



# Parts Manual • Ersatzteil-Liste

## K1 Series Rotary Vane Hoist



**K1HA  
Hook  
Mounted**



**K1TA  
Trolley  
Mounted**

K1 H A 22 L P E L -- A A A 22

**SERIES:** \_\_\_\_\_  
K1

**MOUNTING TYPE:** \_\_\_\_\_  
H = Hook  
T = Trolley

**FEATURES:** \_\_\_\_\_  
A = Standard Unit    P = Epoxy Paint  
H = Hi Temp Grease    S = Epoxy Paint/Hi Temp Grease

**CAPACITY:** \_\_\_\_\_  
22 = 2200 lbs.    66 = 6600 lbs.  
33 = 3300 lbs.    88 = 8800 lbs.  
44 = 4400 lbs.

**CHAIN TYPE:** \_\_\_\_\_  
L = Link

**CONTROL TYPE:** \_\_\_\_\_  
L = Pendant (2 Hoist-4LVR)  
M = Pendant (w/Hoistactor-4LVR)  
N = Pendant (w/Hoistactor-Free wheel to positive drive-5LVR)  
O = Pendant (w/Hoistactor-Positive drive to free wheel-5LVR)  
P = Pendant (Standard-2LVR)  
R = Rope  
S = Pendant (Hoist/Hoistactor/Axial Motor-6LVR)  
T = Pendant (Hoist/Hoistactor/Hoistactor-6LVR)  
W = None-Pendant Ready  
X = None

**CONTROL LENGTH:** \_\_\_\_\_  
E = 5 Ft.    I = 9 Ft.    M = 13 Ft.    Q = 17 Ft.    U = 21 Ft.    Y = 25 Ft.  
F = 6 Ft.    J = 10 Ft.    N = 14 Ft.    R = 18 Ft.    V = 22 Ft.    Z = None  
G = 7 Ft.    K = 11 Ft.    O = 15 Ft.    S = 19 Ft.    W = 23 Ft.  
H = 8 Ft.    L = 12 Ft.    P = 16 Ft.    T = 20 Ft.    X = 24 Ft.

**CAPACITY RATING (lbs.):**  
11 = 1100 (11/22/33)    44 = 4400 (44)  
22 = 2200 (22/33/44)    45 = 4400 (66/88)  
33 = 3300 (33/44)    66 = 6600 (66)  
34 = 3300 (66)

**VINTAGE:**  
A

**LOWER HOOK:**  
A = Standard Link (22/33/44)  
B = Bullard Link (22/33/44)  
C = Standard Link (66/88)  
D = Bullard Link (66/88)  
X = No Hook

**UPPER MOUNTING**

<b>Hook</b>	<b>Trolley</b>
A = Standard (22/33/44)	A = 3-6.25" Tapered (22/33/44)
B = Bullard (22/33/44)	B = 4-6.25" Tapered (66/88)
C = Standard (66/88)	C = 3.25" Narrow Flat (66/88)
D = Bullard (66/88)	D = 3-6.25" Flat (22/33/44)
X = No Hook	E = 4-6.25" Flat (66/88)
	F = 2" Narrow Flat (22/33/44)

**AMOUNT OF LIFT:**  
--- Specify Length in Feet, 3 digits  
Example: 10' lift = 0 1 0

**CHAIN OPTIONS:**  
L = Standard Link  
P = Zinc Plated Link  
X = No Chain

Note: Numbers in parentheses following an option, represent the hoist capacities for which that option is available.

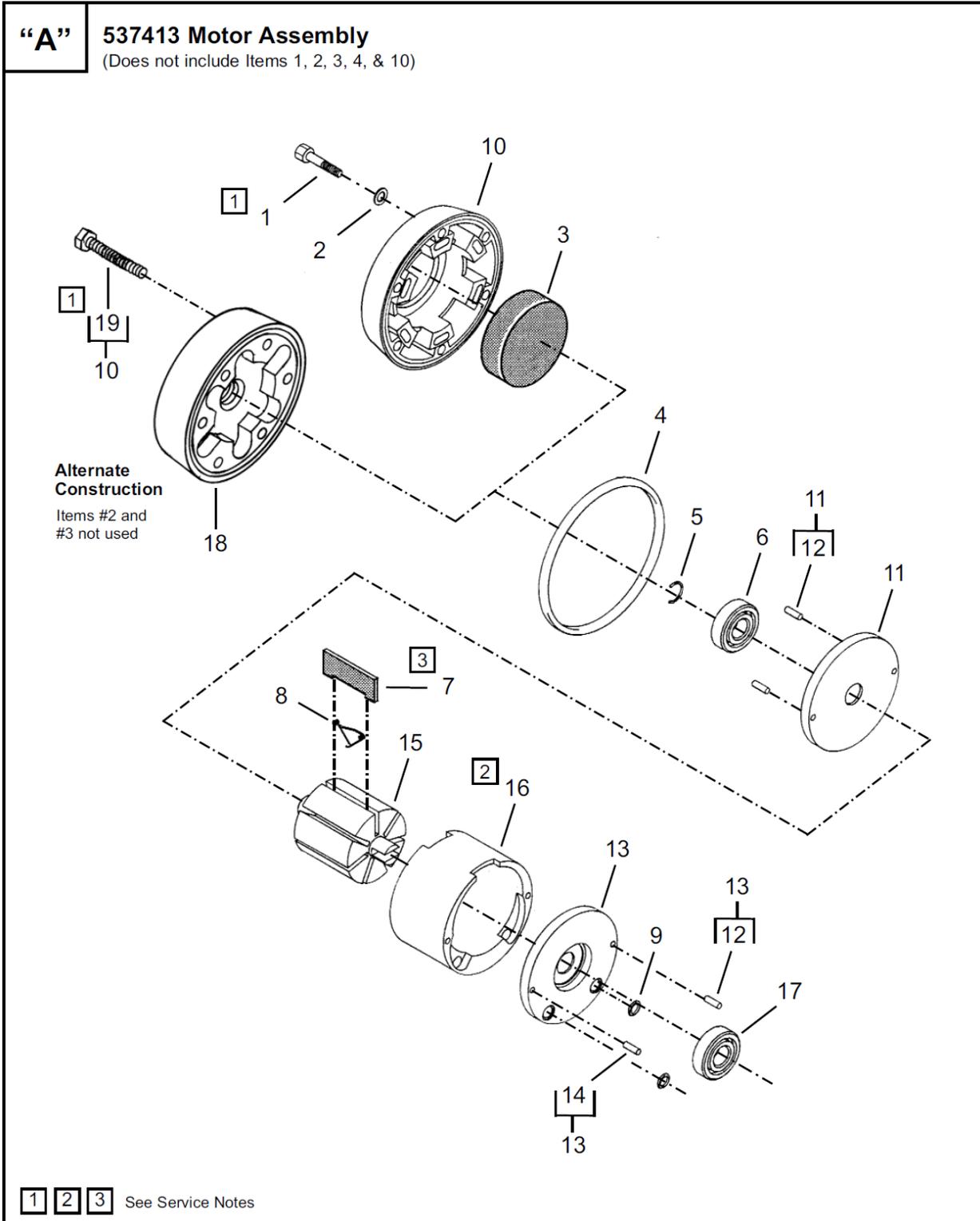


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## Motor Assembly



## Motor Assembly (parts)

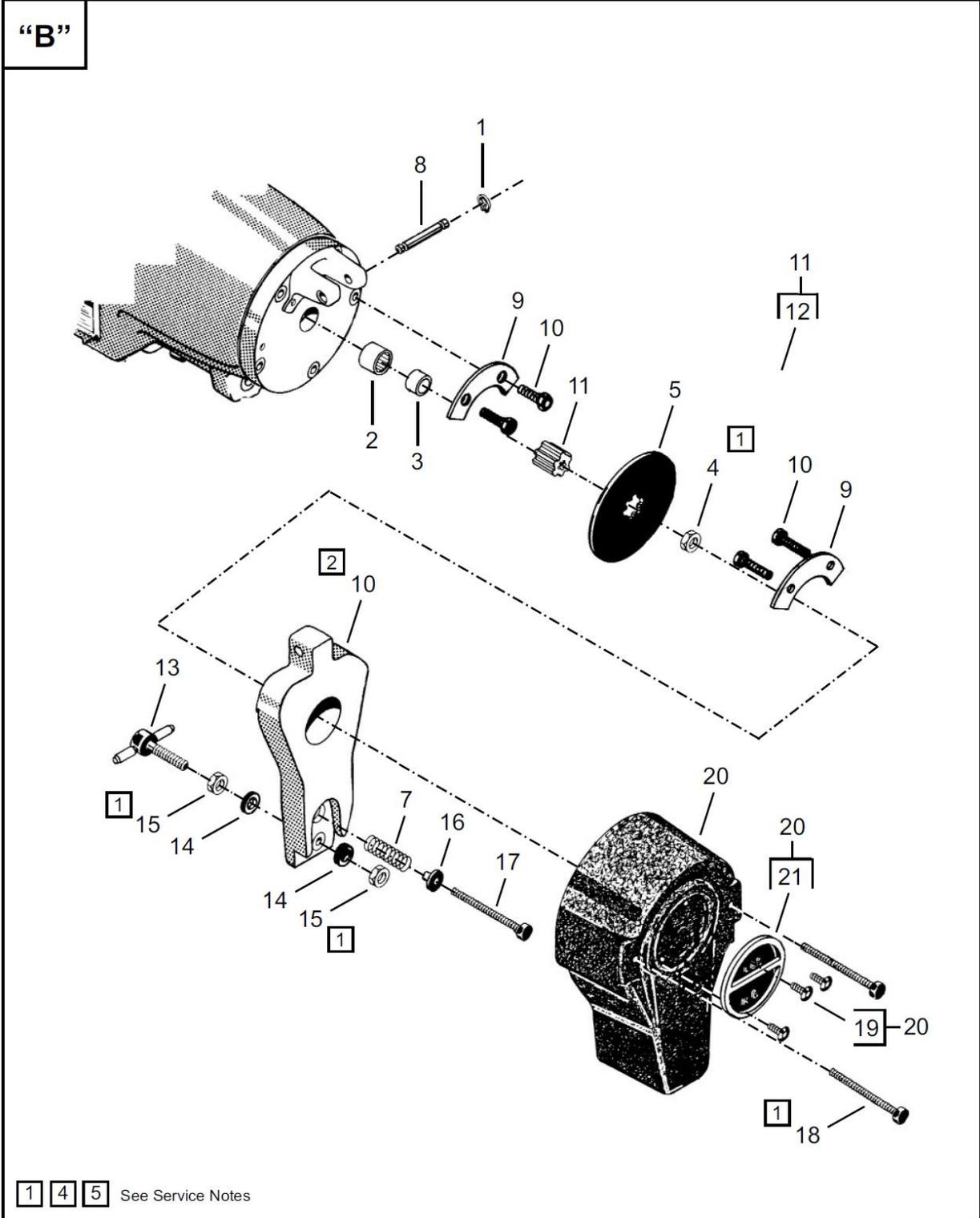
### Illustration "A" - Motor Assembly

Index	Number	Qty	·	EN	DE	FR	ES	IT
				Description	Benennung	Designation	Descripcion	Descrizione
1	B152N	6	6	Screw	Gewindestift	Vis	Tornillo	Vite
2	W193	6	6	Washer	Scheibe	Rondelle	Arandela	Rondella
3	523357	1	1	Muffler	Auspufftopf	Goujon	Pasador	Spina
4	522765	1	1	O-Ring	O-Ring	Bille	Balln	Sfera
5	250497	1	1	Retaining Ring	Sicherungsring	Silencieux	Silenciador	Silenziatore
6	807225	1	1	Bearing	Lager	Anneau "O"	Anillo "O"	O-Ring
7	522812	7	7	Blade	Lamelle	Ressort	Resorte	Molla
8	537523	7	7	Spring	Druckfeder	Joint d' etancheite	Empaquetadura	Guarnizione
9	1008680	2	2	O-Ring	O-Ring	Poignee	Manija	Impugnatura
10	522421	1		Cover	Deckel	Levier	Palanca	Leva
11	522809	1		Upper End Plate	Oberer AbschluBdeckel	Levier	Palanca	Leva
12	DP114	3		Pin	Stift	Coude	Codo	Curva
13	522810	1		Lower End Plate	Unterer AbschluBdeckel	Tuyau	Manguera	Tubo
14	DP116	1		Pin	Stift	Soupape	Valvula	Valvola
15	522811	1		Rotor	Rotor	Rotor	Rotor	Rotore
16	522770	1		Cylinder	Zylinder	Cylindre	Cilindro	Cilindro
17	1000840	1		Bearing	Lager	Anneau "O"	Anillo "O"	O-Ring
<b>Alternate Construction - Piped Exhaust</b>								
18	536567	1		Adapter	Zwischenstück	Adaptateur	Adaptador	Adattatore
19	B128M	6		Screw	Gewindestift	Vis	Tornillo	Vite

