

CATERPILLAR VRG-20/2

CZC / SEBP3545

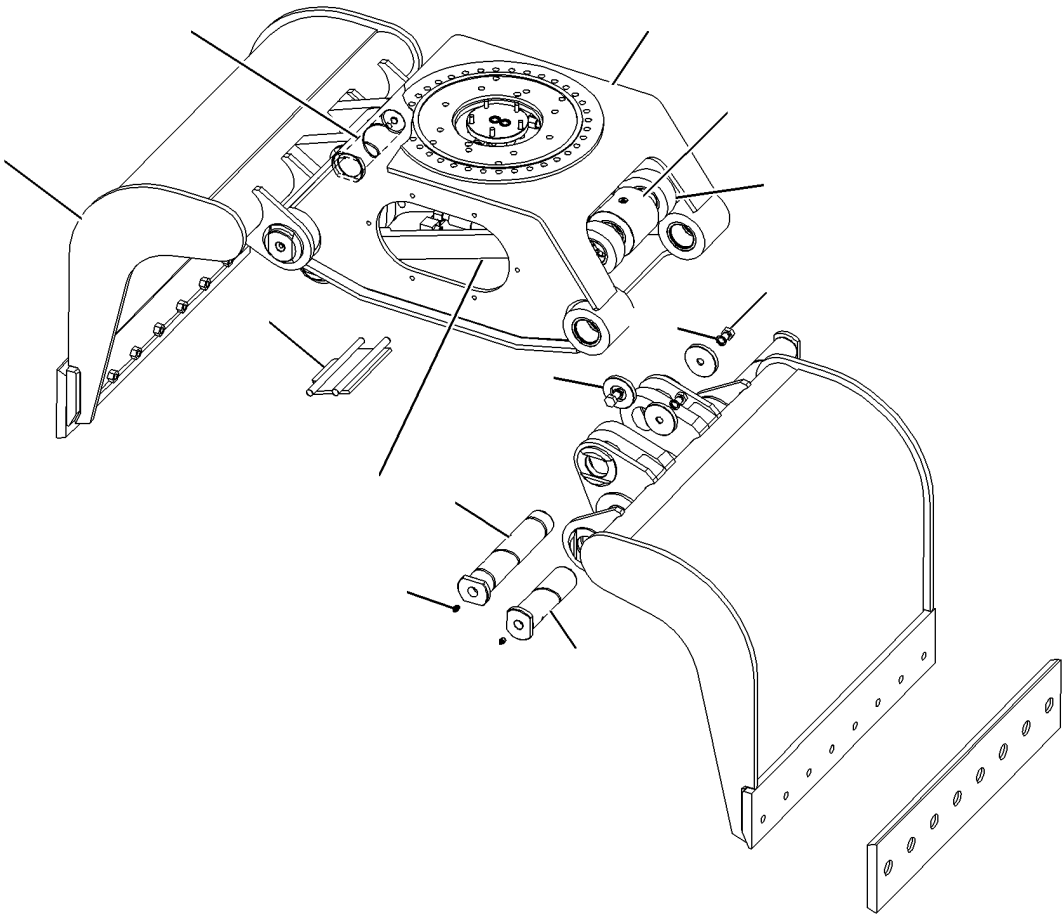
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220-8500 HOUSING & SHELL GP-GRAPPLE

220-8500 HOUSING & SHELL GP-GRAPPLE S/N CZC1-UP PART OF 220-8499 GRAPPLE GP

Drawing 1 of 1



Ref.	Part number	Description	Qty	Code	Group page
1	5W-2817	FITTING-GREASE	6		
2	220-8504	CYLINDER & LINES GP-GRAPPLE	1	Y	
3	221-2767	PIN	4		
4	221-2768	PIN	2		
5	222-4586	PIN	1		
6	222-4600	PLATE-LOCK	7		
7	223-1448	COVER AS	1		
8	225-8701	HOUSING GP-GRAPPLE	1	Y	
9	225-8702	LINKAGE GP-GRAPPLE (LH)	1		
	093-1433	SEAL-LIP TYPE	4		
	221-2766	BUSHING	2		
10	225-8703	LINKAGE GP-GRAPPLE (RH)	1		
	093-1433	SEAL-LIP TYPE			
	221-2766	BUSHING	2		

220-8500 HOUSING & SHELL GP-GRAPPLE (continued)

