NEW HOLLAND

E265BJ

NEW HOLLAND KOBELCO

Hino Engine

Workshop
Manual

NEW HOLLAND
CONSTRUCTION
BUILT AROUND YOU

MidWestTech | New Holland Kobelco E265BJ (Hino engine) Hydraulic Excavator Service Ma... Order the manual at mid-west-tech.com >

1. OUTLINE

TABLE OF CONTENTS

1.1 GENERAL PRECAUTIONS FOR MAKING REPAIRS 1-3
1.1.1 PREPARATION BEFORE DISASSEMBLING 1-3
1.1.2 SAFETY WHEN DISASSEMBLING AND ASSEMBLING 1-3
1.1.3 DISASSEMBLING AND ASSEMBLING HYDRAULIC EQUIPMENT 1-3
1.1.4 ELECTRICAL EQUIPMENT 1-4
1.1.5 HYDRAULIC PARTS 1-5
1.1.6 WELD REPAIR 1-5
1.1.7 ENVIRONMENTAL ISSUES 1-5
1.2 INTERNATIONAL UNIT SYSTEM 1-6

MidWestTech | New Holland Kobelco E265BJ (Hino engine) Hydraulic Excavator Servic... Order the manual at mid-west-tech.com >

2. SPECIFICATIONS

TABLE OF CONTENTS

2.1 NAME OF COMPONENTS 2-3
2.2 GENERAL DIMENSIONS 2-4
2.2.1 E265BJ/E265BJLC
[6.02m (19ft-9in) Boom+2.98m (9ft-9in) Standard Arm+1.0m³ (1.3cu•yd) Bucket Shoe] 2-4
2.2.2 E265BJ/E265BJLC
[6.02m (19ft-9in)+2.5m (8ft-2in) Short Arm+1.2m³ (1.57cu•yd) Bucket Shoe] 2-4
2.2.3 E265BJ/E265BJLC
[6.02m (19ft-9in) Boom+3.66m (12ft-0in) Long Arm+0.81m³ (1.06cu•yd) Bucket Shoe] 2-5
2.3 WEIGHT OF COMPONENTS 2-6
2.4 TRANSPOTATION 2-8
2.4.1 OVERALL DIMENSIONS OF MACHINE ON A TRAILER 2-8
2.4.2 DIMENSIONS OF ATTACHMENT 2-9
2.5 SPECIFICATIONS AND PERFORMANCE 2-11
2.5.1 SPEED AND CLIMBING CAPABILITY 2-11
2.5.2 ENGINE 2-11
2.5.3 HYDRAULIC COMPONENTS 2-11
2.5.4 WEIGHT 2-11
2.6 TYPE OF CRAWLER 2-12
2.7 TYPE OF BUCKET 2-12
2.8 COMBINATIONS OF ATTACHMENT 2-13
2.9 ENGINE SPECIFICATIONS 2-14
2.9.1 SPECIFICATIONS 2-14
2.9.2 ENGINE CHARACTERISTIC CURVE (HINO J05E-TB) 2-15

MidWestTech | New Holland Kobelco E265BJ (Hino engine) Hydraulic Excavator Servic... Order the manual at mid-west-tech.com >

