

This technical diagram illustrates the assembly of a mechanical component, likely a hydraulic cylinder or actuator, shown in an exploded view. The main assembly is a long, cylindrical body with various mounting points and internal components. Key parts are numbered as follows:

- 1**: A long, thin rod or shaft passing through the center of the assembly.
- 2**: A component at the top of the rod, possibly a piston or seal.
- 3**: A small, rectangular component, likely a seal or O-ring.
- 4**: A small, rectangular component, likely a seal or O-ring.
- 5**: A small, rectangular component, likely a seal or O-ring.
- 6**: A small, rectangular component, likely a seal or O-ring.
- 7**: A small, rectangular component, likely a seal or O-ring.
- 8**: A small, rectangular component, likely a seal or O-ring.
- 9**: A small, rectangular component, likely a seal or O-ring.
- 10**: A small, rectangular component, likely a seal or O-ring.
- 11**: A small, rectangular component, likely a seal or O-ring.
- 12**: A small, rectangular component, likely a seal or O-ring.
- 13**: A small, rectangular component, likely a seal or O-ring.
- 14**: A small, rectangular component, likely a seal or O-ring.
- 15**: A small, rectangular component, likely a seal or O-ring.
- 16**: A small, rectangular component, likely a seal or O-ring.
- 17**: A small, rectangular component, likely a seal or O-ring.
- 18**: A small, rectangular component, likely a seal or O-ring.
- 19**: A small, rectangular component, likely a seal or O-ring.
- 20**: A small, rectangular component, likely a seal or O-ring.
- 21**: A small, rectangular component, likely a seal or O-ring.
- 22**: A small, rectangular component, likely a seal or O-ring.
- 23**: A small, rectangular component, likely a seal or O-ring.
- 24**: A small, rectangular component, likely a seal or O-ring.
- 25**: A small, rectangular component, likely a seal or O-ring.

The diagram includes several callouts and assembly instructions:

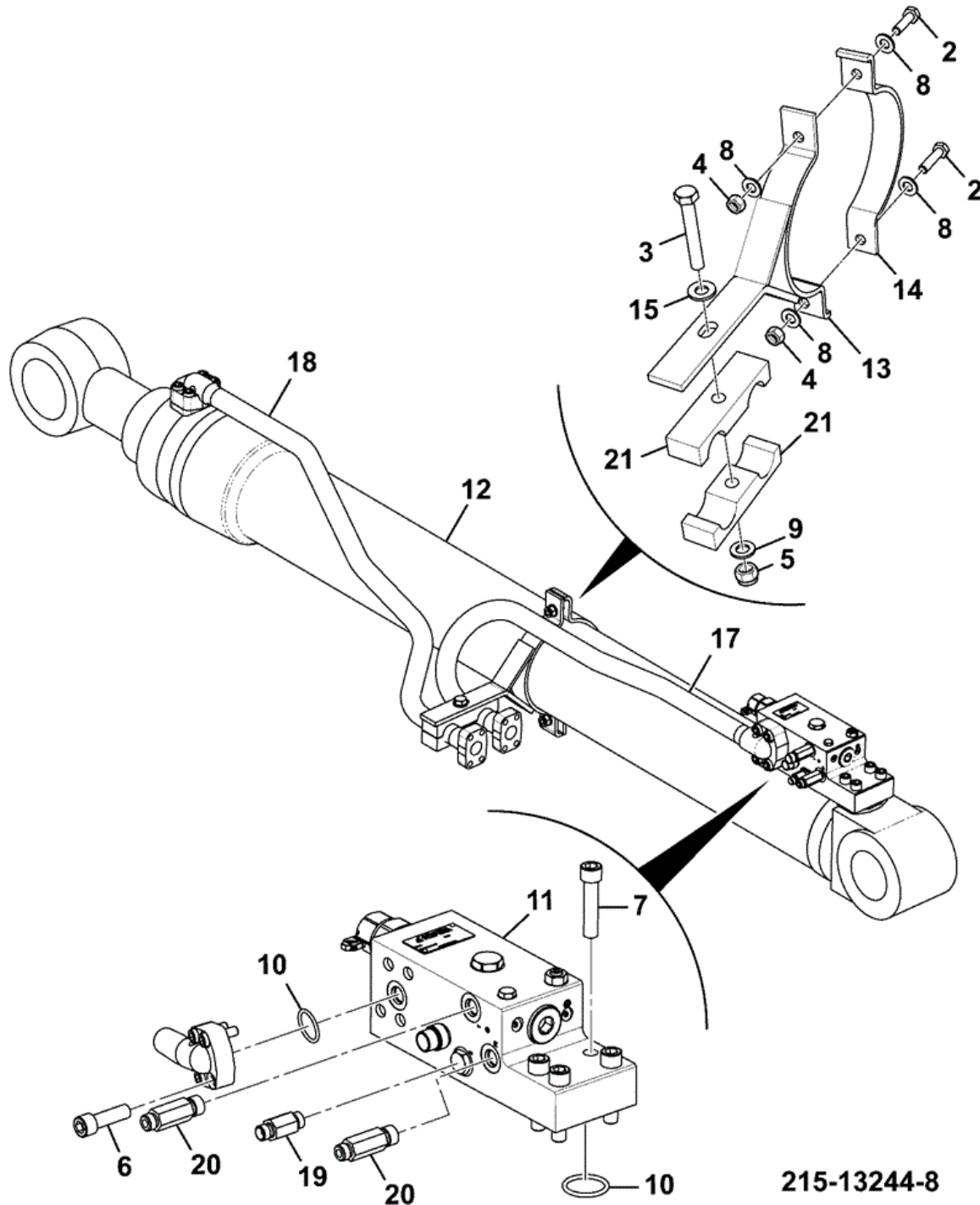
- Callout **1** points to the main rod assembly.
- Callout **2** points to the top of the rod.
- Callout **3** points to a seal on the rod.
- Callout **4** points to a seal on the rod.
- Callout **5** points to a seal on the rod.
- Callout **6** points to a seal on the rod.
- Callout **7** points to a seal on the rod.
- Callout **8** points to a seal on the rod.
- Callout **9** points to a seal on the rod.
- Callout **10** points to a seal on the rod.
- Callout **11** points to a seal on the rod.
- Callout **12** points to a seal on the rod.
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- Callout **16** points to a seal on the rod.
- Callout **17** points to a seal on the rod.
- Callout **18** points to a seal on the rod.
- Callout **19** points to a seal on the rod.
- Callout **20** points to a seal on the rod.
- Callout **21** points to a seal on the rod.
- Callout **22** points to a seal on the rod.
- Callout **23** points to a seal on the rod.
- Callout **24** points to a seal on the rod.
- Callout **25** points to a seal on the rod.