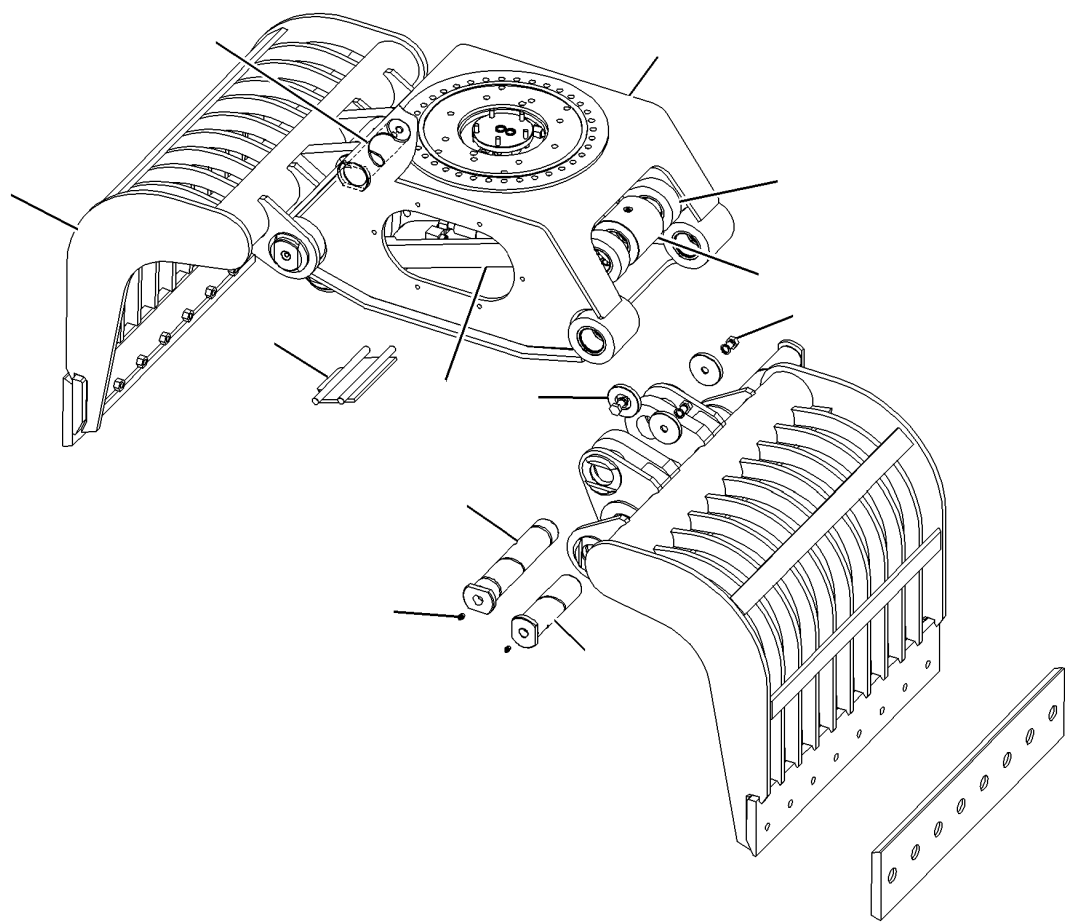
Ref.	Part number	Description	Qty	Code	Group page
11	235-7931	SHELL GP-GRAPPLE	1	Y	
12	159-1121	LOCKWASHER	7		
13	8T-4190	BOLT (M16X2X25-MM)	7	M	

CAT codes: M, Y.

220-8511 HOUSING & SHELL GP-GRAPPLE

220-8511 HOUSING & SHELL GP-GRAPPLE S/N CZC1-UP PART OF 220-8510 GRAPPLE GP

Drawing 1 of 1



Ref.	Part number	Description	Qty	Code	Group page
1	5W-2817	FITTING-GREASE	6		
2	220-8504	CYLINDER & LINES GP-GRAPPLE	1	Y	
3	221-2767	PIN	4		
4	221-2768	PIN	2		
5	222-4586	PIN	1		
6	222-4600	PLATE-LOCK	7		
7	223-1448	COVER AS	1		
8	225-8701	HOUSING GP-GRAPPLE	1	Y	
9	225-8702	LINKAGE GP-GRAPPLE (LH)	1		
	093-1433	SEAL-LIP TYPE	4		
	221-2766	BUSHING	2		
10	225-8703	LINKAGE GP-GRAPPLE (RH)	1		
	093-1433	SEAL-LIP TYPE	4		
	221-2766	BUSHING	2		

220-8511 HOUSING & SHELL GP-GRAPPLE (continued)

