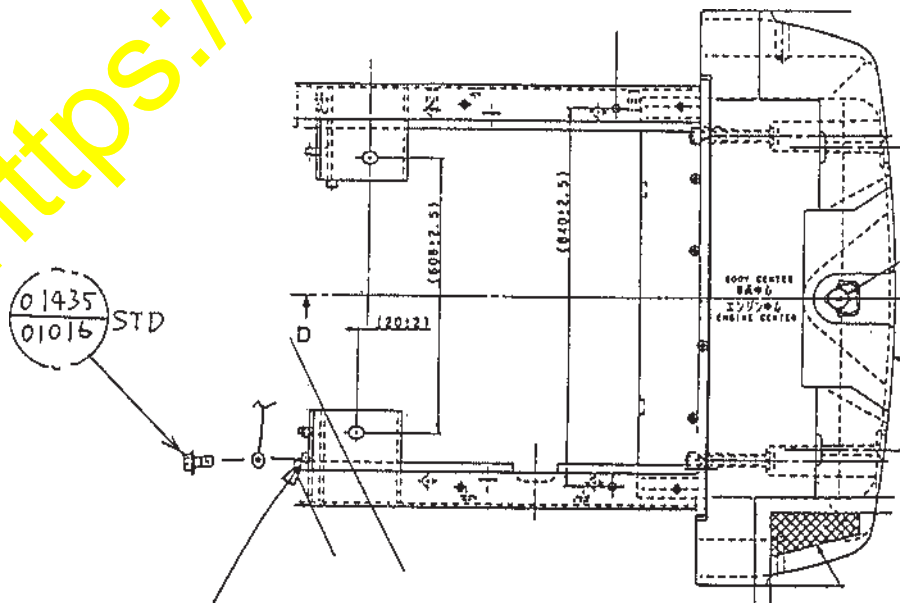
Clamp the eyelet terminal of the supplemented harness (424-06-22190) to the engine block or the rear frame.

★ Be careful about the clamping position which is different with each vehicle model. Meanwhile, the bolt tightening torque should be according to the ordinary torque specifications of the KES.

① WA200-3 (102E Engine)

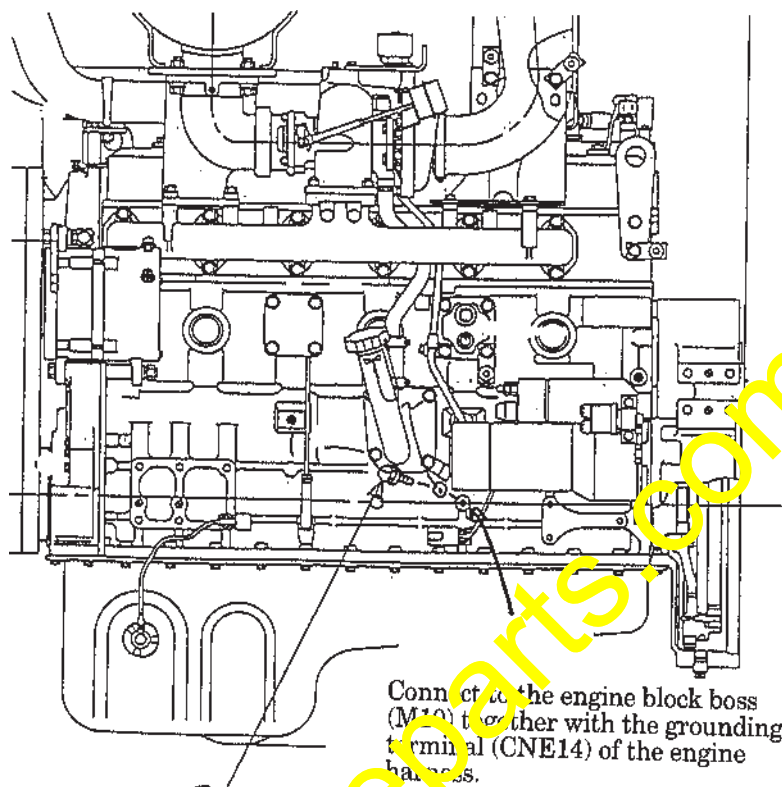


② WA250-3 (95L Engine)