3. ATTACHMENT DIMENSIONS

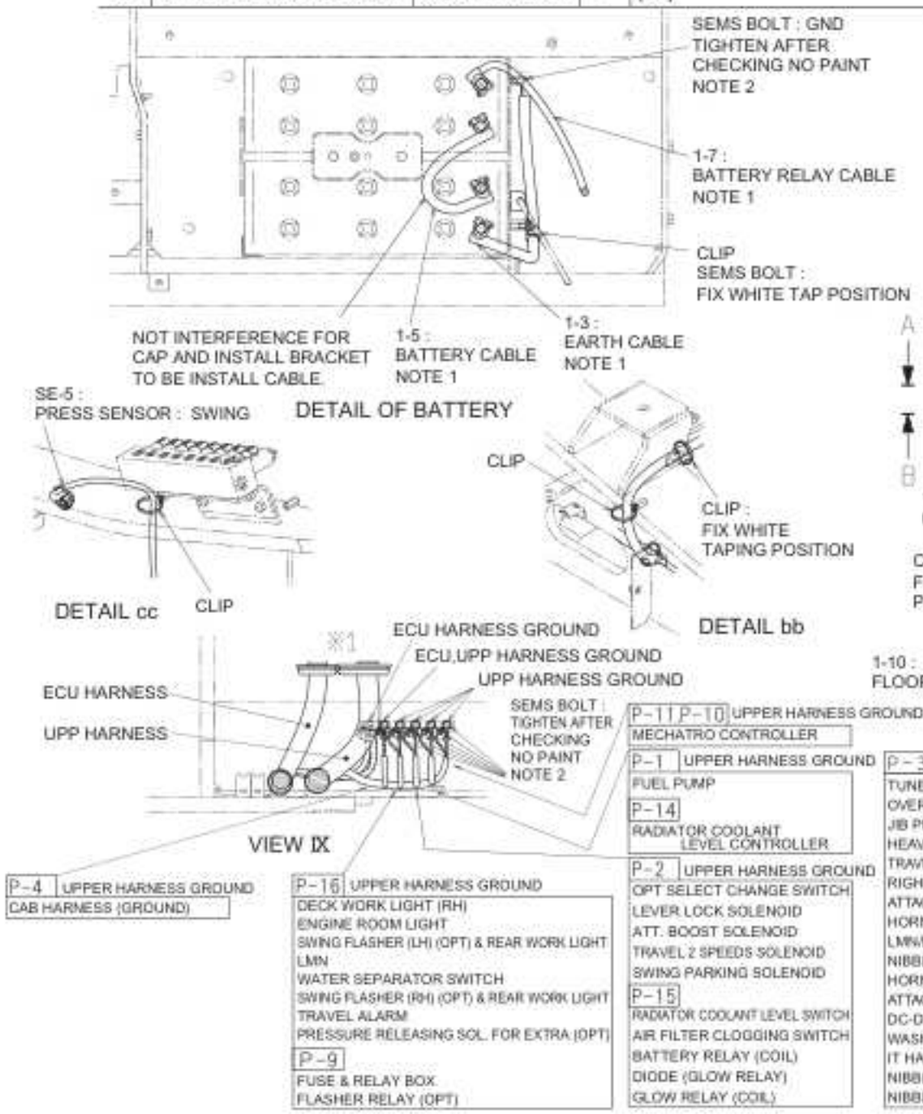
TABLE OF CONTENTS

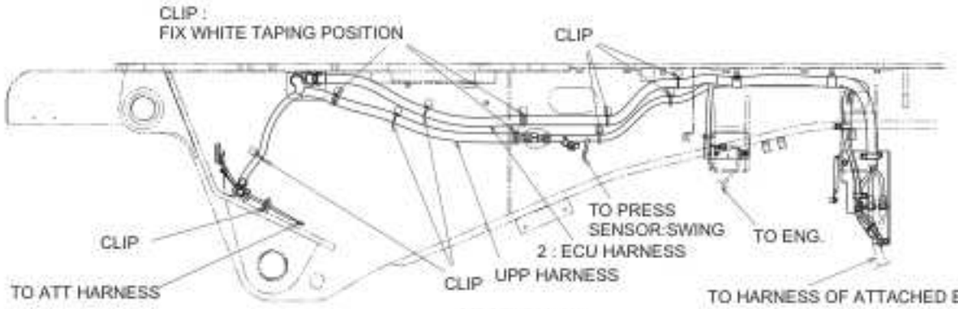
3.1 BOOM 3-3
3.1.1 BOOM DIMENSIONAL DRAWING 3-3
3.1.2 BOOM MAINTENANCE STANDARD 3-4
3.2 ARM 3-6
3.2.1 ARM DIMENSIONAL DRAWING 3-6
3.2.2 ARM MAINTENANCE STANDARD 3-7
3.3 BUCKET 3-10
3.3.1 BUCKET DIMENSIONAL DRAWING 3-10
3.3.2 BUCKET DIMENSIONAL TABLE 3-10
3.3.3 LUG SECTION DIMENSIONAL DRAWING 3-11
3.3.4 BOSS SECTION DIMENSIONAL DRAWING 3-12