Item	Part #	Change No	Description	Usage Code	QTY
1	****		Assembly boom ram LH		1
2	****		Assembly boom ram RH		1
3	KNJ0759		Adapter		2

4	627/10075		Hose	1
5	1406/0011		Washer Bonded (1/4")	1
6	KBJ2480		Hose	1
7	1371/0701D		Nut Plain M20	8
8	1316/3827D		Bolt M20 x 170	2
9	1316/3828D		Bolt M20 x 180 Lg	2
10	811/90645		Pin pivot	1
11	1316/0507D		Setscrew M12 x 25 grade 10.9	2
12	JNV0838		Hose	2
13	JRJ0135		Hose 3/8	4
14	KHV0250		Collar	2
15	KSP0414		Shim plate 1.2mm thick	4
16	334/J3613		Pivot Pin, Cylinder End	2
17	701/80199		Switch pressure 222 bar	1
18	332/J7705		Shim OD140 ID102 1.2	2
19	1411/0005D		Washer	2
20	333/J9928		Bracket Support,Pipe	1
21	332/J9675		Adaptor 1/4" M/F Tee Adaptor	1
22	KHJ0341		Elbow 1/4 x 1/4	2
23	332/J9676		Adaptor 3/8" M/F Tee	2
24	332/K2242		Adapter	1
25	KHJ0342		Elbow 3/8 x 3/8	4



9822/0970 E460-5-1 RAMS BOOM ASSEMBLY HBCV, LH

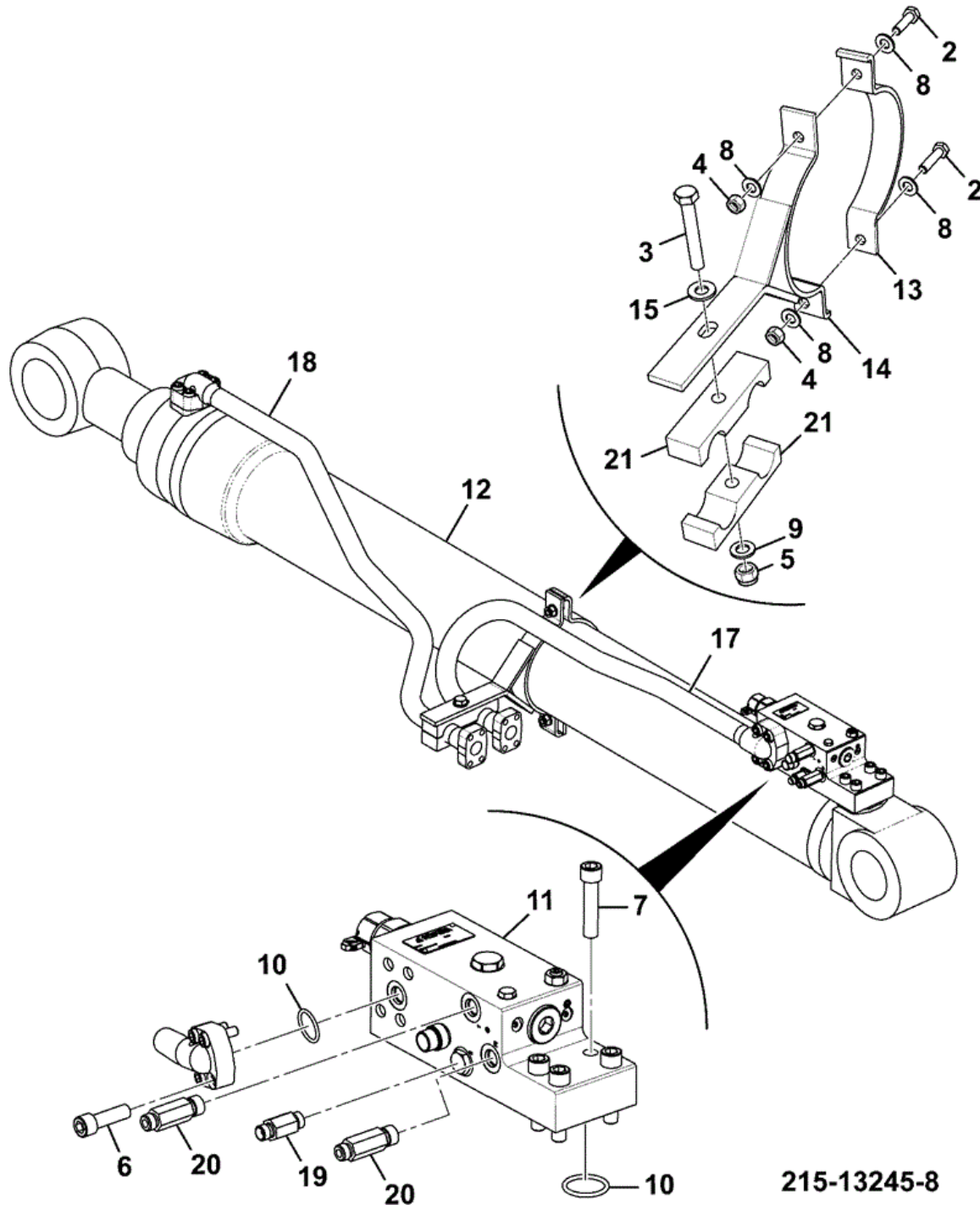


Item	Part #	Change No	Description	Usage Code	QTY
2	1316/3412D		Bolt Screw M10 X 50		2
3	1316/3518D		Bolt		1
4	1371/0303D		Nut M10 grade 10.9		2