(Qty) Quantity / Stückzahl / Quantité / Cantidad / Quantità

· Recommended Spare Parts / Kennzeichnet empfohlenes / Identifica un particolare di ricambio  
raccomandato / Designa el repuesto recomendado / Indique la pièce de rechange conseillée

## Brake Assembly



## Brake Assembly (parts)

### Illustration "B" - Brake Assembly

Index	Number	Qty	·	EN	DE	FR	ES	IT
				Description	Benennung	Designation	Descripcion	Descrizione
1	800143	2	2	Retaining Ring	Sicherungsring	Anneau de fixation	Anillo de retencion	Anello di fissaggio
2	528772	1	1	Bearing	Lager	Coussinet	Cojinete	Cuscinetto
3	528771	1	1	Bearing Ring	Lager	Coussinet	Cojinete	Cuscinetto
4	C106D	1	1	Nut	Mutter	Ecrou	Tuerca	Dado
5	528682	1	1	Brake Disc	Bremsscheibe	Disque de frein	Disco de freno	Disco del feno
6	536465	1	1	Brake Pad Kit	Bremsbelagsatz	Ensemble de patin de frein	Juego de almohadilla del freno	Attrezzature pattino del freno
7	504871	1	1	Spring	Druckfeder	Ressort	Resorte	Molla
8	529365	1		Pin	Stift	Goujon	Pasador	Spina
9	536464	2		Brake Pad	Bremsbelag	Patin de frein	Almohadilla del freno	Pattino de freno
10	B158E	4		Screw	Gewindestift	Vis	Tornillo	Vite
11	528702	1		Adapter	Zwischenstück	Adaptateur	Adaptador	Adattatore
12	529313	1		Brake Arm	Bremsarm	Bras de frein	Brazo del freno	Braccio del freno
13	528681	1		Brake Adjuster	Bremseinstellung	Registre du frein	Ajustador del freno	Registro del freno
14	W144	2		Washer	Scheibe	Rondelle	Arandela	Rondella
15	C111F	2		Nut	Mutter	Ecrou	Tuerca	Dado
16	504873	1		Washer	Scheibe	Rondelle	Arandela	Rondella
17	B155H	1		Screw	Gewindestift	Vis	Tornillo	Vite
18	B157R	2		Screw	Gewindestift	Vis	Tornillo	Vite
19	534820	3		Screw	Gewindestift	Vis	Tornillo	Vite
20	Table "B"	1		Brake Cover	Abdeckung der Bremse	Couvercle de frein	Cubierta de freno	Calotta del freno
21	Table "B"	1		Capacity Plate	Kapazitaetsschild	Plaque signaletique	Placa de capacidad	Piattello capacitivo

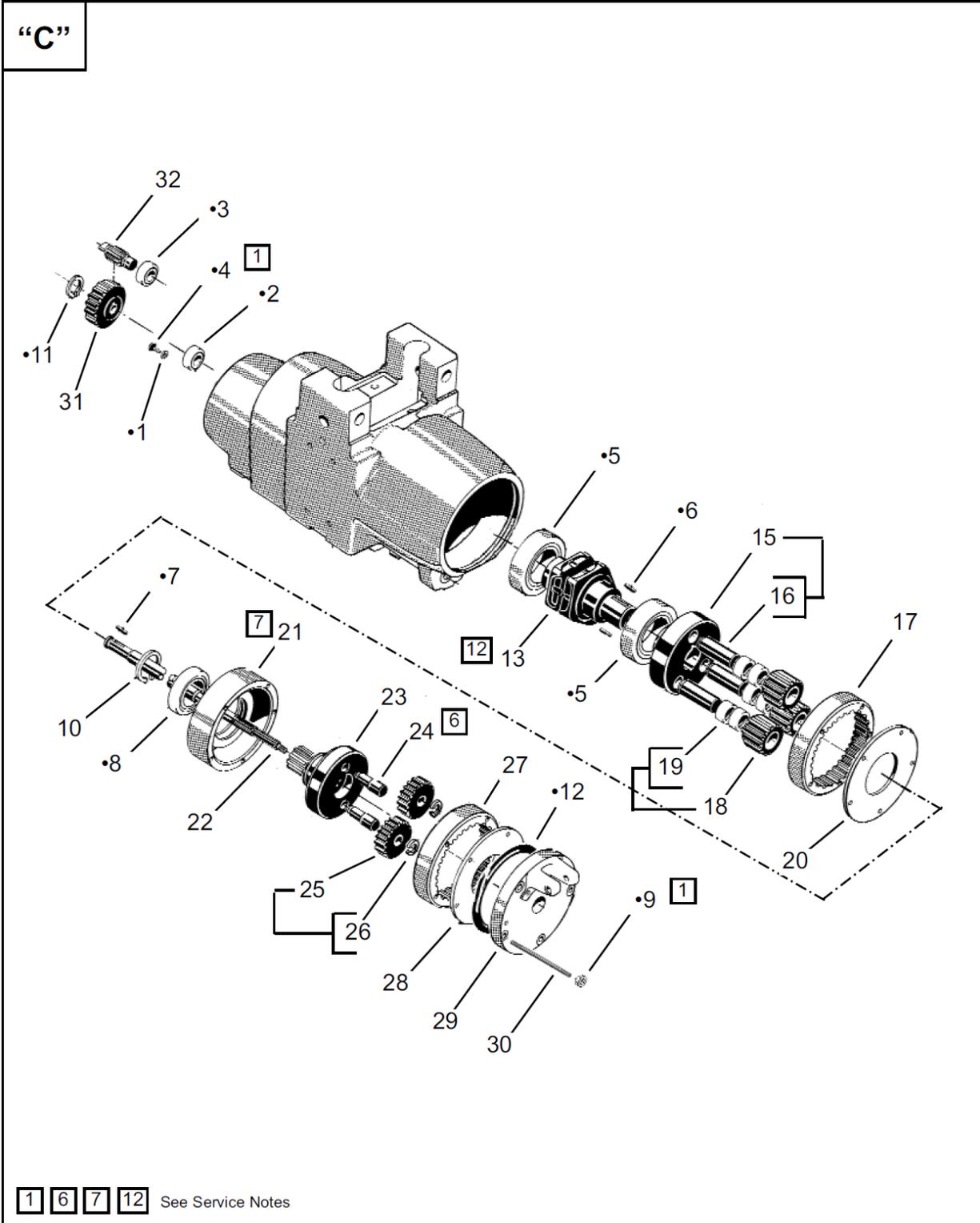
(Qty) Quantity / Stückzahl / Quantité / Cantidad / Quantità

· Recommended Spare Parts / Kennzeichnet empfohlenes / Identifica un particolare di ricambio raccomandato / Designa el repuesto recomendado / Indique la pièce de rechange conseillée

**Table "B"**

Index #	Description	Qty.	K1( )22	Qty.	K1( )33	Qty.	K1( )44	Qty.	K1( )66	Qty.	K1( )88
20	Brake Cover	1	529315	1	529316	1	529317	1	529318	1	529319
21	Capacity Plate	1	529301	1	530365	1	529302	1	530366	1	529303

## Gearing Assembly



## Gearing Assembly (parts)

### Illustration "C" - Gearing Assembly

Index	Number	Qty	·	EN	DE	FR	ES	IT
				Description	Benennung	Designation	Descripcion	Descrizione
1	W130	1	1	Washer	Scheibe	Rondelle	Arandela	Rondella
2	514693	1	1	Bearing	Lager	Coussinet	Cojinete	Cuscinetto
3	22176	1	1	Bearing	Lager	Coussinet	Cojinete	Cuscinetto
4	B122T	1	1	Screw	Gewindestift	Vis	Tornillo	Vita
5	11554L	2	2	Bearing	Lager	Coussinet	Cojinete	Cuscinetto
6	507239	2	2	Key	Schlüssel	Cle	Liave	Chiave
7	MR10A12	1	1	Key	Schlüssel	Cle	Liave	Chiave
8	11656	1	1	Bearing	Lager	Coussinet	Cojinete	Cuscinetto
9	C108S	5	5	Nut	Kettenbaugruppe	Assemblage de chaine	Ensamblaje de cadena	Gruppo catena
10	500893	1	1	Retaining Ring	Sicherungsring	Anneau de fixation	Anillo de retencion	Anello di fissaggio
11	800148	1	1	Retaining Ring	Sicherungsring	Anneau de fixation	Anillo de retencion	Anello di fissaggio
12	530376	1	1	O-Ring	O-Ring	Anneau "O"	Anillo "O"	O-Ring
13	528686	1		Sprocket	Speichen	Dent de pignon	Rueda dentada	Dente di dentature per catena
15	528688	1		Idler Plate	Zwischenplatte	Plaque de roue intermediaire	Placa intermedia	Piastra intermedia
16	11863	3		Shaft	Zwischenzahnrad	Engrenage secondaire	Engranaje secundario	Ingranaggio intermeio
17	11744	1		Ring Gear	Zahnkreis	Couronne dentée	Engranaje de anillos	Guarnizione ingranaggio
18	A11754	3		Idler Gear	Zwischenzahnrad	Engrenage secondaire	Engranaje secundario	Ingranaggio intermeio
19	12047	6		Needle Bearing	Lager	Coussinet	Cojinete	Cuscinetto
20	11790	1		Spacer Plate	Distanzstück	Entretoise	Espaciador	Distanziale
21	528694	1		Bearing Spacer	Distanzstück	Entretoise	Espaciador	Distanziale
22	528713	1		Motor Shaft	Achse	Axe du vérin	Eje	Albero
23	528689	1		Idler Plate	Zwischenplatte	Plaque de roue intermediaire	Placa intermedia	Piastra intermedia
24	528690	2		Idler Pin	Zwischen	Plaque de roue intermediaire	Placa intermedia	Piastra intermedia
25	A11755	2		Idler Gear	Zwischenzahnrad	Engrenage secondaire	Engranaje secundario	Ingranaggio intermeio
26	11789	2		Snap Ring	Schnapping	Segment int.	Aro de resorte	Anello elastico
27	11745	1		Ring Gear	Zahnkreis	Couronne dentee	Engranaje de anillos	Guarnizione ingranaggio
28	11790	1		Spacer Plate	Distanzstück	Entretoise	Espaciador	Distanziale
29	528696	1		Clamping Plate	Klemmplatte	Plaque de serrage	Placa de sujecion	Piastra di bloccaggio
30	529367	5		Stud	Bolzen	Goujon	Esparrago	Perno sporgente
31	Table "C"	1		Gear	Getriebe	Engrenage	Engranaje	Ingranaggio
32	Table "C"	1		Pinion Gear	Ritzelgetriebe	Pignon, d'entraînement	Pinon diferencial	Ingranaggio a pignone