MidWestTech | New Holland Kobelco E265BJ (Hino engine) Hydraulic Excavator Servic... Order the manual at mid-west-tech.com >

23.3.5 UPPER HARNESS ASSY (1/6)

UPPER HARNESS ASSY		LQ13E00073F1	(01)	
ITEM	PART NAME	PART No.	QTY	REMARKS
1	UPPER HARNESS ASSY	LQ3E00042F1	–	(11)
1-1	HARNESS	LQ13E01444P6	1	UPPER
1-2	HARNESS	LQ13E01137P1	1	ECU HARNESS
1-3	CABLE	LC13E01144P1	1	BATTERY–GROUND
1-4	CABLE	LQ13E01100P1	1	ENGINE–GROUND
1-5	CABLE	YN13E01441P2	1	BATTERY–BATTERY
1-6	CABLE	LQ13E01145P1	1	STARTER
1-7	CABLE	LQ13E01094P1	1	BATTERY–BATTERY RELAY
1-8	HARNESS	LC13E01193P1	1	AIR CLEANER
1-9	CABLE	LC13E01180P2	1	GLOW RELAY–STARTER RELAY
1-10	CABLE	LE13E01006P1	1	FLOOR GROUND
2	UPPER HARNESS ASSY	LQ13E00074F1	–	(02)



