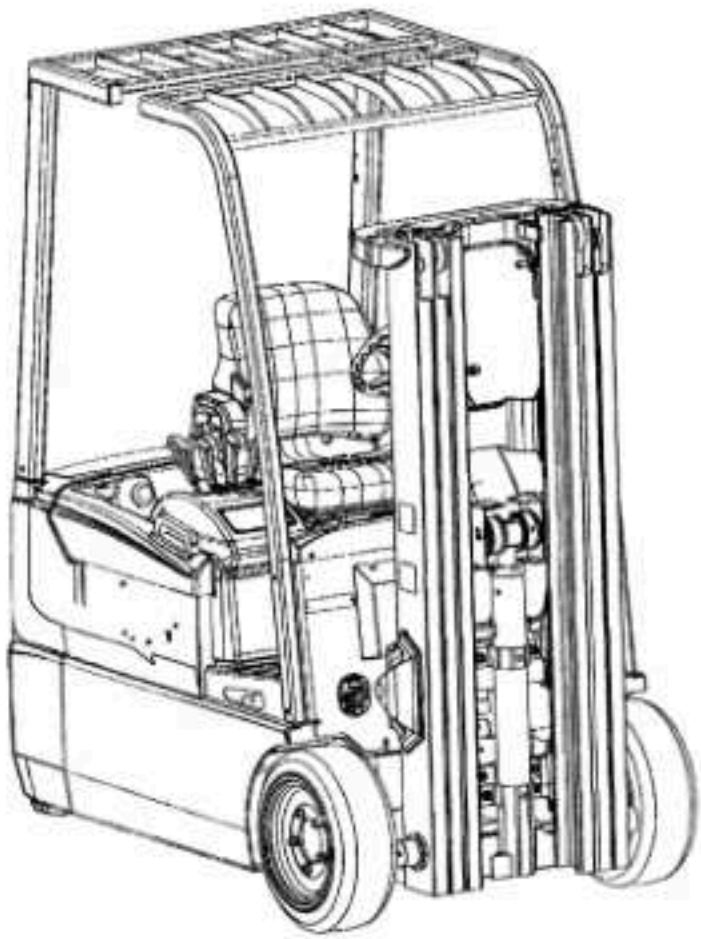
SERVICE MANUAL

K160 (J30XNT, J35XNT, J40XNT)



Rev. 05/14

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K160 (J30XNT, J35XNT, J40XNT)
SERVICE MANUAL CONTENTS

Section	SRM Number	Rev Date
FRAME	0100 SRM 1329	08/13
OPERATOR'S CAB	0100 SRM 1446	08/13
AC MOTOR REPAIR	0620 SRM 1385	12/12
TRANSAXLE/DRIVE UNIT	1300 SRM 1330	09/12
STEERING SYSTEM	1600 SRM 1331	09/13
BRAKE SYSTEM	1800 SRM 1332	12/10
HYDRAULIC SYSTEM	1900 SRM 1333	11/10
HYDRAULIC CLEANLINESS PROCEDURES	1900 SRM 1620	04/13
MAIN CONTROL VALVE	2000 SRM 1334	08/13
CYLINDER REPAIR (MAST S/N A270, A271, A272, A551, A555, A559,	2100 SRM 1382	03/14
A626, A627, A751, A752, B551, B555, B586, B587, B588, B589, B590,	2100 SRM 1382	03/14
MAST REPAIR (S/N C661, C662, C663, C665)	4000 SRM 1405	05/14
WIRE HARNESS REPAIR	2200 SRM 1128	04/14
USER INTERFACE, SUPERVISOR	2200 SRM 1335	02/14
USER INTERFACE, SERVICE	2200 SRM 1336	02/14
ELECTRICAL SYSTEM	2200 SRM 1337	08/13
INDUSTRIAL BATTERY	2240 SRM 0001	03/14
METRIC AND INCH (SAE) FASTENERS	8000 SRM 0231	12/04
PERIODIC MAINTENANCE	8000 SRM 1339	08/13
CAPACITIES AND SPECIFICATIONS	8000 SRM 1340	08/13
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DIAGNOSTICS TROUBLESHOOTING	9000 SRM 1377	08/13

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Table 2. Counterweights for Lift Truck J1.6-2.0XN (J30-40XN) (A935)

Model	mm (in)*	Weight	+ 20 kg (44 lb) – 0 kg (0 lb)
J1.6-2.0XN (J30-40XN)	546 mm (21.5 in.)	670 kg (1477 lb)	
J1.6-2.0XN (J30-40XN)	642 mm (25.3 in.)	670 kg (1477 lb)	
J1.6-2.0XN (J30-40XN)	750 mm (29.5 in.)	670 kg (1477 lb)	
*Approximate battery compartment lengths.			

