

LQS C650 MAIN TANK SIGHT GAUGE INSTALLATION GUIDE

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1. IMPORTANT INFORMATION

1.1 About this Manual

This document provides instructions for installing the LQS120 C650 Main Tank Sight Gauge to a John Deere C650 Air Cart.

Safety and Damage Warnings

WARNING, CAUTION and NOTE symbols are used throughout this manual to stress the importance of personal safety, potential machinery damage and useful operating information.



WARNING: Indicates the strong possibility of severe personal injury or damage to machinery if instructions are not followed.



CAUTION: Highlights hazards, unsafe or unwise practices which could cause personal injury, property damage, damage to your machinery or loss of potential crop yield if instructions are not followed

NOTE: Refers to important and useful information which should not be overlooked.

Important Safety Instructions



WARNING: Always wear protective gloves, eyewear, footwear and clothing when installing and commissioning the system.

To avoid injury, use mechanical assistance wherever necessary when lifting heavy items.

Use appropriate safety equipment when working at heights.

2. SPECIFICATIONS

2.1 About the System

The LQS C650 Main Tank Sight Gauge includes components to add liquid sight gauge to a John Deere C650 Cart with liquid centre tank. This includes:

- LQS C650 Main tank sight gauge assembly
- Chassis mounting kit
- Tank plumbing kit

2.2 System Components

	REVISIONS				ITEM	DESCRIPTION	PART NUMBER	QTY
REV.	DESCRIPTION Drawing release	DATE 21/02/2023	DRN BY DH		NO.			_
B	Item 9 added, items 8,11,15 updated	24/03/2023	DH		1	C650 MAIN TANK SIGHT GAUGE FASCIA	L06035	1
С	Items 6 & 7 updated	28/03/2023	DH		2	C650 MT SIGHT GAUGE BOTTOM REAR BRACKET	L06036	1
D	Item 27 updated - Item 31-32 added	21/04/2023	HM		3	C650 MT SIGHT GAUGE BOTTOM FRONT BRACKET	L06037	1
E	New Item 30 - Item 27 QTY updated	26/04/2023	HM		4	C650 MT SIGHT GAUGE TOP REAR BRACKET	L06038	1
					5	C650 MT SIGHT GAUGE TOP FRONT BRACKET	L06039	1
				\bigcirc	6	C650 MT SIGHT GAUGE TOP PLATE	L06040	1
					7	C650 MT SIGHT GAUGE BOTTOM PLATE	L06041	1
	15				8	M8 NUTSERT	CF-5145-0855	8
	(14)		(1	F	9	M8 NUTSERT LOW PROFILE	CF-0946805821	8
					10	M6 S/S DLS NUTSERT	CF-DLS6104.2	4
	(13) (12)	5 6			11	M8X130 SOCKET HEAD CAP SCREW	CF-8X130MG316SHCS	8
	\bigcirc				12	M8X20 316 SS SET SCREW	CF-8X20MG316SS	10
					13	M8 316 SS FLAT WASHER	CF-8MG316W	24
	and in the second				14	M8 316 SS SPRING WASHER	CF-8MG316SW	24
	and a second second	4		\sim	15	M8 304 S/S HEX STD NUT	CF-8MG304N	8
		• ((5)		16	M6X70 316 S/S HEX BOLT	CF-6X70MG316B	4
			\sim		17	1.25" PIPE CLAMP SHELL PP	BL-HRL5KP42PP	2
	0-4-4- 0.				18	1.25" CLAMP TOP PLATE	L03034	2
					19	C650 MT SIGHT GAUGE TUBE	L06042	1
			. ·		20	C650 MT SIGHT GAUGE BREATHER SOCKET	L06043	1
					20	1.25" POLY TEE	BJ-TEE125	1
					22	1.25" PLUG	BJ-PLUG125	2
					22	1 1/4" MALE THRD X 1" HB	BJ-HB125-100	1
					23	1" 90DEG HOSETAIL	BJ-HB100-90	1
			L.S		24			1
(12		- •	10				BJ-TF100	
\bigcirc		•		(19)	26	BARFEL 25MM HOSE 300 PSI	BL-201327	1.6
	(14)		ľ .		27	S/S T-BOLT CLAMP 32-35MM	TD-TTBS-32-35	2
	(13)	-			28	FILL FLOAT	C650-FG-FLOAT	1
			•		29	DECAL (NOT SHOWN)	LQ-DecalLQSSightGauge	1
		(2)	•		30	TEFLON THREAD TAPE (NOT SHOWN)	GU-HA1210	1
		\bigcirc		25	32	1" SINGLE UNION BALL VALVE	BJ-UV100FP	1
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				33	1" SHORT NIPPLE	BJ-NIP100-SH	1
		7				© COPYRIGHT - ALL RIGHTS TO THIS DRAWING R DESCRIPTION: C650-FILL GAUGE ASSEMBL Liquid Systems and State Sta	Y MATERIAL: NOT SPECIFIED COLOUR: N/A FINSH: N/A DATE: 26(04/2023)
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						UNLESS OTHERWISE STATED SCALE DRAWING GENERAL TOLERANCES: DECIMAL (0) 40.5 2 DECIMAL (0.00) 40.1 TOLERANCES: DECIMAL (0) 140.2 ANGLE (0.00) 40.1	AS SCALE: 1:12 DWG NO: LL06021 REVIS	SION:

