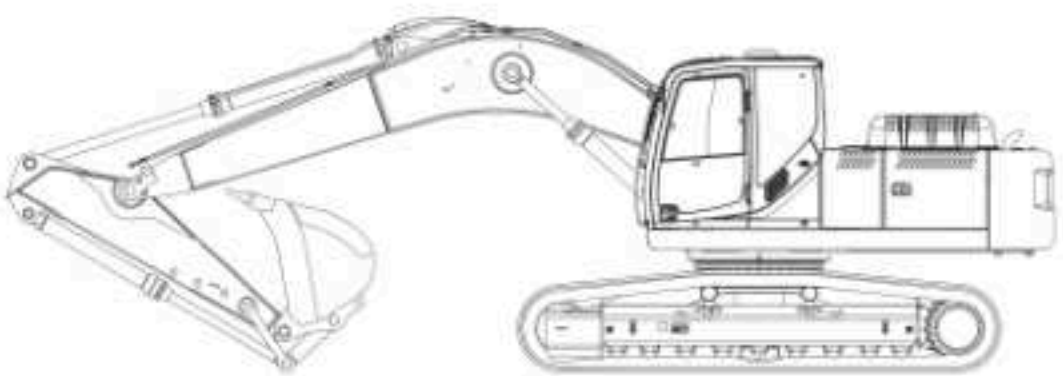
SERVICE MANUAL

E215C
E245C
Crawler Excavators Tier IV



Print no. 84550265A
1st Edition
English 10/11

NEW HOLLAND CONSTRUCTION

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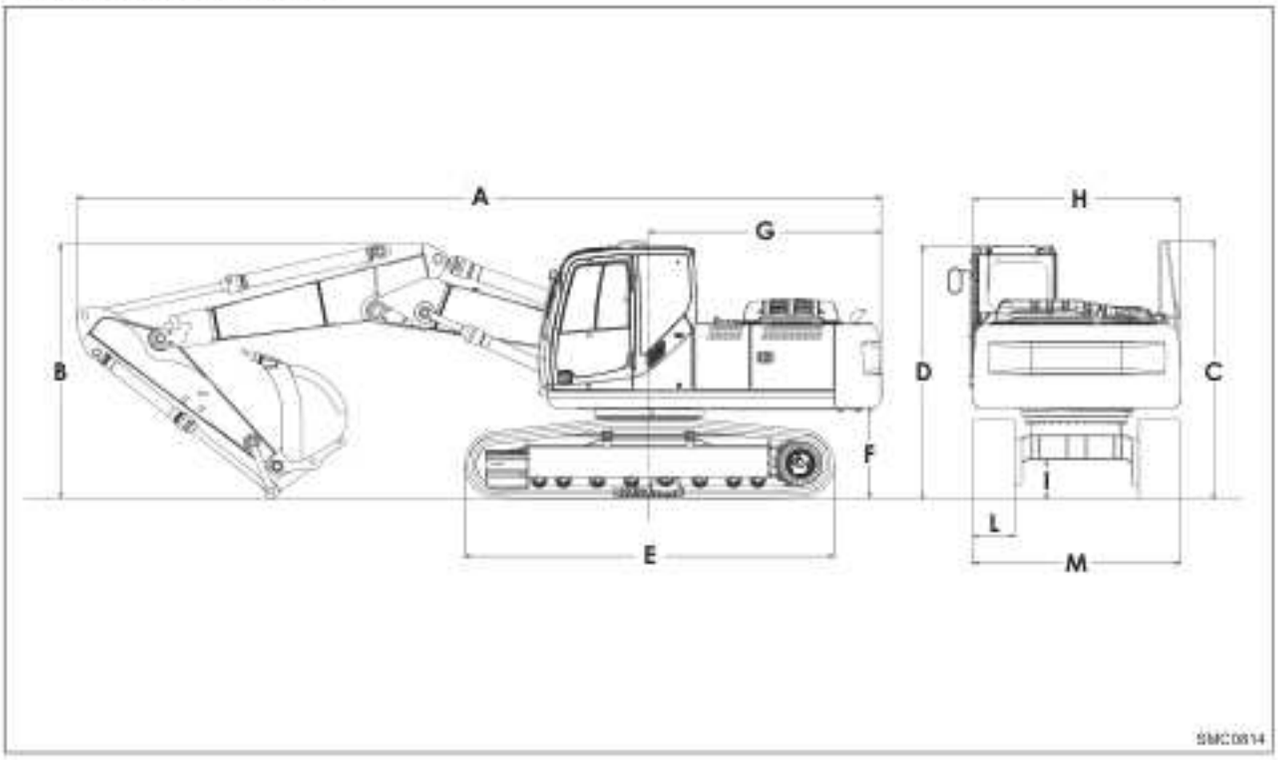