(Qty) Quantity / Stückzahl / Quantité / Cantidad / Quantità

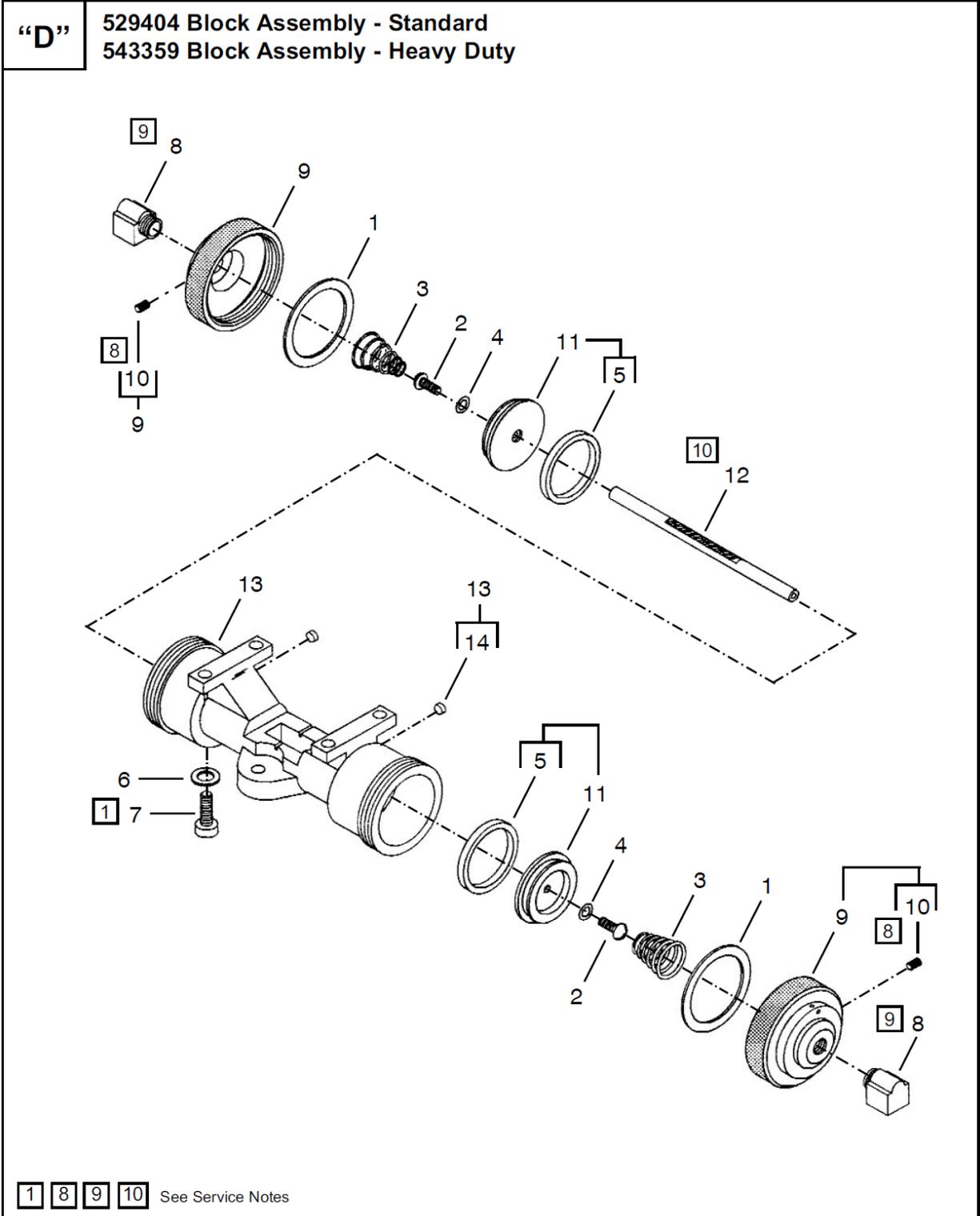
· Recommended Spare Parts / Kennzeichnet empfohlenes / Identifica un particolare di ricambio raccomandato / Designa el repuesto recomendado / Indique la pièce de rechange conseillée

Table "C"

Index #	Description	Qty.	K1( )22	Qty.	K1( )33 K1( )66	Qty.	K1( )44 K1( )88
31	Gear	1	528697	1	530364	1	528770
32	Pinion Gear	1	528773	1	530369	1	528774



## Actuating Block Assembly



## Actuating Block Assembly (parts)

### Illustration "D" - Actuating Block Assembly

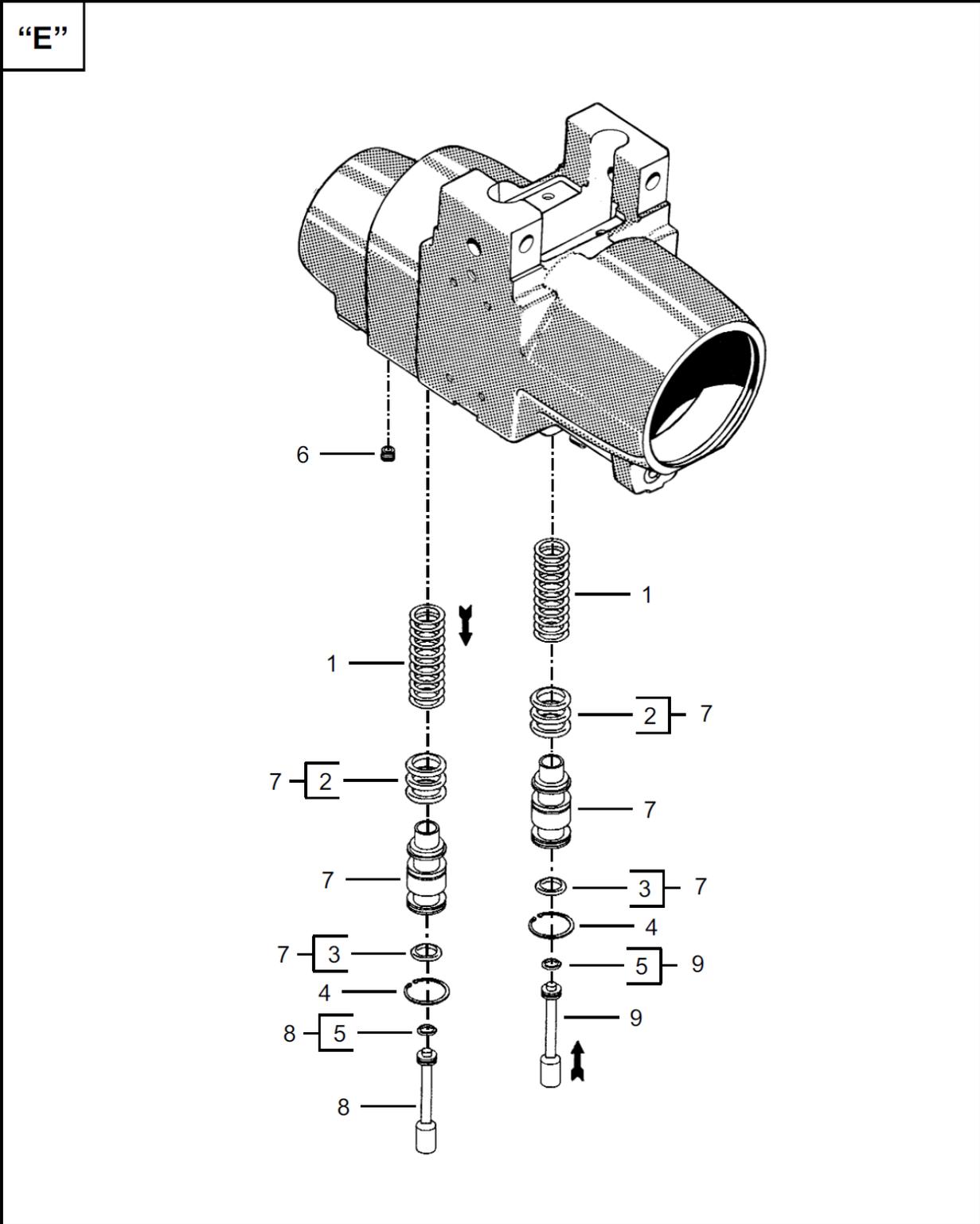
Index	Number	Qty	·	EN	DE	FR	ES	IT
				Description	Benennung	Designation	Descripcion	Descrizione
--	529404	1		Block Asm - Std.	Block	Bloc	Bloque	Blocco
	543359	1		Block Asm - HD	Block	Bloc	Bloque	Blocco
1	27539	2	2	Gasket	Dichtung	Joint d' etancheite	Empaquetadura	Guarnizione
2	B109F	2	2	Screw	Gewindestift	Vis	Tornillo	Vita
3	515338	2	2	Spring	Druckfeder	Ressort	Resorte	Molla
4	W113	2	2	Washer	Scheibe	Rondelle	Arandela	Rondella
5	16356	2	2	Seal	Dichtung	Sceau	Sello	Guarnizione
6	W210	4	4	Washer	Scheibe	Rondelle	Arandela	Rondella
7	B125Z	4	4	Screw	Gewindestift	Vis	Tornillo	Vita
8	F511	2		Elbow	Ellbogen	Coude	Codo	Curva
9	515337	2		Cap	Kappa	Chapeau	Tapa	Cappello
10	B141K	2		Screw	Gewindestift	Vis	Tornillo	Vita
11	501934	2		Piston	Kolben	Piston	Embolo	Pistone
12	27052	1		Rack	Zahnstange	Bati	Estante	Rack
13	529379	1		Block - Std.	Block	Bloc	Bloque	Blocco
	543358	1		Block - HD	Block	Bloc	Bloque	Blocco
14	529339	2		Vent	Offnung	Aeration	Ventilacion	Ventilazione

(Qty) Quantity / Stückzahl / Quantité / Cantidad / Quantità

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## Control Valve Assembly



## Control Valve Assembly (parts)

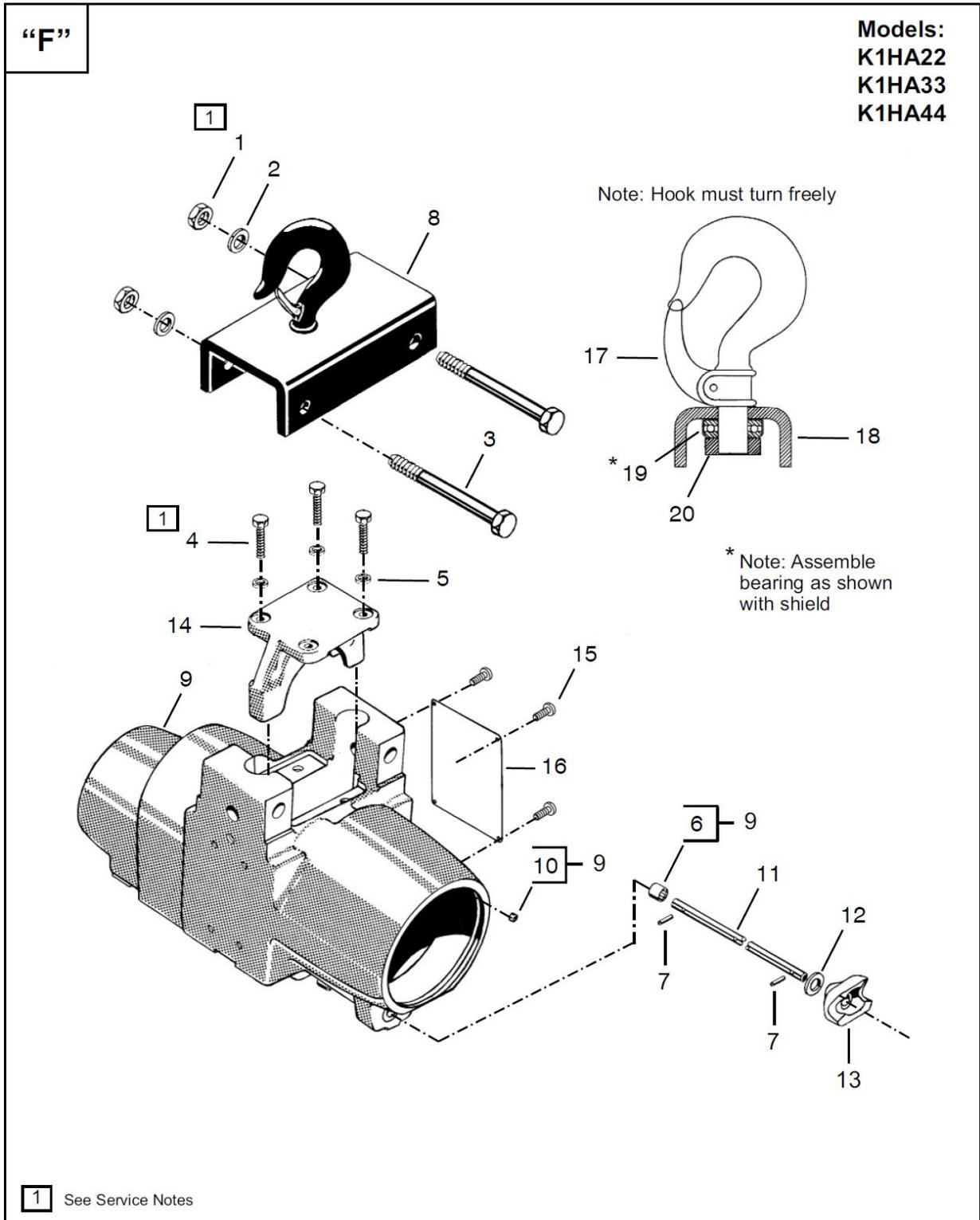
### Illustration "E" - Control Valve Assembly

Index	Number	Qty	·	EN	DE	FR	ES	IT
				Description	Benennung	Designation	Descripcion	Descrizione
1	532338	2	2	Spring	Druckfeder	Ressort	Resorte	Molla
2	24684	6	6	O-Ring	O-Ring	Anneau "O"	Anillo "O"	O-Ring
3	60351	2	2	O-Ring	O-Ring	Anneau "O"	Anillo "O"	O-Ring
4	800066	2	2	Retaining Ring	Sicherungsring	Anneau de fixation	Anillo de retencion	Anello de fissaggio
5	1008680	2	2	O-Ring	O-Ring	Anneau "O"	Anillo "O"	O-Ring
6	F504	1		Plug	Buchse	Tampon	Tapon	Spina
7	522420	2		Bushing	Lagerbuchse	Douille	Casquillo	Boccola
8	522891	1		Valve Lower	VentilstoBel	Tige de soupape	Vastago de valvula	Asta valvola
9	522813	1		Valve Lift	VentilstoBel	Tige de soupape	Vastago de valvula	Asta valvola

