SERVICE MANUAL

SKIDSTEER LOADER
3TS-8T, 3TS-8W

EN - 9813/7400
ISSUE 1 - 03/2017

This manual contains original instructions, verified by the manufacturer (or their authorized representative).

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Foreword

The Operator's Manual

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You and others can be killed or seriously injured if you operate or maintain the machine without first studying the Operator's Manual. You must understand and follow the instructions in the Operator's Manual. If you do not understand anything, ask your employer or JCB dealer to explain it.

Do not operate the machine without an Operator's Manual, or if there is anything on the machine you do not understand.

Treat the Operator's Manual as part of the machine. Keep it clean and in good condition. Replace the Operator's Manual immediately if it is lost, damaged or becomes unreadable.

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00 - General

Technical Data

O-Ring Face Seal UNF Threads on the ORFS Fittings

Table 236. Torque Settings - ORFS

UNF Thread Size	Torque Value
inch x pitch	N·m
9/16 x 18	24–27N·m
11/16 x 16	40–44N·m
13/16 x 16	55–60N·m
1 x 14	60–66N·m
1 3/16 x 12	90–99N·m
1 5/16 x 12	115–126N·m
1 7/16 x 12	125–138N·m
1 11/16 x 12	170–187N·m
2 x 12	200–220N·m

Adaptors Connected into Valve Blocks

Table 237. Torque Settings - BSP Adaptors

BSP Adaptor Size	BSP Adaptor Size	Hexagon (A/F)	Torque Value
Inch	mm	mm	N·m
1/4	6.35	19mm	18N·m
3/8	9.525	22mm	31N·m
1/2	12.7	27mm	49N·m
5/8	15.875	30mm	60N·m
3/4	19.05	32mm	81N·m
1	25.4	38mm	129N·m
1 1/4	31.75	50mm	206N·m

Table 238. Torque Settings - SAE Connections

SAE Hose Dash Size	SAE Port Thread Size	Hexagon (A/F)	Torque Value
	inch x pitch	mm	N·m
4	7/16 x 20	15.9mm	20–28N·m
6	9/16 x 18	19.1mm	46–54N·m
8	3/4 x 16	22.2mm	95–105N·m
10	7/8 x 14	27mm	130–140N·m
12	1 1/16 x 12	31.8mm	190–210N·m
16	1 5/16 x 12	38.1mm	290–310N·m
20	1 5/8	47.6mm	280–380N·m

