SERVICE MANUAL

E215B
E245B

Print No. 87677762A

NEW HOLLAND CONSTRUCTION

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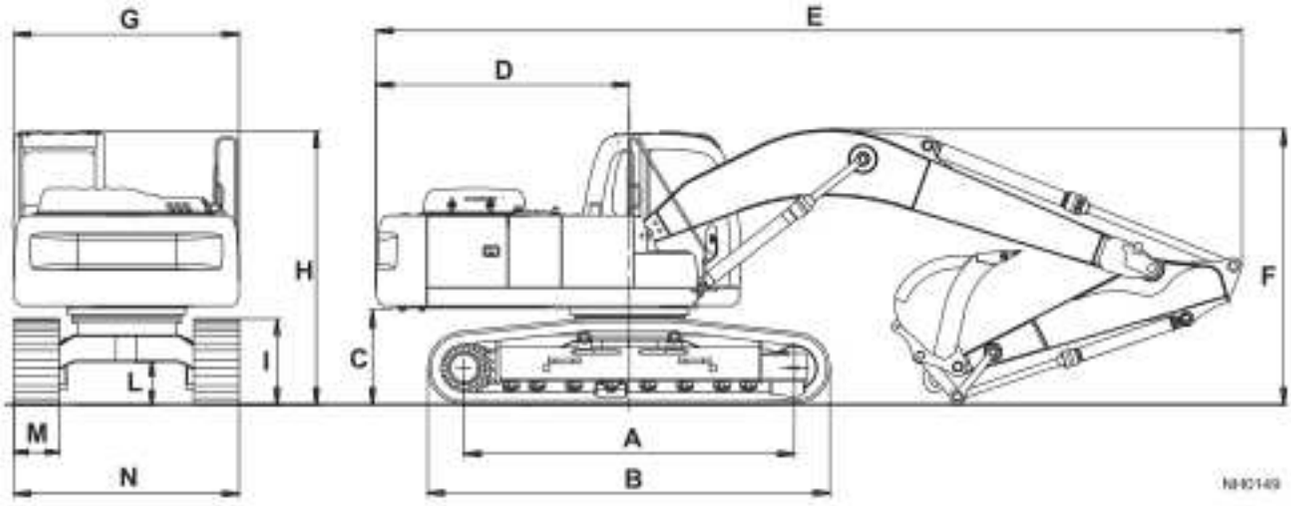
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TRANSPORTING DIMENSIONS E245B

(Monoblock Version)



VERSIONS	A	B	C	D	E	F	G	H	I	L
E245B	3840	4645	1053	2800	(1) 9617	(1) 3141	2503	3045	970	486
					(2) 9577	(2) 3050				
					(3) 9487	(3) 2886				
					(4) 9564	(4) 3044				

(dimensions in mm)

Arm:
(1) 2080 mm
(2) 2400 mm
(3) 2940 mm
(4) 3500 mm

			E245B		
M	Track shoe width	(mm)	550(*)	700	800(*)
N	Gauge	(mm)	2490	2690	2890
(**) Working weight		(kg)	22000	22500	22850
Spec. ground pres.		(bar)	0.51	0.41	0.37

(**) With arm 2940 mm and bucket 1.3 m^3

(*) Asymmetric type shoes

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Table 50

Error code	C033		
Trouble	Boom head pressure sensor's wiring is disconnected.		
Judging condition	The input voltage from boom head pressure sensor is 0.1 V or less.		
Symptom	Overload detection is not available.		
Control in the event of failure	Normal control.		
Returned in normal condition	It returns automatically in normal condition.		
Service diagnosis checking screen	Screen No.	7	C-3 BOOM-HEAD
	Screen No.		
	Screen No.		

	Checking object	Checking contents and remedy
1	• Boom head pressure sensor SE-24	When C033 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 boom head pressure sensor and controller CN-140F CN-103F	When C033 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.