5	1371/0403D		Nut		1
6	1391/3510D		Capscrew		8
7	1391/3513D		Capscrew		4
8	1420/0008D		Washer (M10)		4
9	1420/0009D		Washer (M12)		1
10	2409/0210		O Ring		3
11	333/J2948		Valve HBCV LH		1
12	332/K6825		Ram boom		1
13	333/J2902		Clamp		1
14	331/50023		Clamp cylinder		1
15	JHP0049		Washer		1
17	332/J0004		Pipe boom ram HBCV LH		1
18	332/J4876		Pipe left side boom HBCV cylinder rod end feed		1
19	JHV0215		Adapter		1
20	JHV0216		Adapter		2
21	KSJ0786		Clamp pipe		2



9822/0970 E460-10-1 RAMS BOOM ASSEMBLY HBCV, RH

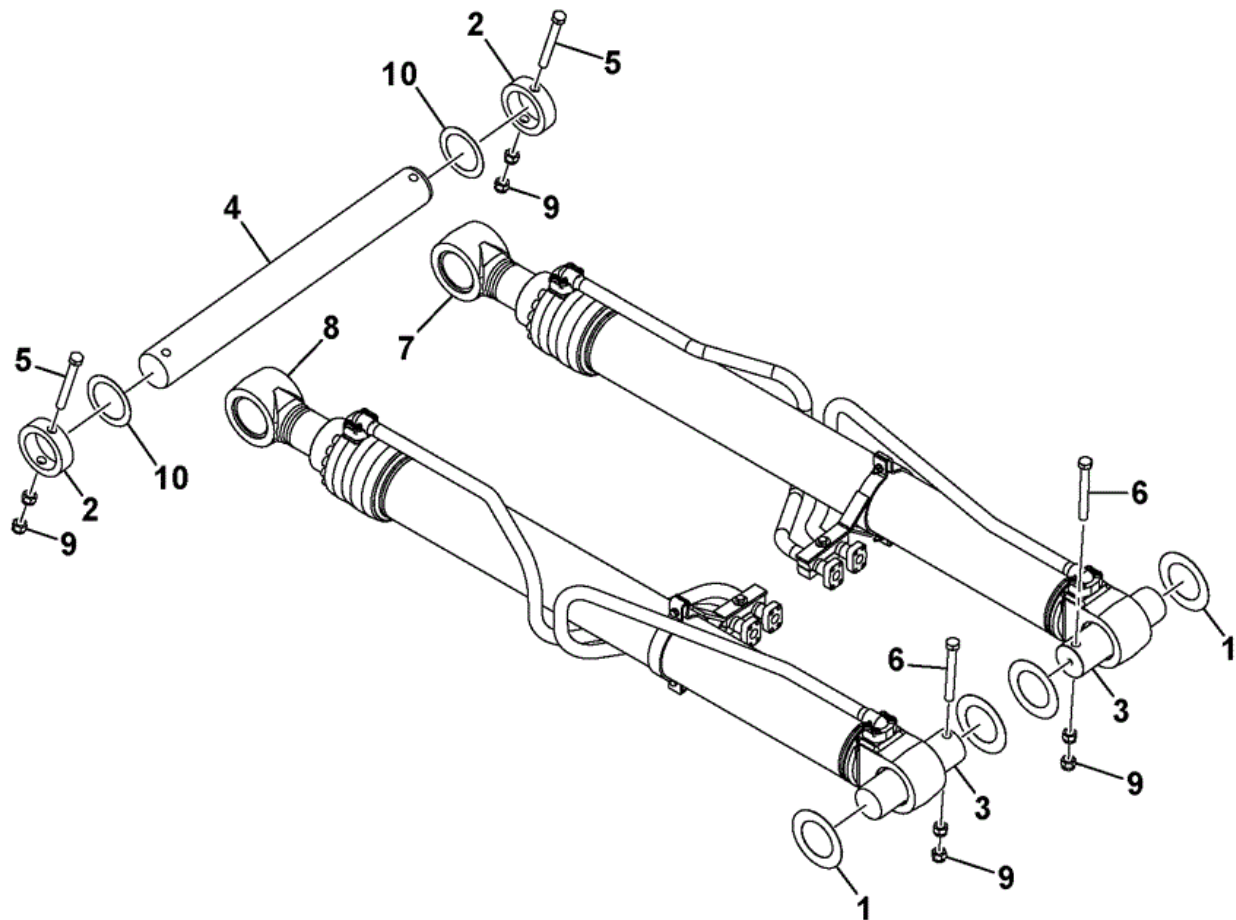


Item	Part #	Change No	Description	Usage Code	QTY
2	1316/3412D		Bolt Screw M10 X 50		2
3	1316/3518D		Bolt		1
4	1371/0303D		Nut M10 grade 10.9		2

5	1371/0403D		Nut		1
6	1391/3510D		Capscrew		8
7	1391/3513D		Capscrew		4
8	1420/0008D		Washer (M10)		4
9	1420/0009D		Washer (M12)		1
10	2409/0210		O Ring		3
11	333/J2963		Valve HBCV RH		1
12	332/K6825		Ram boom		1
13	331/50023		Clamp cylinder		1
14	333/J2902		Clamp		1
15	JHP0049		Washer		1
17	332/J0008		Pipe boom HBCV RH		1
18	332/J4877		Pipe boom ram HBCV right side		1
19	JHV0215		Adapter		1
20	JHV0216		Adapter		2
21	KSJ0786		Clamp pipe		2