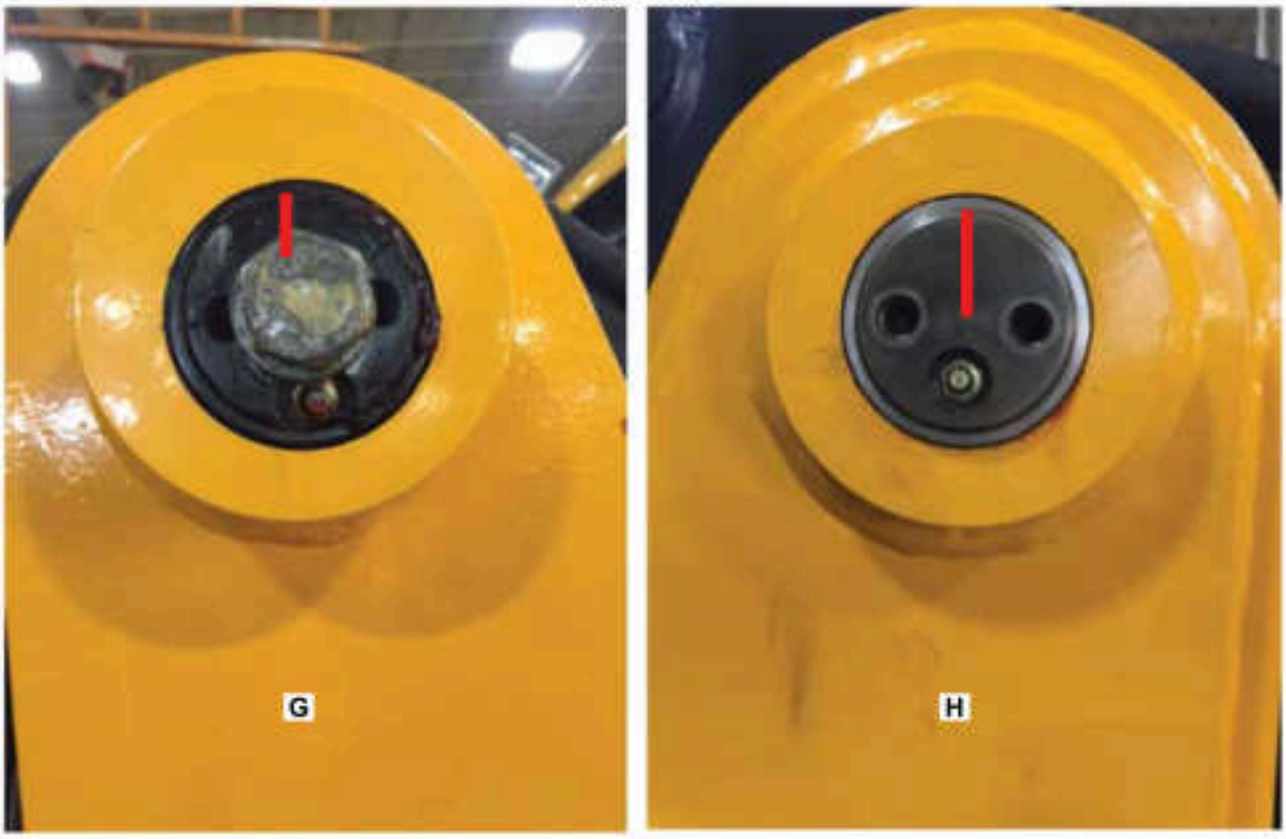
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Fault Code	Cause	Remedy
C241	Short circuit to negative connection at Crowd Solenoid	Check Crowd Solenoid
C242	Short circuit to negative connection at Dump Solenoid	Check Dump Solenoid
C243	Short circuit to negative connection at Float Transducer	Check Float Transducer
C244	Short circuit to negative connection at Lower Solenoid	Check Lower Solenoid
C245	Short circuit to negative connection at Transmission X1F Solenoid	Check Transmission X1F Solenoid
C246	Short circuit to negative connection at Park brake Transducer	Check Park brake Transducer
C247	Short circuit to negative connection at Transmission X2F Solenoid	Check Transmission X2F Solenoid
C250	Short circuit to negative connection at Raise Solenoid	Check Raise Solenoid
C251	Short circuit to negative connection at Transmission X1R Solenoid	Check Transmission X1R Solenoid
C252	Short circuit to negative connection at Transmission X2R Solenoid	Check Transmission X2R Solenoid
C256	Short circuit to negative connection at Starter relay	Check Starter relay
C257	Short circuit to negative connection at Reverse Alarm	Check Reverse Alarm
C258	Short circuit to negative connection at Brake Light	Check Brake Light
C271	Short circuit to negative connection at Auxiliary Roller	Check Auxiliary Roller
C285	Short circuit to negative connection at D+ Terminal	Check D+ Terminal
C296	Short circuit to negative connection at SRS Solenoid 2	Check SRS Solenoid 2
C297	Short circuit to negative connection at SRS Solenoid 3	Check SRS Solenoid 3
C298	Short circuit to negative connection at Reversing Fan Solenoid	Check Reversing Fan Solenoid
C316	Open circuit at Fan Solenoid	Check Fan Solenoid
C317	Open circuit at High Flow Solenoid	Check High Flow Solenoid
C319	Open circuit at Parallel Lift Solenoid	Check Parallel Lift Solenoid
C325	Open circuit at Implement Pilot Solenoid	Check Implement Pilot Solenoid
C326	Open circuit at Auxiliary A Solenoid	Check Auxiliary A Solenoid
C327	Open circuit at Auxiliary B Solenoid	Check Auxiliary B Solenoid
C330	Open circuit at Quick Hitch A	Check Quick Hitch A
C331	Open circuit at Quick Hitch B	Check Quick Hitch B
C334	Open circuit at SRS Solenoid 1	Check SRS Solenoid 1
C335	Open circuit at Two-Speed Solenoid	Check Two-Speed Solenoid
C336	Open circuit at LH Turn signal	Check LH Turn signal
C337	Open circuit at RH Turn signal	Check RH Turn signal
C340	Open circuit at Transmission Pilot Solenoid	Check Transmission Pilot Solenoid

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Figure 32.