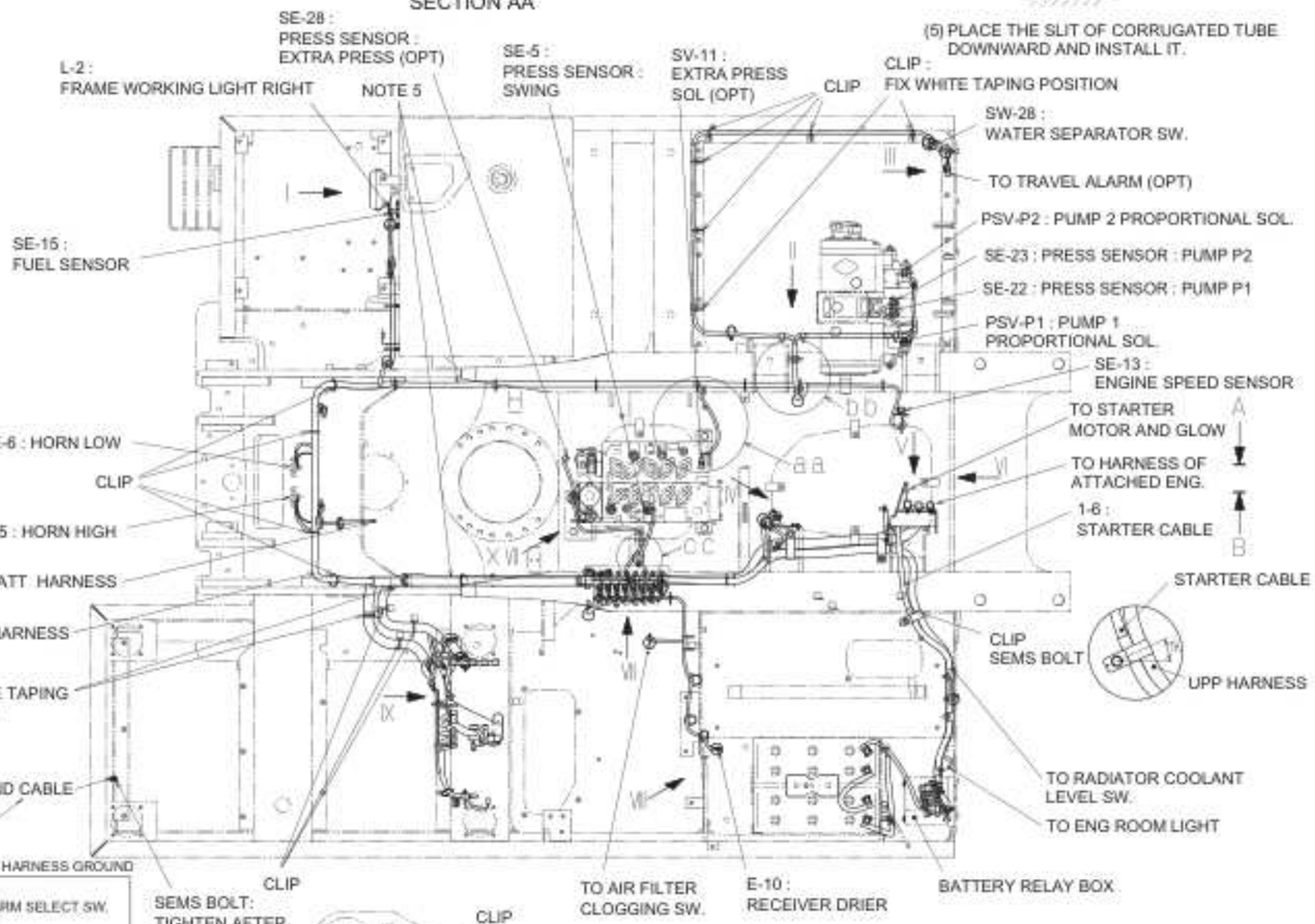


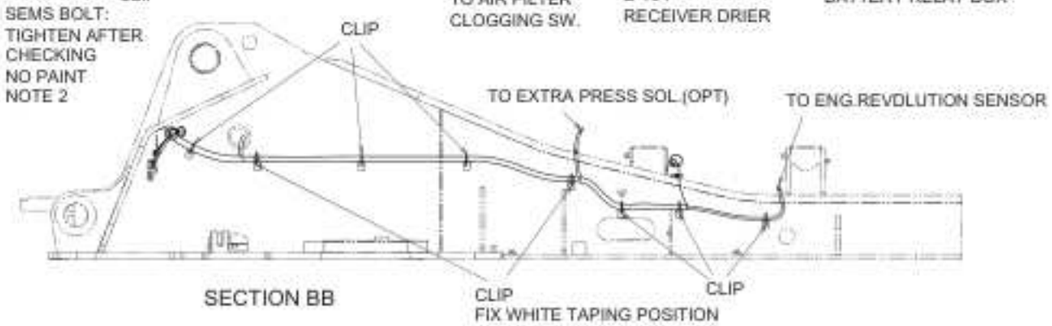
SECTION AA

NOTES:
(1) TIGHTENING TORQUE OF BATTERY TERMINALS ARE 3.4N·m (2.5 lbf·ft).
(2) TIGHTENING TORQUE OF GROUNDING CABLES ARE 10.7N·m (7.9 lbf·ft).
(3) UNLESS OTHERWISE SPECIFIED TIGHTENING TORQUE IS SHOWN BELOW.
M8 : 23.5N·m (17.3 lbf·ft)
M10 : 46.1N·m (34.0 lbf·ft)
(4) ATTACHMENT OF WELDING CLIP WIHOUT DIRECTIONS IS MADE INTO THE FOLLOWING.



(5) PLACE THE SLIT OF CORRUGATED TUBE DOWNWARD AND INSTALL IT.