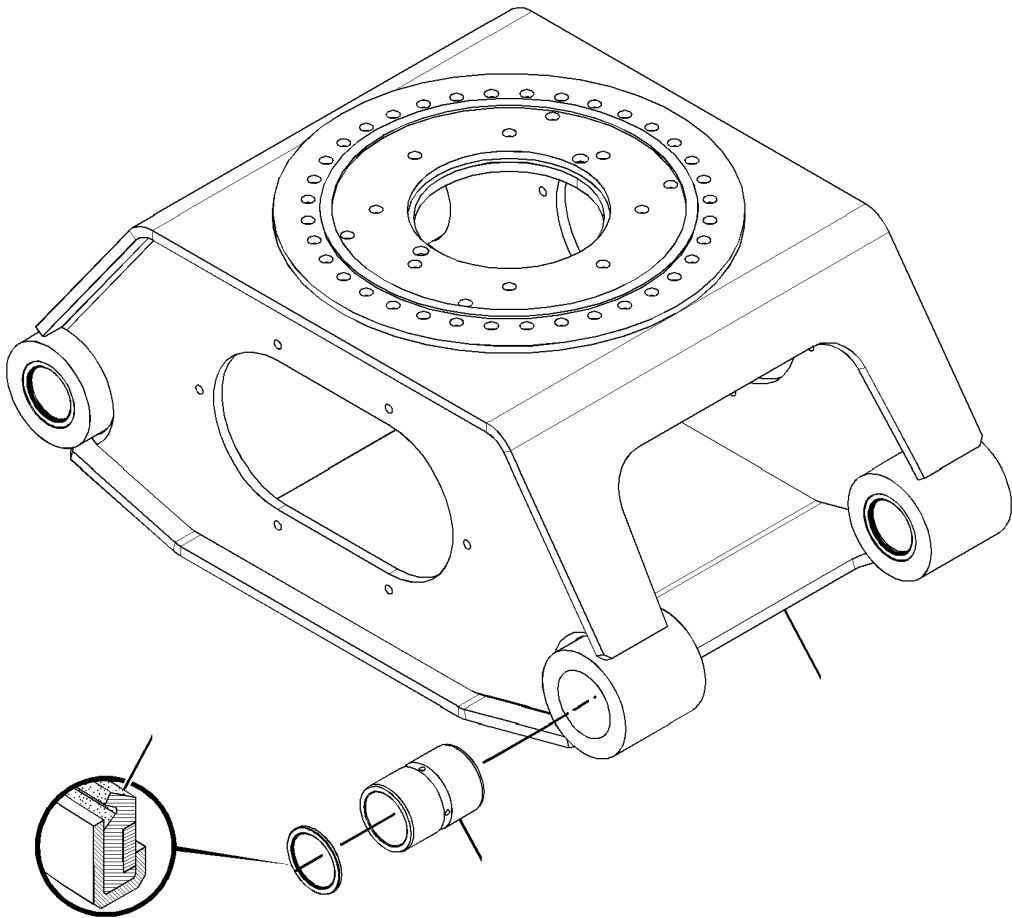
Ref.	Part number	Description	Qty	Code	Group page
11	235-7932	SHELL GP-GRAPPLE	1	Y	
12	159-1121	LOCKWASHER	7		
13	8T-4190	BOLT (M16X2X25-MM)	7	M	

CAT codes: M, Y.

225-8701 HOUSING GP-GRAPPLE

225-8701 HOUSING GP-GRAPPLE S/N CZC1-UP PART OF 220-8500, 220-8511 HOUSING & SHELL GP-GRAPPLE

Drawing 1 of 1



Ref.	Part number	Description	Qty	Code	Group page
1	093-1433	SEAL-LIP TYPE	8		
2	220-8501	HOUSING AS	1		
3	225-5338	BUSHING	4		