G Right side tapered pivot pin

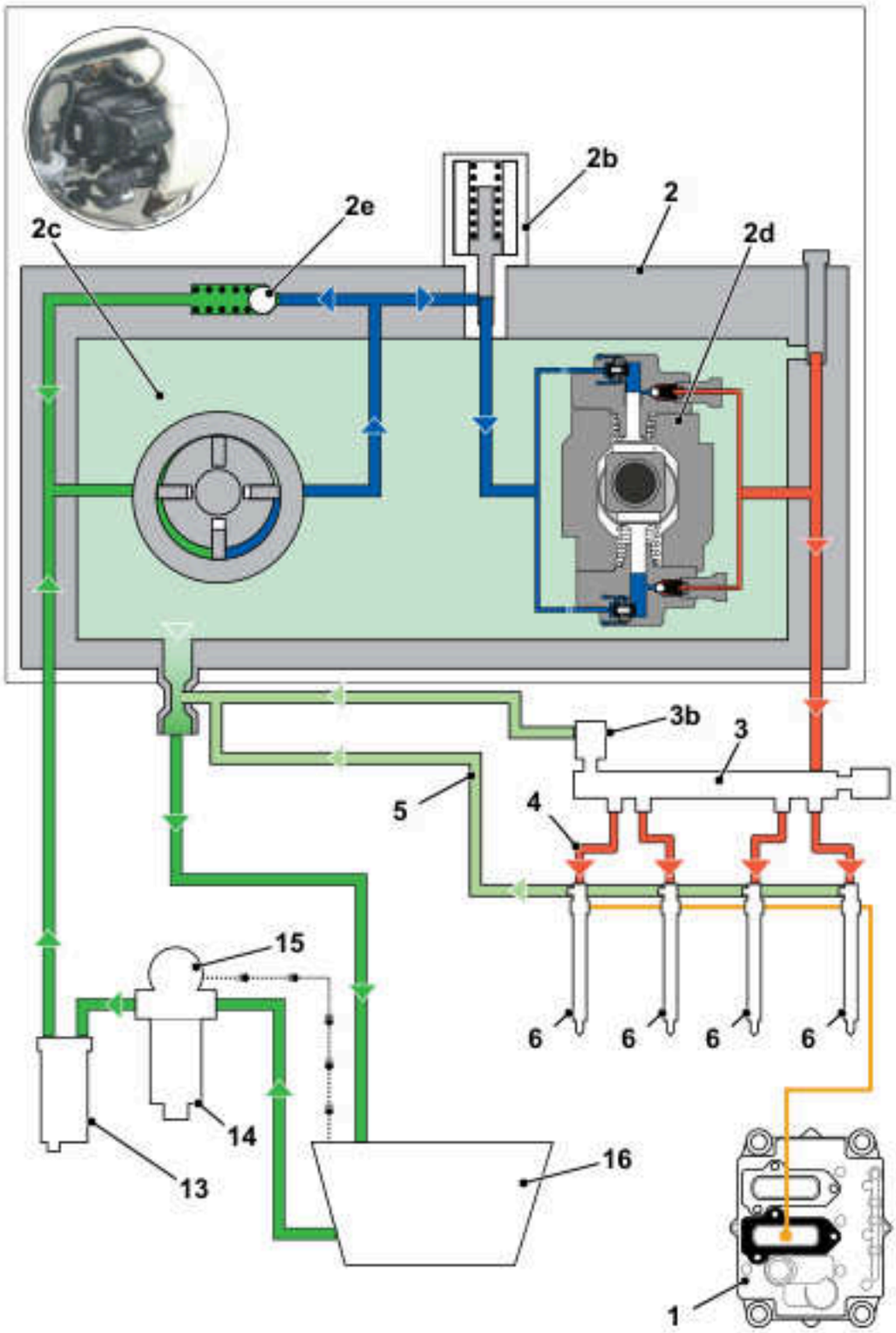
H Left side tapered pivot pin

4.2. If the left side of the quickhitch is too high, rotate the left side tapered pivot pin until the quickhitch is level or up to the specified amount.

Angle: 180°

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Figure 269.



1 ECM
2b IMV
2 Fuel high pressure pump
2c Fuel high pressure pump (transfer section)

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