(Qty) Quantity / Stückzahl / Quantité / Cantidad / Quantità

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## Upper Hook Assembly A



## Upper Hook Assembly A (parts)

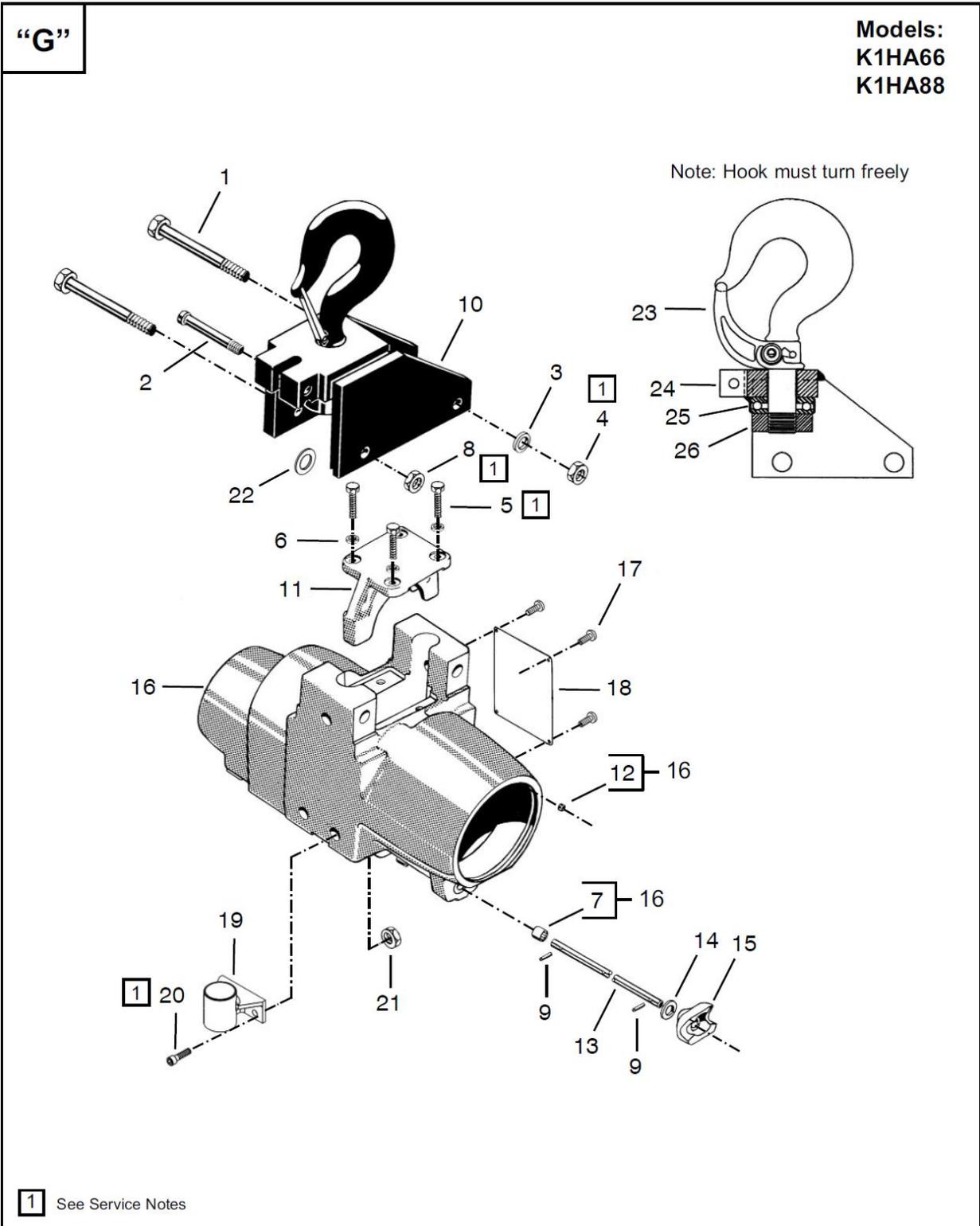
Illustration "F" - Upper Hook Assembly (K1HA22... , K1HA33... , K1HA44...)

Index	Number	Qty	·	EN	DE	FR	ES	IT
				Description	Benennung	Designation	Descripcion	Descrizione
1	C110S	2	2	Nut	Mutter	Ecrou	Tuerca	Dado
2	W231	2	2	Washer	Scheibe	Rondelle	Arandela	Rondella
3	B155R	2	2	Screw	Gewindestift	Vis	Tornillo	Vita
4	B115S	4	4	Screw	Gewindestift	Vis	Tornillo	Vita
5	W124	4	4	Lock Washer	Scheibe	Rondelle	Arandela	Rondella
6	800161	3	3	Bearing	Lager	Coussinet	Cojinete	Cuscinetto
7	60229	2		Pin	Stift	Goujon	Pasador	Spina
8	528710	1		Upper Hook	Oberer Haken	Crochet Superieur	Gancho superior	Gancio superiore
9	528779	1		Housing	Gehäuse	Cage	Caja	Corpe
10	529339	1		Vent	Öffnung	Aération	Ventilación	Ventilazione
11	529314	1		Control Rod	Steuerstange	Barre de commande	Barra de control	Asta di comando
12	502977	1		Thrust Washer	Druckscheibe	Rondelle de butée	Arandela de empuje	Rondella di spinta
13	528680	1		Cam	Nocken	Came	Leva	Camma
14	530318	1		Chain Guide	Kettenführung	Guide-chaîne	Gula de cadena	Guide della catena
15	534820	4		Screw	Gewindestift	Vis	Tornillo	Vita
16	541717	1		Name Plate	Namensschild	Plaque	Placa de identificación	Targa
17	532368	1		Hook	Haken	Crochet	Gancho	Gancio
18	528700	1		Hook Bracket	Klammer	Support	Soporte	Staffa
19	24441	1		Bearing	Lager	Coussinet	Cojinete	Cuscinetto
20	C-110-Z	1		Hook Nut	Mutter	Ecrou	Tuerca	Dado

(Qty) Quantity / Stückzahl / Quantité / Cantidad / Quantità

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## Upper Hook Assembly B



## Upper Hook Assembly B (parts)

Illustration "G" - Upper Hook Assembly (K1HA66... , K1HA88...)

Index	Number	Qty	·	EN	DE	FR	ES	IT
				Description	Benennung	Designation	Descripcion	Descrizione
1	B140F	2	2	Screw	Gewindestift	Vis	Tornillo	Vita
2	530387	1	1	Bolt - Chain	Bolzen	Boulon	Perno	Dado
3	W231	2	2	Washer	Scheibe	Rondelle	Arandela	Rondella
4	C110S	2	2	Nut	Mutter	Ecrou	Tuerca	Dado
5	B115S	4	4	Screw	Gewindestift	Vis	Tornillo	Vita
6	W124	4	4	Washer	Scheibe	Rondelle	Arandela	Rondella
7	800161	1	1	Bearing	Lager	Coussinet	Cojinete	Cuscinetto
8	C110W	1	1	Nut	Mutter	Ecrou	Tuerca	Dado
9	60229	2		Pin	Stift	Goujon	Pasador	Spina
10	530232	1		Upper Hook	Oberer Haken	Crochet Superieur	Gancho superior	Gancio superiore
11	530318	1		Chain Guide	Kettenfuehrung	Guide-chaine	Gula de cadena	Guide della catena
12	529339	1		Vent	Öffnung	Aération	Ventilación	Ventilazione
13	529314	1		Control Rod	Steuerstange	Barre de commande	Barra de control	Asta di comando
14	502977	1		Thrust Washer	Druckscheibe	Rondelle de butée	Arandela de empuje	Rondella di spinta
15	528680	1		Cam	Nocken	Came	Leva	Camma
16	528779	1		Housing	Gehäuse	Cage	Caja	Corpe
17	534820	4		Screw	Gewindestift	Vis	Tornillo	Vita
18	541717	1		Name Plate	Namensschild	Plaque	Placa de identificación	Targa
19	543031	1		Bracket	Klammer	Support	Soporte	Staffa
20	75AE11	2	2	Screw	Gewindestift	Vis	Tornillo	Vita
21	C106D	2	2	Nut	Mutter	Ecrou	Tuerca	Dado
22	W196	2	2	Washer	Scheibe	Rondelle	Arandela	Rondella
23	516692	1		Hook	Haken	Crochet	Gancho	Gancio
24	530229	1		Hook Bracket	Klammer	Support	Soporte	Staffa
25	531023	1		Bearing	Lager	Coussinet	Cojinete	Cuscinetto
26	531056	1		Hook Nut	Mutter	Ecrou	Tuerca	Dado

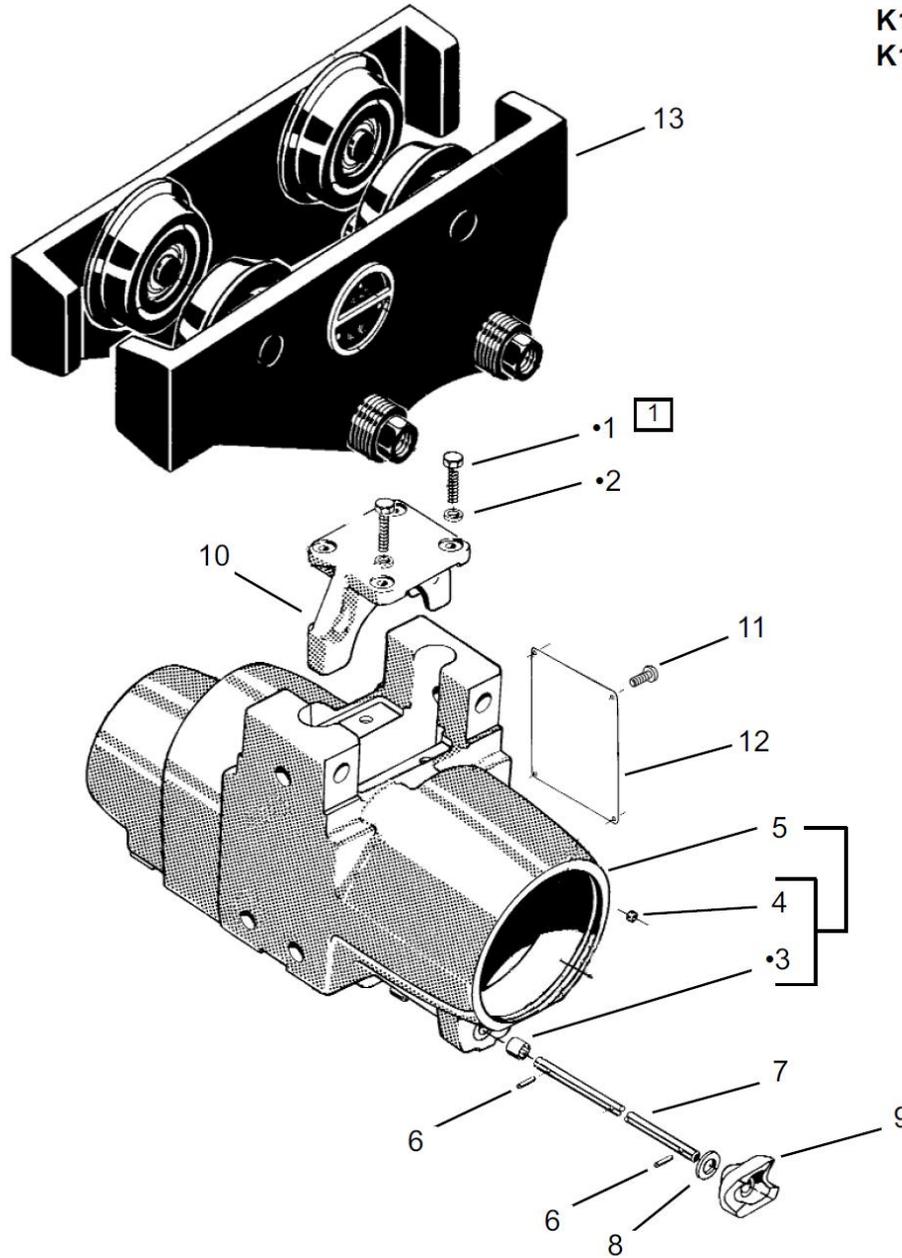
(Qty) Quantity / Stückzahl / Quantité / Cantidad / Quantità

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## Housing Assembly

“H”

Models:  
K1TA22  
K1TA33  
K1TA44  
K1TA66  
K1TA88



1 See Service Notes



## Housing Assembly (parts)

Illustration "H" - Housing Assembly (K1TA22, K1TA33, K1TA44, K1TA66, K1TA88)