255-2308 CHART-CONNECTING LINES

255-2308 CHART-CONNECTING LINES S/N CZC1-UP; G8S1-UP

Drawing 1 of 1

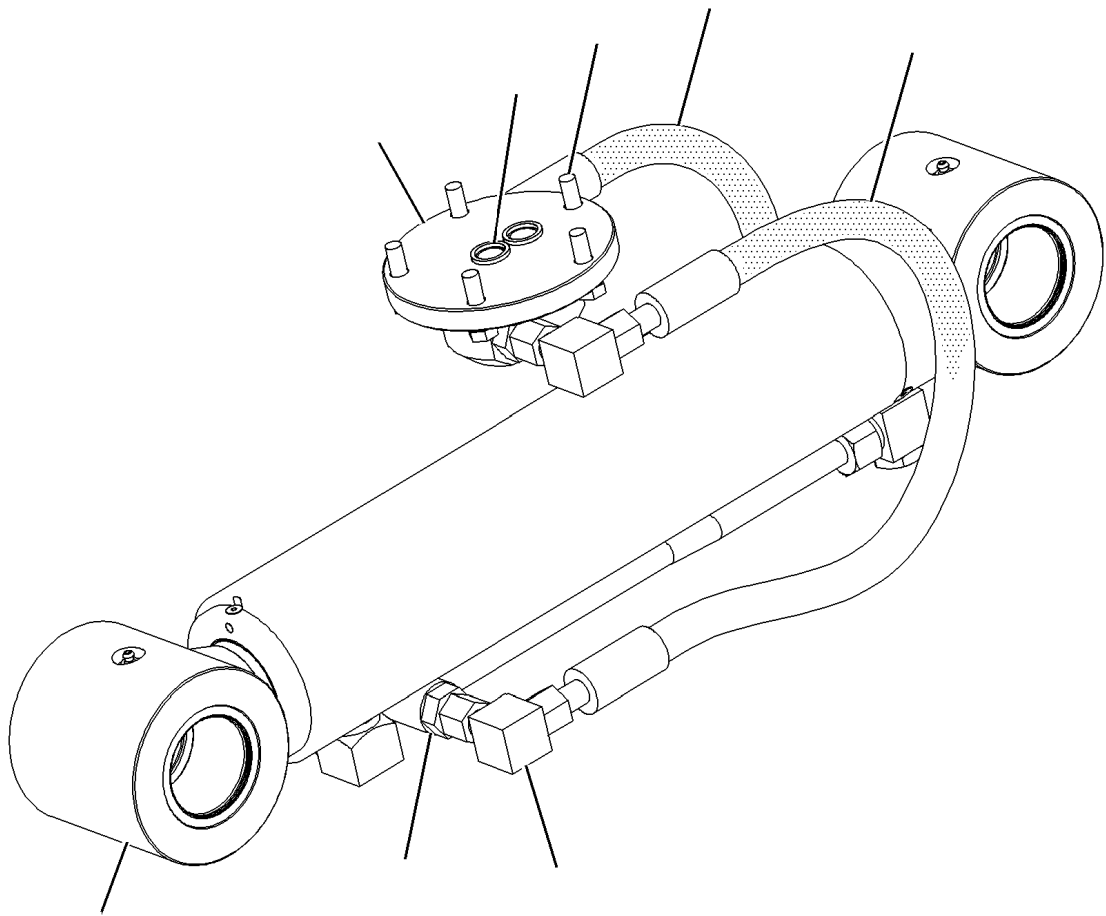
TOOL	MACHINE	LINES GP	FITTING GP			
			-3146	-3147	-3148	-3149
VRG-	M313C	-3141	X	X		
	M315C		X	X		
	M316C		X	X		
	312C	-3142	X			
	315C		X			

Ref.	Part number	Description	Qty	Code	Group page
(PLEASE REFER TO CHART)					

220-8504 CYLINDER & LINES GP-GRAPPLE

220-8504 CYLINDER & LINES GP-GRAPPLE S/N CZC1-UP PART OF 220-8500, 220-8511 HOUSING & SHELL GP-GRAPPLE

Drawing 1 of 1



Ref.	Part number	Description	Qty	Code	Group page
1	197-7334	SEAL	2		
2	223-5817	BLOCK-HYDRAULIC	1		
3	224-0189	CYLINDER GP-HYDRAULIC (GRAPPLE)	1	Y	
4	224-0191	HOSE AS	2	I	
5	148-8370	ELBOW AS	4		
(EACH INCLUDES)					
	6V-8398	SEAL-O-RING	1		
	6V-9851	ELBOW	1		
6	155-8994	ADAPTER AS	4		
(EACH INCLUDES)					
	6V-8398	SEAL-O-RING	1		

220-8504 CYLINDER & LINES GP-GRAPPLE (continued)