9822/0970 E460-15-1 RAMS BOOM ASSEMBLY STD



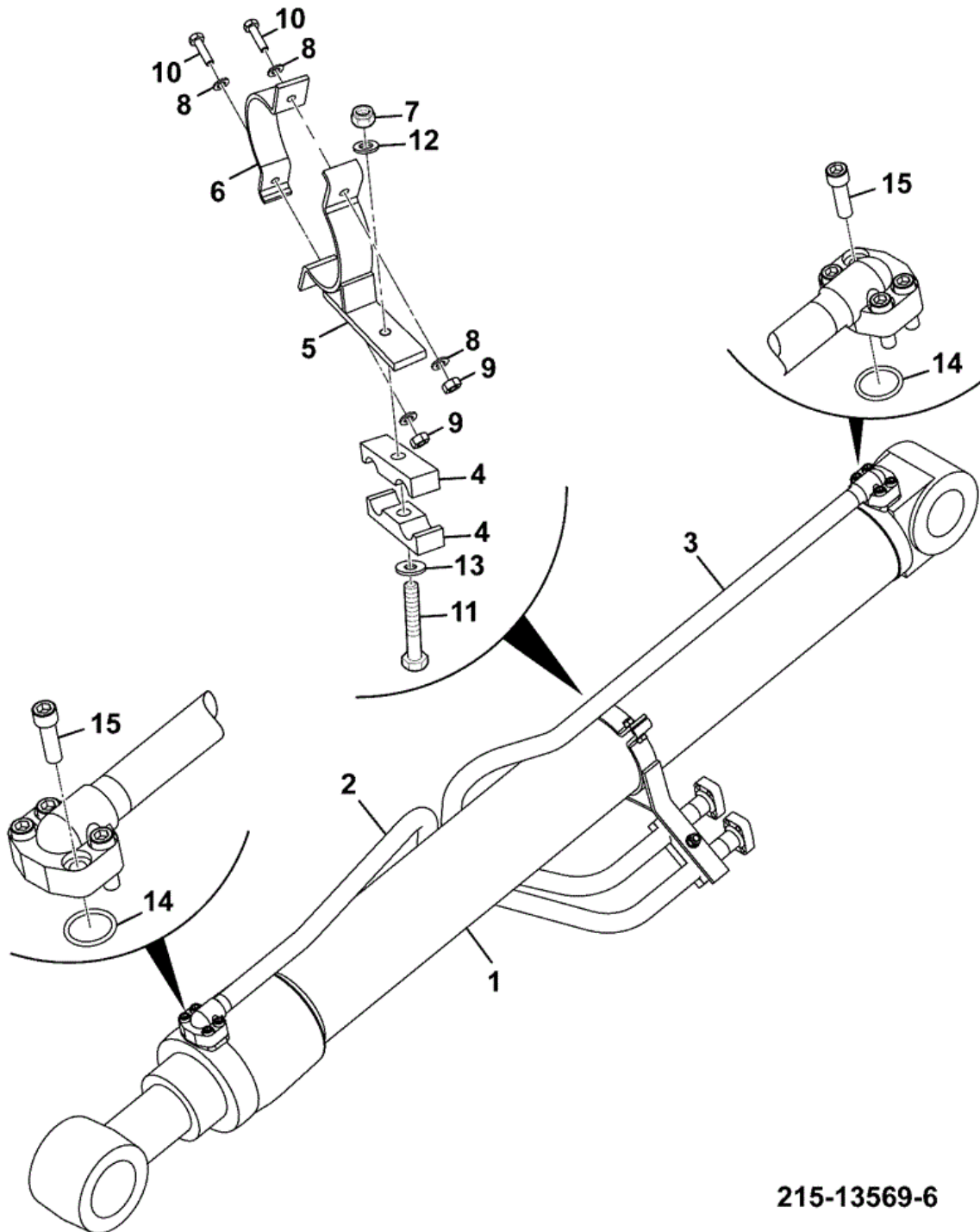
334-J3604-1

Item	Part #	Change No	Description	Usage Code	QTY
1	KSP0414		Shim plate 1.2mm thick		4
2	KHV0250		Collar		2
3	334/J3613		Pivot Pin, Cylinder End		2

4	811/90645		Pin pivot		1
5	1316/3828D		Bolt M20 x 180 Lg		2
6	1316/3827D		Bolt M20 x 170		2
7	****		Assembly boom ram RH		1
8	****		Assembly boom ram LH		1
9	1371/0701D		Nut Plain M20		8
10	332/J7705		Shim OD140 ID102 1.2		2