Index	Number	Qty	·	EN	DE	FR	ES	IT
				Description	Benennung	Designation	Descripcion	Descrizione
1	B115S	4	4	Screw	Gewindestift	Vis	Tornillo	Vita
2	W124	4	4	Lock Washer	Scheibe	Rondelle	Arandela	Rondella
3	800161	3	3	Bearing	Lager	Coussinet	Cojinete	Cuscinetto
4	529339	1		Vent	Öffnung	Aération	Ventilación	Ventilazione
5	528779	1		Housing	Gehäuse	Cage	Caja	Corpe
6	60229	2		Pin	Stift	Goujon	Pasador	Spina
7	529314	1		Control Rod	Steuerstange	Barre de commande	Barra de control	Asta di comando
8	502977	1		Thrust Washer	Druckscheibe	Rondelle de butée	Arandela de empuje	Rondella di spinta
9	528680	1		Cam	Nocken	Came	Leva	Camma
10	530318	1		Chain Guide	Kettenfuehrung	Guide-chaine	Gula de cadena	Guide della catena
11	534820	4		Screw	Gewindestift	Vis	Tornillo	Vita
12	541717	1		Name Plate	Namensschild	Plaque	Placa de identificacion	Targa
13	Note 1	1		Trolley Assembly	Wagen	Trolley	Trole	Carrello

(Qty) Quantity / Stückzahl / Quantité / Cantidad / Quantità

· Recommended Spare Parts / Kennzeichnet empfohlenes / Identifica un particolare di ricambio raccomandato / Designa el repuesto recomendado / Indique la pièce de rechange conseillée

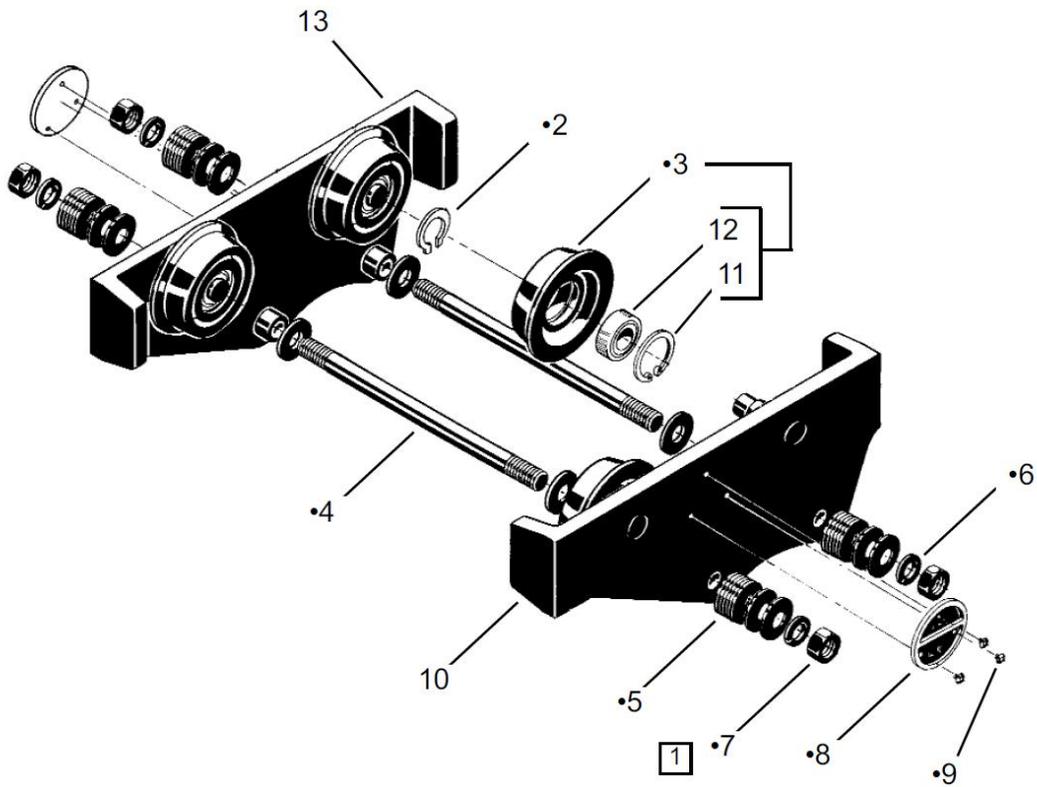
Note 1: Refer to Illustrations "I" or "J"



## Trolley Assembly A

“1”

Models:  
K1TA22  
K1TA33  
K1TA44



1 See Service Notes



## Trolley Assembly A (parts)

Illustration "I" - Trolley Assembly (K1TA22... , K1TA33... , K1TA44... )

Index	Number	Qty	●	EN	DE	FR	ES	IT
				Description	Benennung	Designation	Descripcion	Descrizione
1	Table "I"	1		Trolley Assembly	Wagen	Trolley	Trole	Carrello
2	800141	4	4	Retaining Ring	Sicherungsring	Anneau de fixation	Anillo de retencion	Anello de fissaggio
3	Table "I"	4		Wheel Assembly	Radbaugruppe	Assemblage de roue	Ensamblaje de rueda	Gruppo mole
4	512400	2		Stud	Bolzen	Goujon	Es párrago	Perno sporgente
5	W196	52		Washer	Scheibe	Rondelle	Arandela	Rondella
6	W231	4	4	Washer	Scheibe	Rondelle	Arandela	Rondella
7	C110S	4	4	Nut	Mutter	Ecrou	Tuerca	Dado
8	Table "I"	1	1	Capacity Plate	Kapazitaetsschild	Plaque signalétique	Placa de capacidad	Piattello capacitivo
9	534820	6	6	Screw	Gewindes tift	Vis	Tornillo	Vita
10	539275	1		Side Plate - Right	seitliche Platte	Plaque de serrage	Placa lateral	Pias tra laterale
11	503406	4		Retaining Ring	Sicherungsring	Anneau de fixation	Anillo de retencion	Anello de fissaggio
12	526529	4		Bearing	Lager	Coussinet	Cojinete	Cuscinetto
13	539276	1		Side Plate - Left	seitliche Platte	Plaque de serrage	Placa lateral	Pias tra laterale

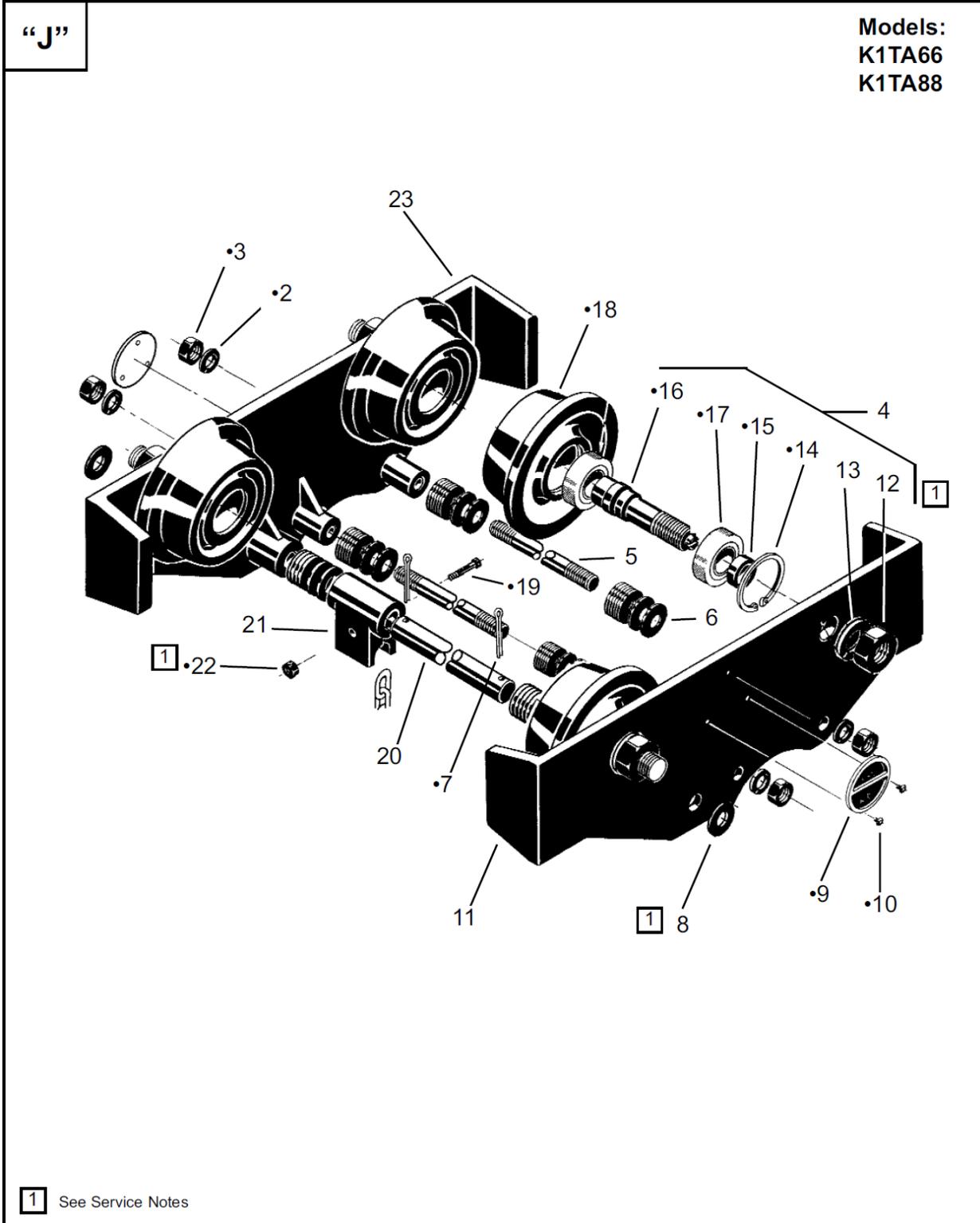
(Qty) Quantity / Stückzahl / Quantité / Cantidad / Quantità

● Recommended Spare Parts / Kennzeichnet empfohlenes / Identifica un particolare di ricambio raccomandato / Designa el repuesto recomendado / Indique la pièce de rechange conseillée

Table "I"

Index #	Description	K1TA22			K1TA33			K1TA44		
		Capacity			Capacity			Capacity		
		2200 lbs (1000 KG)			3300 lbs. (1500 KG)			4400 lbs. (2000 KG)		
	I-Beam Type	Standard	Patented	Patented	Standard	Patented	Patented	Standard	Patented	Patented
	Wheel Type	Taper	Flat	Narrow	Taper	Flat	Narrow	Taper	Flat	Narrow
	Flange Width	3"-5"	3"-5"	2"	3"-5"	3"-5"	2"	3"-5"	3"-5"	2"
1	Trolley Asm.	539894	539895	539896	539897	539898	539899	539900	539901	539902
3	Wheel Asm.	526519	534387	533069	526519	534387	533069	526519	534387	533069
8	Capacity Plate	529301	529301	529301	530365	530365	530365	529302	529302	529302

## Trolley Assembly B



## Trolley Assembly B (parts)

### Illustration "J" - Trolley Assembly (K1TA66... , K1TA88... )

Index	Number	Qty	·	EN	DE	FR	ES	IT
				Description	Benennung	Designation	Descripcion	Descrizione
1	Table "J"	1		Trolley Assembly	Wagen	Trolley	Trole	Carrello
2	W231	4	4	Washer	Scheibe	Rondelle	Arandela	Rondella
3	C110S	4	4	Nut	Mutter	Ecrou	Tuerca	Dado
4	Table "J"	4		Wheel Assembly	Radbaugruppe	Assemblage de roue	Ensamblaje de rueda	Gruppo mole
5	531058	2		Stud	Bolzen	Goujon	Espárrago	Perno sporgente
6	W196	44		Washer	Scheibe	Rondelle	Arandela	Rondella
7	P101G	2	2	Pin	Stift	Goujon	Pasador	Spina
8	512419L	24		Washer	Scheibe	Rondelle	Arandela	Rondella
9	Table "J"	2	2	Capacity Plate	Kapazitaetsschild	Plaque signalétique	Placa de capacidad	Piattello capacitivo
10	534820	6	6	Screw	Gewindestift	Vis	Tornillo	Vita
11	541395	1		Side Plate - Left	seitliche Platte	Plaque de serrage	Placa lateral	Piastra laterale
12	C110T	4		Nut	Mutter	Ecrou	Tuerca	Dado
13	W205	4		Washer	Scheibe	Rondelle	Arandela	Rondella
14	65W24	4		Retaining Ring	Sicherungsring	Anneau de fixation	Anillo de retencion	Anello de fissaggio
15	515363	4		Spacer	Distanzstück	Entretoise	Espaciador	Distanziale
16	Table "J"	4		Axle	Achse	Axe	El eje	Asse
17	526576	8		Bearing	Lager	Coussinet	Cojinete	Cuscinetto
18	Table "J"	4		Wheel	Rad	Roue	Rueda	Mola
19	535482	1	1	Bolt - Load	Bolzen	Boulon	Perno	Dado
20	531057	1		Load Bar	Stab		La barra	La sbarra
21	512410	1		Adapter	Zwischenstück	Adaptateur	Adaptador	Adattatore
22	C107D	1	1	Nut	Mutter	Ecrou	Tuerca	Dado
23	541396	1		Side Plate - Right	seitliche Platte	Plaque de serrage	Placa lateral	Piastra laterale

