SERVICE MANUAL

E805 Tier 3
Crawler Excavator

Print No. 84366526

NEW HOLLAND CONSTRUCTION

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E805 Tier 3 Crawler Excavators
Table of Contents

DIVISION/SECTION		SECTION N°	REFERENCE N°
1	**GENERAL INFORMATION**		
	Safety, general information and standard torque data	1001	7-27691EN
	General specifications and special torque setting	1002	9-94710EN
2	**ENGINE**		
	Radiator and engine, removal and installation	2001	9-94910EN
	Engine specifications	*	
	Disassembly and assembly of the engine	*	
3	**FUEL SYSTEM**		
	Fuel tank	3001	9-36821EN
	Fuel engine system	*	
4	**ELECTRICAL SYSTEM**		
	Electrical system, electrical and electronic troubleshooting	4001	9-94700EN
	Inspection and maintenance of batteries and connecting a booster battery	4002	9-36830EN
	Main and engine electronic control boxes	4003	9-94510EN
5	**UNDERCARRIAGE**		
	Removal and installation of tracks	5001	9-36860EN
	Rollers	5003	9-36881EN
	Sprocket	5004	9-36890EN
	Idler wheel and tension shock absorber	5005	9-94350EN
6	**DRIVE TRAIN**		
	Drive motor and final drive transmission removal and installation	6001	9-36980EN
	Drive motor and final drive transmission disassembly and assembly	6002	9-40351EN
	Swing reduction gear, removal and installation	6003	9-36991EN
	Swing reduction gear, disassembly and assembly	6004	9-42631EN
7	**UNDERCARRIAGE HYDRAULICS**		
8	**UPPERSTRUCTURE HYDRAULICS**		
	Depressurising and decontaminating the hydraulic system, use of the vacuum pump and bleeding the components	8000	9-94430EN
	Specifications, troubleshooting, checks and hydraulic pressure settings	8001	9-94740EN
	Hydraulic reservoir removal and installation	8002	9-94490EN
	Main and pilot pumps, removal and installation	8003	9-40771EN
	Main hydraulic control valve, removal and installation	8004	9-94501EN
	Attachment cylinders, removal and installation	8005	7-27792EN
	Hydraulic swivel, removal and installation	8006	9-94600EN
	Pilot blocs, removal and installation	8007	9-94520EN
	Swing motor, removal and installation	8008	9-94420EN
	Main hydraulic pump, disassembly and assembly	8010	9-94590EN
	Main hydraulic control valve, disassembly and assembly	8011	9-94781EN
	Attachment cylinders, disassembly and assembly	8012	9-40941EN
	Hand control levers, disassembly and assembly	8013	9-94630EN
	Foot control levers, disassembly and assembly	8014	9-40992EN
	Six-solenoid valves, disassembly and assembly	8015	9-42521EN
	Caution valve, disassembly and assembly	8016	9-94531EN
	Safety valve	8017	9-42770EN
	Hydraulic swivel, disassembly and assembly	8018	9-42511EN
	Swing motor, disassembly and assembly	8019	9-42530EN
	Hydraulic functions	8020	9-94720EN

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DIVISION/SECTION	SECTION N°	REFERENCE N°
Fan motor, removal and installation	8022	9-94660EN
Fan motor, disassembly and assembly	8023	9-94670EN
Fan pump, removal, disassembly, assembly and installation	8024	9-94680EN
Hydraulic component functions	8030	9-94130EN
9 UPPERSTRUCTURE		
Upperstructure, turntable and counterweight	9002	9-42551EN
Boom, dipper and bucket	9003	9-42621EN
Seat and seat belt	9004	9-40960EN
Cab and cab equipment	9005	9-94650EN
Air conditioning troubleshooting	9006	[redacted]
Air conditioning unit disassembly and assembly	9007	9-94640EN
Air conditioning servicing	9008	[redacted]
Air conditioning components	9009	[redacted]
Removal and installation attachment, counterweight and side fram	9010	9-94730EN
Large format hydraulic schematic	Pocket	87520431
Large format electrical schematic	Pocket	9-93930