A compartment space, accessed by removal of the counterweight cover, has been designed to house the hydraulic tank, hydraulic pump and motor, hoist controller, and electrical connections.

A battery platform is used to support the battery on the lift truck frame. The battery platform also serves as part of the counterweight system and requires the use of an overhead lifting device for removal or installation. Be sure to replace the same battery platform, or one of equal weight, if the platform must be removed.

REMOVE

1. Remove battery.

   See **Periodic Maintenance** 8000 SRM 1339 for lift truck models
   - J1.5-2.0XNT (J30-40XNT) (K160)

   See **Periodic Maintenance** 8000 SRM 1373 for lift truck models
   - J1.6-2.0XN (J30-40XN) (A935)

2. Remove overhead guard. See **Overhead Guard Replacement** section in this manual.

3. Remove hydraulic pump and motor and hydraulic tank from counterweight. See **Hydraulic System** 1900 SRM 1333.

4. Remove controller from counterweight. See **Electrical System** 2200 SRM 1337.

5. Remove steer axle, including wheels and tires.

   See **Steering System** 1600 SRM 1331 for lift truck models
   - J1.5-2.0XNT (J30-40XNT) (K160)

   See **Steering System** 1600 SRM 1363 for lift truck models
   - J1.6-2.0XN (J30-40XN) (A935).

NOTE: Perform Step 6 through Step 10 for lift truck models J1.5-2.0XNT (J30-40XNT) (K160).

6. Remove nuts, capscrews, washers, and steer plate from counterweight. See Figure 15.

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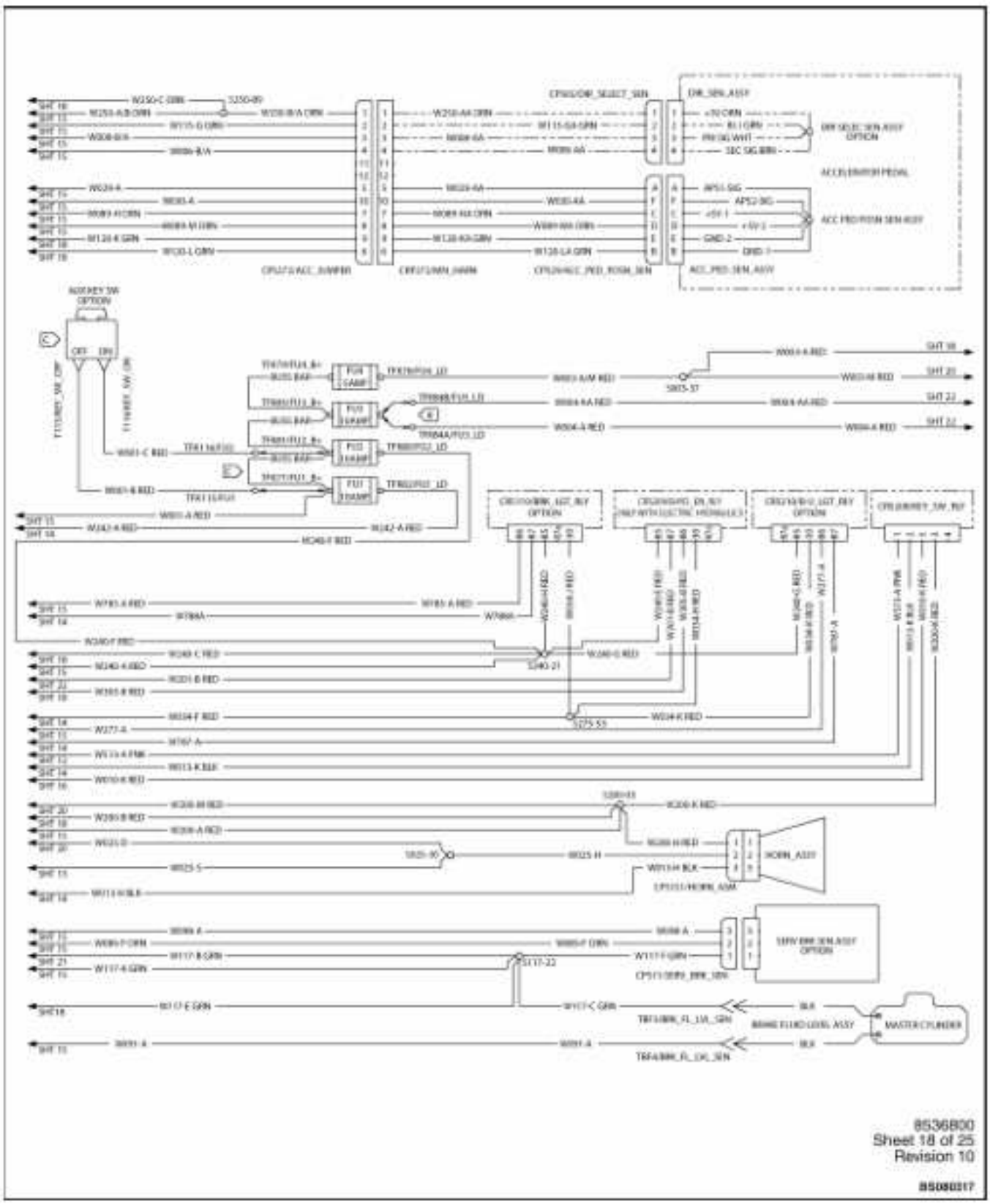


