

VAHVA GRAPPLE C, E and KC 21

VAHVA

Spare Parts Book

Version 28.10.2021 (English)



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1 General

This manual describes the spare parts used for VAHVA grapple.

The book provides you necessary information about the structure and operation of our product to use and maintain the device properly.

For the most demanding repair and maintenance work, we recommend contacting Koneosapalvelu or your grapple dealer. Our service staff has the experience and special tools needed for more demanding jobs.

The C models in our VAHVA collection are designed to be mounted on a rotator and the KC models are quick-mounted on an excavator. If the model marking also includes an E, the grapple has spikes instead of jaws. The digit after E indicates the number of spikes.

VAHVA original spare parts are sold by Koneosapalvelu Oy.

Contact information for spare parts sales:

Koneosapalvelu Kuopio

Saaristokatu 5
tel. +358 20 755 1243

Koneosapalvelu Lappeenranta

Toikansuontie 7
tel. +358 20 755 1245

Koneosapalvelu Vilppula

Teollisuustie 5
tel. +358 20 755 1240

The pictures and drawings below are for reference only.

3 Spare parts lists

3.1 VAHVA GRAPPLE C21

Part	Order code	Part No.	Name	Amount	Unit
-	A59434	V820000	VAHVA GRAPPLE C21	1	pcs
19	A63526	V820050	PUSHROD C21	1	pcs
-	A61608	V821060	PIN GROUP C21 HD	1	pcs
1	A13827	TRM1167	GREASE NIPPLE M8x1 DIRECT	8	pcs
2	A63497	TZN1013	HEX LOCK NUT M12 DIN 985 10.9	7	pcs
4	A63518	TRL1240	LOCK HEAD SCREW 12*35 DIN 603 8.8	7	pcs
6	A19755	TLV4040	BEARING 40/44*40 WB80	6*	pcs
7	A61594	V820027	FERRULE D64/40 x 15	2	pcs
9	A61595	V820082	PIN D40*85	2	pcs
8	A63492	V820076	PIN D40*82	1	pcs
10	A61596	V820074	PIN D40*100	2	pcs
11	A61597	V820088	PIN D40*142	1	pcs
12	A61598	V820086	PIN D40*196	1	pcs
14	A60488	V820001	HYDRAULIC CYLINDER 75/45*217	1	pcs
15	A63520	V820010	FRAME C21	1	pcs
16	A63522	V821020	OUTER GRAPPLE ARM C21 HD	1	pcs
17	A63524	V821030	INNER GRAPPLE ARM C21 HD	1	pcs

3.2 VAHVA GRAPPLE C21 E4

Part	Order code	Part No.	Name	Amount	Unit
-	A59540	V820300	VAHVA GRAPPLE C21 E4	1	pcs
19	A63526	V820050	PUSHROD C21	1	pcs
14	A60488	V820001	HYDRAULIC CYLINDER 75/45*217	1	pcs
15	A63520	V820010	FRAME C21	1	pcs
16	A63530	V820094	OUTER GRAPPLE ARM C21 E4	1	pcs
17	A63531	V820099	INNER GRAPPLE ARM C21 E4	1	pcs
-	A61606	V820093	PIN GROUP C21 E4	1	pcs
1	A13827	TRM1167	GREASE NIPPLE M8x1 DIRECT	8	pcs
2	A63497	TZN1013	HEX LOCK NUT M12 DIN 985 10.9	7	pcs
4	A63518	TRL1240	LOCK HEAD SCREW 12*35 DIN 603 8.8	3	pcs
5	A61607	TRL1245	LOCK HEAD SCREW M12*45 DIN 603 8.8	4	pcs
6	A19755	TLV4040	BEARING 40/44*40 WB80	6*	pcs
7	A61601	V820098	FERRULE D64/40 x 36	2	pcs
8	A63492	V820076	PIN D40*82	1	pcs
9	A61602	V820090	PIN D40*97	2	pcs
11	A61597	V820088	PIN D40*142	1	pcs
12	A61598	V820086	PIN D40*196	1	pcs
10	A61603	V820092	PIN D40*134	2	pcs