* *Consult the Engine Service Manual*

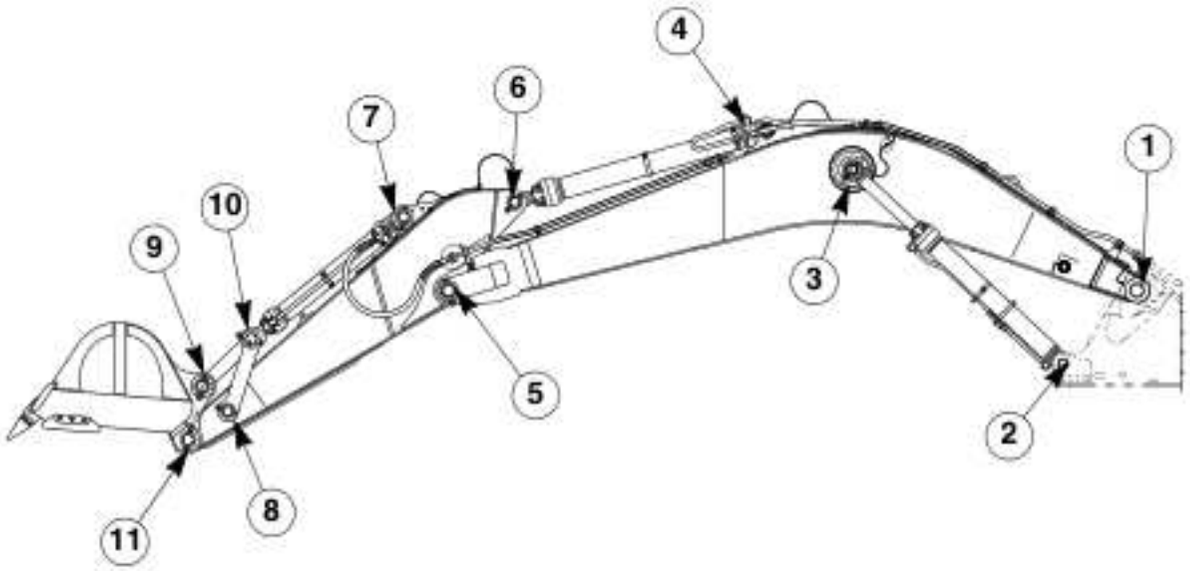
[redacted] *Sections to be distributed at a later date*

NOTE: CNH Company reserves the right to make changes in the specification and design of the machine without prior notice and without incurring any obligation to modify units previously sold.

The description of the models shown in this manual has been made in accordance with the technical specifications known as of the date of design of this document.

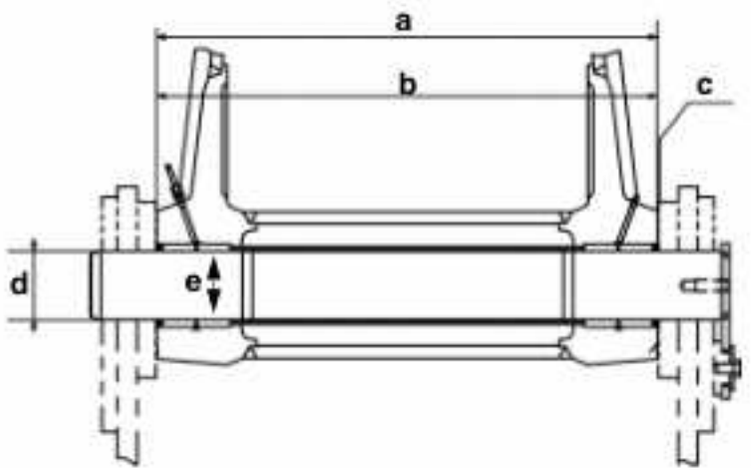
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DIMENSIONS AND WEAR LIMITS OF ATTACHEMENT MOBILE JOINTS