9822/0970 E460-20-1 RAMS BOOM ASSEMBLY STD, LH



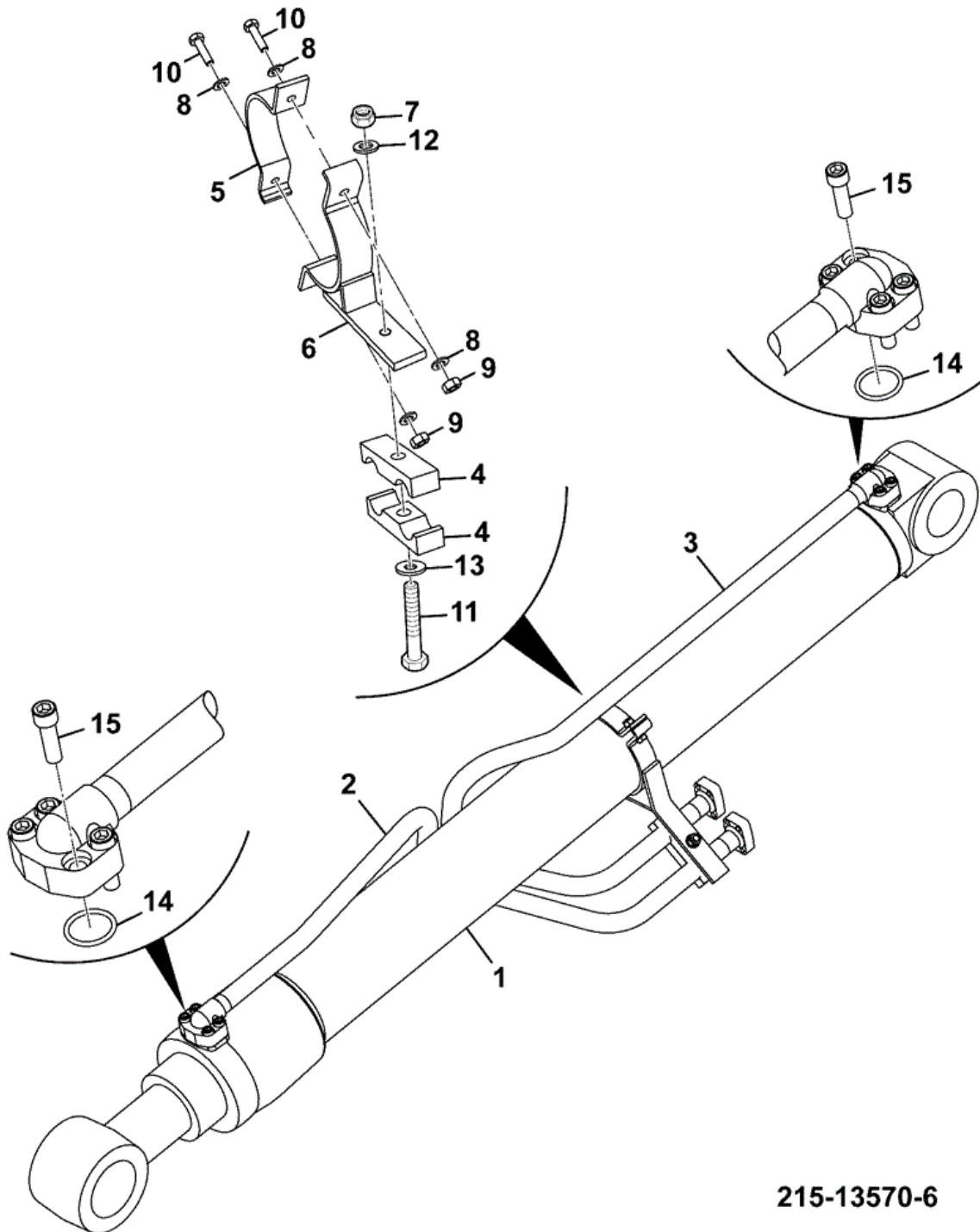
215-13569-6

Item	Part #	Change No	Description	Usage Code	QTY
1	332/K6825		Ram boom		1
2	332/J4876		Pipe left side boom HBCV cylinder rod end feed		1
3	332/J3470		Pipe left side boom cylinder dump end feed		1

4	KSJ0786		Clamp pipe		2
5	333/J2902		Clamp		1
6	331/50023		Clamp cylinder		1
7	1371/0403D		Nut		1
8	1420/0008D		Washer (M10)		4
9	1371/0303D		Nut M10 grade 10.9		2
10	1316/3412D		Bolt Screw M10 X 50		2
11	1316/3518D		Bolt		1
12	1420/0009D		Washer (M12)		1
13	JHP0049		Washer		1
14	2409/0210		O Ring		2
15	1391/3510D		Capscrew		8