3.3 VAHVA GRAPPLE KC21

Part	Order code	Part No.	Name	Amount	Unit
-	A59435	V820100	VAHVA GRAPPLE KC21	1	pcs
19	A63526	V820050	PUSHROD C21	1	pcs
-	-	V821060	PIN GROUP C21 HD	1	pcs
1	A13827	TRM1167	GREASE NIPPLE M8x1 DIRECT	8	pcs
2	A63497	TZN1013	HEX LOCK NUT M12 DIN 985 10.9	7	pcs
4	A63518	TRL1240	LOCK HEAD SCREW 12*35 DIN 603 8.8	7	pcs
6	A19755	TLV4040	BEARING 40/44*40 WB80	6*	pcs
7	A61594	V820027	FERRULE D64/40 x 15	2	pcs
9	A61595	V820082	PIN D40*85	2	pcs
8	A63492	V820076	PIN D40*82	1	pcs
10	A61596	V820074	PIN D40*100	2	pcs
11	A61597	V820088	PIN D40*142	1	pcs
12	A61598	V820086	PIN D40*196	1	pcs
14	A60488	V820001	HYDRAULIC CYLINDER 75/45*217	1	pcs
15	A63525	V820110	FRAME KC21 s40/45	1	pcs
16	A63522	V821020	OUTER GRAPPLE ARM C21 HD	1	pcs
17	A63524	V821030	INNER GRAPPLE ARM C21 HD	1	pcs

3.4 VAHVA GRAPPLE KC21 E4

Part	Order code	Part No.	Name	Amount	Unit
-	A61238	V820200	VAHVA GRAPPLE KC21 E4	1	pcs
19	A63526	V820050	PUSHROD C21	1	pcs
-	A61606	V820093	PIN GROUP C21 E4	1	pcs
1	A13827	TRM1167	GREASE NIPPLE M8x1 DIRECT	8	pcs
2	A63497	TZN1013	HEX LOCK NUT M12 DIN 985 10.9	7	pcs
4	A63518	TRL1240	LOCK HEAD SCREW 12*35 DIN 603 8.8	3	pcs
5	A61607	TRL1245	LOCK HEAD SCREW M12*45 DIN 603 8.8	4	pcs
6	A19755	TLV4040	BEARING 40/44*40 WB80	6*	pcs
7	A61601	V820098	FERRULE D64/40 x 36	2	pcs
8	A63492	V820076	PIN D40*82	1	pcs
9	A61602	V820090	PIN D40*97	2	pcs
11	A61597	V820088	PIN D40*142	1	pcs
12	A61598	V820086	PIN D40*196	1	pcs
10	A61603	V820092	PIN D40*134	2	pcs
14	A60488	V820001	HYDRAULIC CYLINDER 75/45*217	1	pcs
15	A63525	V820110	FRAME KC21 s40/45	1	pcs
16	A63530	V820094	OUTER GRAPPLE ARM C21 E4	1	pcs
17	A63531	V820099	INNER GRAPPLE ARM C21 E4	1	pcs

In addition, all models include:

	A60243	V600325	STICKER "Danger of compression"	1	pcs
	A60242	V600324	STICKER "Danger of oil splashes"	1	pcs
	A65523	V600310	STICKER, VAHVA	2	pcs

Other parts (accessories / repair kits):

	A05302	A05302	Seal Kit Vahva C21 / B21		pcs
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* In addition, the cylinder contains 4 pcs of bearing fittings.

4 Hydraulic cylinder repair

4.1 Hydraulic cylinder removal and installation

1. Place the grapple in closed position, lower the loader on a level surface. Make sure the loader stays in place.
2. Disconnect the hydraulic hoses and plug the connections.
3. Remove the pivot pins locking bolts.
4. Knock out the pivot pins. Use a mass hammer and a suitable knockout mandrel.
5. Configuration in reverse order. Make sure that the cylinder goes in the right direction.

4.2 Hydraulic cylinder seals replacement

1. Drain the oil from the cylinder.
2. Squeeze the cylinder firmly at its lower end into an upright position and open the muzzle using a cylinder tool.
3. Lift off the piston rod.
4. Remove the piston using a special tool. The piston is glued with a screw lock. You may have to heat it to open.
5. Check the order of the seals before disassembling and make sure you have the correct gasket set. Remove old seals.
6. Install the new seals in the correct orientation and order, lubricate them when installing.
7. Assemble the cylinder in reverse order.