CRLD6C002

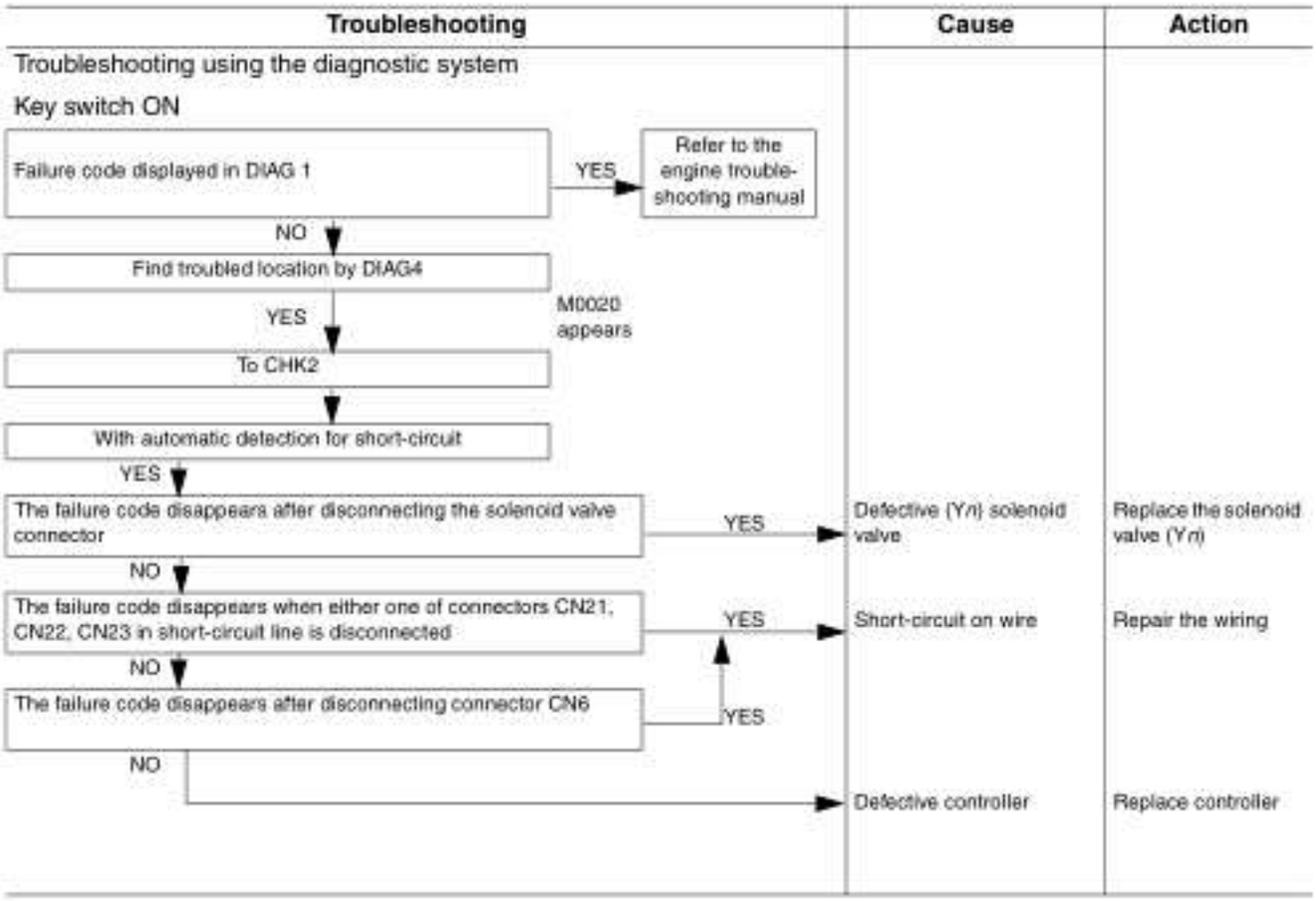
1. Boom foot/Frame



700-1-08-02-05JA

Mark		Dimension mm
a (frame)	Standard	1110
	Limit	1118
b boom)	Standard	1106
	Limit	1103
c (clearance)	Standard	4 to 6.5
	Limit	Shim adjustment
Ø d (shaft)	Standard	150
	Limit	149
Ø e (bushing)	Standard	150
	Limit	151.5

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CUSHION CONTROL VALVE

Disassembly

NOTE: *The numbers within brackets in the following steps refer to the schematic on page 3.*

STEP 1



JD00549A

If the cushion control valve has to be replaced, remove the adaptors and elbow unions and install them on the new control valve. Do not remove the four flow restriction adapters (7) installed in the sides of the valve.

NOTE: *Mark parts to ensure correct assembly in same valve bore as removed from.*

STEP 2



JD00550A

Remove the plug (8) with the O-ring (9) and the spring (10).

STEP 3



JD00551A

Remove the spring (10) and the O-ring (9) of the plug. Scrap the O-ring.

STEP 4



JD00552A

Remove the spool (13) with the O-ring (12), the spring guide (11) and the spring (10) of the control valve.

STEP 5



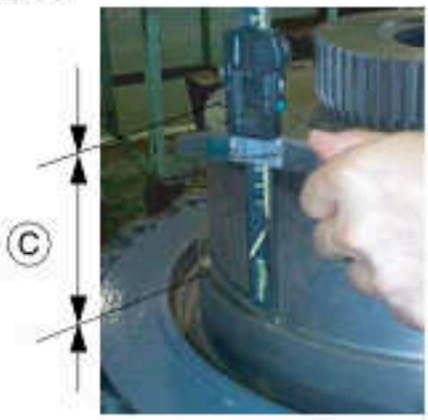
JD00553A

Put the spool (13) in a vice using wooden shims to protect the spool. Remove the spring guide (11) from the spool (13).

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Case subassembly

STEP 1



800-7-02-03-08Q1

Measure the distance (C) of the stepping portion of the gear case (1) and record the measurement.

STEP 2



800-7-02-03-08Q2

Measure the distance (D) of the stepping portion of the bearing retainer (8) and record.

STEP 3



800-7-02-03-08P1

Set the gear case (1) on the jig plate.

STEP 4



800-7-02-03-08P2

Apply lithium grease to the O-ring of the floating seal (33), and insert it on the gear case (1) by using spatula. After inserted, confirm the O-ring has been firmly inserted and has no twist. Oil leakage may happen and cause damage if the O-ring is improperly assembled on the retainer or the ring is twisted

STEP 5



800-7-02-03-08Q1

Assemble the Housing subassembly to the above.

