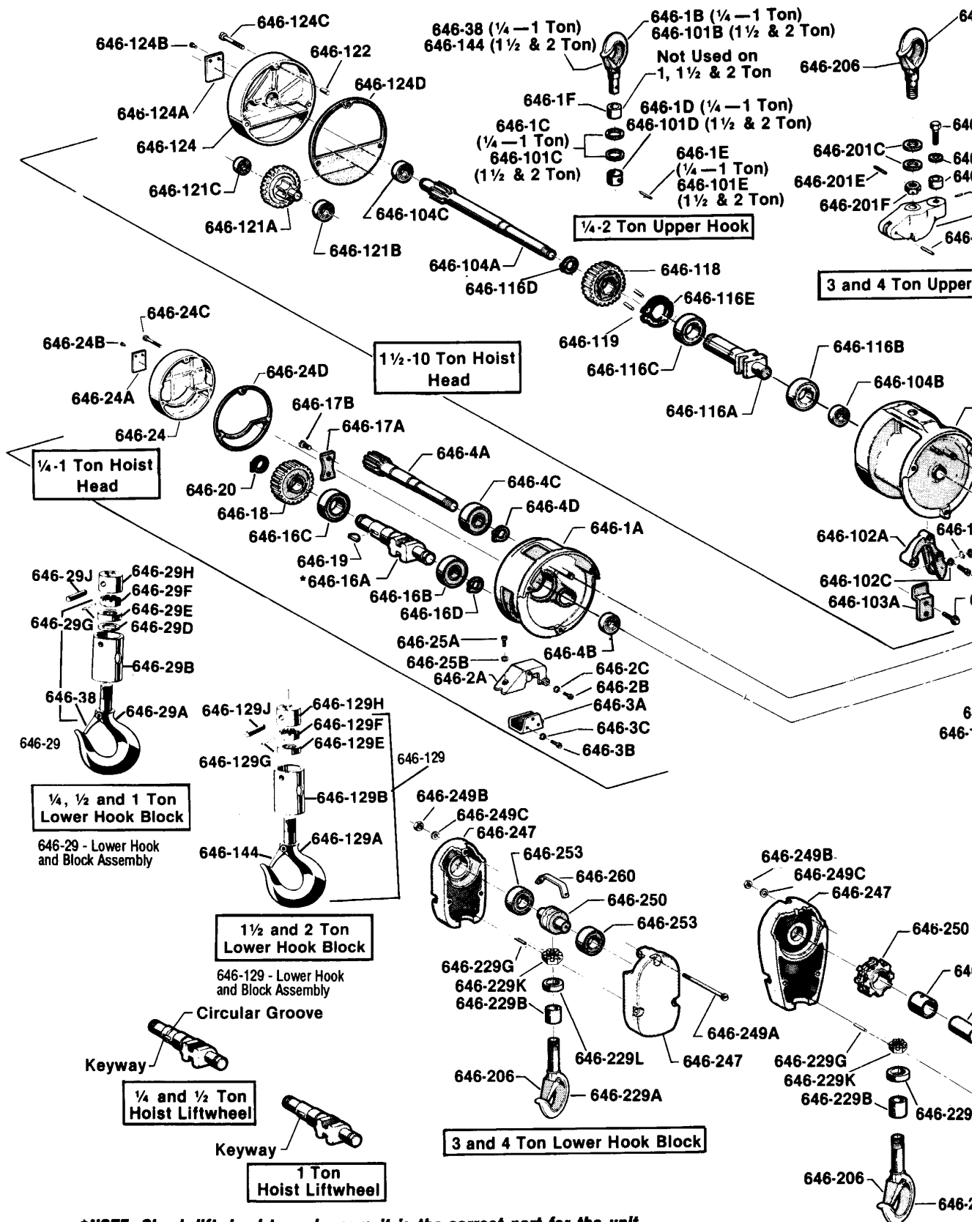


## Cyclone Hand Hoist Parts List



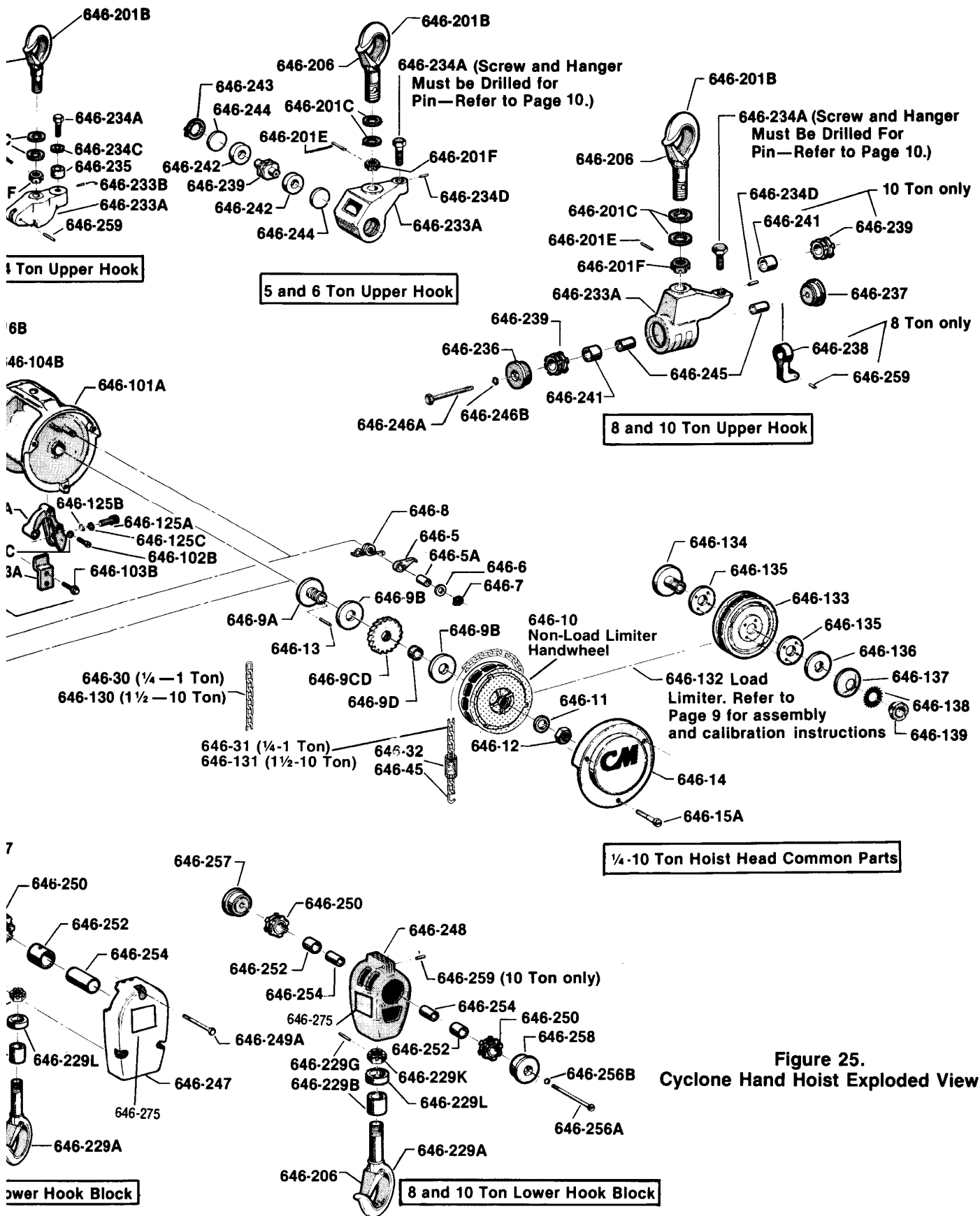


Figure 25.  
Cyclone Hand Hoist Exploded View

Key No.	No. Req'd	Part Name	Capacity - Ton					
			¼&½	1	1½&2	3&4	5&6	8&10
			Part Number					
646-1	1	Frame with Upper Hook (Includes Items 646-1A thru 646-1F and 646-15)-Not Shown	C701	C702	-			
646-1A	1	Frame	45612		-			
646-1B	1	Upper Hook (includes Latch)-Latch Type	45601	45602	-			
646-1B	1	Upper Hook-Latchlok Type	1020	1022	-			
646-1C	2	Upper Hook Washer	45930		-			
646-1D	1	Upper Hook Collar	41350	27359	-			
646-1E	1	Upper Hook Collar Pin	45940	45941	-			
646-1F	1	Upper Hook Sleeve	45390	-	-			
646-2A	1	Load Chain Guide	45047	45048	-			
646-2B	2	Load Chain Guide Screw	945807		-			
646-2C	2	Load Chain Guide Screw L.W.	945851		-			
646-3A	1	Stripper	45043		-			
646-3B	3	Stripper Screw	983745		-			
646-3C	1	Stripper Screw L.W.	940830		-			
646-4	1	Handwheel Shaft and Pinion with Bearings (Items 646-4A thru 646-4D)-Not Shown	C703	C704	-			
646-4A	1	Handwheel Shaft and Pinion	45353	45354	-			
646-4B	1	Pinion Shaft Bearing (Handwheel End)	88437		-			
646-4C	1	Pinion Shaft Bearing (Gear End)	88444		-			
646-4D	1	Handwheel Shaft Snap Hing	45873		-			
646-5	1	Pawl	45038					