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Triple Articulation Version



VERSIONS	A	B	C	D	E	F	G	H	I
	mm	mm	mm	mm	mm	mm	mm	mm	mm
E215C EL E215C L E215C LC	(1) 9682	(1) 3061	3097	3079	4451	1092	2800	2490	472
	(2) 9664	(2) 3014							
	(3) 9642	(3) 2958							
	(4) 9628	(4) 3244							

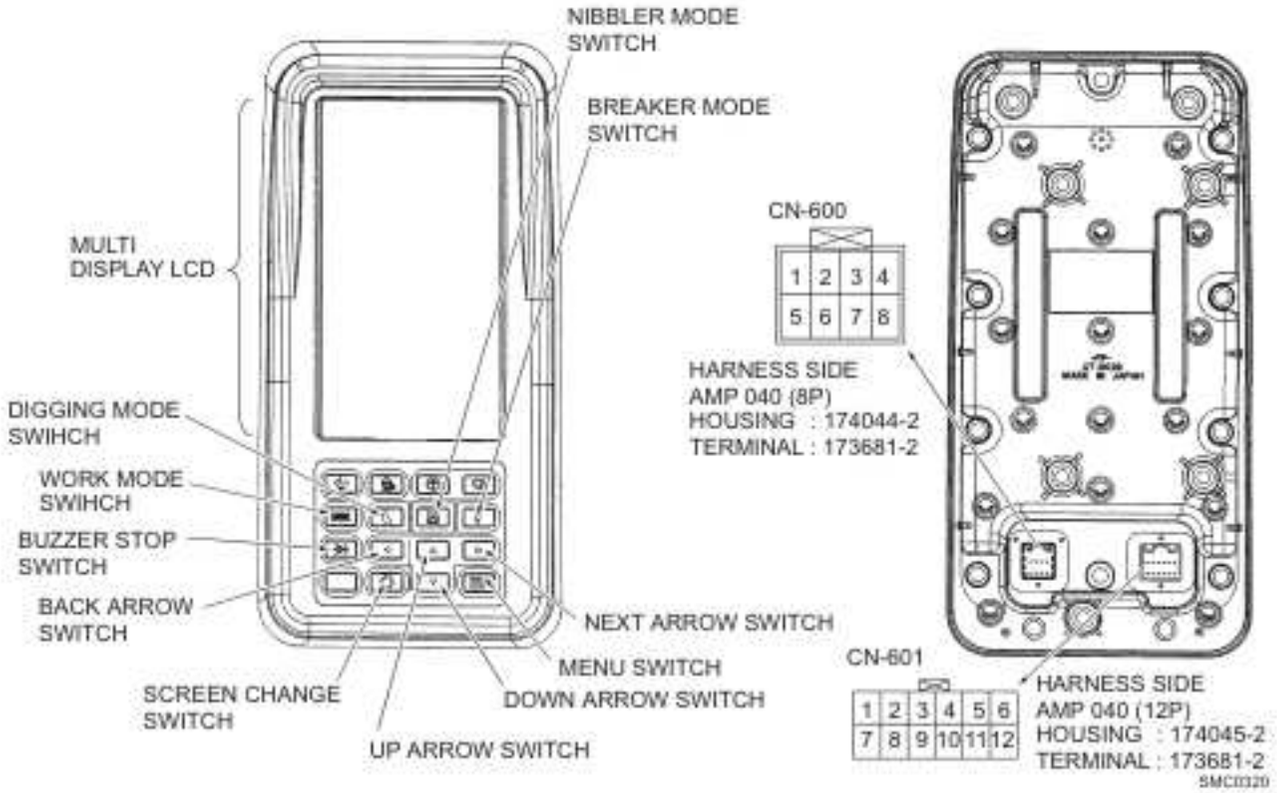
			E215C EL				E215C L				E215C LC		
L	Track shoe width	mm	500	600	700	600	700	800	900	600	700	800	900
M	Gauge	mm	2490	2590	2690	2800	2900	3000	3100	2990	3090	3190	3290
Working weight (1)		kg	21690	21940	22220	21990	22280	22560	22840	22050	22330	22610	22890
Specific ground pressure		kPa	58.1	49.0	42.5	49.1	42.6	37.8	34.0	49.2	42.7	37.9	34.0
Working weight (2)		kg	21710	21960	22240	22020	22300	22580	22860	22070	22350	22630	22910
Specific ground pressure		kPa	58.2	49.1	42.6	49.2	42.7	37.9	34.1	49.3	42.8	38.0	34.1
Working weight (3)		kg	21790	22040	22320	22100	22380	22660	22940	22150	22430	22710	22990
Specific ground pressure		kPa	58.4	49.2	42.7	49.3	42.8	38.0	34.2	49.5	42.9	38.1	34.2
Working weight (4)		kg	21970	22220	22500	22280	22560	22840	23120	22330	22610	22890	23170
Specific ground pressure		kPa	58.9	49.6	43.1	49.7	43.2	38.2	34.4	49.9	43.3	38.3	34.5