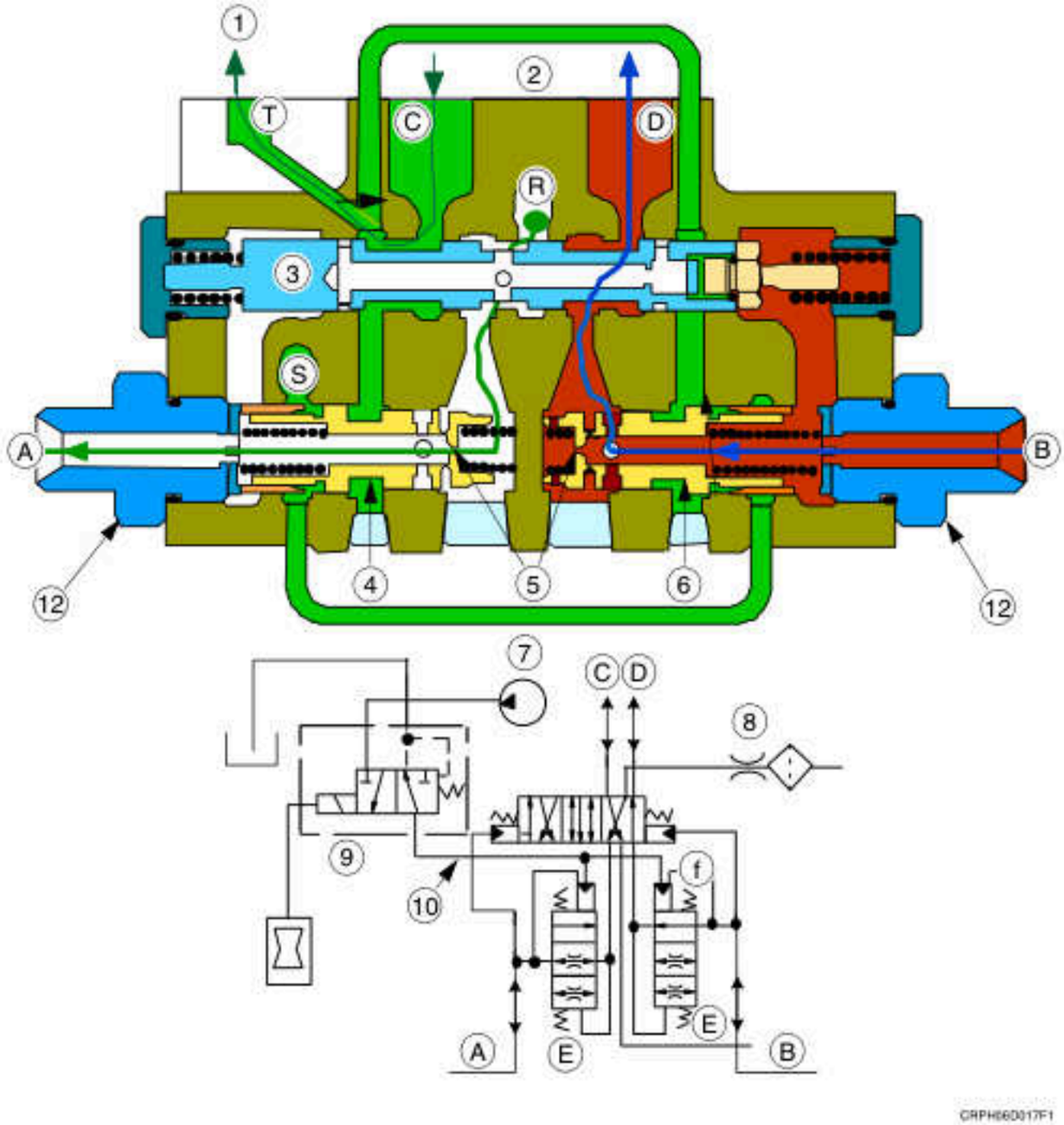
STEP 6



800-7-02-03-08Q2

Select the plate shim (7) so that the figure in the (D) + (C) – (B) comes to 0.05 to 0.100, and insert the bearing retainer (8). The plate shim (7) come in 0.1 mm, increments of 1.0 to 2.0 mm.

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CRPH660017F1

1 TO RETURN FILTER
2 TO BOOM OR ARM SPOOL
3 SPOOL F
4 SPOOLS E
5 ORIFICES
6 SPOOLS E
7 PILOT PRESSURE
8 FROM CONTROL VALVE RETURN
9 CUSHION SHUT-OFF SOLENOID VALVE
10 S PORT
11 TO RETURN FILTER
12 FROM HAND CONTROL

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