646-5A	1	Pawl Bushing	45735		
646-6	1	Pawl Retaining Washer	45910		
646-7	1	Pawl Stud Snap Ring	45767		
646-8	1	Pawl Spring	45730		
646-9	1	Brake Assembly (Items 646-9A, 646-9B and 646-9CD)-Not Shown	C705		
646-9A	1	Friction Hub	45007		
646-9B	2	Friction Washer	45741 FOR UNITS WITH LOAD LIMITER, 45831 FOR UNITS WITHOUT LOAD LIMITER		
646-9CD	1	Ratchet with Bushing	45614		
646-9D	1	Ratchet Bushing	45718		
646-10	1	Non-Load Limiter Handwheel	46699		
646-11	1	Handwheel Shaft Nut Washer	45915		
646-12	1	Handwheel Shaft Nut	931717		
646-13	1	Friction Hub Key	45770		
646-14	1	Handwheel Cover	46005		
646-15	1	Operating Instruction Label (See Page 16)-Not Shown	946900		
646-15A	3	Handwheel Cover Screw	982698		
646-16	1	Liftwheel with Bearings (Items 646-16A thru 646-16D)-Not Shown	C706	C707	-
646-16A	1	Liftwheel	45364	45365	-
646-16B	1	Liftwheel Bearing (Handwheel End)	88489		-
646-16C	1	Liftwheel Bearing (Gear End)	88429		-
646-16D	1	Liftwheel Snap Ring	45871		-
646-17A	1	Frame Bearing Retainer	45750		-
646-17B	2	Frame Bearing Retainer Screw	987716		-
646-18	1	Liftwheel Gear	45061	45060	-

646-19	1	Liftwheel Gear Key	989101		-
646-20	1	Liftwheel Gear Snap Ring	68703		-
646-24	1	Gear Cover with Capacity Insert	C708 for 1/4 ton, C721 for 1/2 ton and C722 FOR 1 ton		-
646-24A	1	Capacity Insert	46705 (1/4 ton) 46706 (1/2 ton) 46707 (1 ton)		-
646-24B	2	Capacity Insert Pin	988271		
646-24C	3	Gear Cover Screw	987322		-
646-24D	1	Gear Cover Gasket	45745		-
646-25A	1	Loose End Screw	946801		-
646-25B	1	Loose End Screw Washer	954807		-
646-29	1	Lower Hook and Block Assembly-Latch Type Hook	28681	45668	-
646-29A	1	Lower Hook with Latch-Latch Type Hook	28686	35611	-
646-29A	1	Lower Hook-Latchlok Type Hook	1051		-
646-29B	1	Hook Block Body	45401		-
646-29D	1	Lower Hook Washer	945921		-
646-29E	1	Lower Hook Thrust Bearing	88485		-
646-29F	1	Lower Hook Nut	982526		-
646-29G	1	Lower Hook Nut Pin	983772		-
646-29H	1	Lower Hook Chain Block	28007	45016	-
646-29J	1	Hook Block Pin	45943		-
646-30	1	Load Chain (Specify Lift or Length Req'd.)	85839	85841	-
646-31	1	Hand Chain (Specify Lift or Length Req'd.)	85808		-
646-32	1	Warning Tube	946735		
646-38	2	Latch Kit	45661	45662	-
646-45	1	Hand Chain Connecting Link	945490		

646-101	1	Frame with Upper Hook (Includes Items 646-101A thru 646-101 E and 646- 15-Not Shown	-	C730	-
646-101A	1	Frame	-	45613	
646-101B	1	Upper Hook (Includes Latch) Latch type	-	45604	-
646-101B	1	Upper Hook-Latchtok type	-	1023	-
646-101C	2	Upper Hook Washer	-	45918	-
646-101D	1	Upper Hook Collar	-	35478	-
646-101E	1	Upper Hook Collar Kin	-	45946	-
646-102A	1	Load Chain Guide	-	45049	
646-102B	3	Load Chain Guide Screw	-	945815	
646-102C	3	Load Chain Guide Screw L.W.	-	45852	
646-103A	1	Stripper	-	45420	
646-103B	2	Stripper Screw	-	982709	
646-104	1	Handwheel Shaft and Pinion with Bearings (Items 646-104A, 646- 104B and 646-104C)-Not Shown	-	C710 for 1/2 & 3 Ton, C711 2, 4, 5, 6, 8 & 10 Ton	
646-104A	1	Handwheel Shaft and Pinion	-	45355 for 1 1/2 & 3 Ton, 45356 for 2, 4, 5, 6, 8 & 10 Ton	
646-104B	1	Handwheel Shaft Bearing (Handwheel) End)	-	88437	
646-104C	1	Handwheel Shaft Bearing (Pinion End)	-	83671	
646-116	1	Liftwheel with Bearings (Items 646-116A thru 646- 116E)-Not Shown	-	C712	
646-116A	1	Liftwheel	-	45057	
646-116B	1	Liftwheel Bearing (Handwheel End)	-	88445	
646-116C	1	Liftwheel Bearing (Gear End)	-	83669	
646-116D	1	Liftwheel Snap Ring	-	45766	
646-116E	1	Liftwheel Bearing Retaining Ring (Gear End)	-	46800	