(Qty) Quantity / Stückzahl / Quantité / Cantidad / Quantità

· Recommended Spare Parts / Kennzeichnet empfohlenes / Identifica un particolare di ricambio raccomandato / Designa el repuesto recomendado / Indique la pièce de rechange conseillée

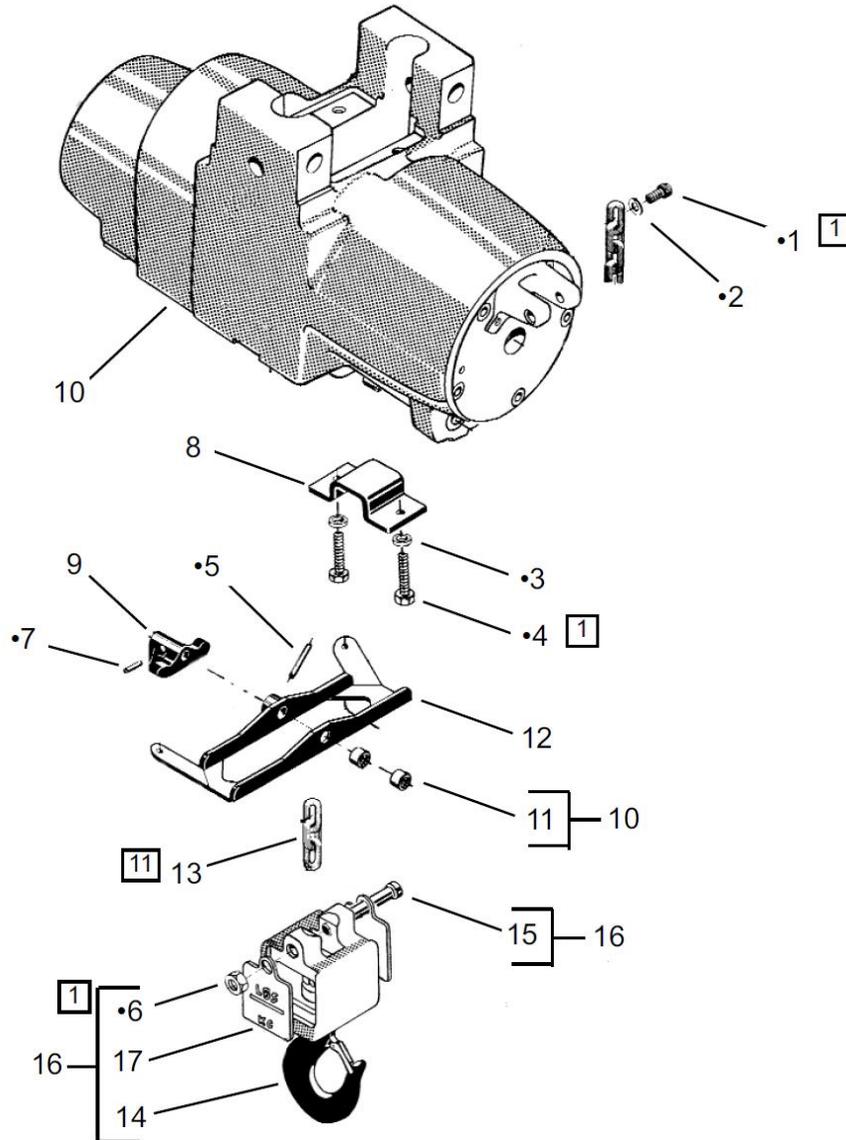
**Table "J"**

Index #	Description	K1TA66			K1TA88		
		6600 lbs. (3000 KG)			8800 lbs. (4000 KG)		
	I-Beam Type	Standard	Patented	Patented	Standard	Patented	Patented
	Wheel Type	Taper	Flat	Narrow	Taper	Flat	Narrow
	Flange Width	4"-6.25"	4"-6.25"	3.25"-3.33"	4"-6.25"	4"-6.25"	3.25"-3.33"
1	Trolley Asm.	543510	543511	543512	543513	543514	543515
4	Wheel Asm.	526577	536469	535491	526577	536469	535491
9	Capacity Plate	530366	530366	530366	529303	529303	529303
16	Axle	526574	526574	535490	526574	526574	535490
18	Wheel	526558	535764	526559	526558	535764	526559

## Lower Hook Assembly A

“K”

Models:  
K1( )22  
K1( )33  
K1( )44



1 11 See Service Notes



## Lower Hook Assembly A (parts)

Illustration "K" - Lower Hook Assembly [K1( )22... , K1( )33... , K1( )44... ]

Index	Number	Qty	·	EN	DE	FR	ES	IT
				Description	Benennung	Designation	Descripcion	Descrizione
1	B115S	1	1	Screw	Gewindestift	Vis	Tornillo	Vite
2	516712	1	1	Washer	Scheibe	Rondelle	Arandela	Rondella
3	W124	2	2	Washer	Scheibe	Rondelle	Arandela	Rondella
4	B137L	2	2	Screw	Gewindestift	Vis	Tornillo	Vite
5	RP101X	1	1	Pin	Stift	Soupape	Valvula	Valvola
6	C110W	1	1	Nut	Mutter	Ecrou	Tuerca	Dado
7	60229	1	1	Pin	Stift	Soupape	Valvula	Valvola
8	528704	1		Chain Stripper	Kettenstripper	Outil a denuder des	Separador de cadena	Estrattore catena
9	522888	1		Rocker	Schwinghebel	Bascule	Balancin	Albero oscillante
10	528779	1		Housing	Gehause	Cage	Caja	Corpe
11	800161	3		Bearing	Lager	Coussinet	Cojinete	Cuscinetto
12	523324	1		Control Lever	Steuerhebel	Levier de commande	Palanca de control	Leva di comando
13	542040	11ft.		Chain - Standard	Kette	Chaîne	Cadena	Catena
	513131	11ft.		Chain - Zinc Plated	Kette	Chaîne	Cadena	Catena
14	Table "K"	1		Lower Hook	Unterer Haken	Crochet inferieur	Gancho inferior	Gancio inferiore
15	530387	1		Bolt	Bolzen	Boulon	Perno	Dado
16	Table "K"	1		Lower Hook Asm	Lower Haken	Crochet inferieur	Gancho inferior	Gancio inferiore
17	Table "K"	2		Capacity Plate	Platte	Plaque	Placa	Piattello

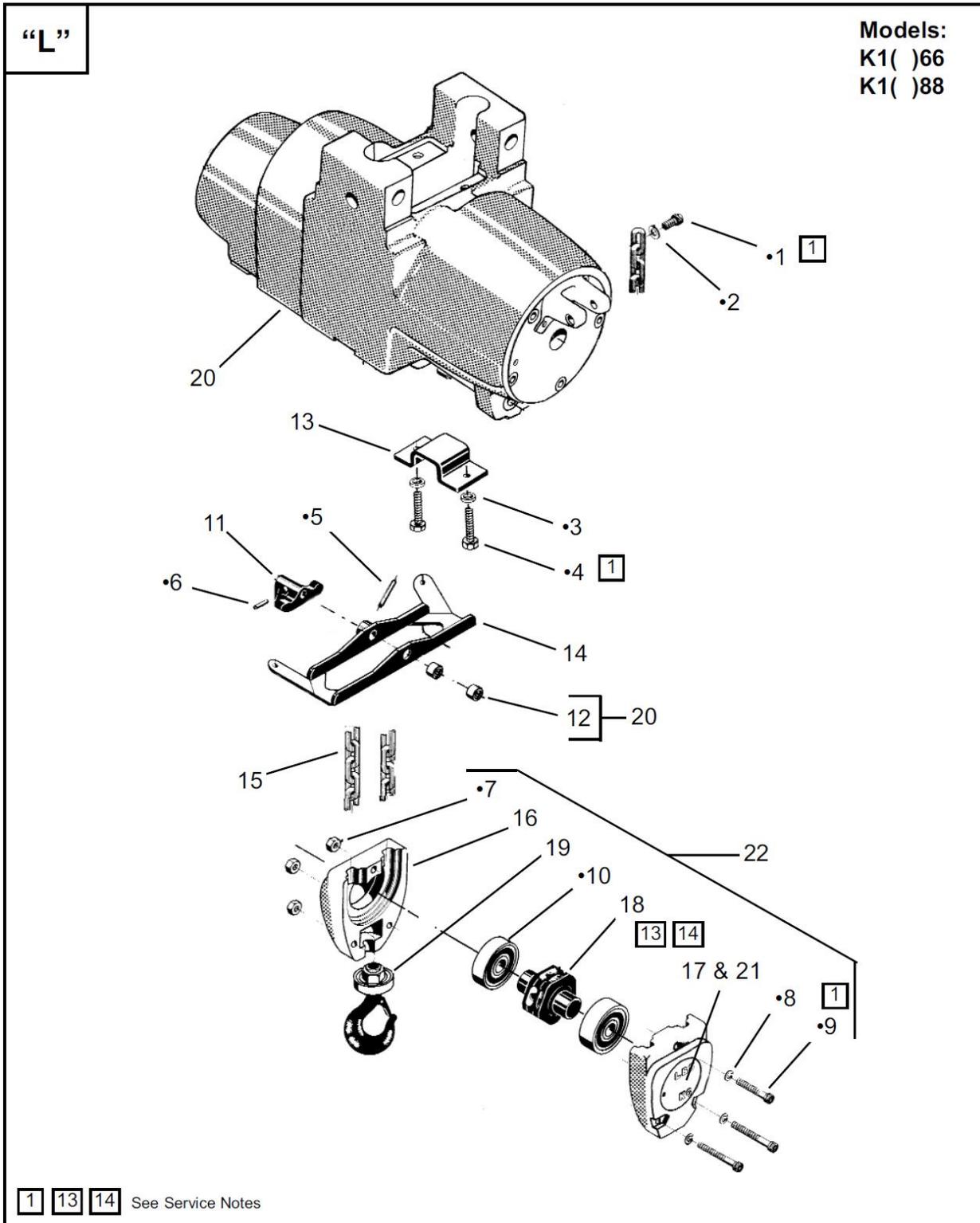
(Qty) Quantity / Stückzahl / Quantité / Cantidad / Quantità

· Recommended Spare Parts / Kennzeichnet empfohlenes / Identifica un particolare di ricambio  
raccomandato / Designa el repuesto recomendado / Indique la pièce de rechange conseillée

Table "K"

Index #	Description	Qty.	K1( )22		Qty.	K1( )33		Qty.	K1( )44	
			Standard	Bullard		Standard	Bullard		Standard	Bullard
14	Lower Hook	1	531008	531766	1	531008	531766	1	531008	531766
16	Lower Hook Asm.	1	531852	531768	1	531853	531769	1	531854	531770
17	Capacity Plate	1	531012	531012	1	531013	531013	1	531014	531014

## Lower Hook Assembly B



## Lower Hook Assembly B (parts)

Illustration "L" - Lower Hook Assembly [K1( )66... , K1( )88... ]

Index	Number	Qty	·	EN	DE	FR	ES	IT
				Description	Benennung	Designation	Descripcion	Descrizione
1	B115S	1	1	Screw	Gewindestift	Vis	Tornillo	Vite
2	516712	1	1	Washer	Scheibe	Rondelle	Arandela	Rondella
3	W124	2	2	Washer	Scheibe	Rondelle	Arandela	Rondella
4	B137L	2	2	Screw	Gewindestift	Vis	Tornillo	Vite
5	RP101X	1	1	Pin	Stift	Soupape	Valvula	Valvola
6	60229	1	1	Pin	Stift	Soupape	Valvula	Valvola
7	C107C	3	3	Nut	Mutter	Ecrou	Tuerca	Dado
8	W227	3	3	Washer	Scheibe	Rondelle	Arandela	Rondella
9	B137F	3	3	Screw	Gewindestift	Vis	Tornillo	Vite
10	531021	2	2	Bearing	Lager	Coussinet	Cojinete	Cuscinetto
11	522888	1		Rocker Arm	Schwinghebel	Bascule	Balancin	Albero oscillante
12	800161	3		Bearing	Lager	Coussinet	Cojinete	Cuscinetto
13	528704	1		Chain Stripper	Steuerhebel	Levier de commande	Palanca de control	Leva di comando
14	531015	1		Control Lever	Unterer Haken	Crochet inferieur	Gancho inferior	Gancio inferiore
15	542040	22ft		Chain -Standard	Kette	Chaîne	Cadena	Catena
	513131	22ft		Chain -Zinc Plated	Kette	Chaîne	Cadena	Catena
16	537306	2		Lower Block	Unterer Block	Bloc inferieur	Bloque inferior	Blocco inferiore
17	534820	6		Screw	Gewindestift	Vis	Tornillo	Vite
18	531020	1		Sprocket	Speichen	Dent de pignon	Rueda dentada	Dente di dentatura per catena
19	Table "L"	1		Lower Hook	Lower Haken	Crochet inferieur	Gancho inferior	Gancio inferiore
20	528779	1		Housing	Gehäuse	Cage	Caja	Corpe
21	Table "L"	1		Capacity Plate	Kapazitaetsschild	Plaque signaletique	Placa de capacidad	Piattello capacitivo
22	Table "L"	1		Lower Hook Asm.	Lower Haken	Crochet inferieur	Gancho inferior	Gancio inferiore