9822/0970 E460-25-1 RAMS BOOM ASSEMBLY STD, RH



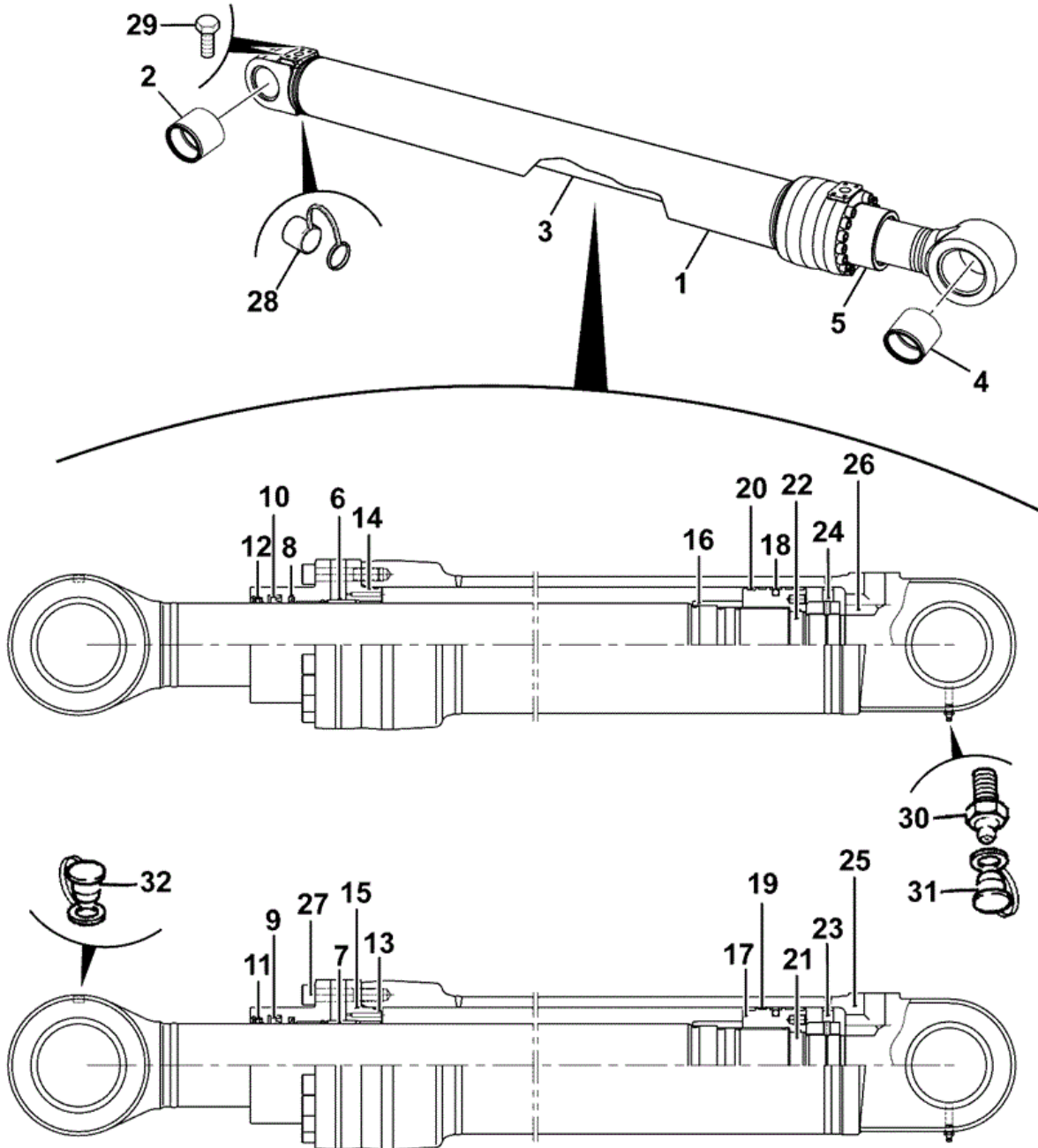
215-13570-6

Item	Part #	Change No	Description	Usage Code	QTY
1	332/K6825		Ram boom		1
2	332/J4877		Pipe boom ram HBCV right side		1
3	332/J3473		Pipe Boom right side		1

4	KSJ0786		Clamp pipe		2
5	331/50023		Clamp cylinder		1
6	333/J2902		Clamp		1
7	1371/0403D		Nut		1
8	1420/0008D		Washer (M10)		4
9	1371/0303D		Nut M10 grade 10.9		2
10	1316/3412D		Bolt Screw M10 X 50		2
11	1316/3518D		Bolt		1
12	1420/0009D		Washer (M12)		1
13	JHP0049		Washer		1
14	2409/0210		O Ring		2
15	1391/3510D		Capscrew		8