Figure 1. Wiring Diagram/Schematic for J1.5-2.0XNT (J30-40XNT) (K160) J1.6-2.0XN (J30-40XN) (A935) (Sheet 18 of 25)

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Overhead Guard Loose or Damaged

POSSIBLE CAUSE

A. OVERHEARD GUARD DAMAGED
B. ATTACHING HARDWARE IS LOOSE
C. OPERATING TOO FAST OVER ROUGH FLOORS

CAUSE A - OVERHEARD GUARD DAMAGED

PROCEDURE OR ACTION:

WARNING

Death or injury can occur from falling objects. Do not operate lift truck with a damaged overhead guard.

Inspect overhead guard. Depending on your lift truck see, **Periodic Maintenance** 8000 SRM 1364, **Periodic Maintenance** 8000 SRM 1372, **Periodic Maintenance** 8000 SRM 1339, **Periodic Maintenance** 8000 SRM 1373, or **Periodic Maintenance** 8000 SRM 1442.

Is the overhead guard in good condition?

YES: Go to Cause B.

NO: Replace overhead guard. Depending on your lift truck, see **Frame** 100 SRM 1329 or **Frame** 100 SRM 1342.

CAUSE B - ATTACHING HARDWARE IS LOOSE

PROCEDURE OR ACTION:
Visually inspect mounting points for damage and loose or missing hardware. Depending on your lift truck see, **Periodic Maintenance** 8000 SRM 1364, **Periodic Maintenance** 8000 SRM 1372, **Periodic Maintenance** 8000 SRM 1339, **Periodic Maintenance** 8000 SRM 1373, or **Periodic Maintenance** 8000 SRM 1442.

Is overhead guard and attaching hardware in good condition?

YES: Go to Cause C.

NO: Repair or replace damaged components. Depending on your lift truck, see **Frame** 100 SRM 1329 or **Frame** 100 SRM 1342.

CAUSE C - OPERATING TOO FAST OVER ROUGH FLOORS

PROCEDURE OR ACTION:
Reduce speed and listen for noise.

Does noise reduce with reduction in ground speed?

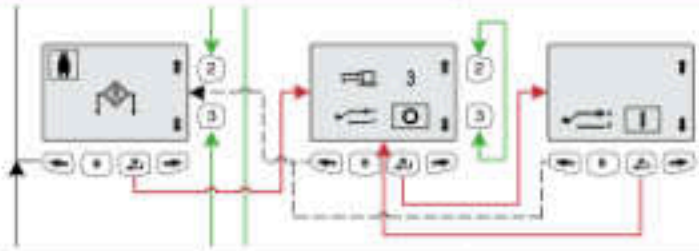
YES: Reduce speed or install softer tires.

NO: Depending on your lift truck, see **Frame** 100 SRM 1329 or **Frame** 100 SRM 1342.

END SYMPTOM

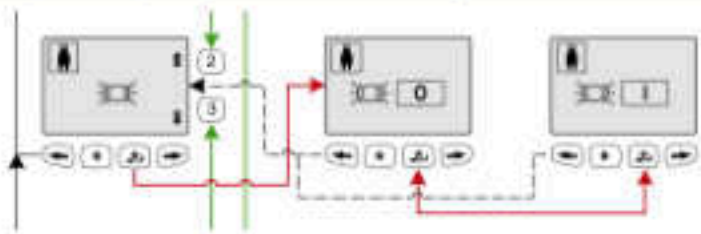
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Optional Hydraulic (Diverter Valve) ON/OFF