646-118	1	Liftwheel Gear	-	45008	
646-119	2	Liftwheel Dowell Pin	-	45771	
646-121	1	Intermediate Gear and Pinion with Bearings (Items 646-121A, 646-121B and 646-121C)-Not Shown	-	C713 For 1 1/2 & 3 Ton, C714 for 2, 4, 5, 6, 8 & 10 Ton	
646-121A	1	Intermediate Gear & Pinion	-	45014 for IVz & 3 Ton (7 & 45 Teeth) 45015 for 2, 4, 5, 6, 8 & 10 Ton (7 & 47 Teeth)	
646-121 B	1	Intermediate Gear Bearing (Pinion End)	-	83682	
646-121C	1	Intermediate Gear Bearing (Cover End)	-	88437	
646-122	2	Gear Cover Dowel	-	46730	
646-124	1	Gear Cover with Capacity Insert	-	C715 for 1 1/2 ton. C723 for 2 ton, C724 for 3 ton, C725 for 4 ton, C726 for 5 ton, C727 for 6 ton, C728 for 8 ton and C729 for 10 ton	
646-124A	1	Capacity Insert	-	46708 (1 1/2 ton), 46709 (2 ton), 46710 (3 ton) 46711 (4 ton), 46712 (5 ton), 46713 (6 ton), 46714 (8 ton), 46715 (10 ton)	
646-124B	2	Capacity Insert Pin	-	988271	
646-124C	3	Gear Cover Screw	-	983732	
646-124D	1	Gear Cover Gasket	-	46704	
646-125A	1	Loose End Screw	-	945815	
646-125B	1	Loose End Screw L.W.	-	945852	
646-125C	1	Loose End Screw Washer	-	954806	
646-129	1	Lower Hook and Block Assembly-Latch Type Hook	-	45669	-
646-129A	1	Lower Hook with Latch-Latch Type Hook	-	45603	-
646-129A	1	Lower Hook-Latchlok Type Hook	-	1024	-
646-129B	1	Hook Block Body	-	45399	-
646-129E	1	Lower Hook Thrust Bearing	-	88505	-
646-129F	1	Lower Hook Nut	-	45382	-
646-129G	1	Lower Hook Nut Pin	-	983779	-

646-129H	1	Lower Hook Chain Block	-	45017	-	
646-129J	1	Hook Block Pin	-	45948	-	
646-130	1	Load Chain (Specify Lift or Length Req'd.)	-		85864	
646-131	1	Hand Chain (Specify Lift or Length Req'd.)	-		85808	
646-132	1	Load Limiter Complete	44602 for 1/4 Ton , 44601 for 1/2 Ton, 44600 for 1 thru 10 Ton			
646-133	1	Handwheel Sub-Assembly		45675		
646-134	1	Load Limiter Hub		45012		
646-135	2	Friction Washer		45886		
646-136	1	Steel Washer		45032		
646-137	1	Spring Washer		45888		
646-138	1	Lockwasher		45033		
646-139	1	Nut		45737		
646-144	2	Latch Kit	-	45663	-	
646-201B	1	Upper Hook (includes Latch)-Latch Type	-	45607	45606(5T.) 40607(6T.)	45609
646-201B	1	Upper Hook- Latchlok Type	-	1025	1027	1028
646-201C	2	Upper Hook Washer	-		40736	988005
646-201E	1	Upper Hook Nut Pin	-		983787	983788
646-201F	1	Upper Hook Nut	-		940834	945836
646-206	2	Latch Kit	-	45664	45664(5T.) 45665(6T.)	45697
646-229	1	Lower Hook Block Assembly-Not Shown	-		45670 for 3 Ton, 45615 tor 4 Ton, 45616 for 5 Ton, 45617 for 6 Ton 45618 for 8 Ton, 45619 for 10 Ton	
646-229A	1	Lower Hook (Includes Latch)-Latch Type	-	45605	45606(5T.) 40607(6T.)	45609
646-229A	1	Lower Hook-Latchlok Type	-	1026	1027	1028
646-229B	1	Lower Hook Sleeve	-	45394	45393	45410
646-229G	1	Lower Hook Pin	-		983787	983788
646-229K	1	Lower Hook Nut	-		940834	945836
646-229L	1	Lower Hook Thrust Bearing	-		88507	88511