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

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2. Gauge cluster (symbol C-2)

1) General view



2) Connector CN-600 (Harness side)

No.	Item name	Wire color	No.	Item name	Wire color
1	Reserved	-	5	Source (+24V)	White
2	Reserved	-	6	GND	Black
3	Reserved	-	7	Source (+24V)	White
4	Reserved	-	8	Reserved	-

3) Connector CN-601 (Harness side)

No.	Item name	Wire color	No.	Item name	Wire color
1	Reserved	-	7	Reserved	-
2	Reserved	-	8	Reserved	-
3	Reserved	-	9	Reserved	-
4	Rearview camera video signal	White	10	GND	Black
5	Reserved	-	11	Reserved	-
6	Mechatro-controller --> Gauge cluster (CAN communication)	Red	12	Gauge cluster --> Mechatro-controller (CAN communication)	White

4) Function

a. It processes signals by communication between the gauge cluster and the mechatro controller, displays them in lamps, displays them in LCDs and actuates the buzzer.

b. It outputs coolant temperature signals, fuel level signals and panel switch signals to the mechatro controller through the communication port.

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Table 92

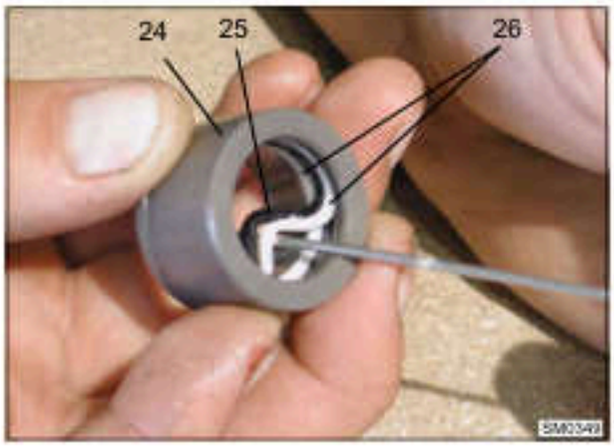
Error code	**I111**		
Trouble	Reception of CAN1 communication is abnormal. (Passive error)		
Judging condition	Reception from engine controller can not receive correctly.		
Symptom	It has been affected little.		
Control in the event of failure	Keep the last receiving condition.		
Returned in normal condition	It returns automatically in normal condition.		
Service diagnosis checking screen	Screen No.		
	Screen No.		
	Screen No.		
Checking object			Checking contents and remedy
1	• Wiring between ECU and controller CN-12F CN-101F		Check wiring for possible failure according to the wiring checking procedure and repair it if necessary. (There is a possibility of false disconnection).
2	• Mechatro controller		Check that the error is corrected after replacement of controller.

Table 93

Error code	**I113**		
Trouble	Reception of cluster communication is abnormal. (time-out error)		
Judging condition	Reception from gauge cluster can not receive correctly. It has been affected little.		
Symptom	It has been affected little.		
Control in the event of failure	It can be operated in condition that coolant temperature is 20 °C.		
Returned in normal condition	It returns automatically in normal condition.		
Service diagnosis checking screen	Screen No.	2	G-5 WATER TEMP
	Screen No.		
	Screen No.		
Checking object			Checking contents and remedy
1	• Wiring between ECU and controller CN-12F CN-101F		Check wiring for possible failure according to the wiring checking procedure and repair it if necessary.
2	• 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**).

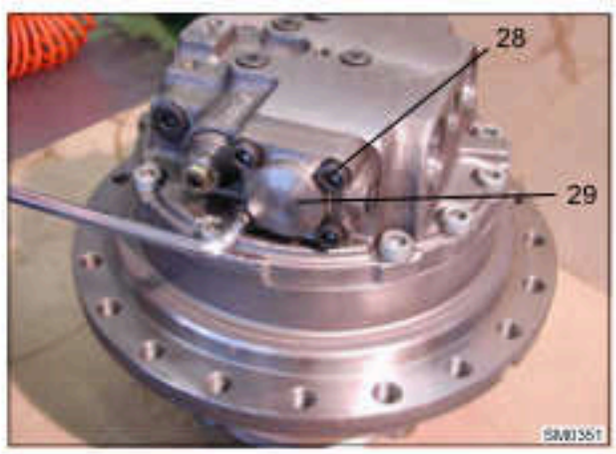


30. Remove the O-ring seal (**27**) from relief valve (**23**). Repeate the same steps for the 2nd relief valve disassembly.