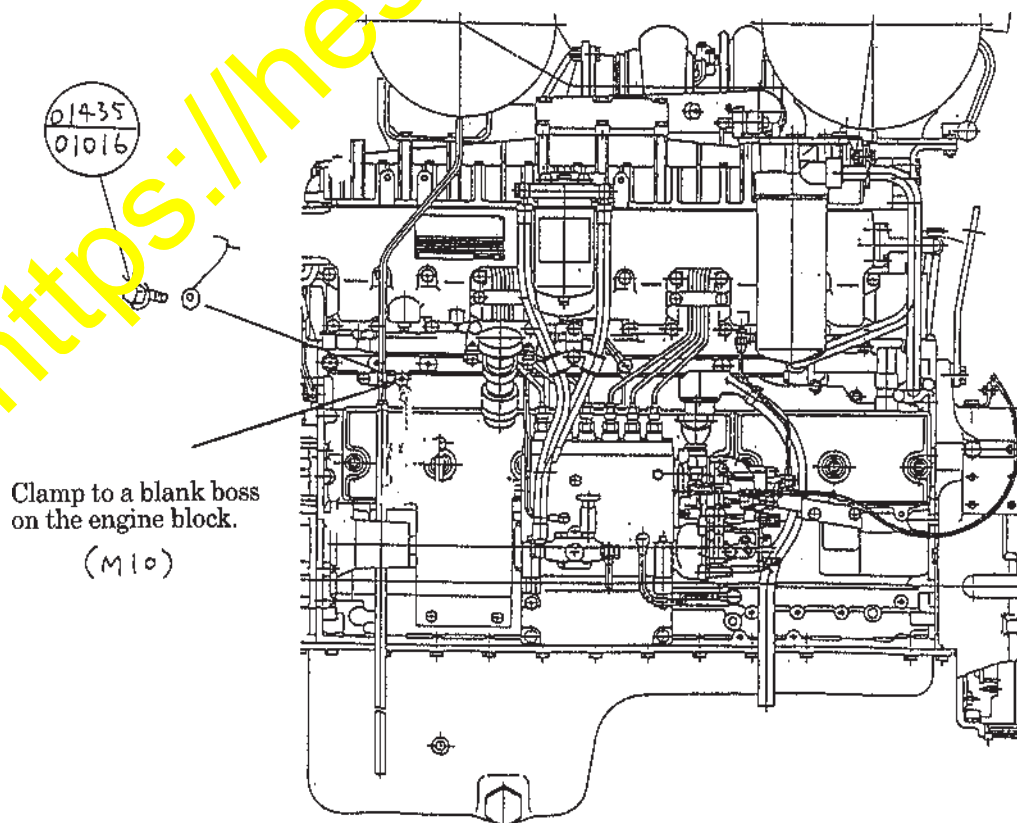
Connect the grounding terminal of the engine harness to the rear frame seat (M10). (Clamp together with the CNE9.)

③ WA300-3 thru WA420-3 (108 Engine)



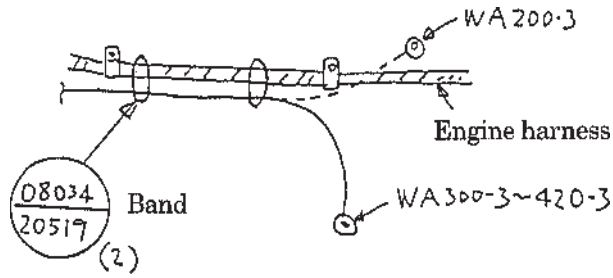
01435
01016 STD

④ WA450-3 thru WA470-3 (125 Engine)

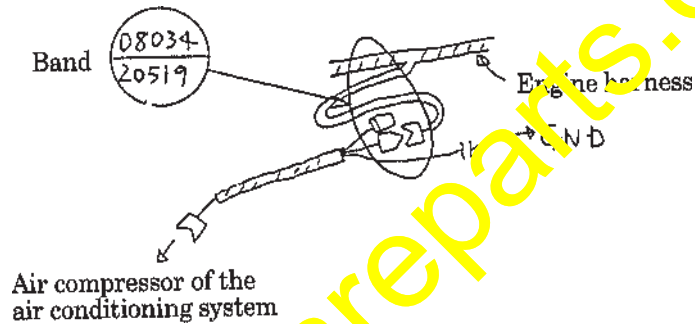


01435
01016

- (3) With the WA200-3 and WA300-3 thru WA420-3, lead the grounding wire along the engine harness and bundle it with the engine harness using bands.



- (4) Fold the excess part of the harness near the air compressor for the air conditioner to bind it to the engine harness using a band. (Bind the connector, diode and grounding leads altogether.)



5. Applications

Applicable models	Applicable serial No.	
	Unattended vehicles	Already modified vehicles
WA200-3	60366-60735	—
WA200-3E	63001-63055	63056-
WA250-3	50037-50067	50068-
WA300-3	50480-50595	50596-
WA320-3	50067-50154	50155-
WA350-3	60159-60182	60183-
WA350-3A	50454-50559	50560-
WA380-3	50058-50106	50107-
WA400-3	60046-60048	60049-
WA400-3A	50232-50270	50271-
WA420-3	50068-50105	50106-
WA450-3	60132-60146	60147-
WA450-3A	50269-50348	50349-
WA470-3	50037-50080	50081-