9822/0970 E460-30-1 RAMS BOOM COMPONENTS



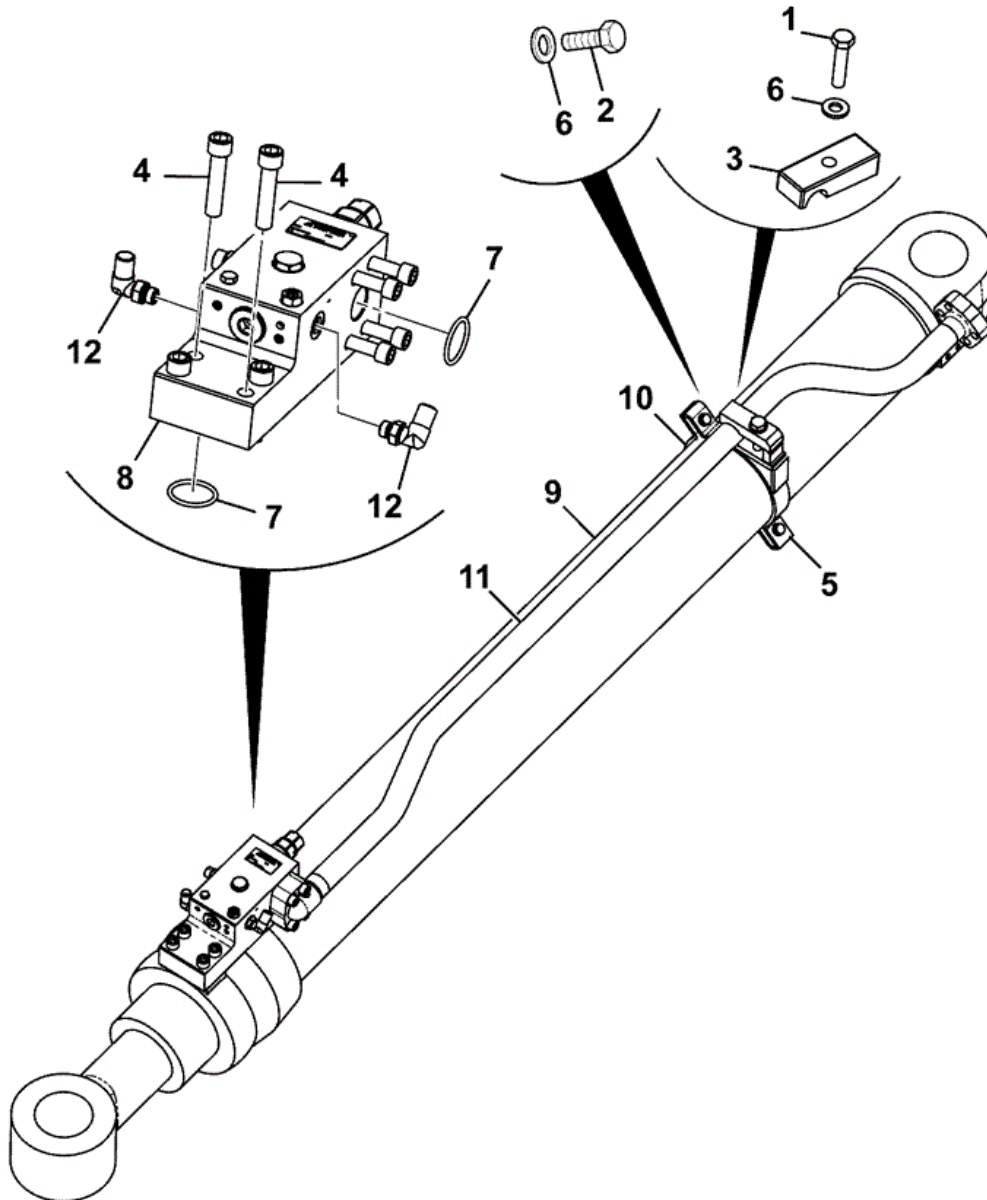
332-K6825-1

Item	Part #	Change No	Description	Usage Code	QTY
A	332/K6825		Ram boom		1
1	****		T.B.A		1
2	****		T.B.A		1

3	:334/D2423	Rod assembly	1
4	****	T.B.A	1
5	****	T.B.A	1
6	:333/C4995	Bush rod	1
7	:333/C4996	Ring retaining	1
8	****	None serviced part	1
9	****	None serviced part	1
10	****	None serviced part	1
11	****	None serviced part	1
12	:333/D4044	Ring retaining	1
13	****	None serviced part	1
14	****	None serviced part	1
15	****	None serviced part	1
16	:333/C4998	Ring cushion	1
17	:333/C4999	Piston	1
18	****	None serviced part	1
19	****	None serviced part	2
20	:332/H6490	Ring dust	2
21	:333/D4024	O Ring	1
22	:333/D4025	Ring back up	2
23	:333/C5000	Nut piston	1
24	:332/H5539	Setscrew	1
25	****	T.B.A	14
26	****	T.B.A	2
27	****	T.B.A	2
28	:333/C5002	Cover dust	2
29	:332/H5549	Bolt	8
30	:332/F4556	Nipple Grease	1
31	:332/F4558	Cap	1
32	:332/H5552	Cap	1
50	:333/E3760	Kit-seal <i>Includes parts 8 to 15 and 18 to 22</i>	1



9822/0970 E465-1-1 RAMS DIPPER ASSEMBLY HBCV



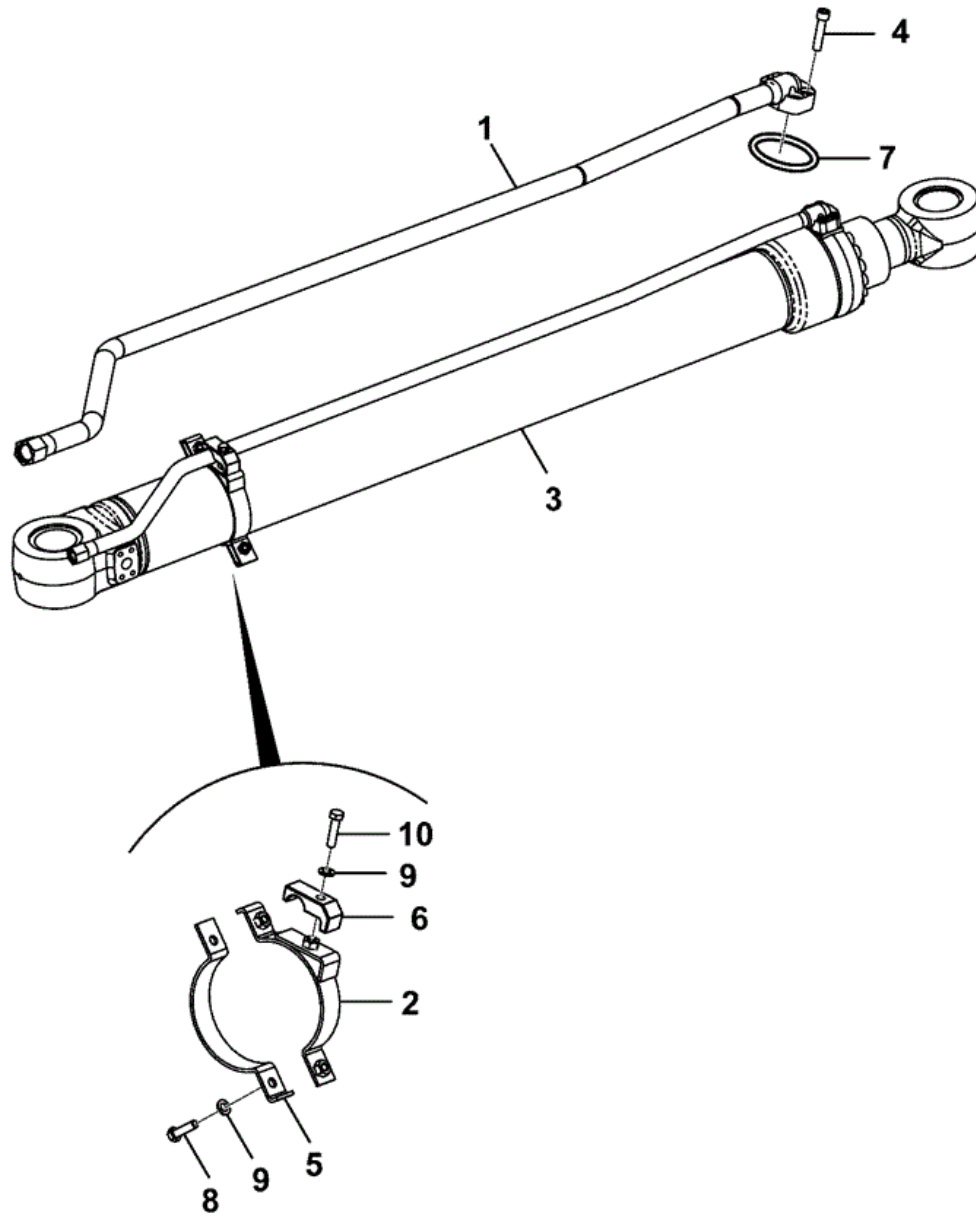
215-12976-8

Item	Part #	Change No	Description	Usage Code	QTY
1	1316/3512D		Bolt M12X50		1
2	1316/3511D		Bolt		2
3	332/K0358		Clamp Assembly Arm Cylinder		1

