SERVICE MANUAL

N30XMH2 (C210)



FORM 1464844 Rev. 01/04

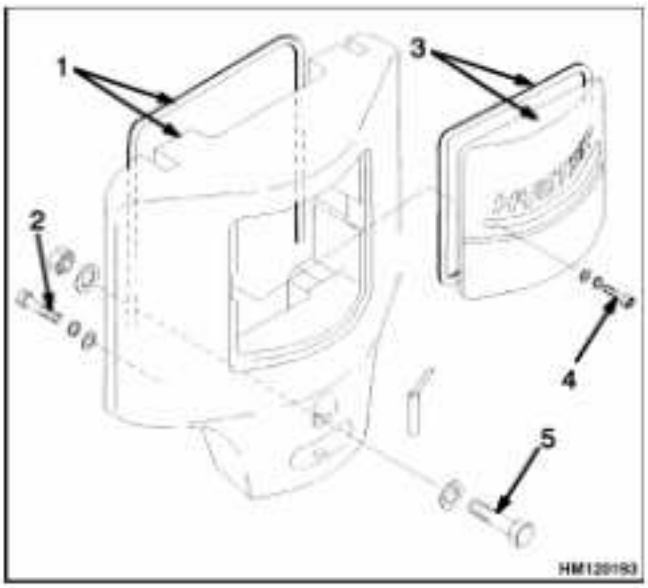
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N30XMH2 (C210)
SERVICE MANUAL CONTENTS

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1. COUNTERWEIGHT AND SEAL
2. UPPER CAPSCREW AND WASHERS
3. COVER AND SEAL
4. COVER CAPSCREW AND WASHERS
5. LOWER CAPSCREW AND WASHER

Figure 11. Counterweight Assembly

Table 1. Counterweights

Model	(mm*)	Weight	+ 50 kg (110 lb) − 0 kg (0 lb)
E2.00XM (F108) and E2.25XM (F108) E2.00XM (G108)	700	544 kg (1200 lb)	
E2.50XM (F108) and E50XM, XM_2 (F108) 2.50XM (G108) and E50Z (G108)	847		
E3.00XM (F108) and E3.00XM (G108)	1015		
*Approximate battery compartment lengths.			

Table 1. Counterweights (Continued)

Model	(mm*)	Weight	+ 50 kg (110 lb) − 0 kg (0 lb)
E45XM, XM_2 (F108) and E40-45Z (G108)	700	770 kg (1700 lb)	
E55XM, XM_2 (F108) and E2.50XM (F108) and E55Z (G108) and E2.50XM (G108)	847		
E65XM, XM_2 (F108) and E3.00-3.20XM (F108) and E65Z (G108) and E3.00-3.20XM (G108)	1015		
E50XM, XM_2 (F108) and E2.50XM (F108) and E50Z (G108) and E2.50XM (G108)	700	976 kg (2150 lb)	
E60XM, XM_2 F108) and E3.00XM (F108) and E60Z (G108) and E3.00XM (G108)	847		
N30XMH, and $N30XMH_2$ (C210) and V30ZD (D210)	1015		
*Approximate battery compartment lengths.			

REMOVE

1. See **How to Change Battery** in your vehicle's **Periodic Maintenance** or **Operating Manual**. Remove the battery from the truck.
2. Install the counterweight lifting tool to the counterweight with a 1 UNC × 2 in. (50 mm) bolt. See Figure 11, Figure 12, and Figure 13. Connect a

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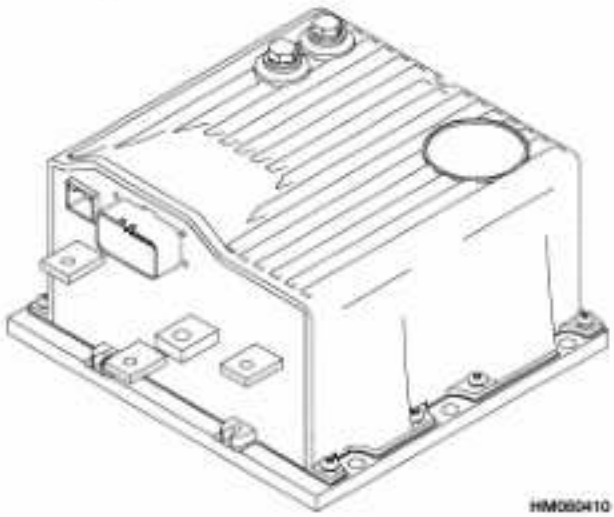
Status Code	Description	Memory Recall	Circuit
145	Power transistor (Q1) does not turn on properly.	Yes	Pump

Symptom

Lift and auxiliary hydraulic functions are disabled.

Possible Causes and Test Procedures

- Malfunction of pump motor controller.
  Replace pump motor controller.



Cause of Status Indication

This status code is displayed when, during pump motor controller operation, the power transistor (Q1) fails to turn on.