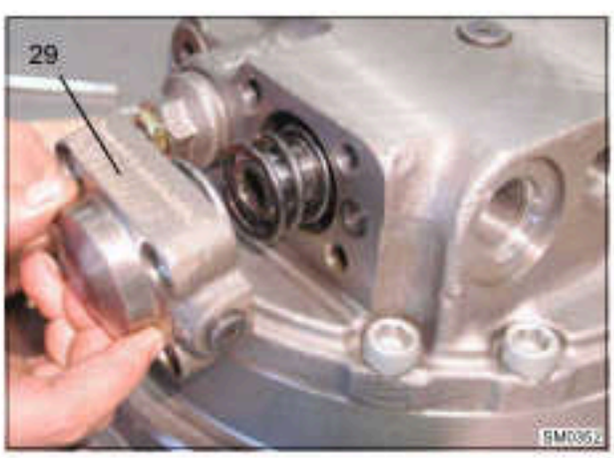


Disassembly of the counterbalance valve assy

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

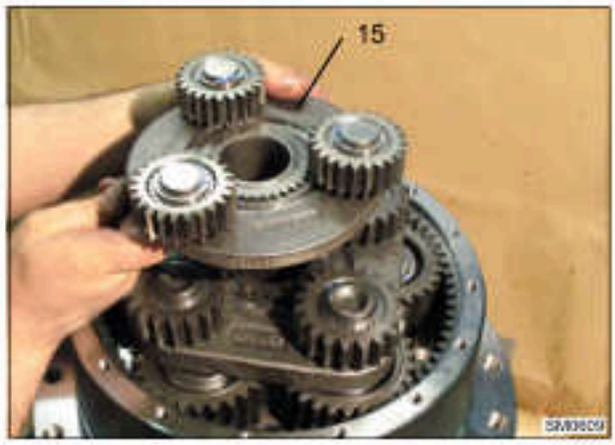


32. Take out the first flanged plug assy (**29**) and the spring seat.

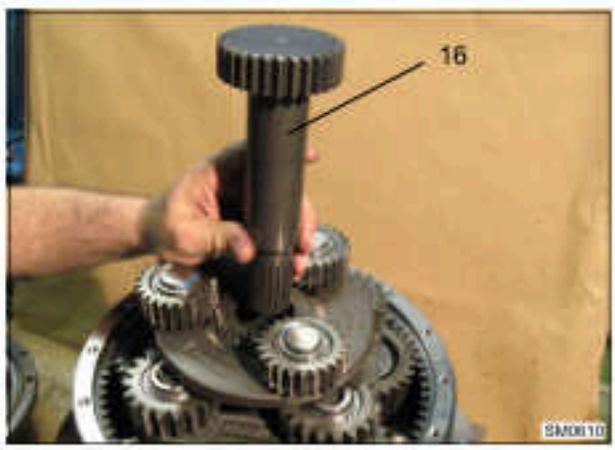


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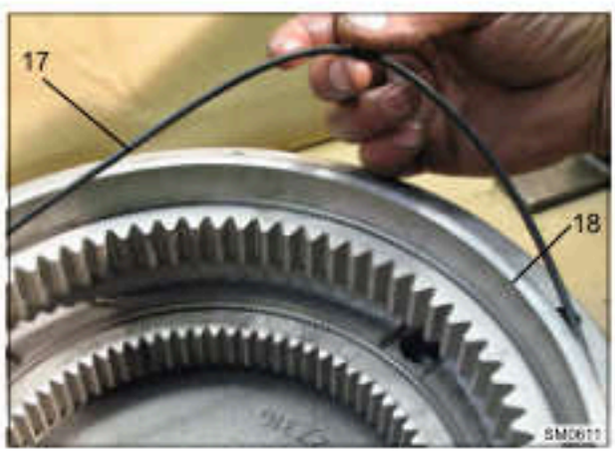
18. Insert the 1st reduction assembly (**15**).



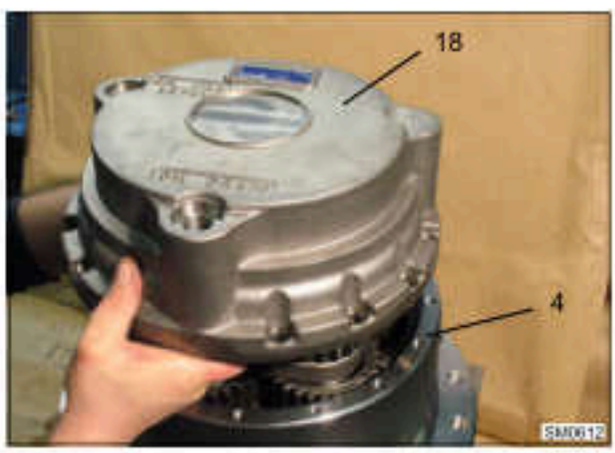
19. Insert the 1st reduction sun gear (**16**).



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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