Table 51

Error code	C034		
Trouble	Boom head pressure sensor's power source is shortcut.		
Judging condition	The input voltage from boom head pressure sensor is 4.7 V or more.		
Symptom	Then overload detection switch is ON, overload alarm sounds constantly.		
Control in the event of failure	Normal control.		
Returned in normal condition	It returns automatically in normal condition.		
Service diagnosis checking screen	Screen No.	7	C-3 BOOM-HEAD
	Screen No.		
	Screen No.		

	Checking object	Checking contents and remedy
1	• Boom head pressure sensor SE-24	When C034 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 boom head pressure sensor and controller CN-706F CN-104F	When C034 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.

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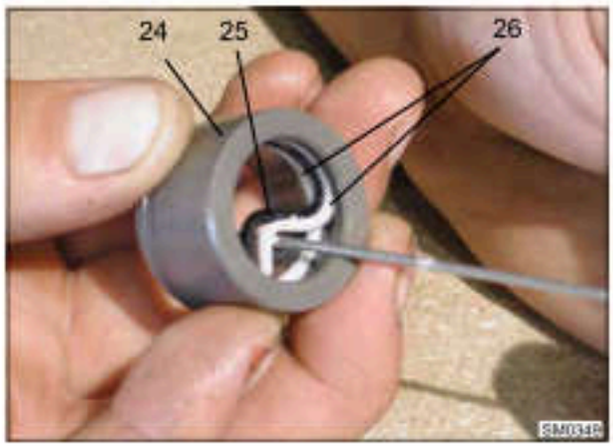
Table 96

Error code	**R164**		
Trouble	Auto idle stop relay 2 relay error.		
Judging condition	The mechatro controller output line to auto idle stop relay 2 is short-circuited with the power source.		
Symptom	Power source for mechatro controller often turns off. Auto idle stop relay 2 does not actuate.		
Control in the event of failure	Relay output is stopped.		
Returned in normal condition	When the power is OFF.		
Service diagnosis checking screen	Screen No.	4	K-1 AIS RELAY 2
	Screen No.		
	Screen No.		

Checking object		Checking contents and remedy
1	• Auto idle stop relay 2 relay R-24	When error is cancelled after removing of auto idle stop relay 2, check relay unit for failure, replace it with new one if failed. When resistance between relays (1) and (2) is 0 Ω , it is in abnormal condition. 
2	• Wiring between auto idle stop relay 2 and controller CN-109F, CN2-2 • Fuse & relay box E-1	When R164 is left displayed with the relay removed Check that no power 24 V is produced on relay (-) line according to the wiring checking procedure and replace it if necessary. When no failure found after checking on wiring and R164 is left displayed. Replace fuse/relay box.
3	• Mechatro controller	Check that the error is corrected after replacement of controller.

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29. Remove the O-ring seal (**25**) and the backup rings (**26**) from their seats in the free piston (**24**).

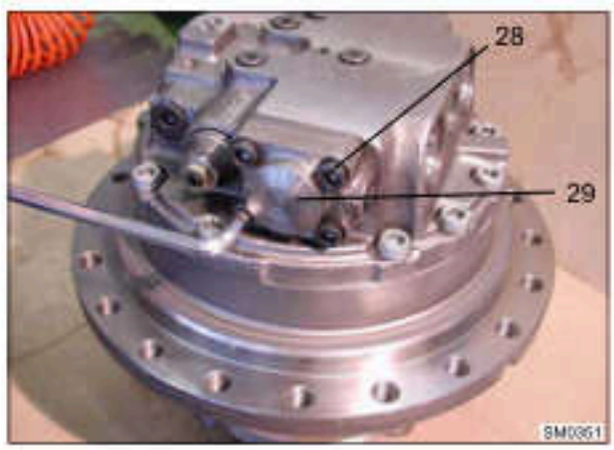


30. Remove the O-ring seal (**27**) from relief valve (**23**). Repeate the same steps for the 2nd relief valve disassembly.