646-233A	1	Hoist Hanger (Also order 646-234A and 646-234B OR 646-234D as applicable)	-	45090	45091	45094
646-233B	1	Hoist Hanger Set Screw	-	986304	-	
646-234A	1	Hoist Hanger Screw (Also order 646-234B or 646-234D as applicable)	-	987223	987179	
646-234C	1	Hoist Hanger Screw Washer	-	945916	-	
646-234D	1	Hoist Hanger Screw Pin	-		983789	
646-235	1	Hoist Hanger Screw Sleeve	-	45391	-	
646-236	1	Hoist Hanger Sheave Cap (Tapped)	-			45123
646-237	1	Hoist Hanger Sheave Cap (Drilled)	-			45124
646-238	1	Hoist Hanger Chain Anchor	-			45134(8T.)
646-239	1or2	Hoist Hanger Sheave	-		45085	45106
646-241	1or2	Hoist Hanger Bearing	-			88542
646-242	2	Hoist Hanger Sheave Bearing	-		83670	-
646-243	1	Hoist Hanger Snap hing	-		45765	-
646-244	2	Hoist Hanger bearing retainer	-		45151	-
646-245	2	Hoist Hanger Sheave Shaft	-			45425
646-246A	1	Hoist Hanger Sheave Shaft Bolt	-			89411
646-246B	1	Hoist Hanger Sheave Shaft Bolt L.W.	-			987919
646-247	2	Lower Hook Block (Also order capacity Insert 646-275)	~	45107(3T.) 45096(4T.)	45101	-
646-248	1	Lower Hook Block Body (Also order Capacity insert 646-275)	-			45104(8T.) 45104(10T.)
646-249A	3	Lower Hook Block Screw	-	945796	45812	-
646-249B	3	Hook Block Screw Nut	-	945820	945822	-

646-249C	3	Hook Block Screw L.W.	-	945851	945853	-
646-250	1or2	Hook Block Sheave	-	45086	45106	
646-252	1or2	Hook Block Sheave bearing	-			88542
646-253	2	Hook Block Sheave Bearing	-	86370	-	
646-254	1or2	Hook Block Sheave Shaft	-			45425
646-256A	1	Hook block Sheave Shaft Bolt	-			89411
646-256B	1	Hook block Sheave Shaft Bolt L.W.	-			987919
646-257	1	Hook Block Sheave Cap (Tapped)	-			45123
646-258	1	Hook Block Sheave Cap (drilled)	-			45124
646-259	1	Dead End Pin	-	45945	-	45944
646-260	2	Reeving Caution Plate	-	45757	-	
646-275	1	Capacity Insert	-			46712(5-Ton) 46713(6-Ton) 45837(8-Ton) 45838(10-Ton)

**Part Numbers for packaged lubricants used in Cyclone Hand and Low Headroom Trolley Hoists**

Lubricant Usage	Type of Lubricant	Part Numbers and packaged Quantities of Lubricants
Gears	Grease	28610 (1#can) 28632 (4#can)
Handwheel Threads	Spray	46698 (16 oz.)
Chain	Oil	28608 (1 pt. can) 28619 (1 gal. can)
Trackwheel Bearings	Grease	28610 (1#can) 28632 (4#can)
Trackwheel Gears	*Heavy Cup Grease	-
Handwheel Shaft	*Light Machine Oil	-

\*These are not furnished by CM in Packaged Quantities.

When ordering lubricants, specify the type of lubricant, part number and packaged quantity required.

Touch-up Paints for Cyclone Hand and Low Headroom Trolley Hoists:

1. Hoist. Order \*(1) case (12-12 oz. Aerosol Cans) of Orange Touch-up paint Part Number 84190

2. Trolley. Order \*(1) case (12-12 oz. Aerosol Cans) of Black Touch-up paint Part Number 84189.

\*Touch-up paints are only available in case quantities.

**NOTE: When painting Hoists or Trolleys, also order warning labels, identification labels, etc. that may be coated during painting.**