SECTION BB

MidWestTech | New Holland Kobelco E265BJ (Hino engine) Hydraulic Excavator Service Manual | Publication 84176535
Order the manual at mid-west-tech.com >

33.1.12.3 INSTALLATION

(1) Installing is done in the reverse order of removing. And removed clips of hose should be clamped at original position.

(2) Install radiator assy
Place a wire sling in the lifting eyes of the radiator and move it to original position temporally. And install hydraulic hose, radiator hose and hose of inter-cooler. Regarding Inserting width of hose. (See Fig. 33-61)

(3) Radiator attaching bolt
Apply Loctite #262 on 4 semsbolts (A2) M12×35.
: 19 mm
Tightening torque : 121 N•m (89 lbf•ft)

(4) Adjust the clearance between the fan and the radiator shroud all around the circumference, as below :
Circumferential direction:
20±5mm (0.8in±0.2in)
39±5mm (1.5in±0.2in)

(5) Clean the plastering area of the insulation thoroughly before plastering it.

(6) Making up hydraulic oil and LLC (Long Life Coolant)
After completion of other installation, make up hydraulic oil and water.
Coolant volume of engine body : 9 L (2.4gal)
Coolant capacity of radiator : 8.6 L (2.35gal)
Hydraulic oil capacity of oil cooler : 2.9 L (0.77gal)

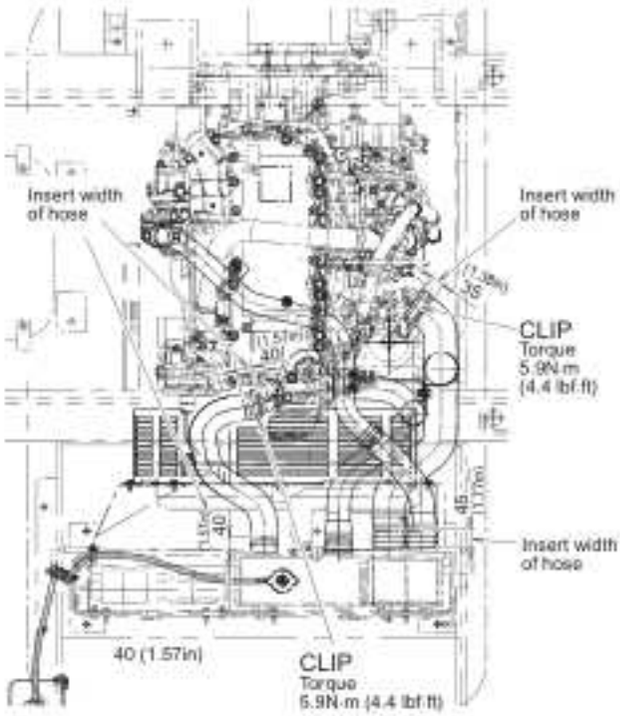


Fig. 33-61 Inserting width of hose

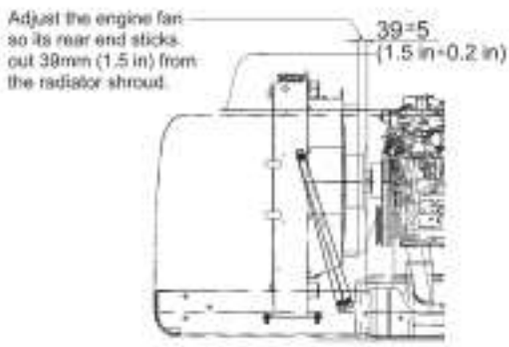


Fig. 33-62 Back-and-forth adjusting position of radiator

MidWestTech | New Holland Kobelco E265BJ (Hino engine) Hydraulic Excavator Servic... Order the manual at mid-west-tech.com >