4	1391/3513D		Capscrew		8
5	JRJ0349		Clamp pipe		1
6	1420/0009D		Washer (M12)		3
7	2409/0210		O Ring		2
8	332/K7543		Valve HBCV arm		1
9	332/K6830		Ram arm JS290		1
10	332/K0373		Clamp		1
11	332/K7402		Pipe arm ram HBCV		1
12	JHJ0037		Adapter elbow 9/16UNF-3/8BSP		2



9822/0970 E465-5-1 RAMS DIPPER ASSEMBLY STD



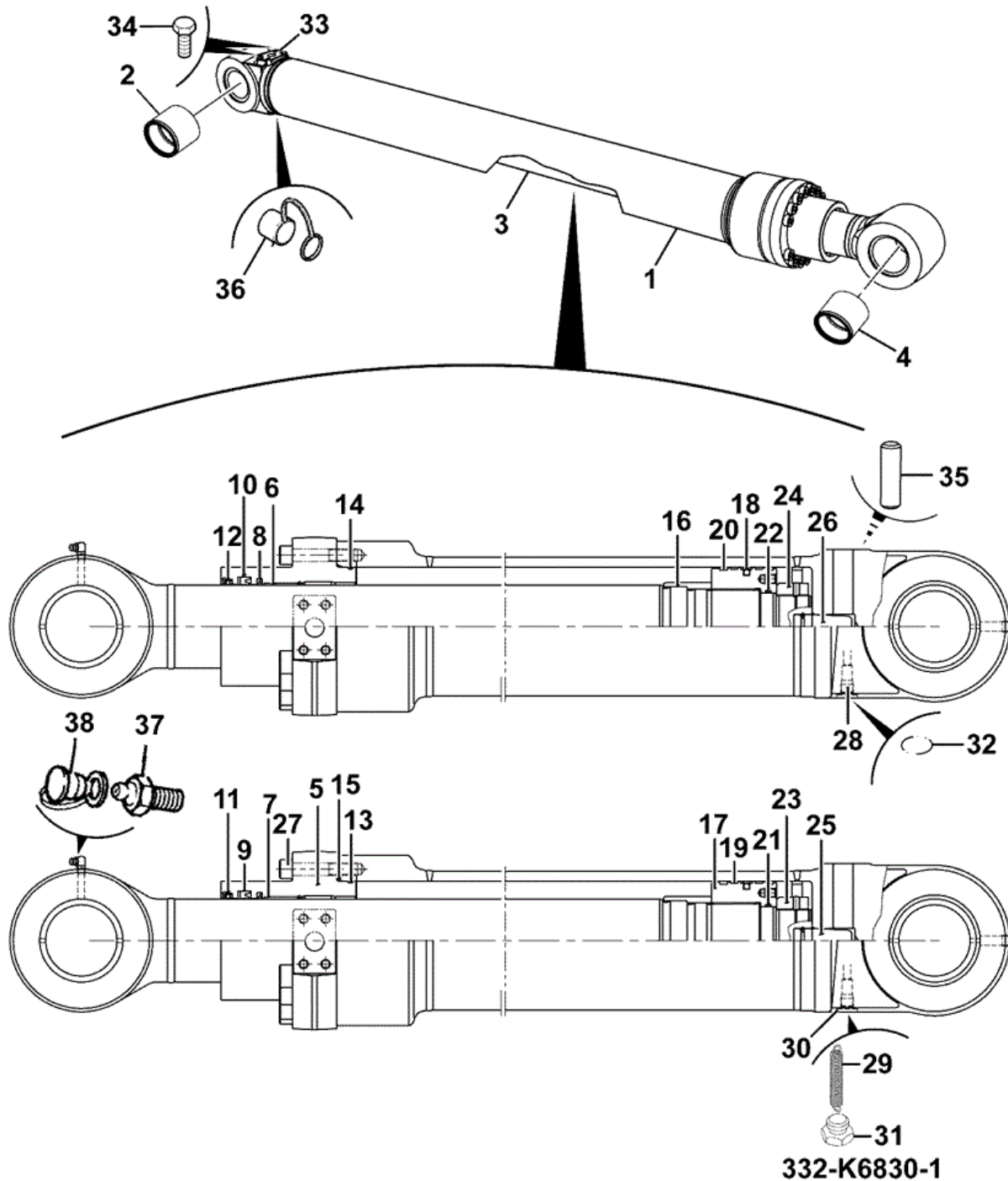
215-13567-6

Item	Part #	Change No	Description	Usage Code	QTY
1	332/K7369		Pipe arm		1
2	332/K0358		Clamp Assembly Arm Cylinder		1
3	332/K6830		Ram arm JS290		1

4	2409/0210		O Ring		1
5	332/K0373		Clamp		1
6	JRJ0349		Clamp pipe		1
7	1391/3510D		Capscrew		4
8	1316/3511D		Bolt		2
9	1420/0009D		Washer (M12)		3
10	1316/3512D		Bolt M12X50		1



9822/0970 E465-10-1 RAMS DIPPER COMPONENTS



Item	Part #	Change No	Description	Usage Code	QTY
A	332/K6830		Ram arm JS290		1
1	****		T.B.A		1
2	****		T.B.A		1

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