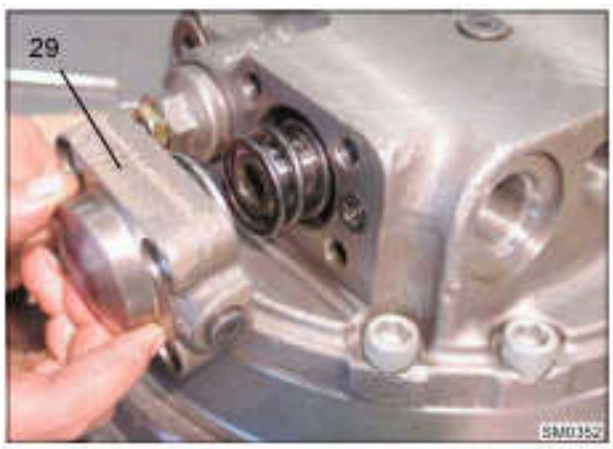


Disassembly of the counterbalance valve assy

31. Unscrew the nos. 4 socket head screws M12x40 (**28**), grade 12.9 of the first flanged plug assy (**29**) by a male hex head wrench.
    : 10 mm

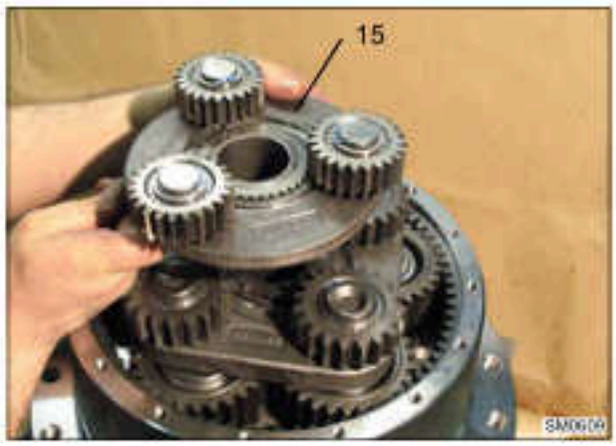


32. Take out the first flanged plug assy (**29**) and the spring seat.

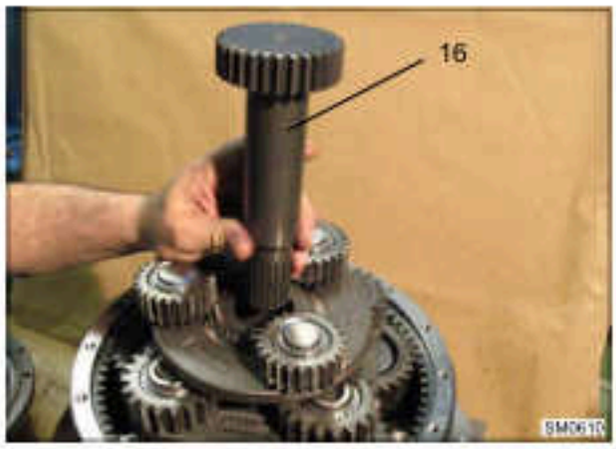


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18. Insert the 1st reduction assembly (**15**).



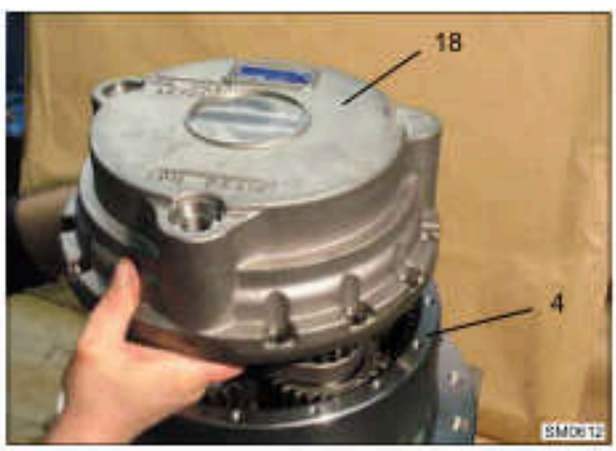
19. Insert the 1st reduction sun gear (**16**).



20. Assemble the O-ring (**17**) into its seat in the cover (**18**).



21. Place the end cover (**18**) on the gearbox housing (**4**).



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