Table46-61

Error code	D063		
Trouble	Arm-in spool 2 proportional valve's wiring is disconnected.		
Judging condition	The feed-back value from proportional valve is 100mA or less. (If output is 100mA or less, judging is not done.)		
Symptom	Operability of combined operation with arm-in becomes poor.		
Control in the event of failure	Set Arm-in spool 2 proportional valve output to 0mA.		
Returned in normal condition	It returns automatically in normal condition.		
Service diagnosis checking screen	Screen No.	8	D-4 ARM IN-2-SPEED
	Screen No.		
	Screen No.		
Checking object			Checking contents and remedy
1	• Arm-in spool 2 proportional valve PSV-A		When D063 is cancelled and other error occurs by turning starter switch on after exchanging the connector with other sensor. Check sensor unit for possible failure. If failure found, replace it.
2	• Wiring between Arm-in spool 2 proportional valve and controller CN-121F CN-105F		When D063 is displayed after turning the starter switch on after the connector is exchanged with other sensor. Check wiring for possible failure according to the wiring checking procedure and repair it if necessary.
3	• Mechatro controller		Check that the error is corrected after replacement of controller.

Table46-62

Error code	E012		
Trouble	P1 pump proportional valve and output transistor ON are failure.		
Judging condition	The feed-back value from proportional valve is 1000mA or more.		
Symptom	The delicate operability of P2 pump related attachment becomes poor.		
Control in the event of failure	Set proportional valve output rate of P1 and P2 pumps to 0mA. (Hydraulic pump emergency mode)		
Returned in normal condition	Not returned automatically under normal condition. Switch the power OFF once and turns on it again.		
Service diagnosis checking screen	Screen No.	9	E-1 PUMP P1
	Screen No.		
	Screen No.		
Checking object			Checking contents and remedy
1	• P1 pump proportional valve PSV-P1		When E012 is cancelled and other error occurs by turning starter switch on after exchanging the connector with other sensor. Check sensor unit for possible failure. If failure found, replace it. When replacing of connector is executed, turn off power source once.
2	• Wiring between P1 pump proportional valve and controller CN-141F CN-105F		When E012 is displayed after turning the starter switch on after the connector is exchanged with other sensor. Check wiring for possible failure according to the wiring checking procedure and repair it if necessary. When replacing of connector is executed, turn off power source once.
3	• Mechatro controller		Check that the error is corrected after replacement of controller.

MidWestTech | New Holland Kobelco E265BJ (Hino engine) Hydraulic Excavator Servic... Order the manual at mid-west-tech.com >

33.2.2.3.11 Disassembling P2 unload spool

(1) Loosen socket bolts (273), and remove spring cover (202) of P2 unload spool and O-ring (261).

(2) Draw out the assembly which is consist of P2 unload spool (310), spring seat (331), spring (327, 329), stopper (336) and bolt (333) from casing A (101).

CAUTION

When drawing out the spool assy, use care so as not to score casing A (101).

(3) Fix the P2 unload spool assy with vise via a protective plate (aluminum plate etc.) and remove bolt (333). Then remove spring seat (331), spring (327, 329) and stopper (336) from P2 unload spool (310).



Fig. 33-167 Removing P2 unload spring cover (202)



Fig. 33-168 Drawing out P2 unload spool assy (310)

33.2.2.3.12 Removing spool covers

(1) Travel, boom, bucket, arm 1, arm 2 and option
Loosen socket bolts (273) and remove spool cover (205) and O-ring (264).

(2) Swing
Loosen socket bolts (273) and remove spool cover (206) and O-ring (264), (266). Do not disassemble spool cover (206) further unless there is special reason.