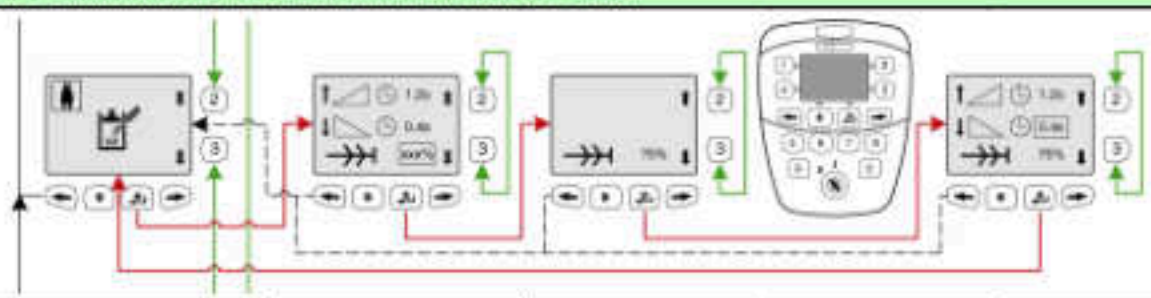
☞*	☞* Valve ON/OFF	

Rear Lamp Assembly OFF/ON



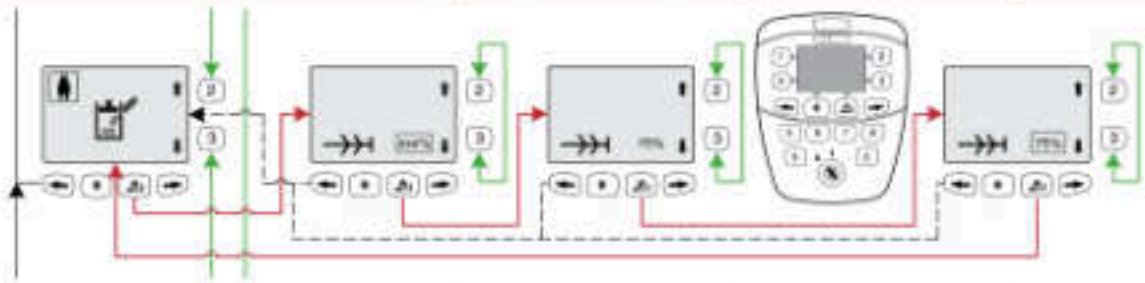
☞*	☞* Rear Lamp OFF	☞* Rear Lamp ON	

Hydraulic Function 1a, 1b, 2a, 2b, 3a, 3b, 4a, 4b (E Hydraulics Only)



☞* Scroll to Function ↑ ↓	☞* To Select	Enter Value Using Number Buttons ☞*	Repeat for other functions

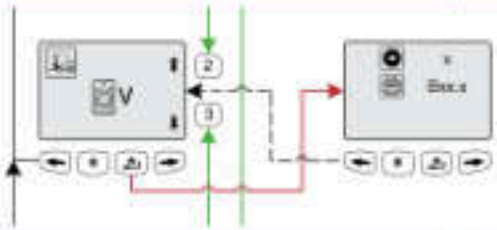
Hydraulic Function 1a, 1b, 2a, 2b, 3a, 3b, 4a, 4b (Manual Hydraulics Only)



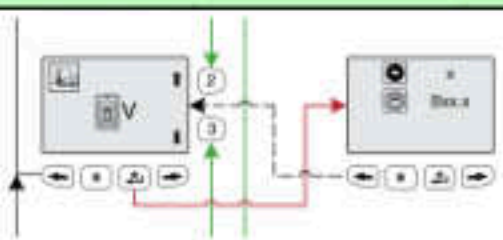
☞*		☞* Enter Value Using Number Buttons ☞*	

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Traction 1 Controller Version

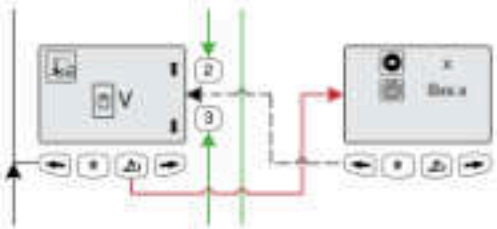


Pump Controller Version

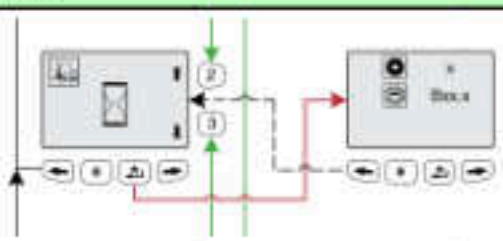


☞*	Hardware/Software Versions	

Hydraulic Input Controller Version

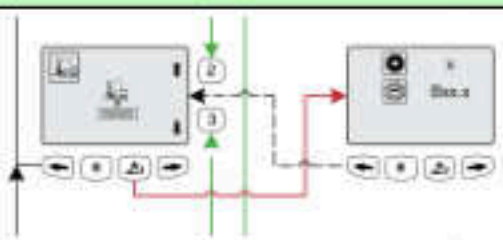


Hour Meters



☞*	Traction/Pump/Truck/Secure	

Serial Number



☞*	

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