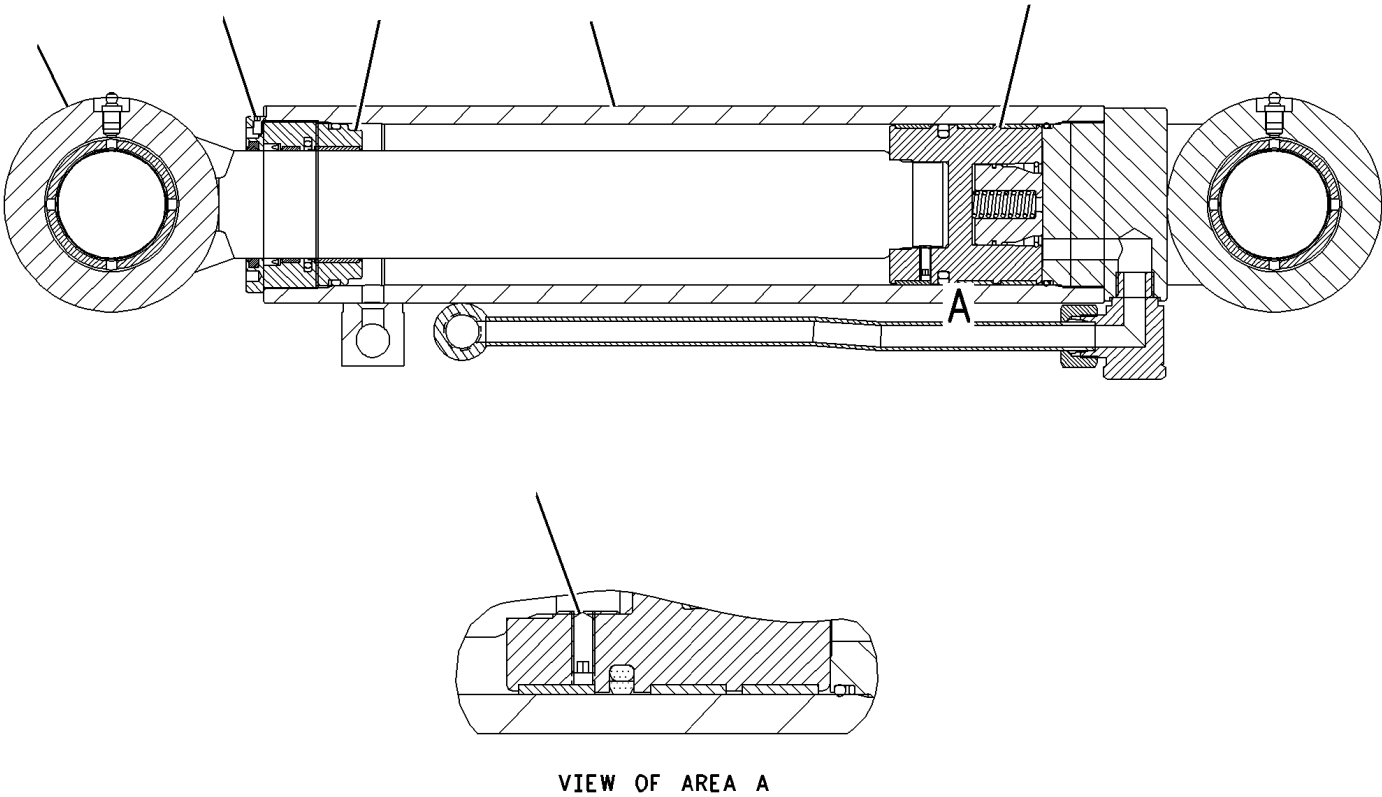
Ref.	Part number	Description	Qty	Code	Group page
	155-9644	SEAL	1		
7	159-1118	LOCKWASHER	5		
8	8T-4196	BOLT (M10X1.5X35-MM)	5	M	

CAT codes: I, M, Y.

224-0189 CYLINDER GP-HYDRAULIC

224-0189 CYLINDER GP-HYDRAULIC S/N CZC1-UP; G8S1-UP 90MM (3.54 IN) BORE X 300MM (11.81 IN) STROKE PART OF 220-8504, 288-1391 CYLINDER & LINES GP-GRAPPLE

Drawing 1 of 1



Ref.	Part number	Description	Qty	Code	Group	page
1	229-8529	CYLINDER GP-HYDRAULIC	1	Y		
2	229-8530	ROD GP-HYDRAULIC CYLINDER	1			
	5W-2817	FITTING-GREASE	1			
	093-1433	SEAL-LIP TYPE	2			
	225-5338	BUSHING	1			
	231-4453	ROD AS	1			
3	229-8532	HEAD	1			
4	236-0954	KIT-PISTON	1			
5	230-8991	SETSCREW (M6X1-THD)	1			
6	230-8992	SCREW	1			
AVAILABLE REPAIR KIT(S):						
	225-4031	KIT-SEAL	1			
(INCLUDES SEALS)						

CAT codes: Y.

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