Fig. 33-169 Removing spool cover (205),(206)

MidWestTech | New Holland Kobelco E265BJ (Hino engine) Hydraulic Excavator Servic... Order the manual at mid-west-tech.com >

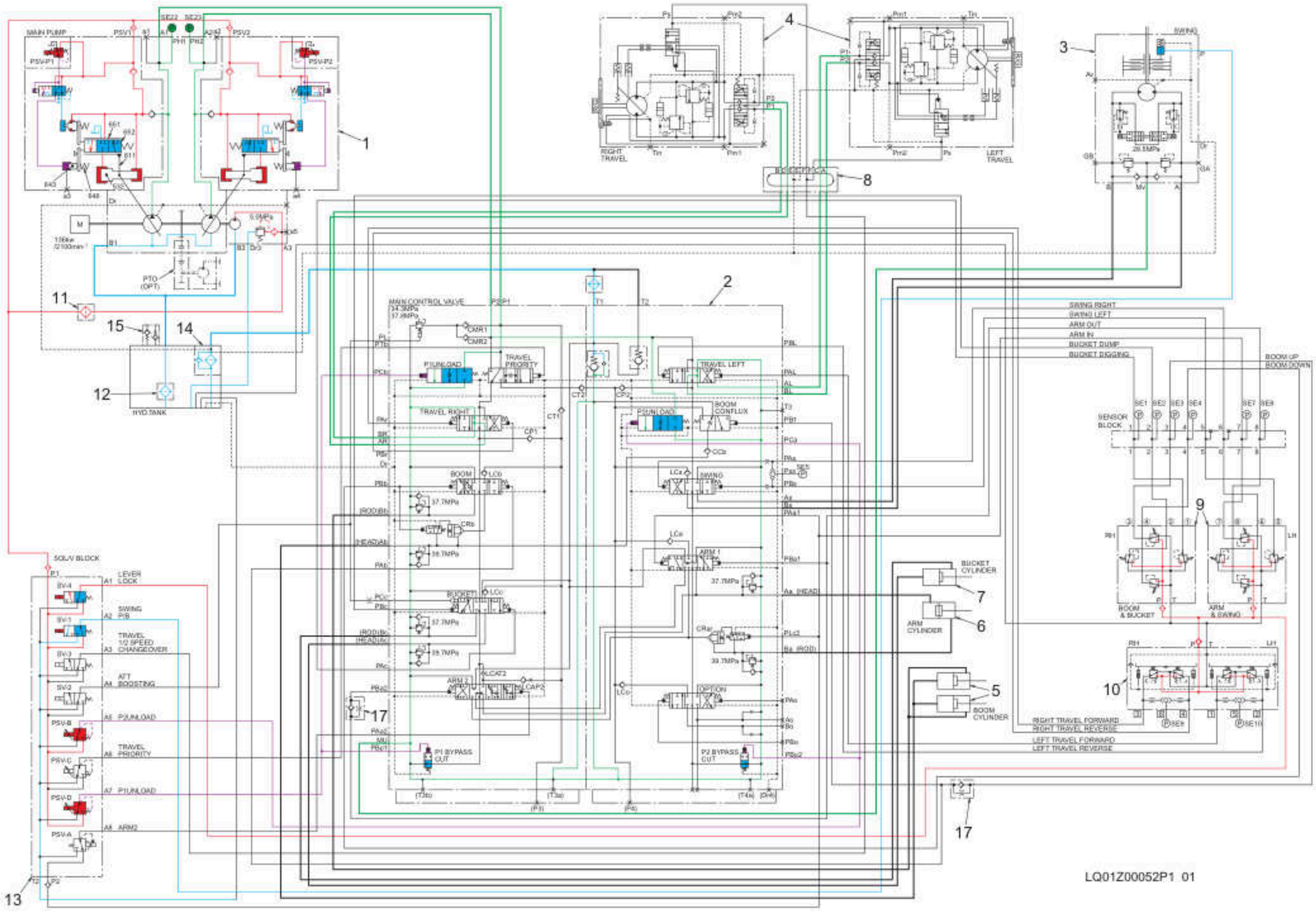


Fig. 22-1 NEUTRAL CIRCUIT : Positive control function at safety lock lever down (unlocked position)

MidWestTech | New Holland Kobelco E265BJ (Hino engine) Hydraulic Excavator Service Manual | Publication 84176535

Order the manual at mid-west-tech.com >