(Qty) Quantity / Stückzahl / Quantité / Cantidad / Quantità

· Recommended Spare Parts / Kennzeichnet empfohlenes / Identifica un particolare di ricambio raccomandato / Designa el repuesto recomendado / Indique la pièce de rechange conseillée

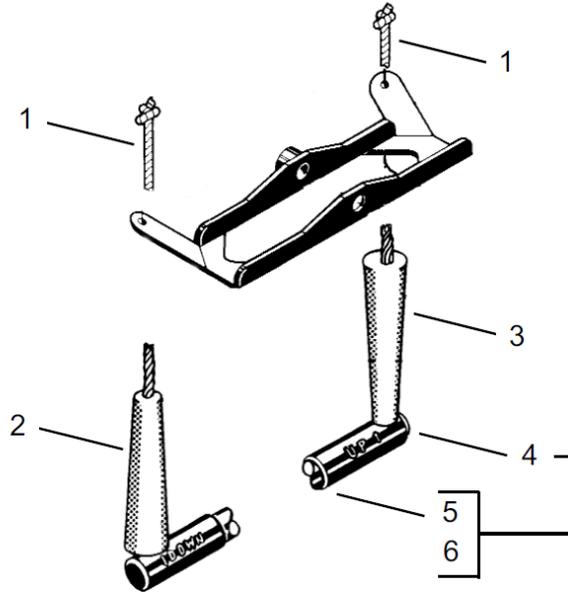
Table "L"

Index #	Description	Qty.	K1( )66		Qty.	K1( )88	
			Standard	Bullard		Standard	Bullard
19	Lower Hook	1	530228	531767	1	530228	531767
21	Capacity Plate	2	530366	530366	2	529303	529303
22	Lower Hook Asm.	1	530371	531773	1	530362	531774

## Rope Control & Auxiliary Cable

“M”

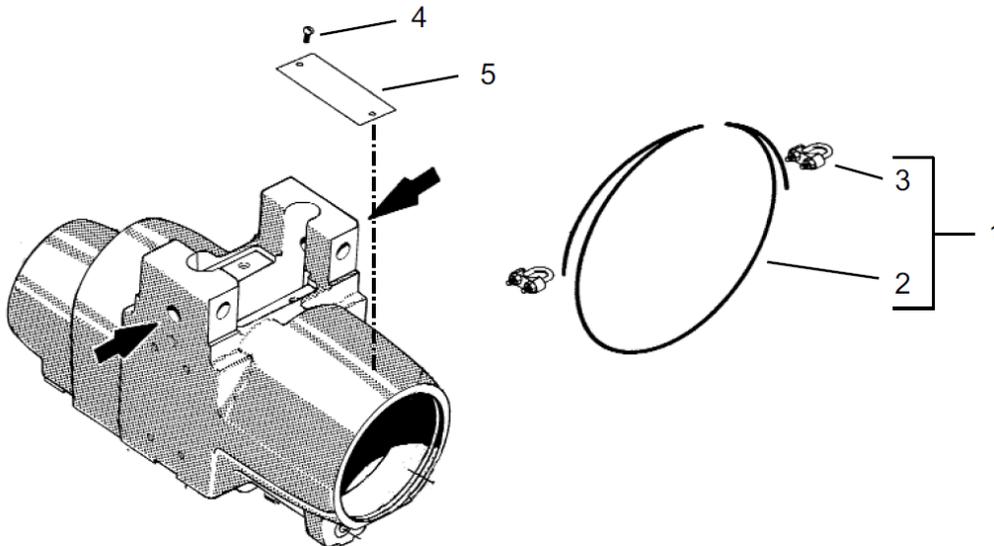
A108886 Rope Control Assembly



“N”

Auxiliary Cable Kits:  
520277: K1HA22, K1HA33, K1HA44  
520277 & A19791: K1HA66, K1HA88

Models:  
K1HA22  
K1HA33  
K1HA44  
K1HA66  
K1HA88



## Rope Control & Auxiliary Cable (parts)

### Illustration "M" - A108886 Rope Control Assembly - 6 ft. (1,8 M)

Index	Number	Qty	·	EN	DE	FR	ES	IT
				Description	Benennung	Designation	Descripcion	Descrizione
1	10888	2	*	Rope (6 ft.)	Zeil (1,8 M)	Cordage (1,8 M)	Cuerda (1,8 M)	Corda (1,8 M)
2	10886	1		Handle (Green)	Handgriff (Grün)	Poignee (Vert)	Manija (Verde)	Impugnatura (Verde)
3	10885	1		Handle (Red)	Handgriff (Rot)	Poignee (Rouge)	Manija (Rojo)	Impugnatura (Rosso)
4	A10887	1		Control Bar	Steuerstange	Barre de controle	Barra de control	Barra di comando
5	521743	1		Label	Aufkleber	Etiquette	Etiqueta	Etichette
6	B151L	2		Nail	Nagel	Clou	Clavo	Chiodo

(Qty) Quantity / Stückzahl / Quantité / Cantidad / Quantità

· Recommended Spare Parts / Kennzeichnet empfohlenes / Identifica un particolare di ricambio raccomandato / Designa el repuesto recomendado / Indique la pièce de rechange conseillée

\* Note: Specify desired rope length if other than standard 6 ft. (1,8 M).

### Illustration "N" - 520277 Auxiliary Cable Kit

Index	Number	Qty	·	EN	DE	FR	ES	IT
				Description	Benennung	Designation	Descripcion	Descrizione
<b>K1( )22... , K1( )33... , K1( )44...</b>								
1	A19791	1		Cable Assembly	Kabel	Câble	Cable	Cavo
2	19791	1		Cable (4 ft.)	Kabel (1,2 M)	Câble (1,2 M)	Cable (1,2 M)	Cavo (1,2 M)
3	19789	2		Clip	Klipp	Agrafe	Presilla	Graffa
4	534820	2		Screw	Gewindestift	Vis	Tornillo	Vite
5	520275	1		Caution Plate	Achtungsschild	Plaque d avertissement	Placa de instrucciones	Piastra di protezione
<b>K1( )66... , K1( )88...</b>								
1	A19791	2		Cable Assembly	Kabel	Câble	Cable	Cavo
2	19791	2		Cable (4 ft.)	Kabel (1,2 M)	Câble (1,2 M)	Cable (1,2 M)	Cavo (1,2 M)
3	19789	4		Clip	Klipp	Agrafe	Presilla	Graffa
4	534820	2		Screw	Gewindestift	Vis	Tornillo	Vite
5	520275	1		Caution Plate	Achtungsschild	Plaque d avertissement	Placa de instrucciones	Piastra di protezione

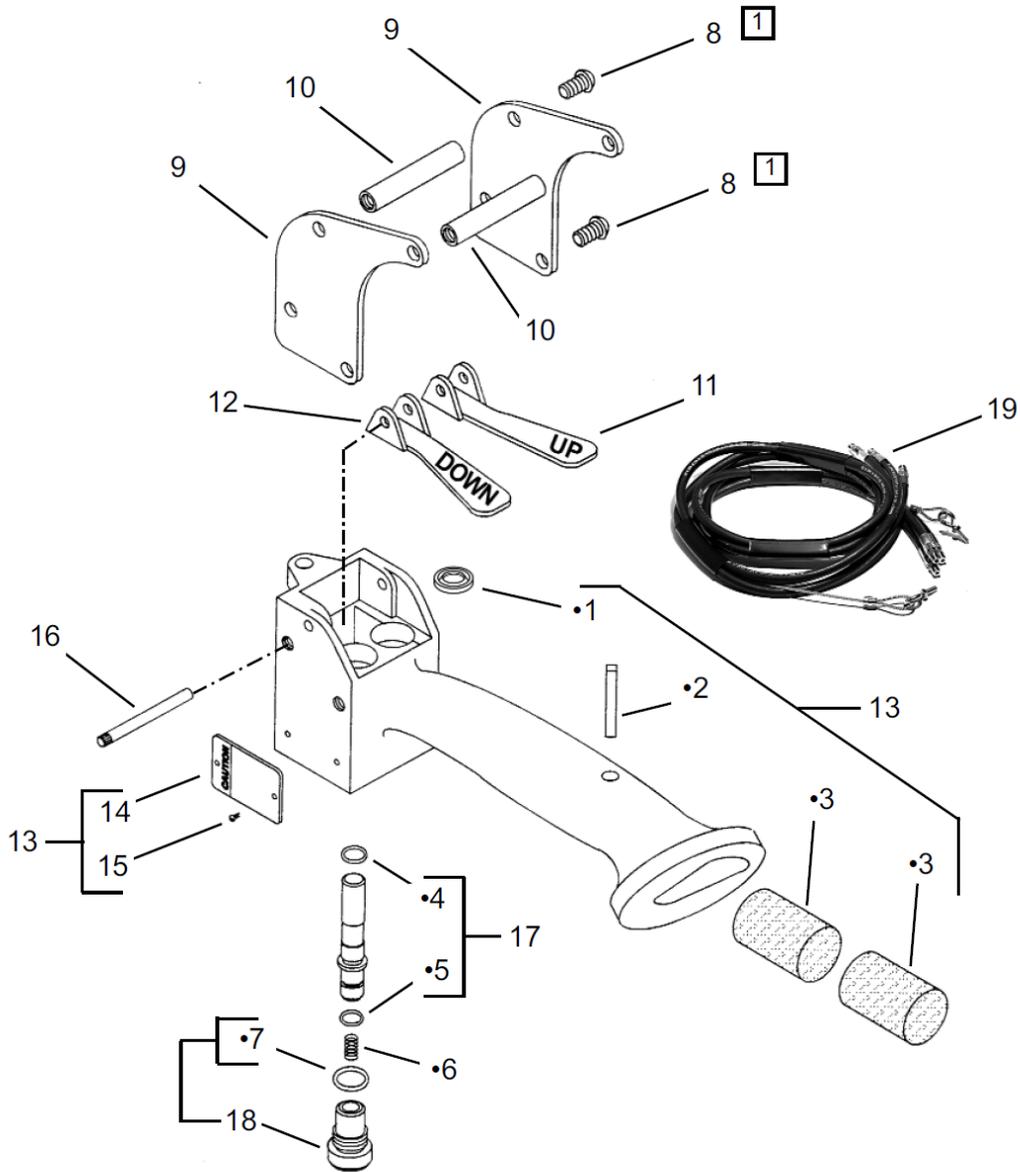
(Qty) Quantity / Stückzahl / Quantité / Cantidad / Quantità

· Recommended Spare Parts / Kennzeichnet empfohlenes / Identifica un particolare di ricambio raccomandato / Designa el repuesto recomendado / Indique la pièce de rechange conseillée

## Pendent Control Handle Assembly

“O”