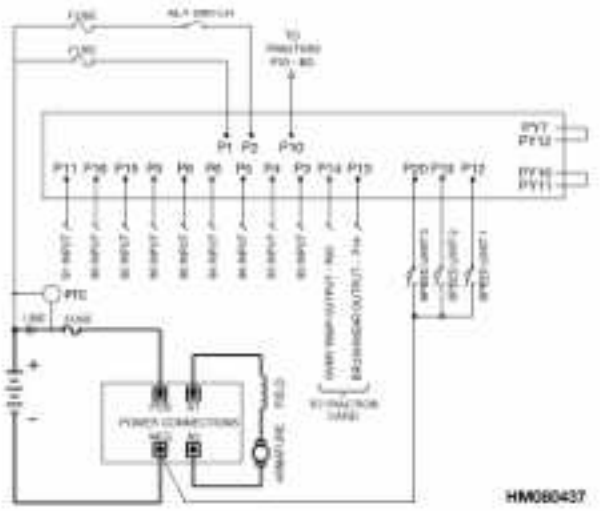
Status Code	Description	Memory Recall	Circuit
146	Look Ahead test for A2 (pump motor) voltage less than 12% of battery voltage.	Yes	Pump

Symptom

Lift and auxiliary hydraulic functions are disabled.

Possible Causes and Test Procedures

- Check for short circuit from the motor armature to the frame of the lift truck.
- Malfunction of pump motor controller.
  Replace pump motor controller.



Cause of Status Indication

This status code is displayed when the voltage at power terminal A2 of pump motor controller is less than 12% of battery voltage.

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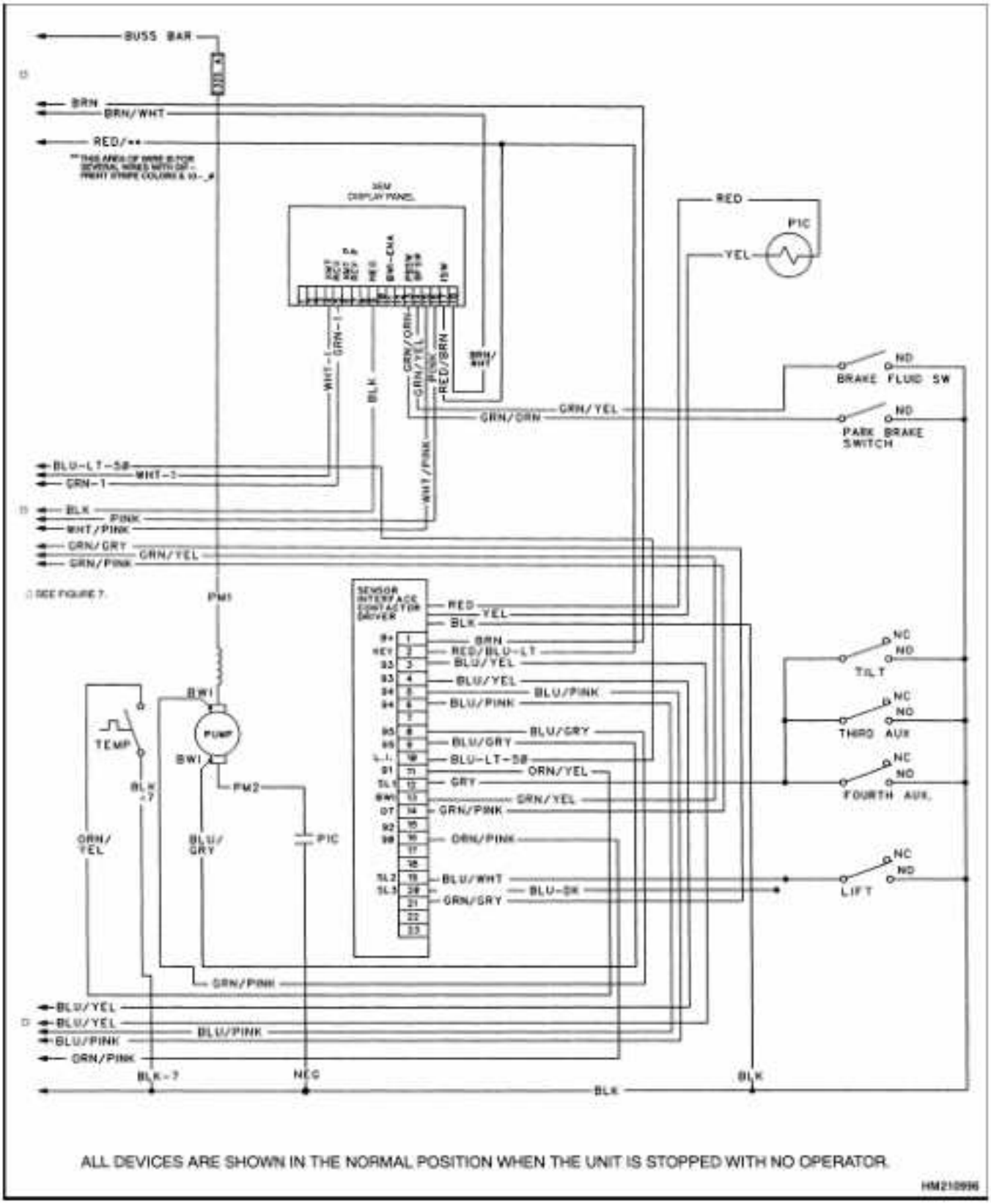


Figure 16. Contactor Control for Pump Motor (N30XMH$_2$) Schematic Diagram

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