LQS C650 Main Tank Sight Gauge Installation Guide

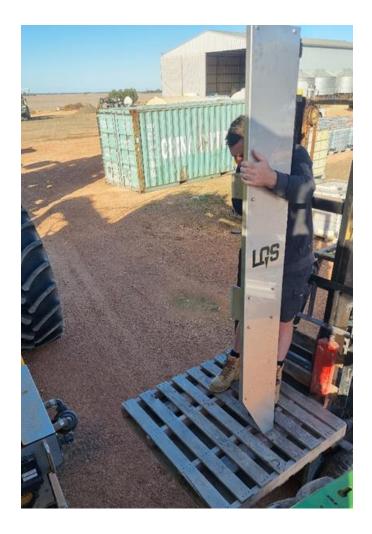
- Remove the sight gauge assembly from the packaging and remove the 4 outer bolts on the clamp mounts.
- Loosen the 4 inner bolts on the clamp mounts but do not remove completely.



• Loosen the clamp to fascia bolts to allow the clamps to expand over the air cart frame.



• Stand the assembly upright and move into position.



• Slide the clamps over the frame with the top clamp resting on the top of the existing hose tab on frame.





• Push the assembly firmly against the frame, reinsert the removed through bolts and tighten all 4 bolts of each clamp mount until firm.



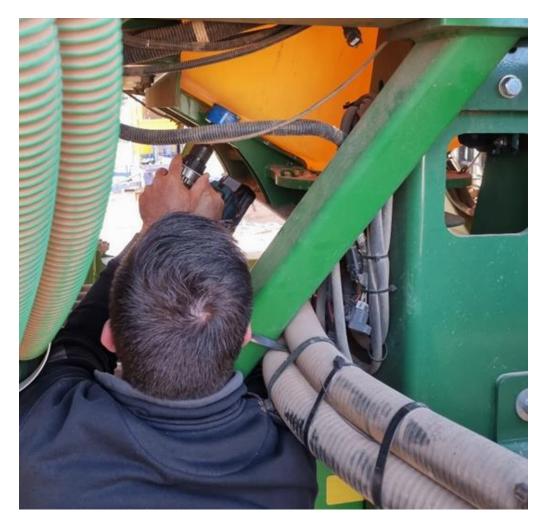


• Tighten the clamps to fascia bolts.



3.2 Cut Tank Hole & Install Tank Plumbing

- Locate a suitable flat location for the tank fitting. Ensure location is lower than the bottom of the sight gauge.
- Ensure there is sufficient room on the inside and outside of the tank for the fitting.



- Cut a Ø57 mm hole using a hole saw
- Remove any sharp edges / swarf from the cut.





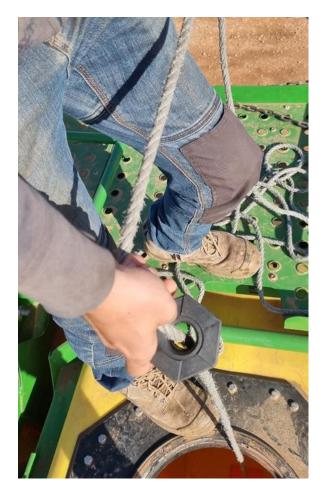
Clean swarf and other debris from edge and inside of tank tank as much as you can.

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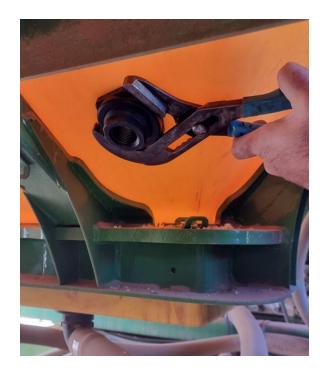
• Using a piece of rope and a weight, drop the rope down through the tank lid and out the hole cut for the tank fitting.



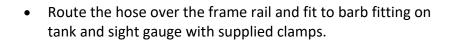
• Slide the tank fitting and gasket down the rope and through the hole in tank.

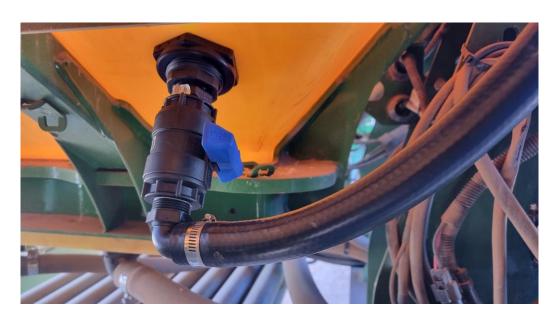


• Secure the tank fitting firmly with the locknut on the outside of the tank, ensuring the gasket is seated squarely against the inside.



• Install the ball valve and barb fitting- using supplied Teflon tape on threads.







• Fill tank and check for leaks