540119 2-Lever Pendent Control Handle Assembly



1 See Service Notes



## Pendent Control Handle Assembly (parts)

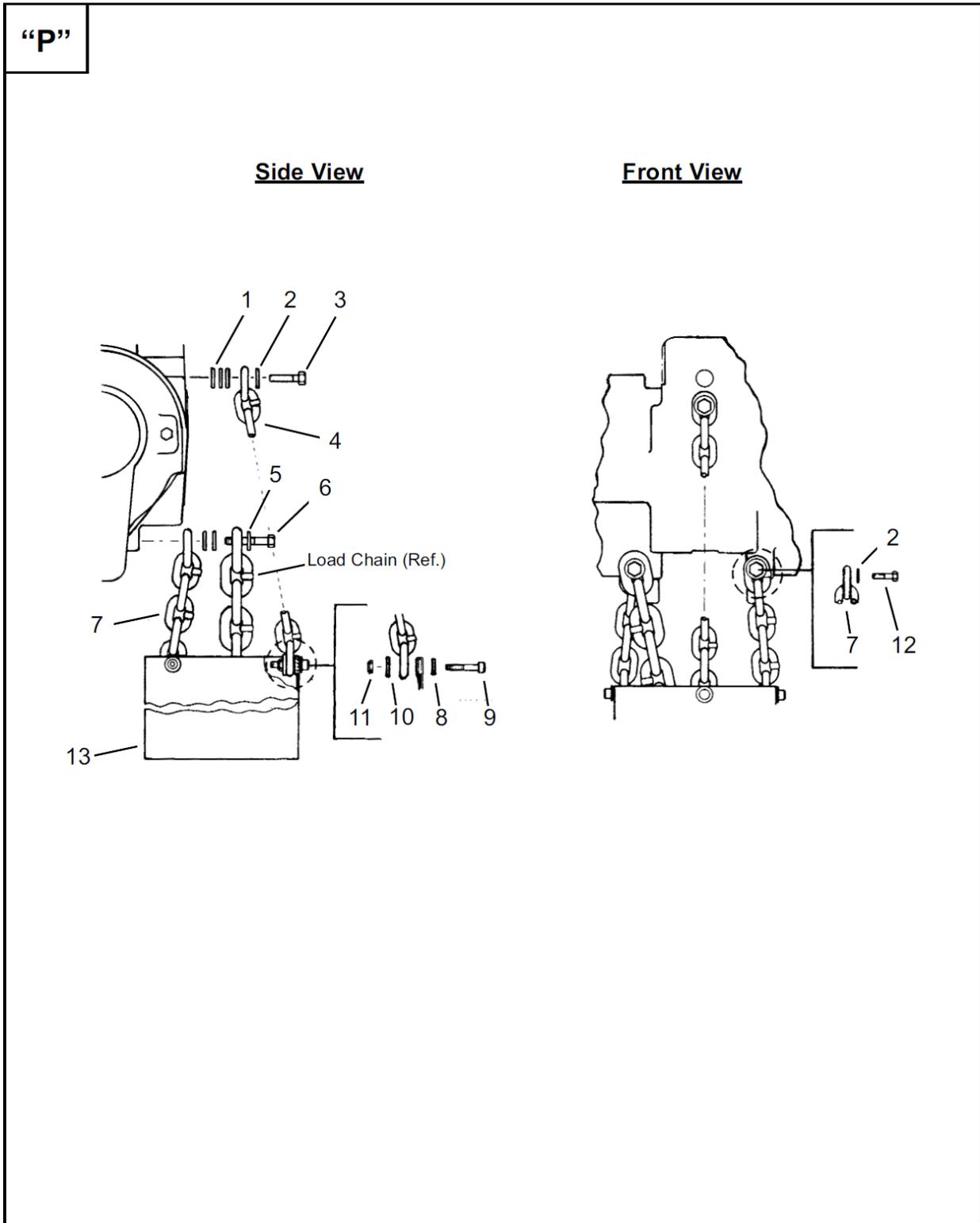
### Illustration "O" - 540119 2-Lever Pendent Control Handle Assembly

Index	Number	Qty	·	EN	DE	FR	ES	IT
				Description	Benennung	Designation	Descripcion	Descrizione
1	539714	2	2	Seal	Dichtung	Sceau	Sello	Guarnizione
2	RP103G	1	1	Pin	Stift	Goujon	Pasador	Spina
3	531753	2	2	Muffler	Auspufftopf	Silencieux	Silenciador	Silenziatore
4	504970	2	2	O-Ring	O-Ring	Anneau "O"	Anillo "O"	O-Ring
5	1008127	2	2	O-Ring	O-Ring	Anneau "O"	Anillo "O"	O-Ring
6	511608	2	2	Spring	Druckfeder	Ressort	Resorte	Molla
7	60351	2	2	O-Ring	O-Ring	Anneau "O"	Anillo "O"	O-Ring
8	B126N	8		Screw	Gewindestift	Vis	Tornillo	Vita
9	539865	2		Side Plate	Seitliche Platte	Plaque de serrage	Placa lateral	Piastra Laterale
10	539868	2		Spacer	Distanzstück	Entretoise	Espaciador	Distanziale
11	526275	1		Lever (Up)	Hebel	Levier	Palanca	Leva
12	526276	1		Lever (Down)	Hebel	Levier	Palanca	Leva
13	539409	1		Handle	Handgriff	Poignee	Manija	Impugnatura
14	521768	1		Caution Plate	Achtungsschild	Plaque d avertissement	Placa de instrucciones	Piastra di protezione
15	534820	2		Screw	Gewindestift	Vis	Tornillo	Vita
16	539834	1		Pin	Stift	Goujon	Pasador	Spina
17	539832	2		Valve	Ventil	Soupape	Valvula	Valvola
18	511610	2		Cap	Kappe	Chapeau	Tapa	Cappello
19	526150	1		Hose (5 ft.)	Schlauch (1,5 M)	Tuyau (1,5 M)	Manguera (1,5 M)	Tubo (1,5 M)
	526151	1		Hose (10 ft.)	Schlauch (3,0 M)	Tuyau (3,0 M)	Manguera (3,0 M)	Tubo (3,0 M)
	526152	1		Hose (15 ft.)	Schlauch (4,6 M)	Tuyau (4,6 M)	Manguera (4,6 M)	Tubo (4,6 M)

(Qty) Quantity / Stückzahl / Quantité / Cantidad / Quantità

· Recommended Spare Parts / Kennzeichnet empfohlenes / Identifica un particolare di ricambio  
raccomandato / Designa el repuesto recomendado / Indique la pièce de rechange conseillée

## Chain Container Assembly



## Chain Container Assembly (parts)

### Illustration "P" - Chain Container Assembly

Index	Number	Qty	·	EN	DE	FR	ES	IT
				Description	Benennung	Designation	Descripcion	Descrizione
--	Table "P"	1		Chain Container Assembly	Kettenbehälter	Nacelle à chaînes	Contenedor de cadena	Contentitore catena
1	516712	3		Washer	Scheibe	Rondelle	Arandela	Rondella
2	W185	2		Washer	Scheibe	Rondelle	Arandela	Rondella
3	B112H	1		Screw	Gewindestift	Vis	Tornillo	Vita
4	29962	*		Chain	Kette	Chaîne	Cadena	Catena
5	516712	3		Washer	Scheibe	Rondelle	Arandela	Rondella
6	B114O	1		Screw	Gewindestift	Vis	Tornillo	Vita
7	507245	**		Chain	Klammer	Support	Soporte	Staffa
8	W193	3		Washer	Scheibe	Rondelle	Arandela	Rondella
9	B129N	3		Screw	Gewindestift	Vis	Tornillo	Vita
10	515454	3		Washer	Scheibe	Rondelle	Arandela	Rondella
11	C105S	3		Nut	Mutter	Ecrou	Tuerca	Dado
12	B115S	1		Screw	Gewindestift	Vis	Tornillo	Vita
13	Table "P"	1		Chain Container	Kettenbehälter	Nacelle a chaînes	Contenedor de cadena	Contentitore catena

(Qty) Quantity / Stückzahl / Quantité / Cantidad / Quantità

· Recommended Spare Parts / Kennzeichnet empfohlenes / Identifica un particolare di ricambio raccomandato / Designa el repuesto recomendado / Indique la pièce de rechange conseillée

\*Note: Chain length is 15 links.

\*\*Note: Chain length is 6 links.

**Table "P"**

Index #	Description	Canvas Bag Assembly		
		20 ft. (6,1 M)	30 ft. (9,1 M)	40 ft. (12,2 M)
	Chain Bag Assembly	532275	532276	532277
13	Chain Bag	516646	516607	516647

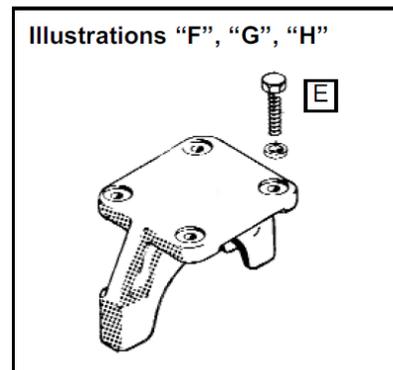
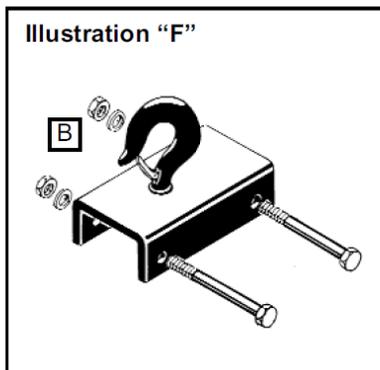
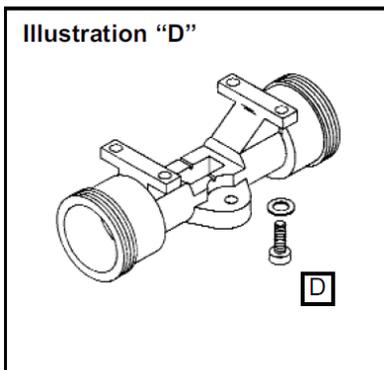
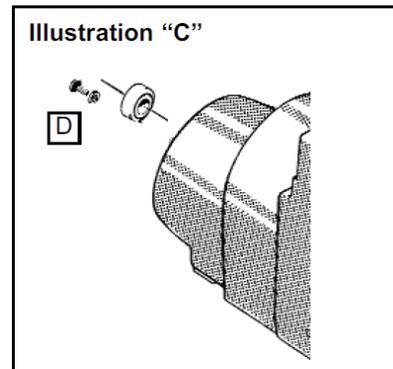
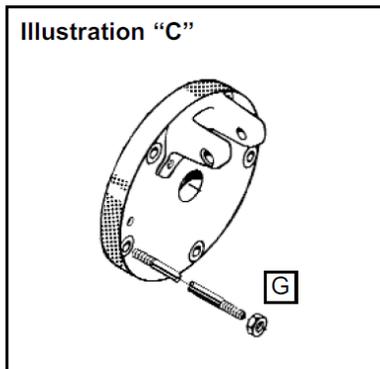
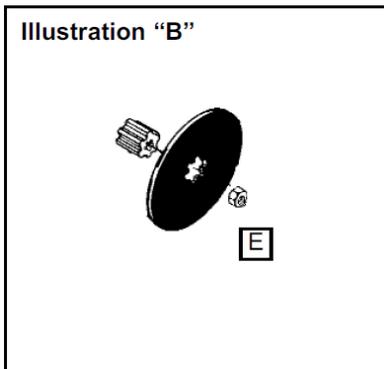
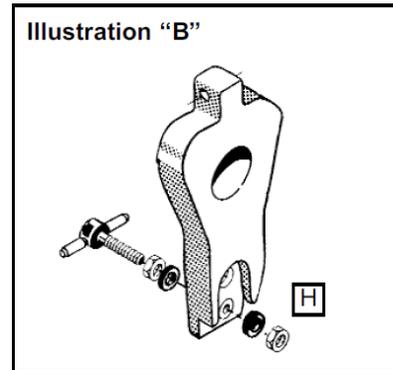
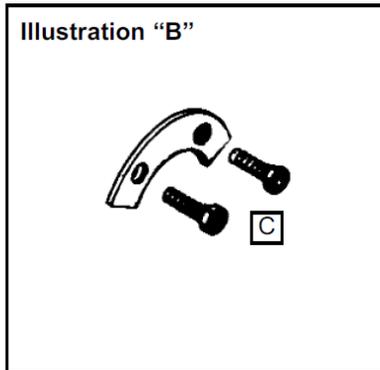
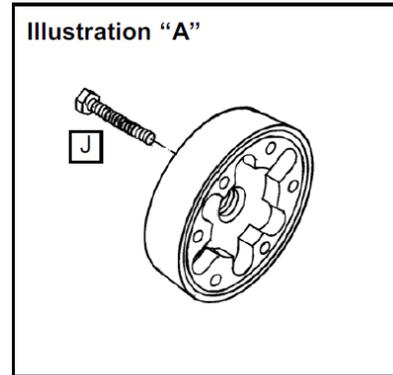
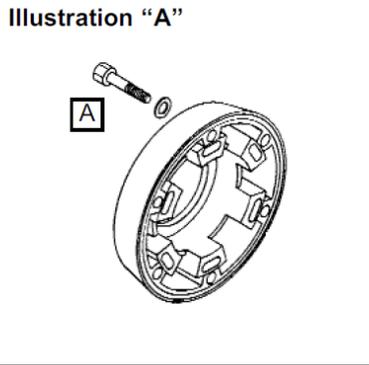
Index #	Description	Metal Basket Assembly				
		20 ft. (6,1 M)	40 ft. (12,2 M)	60 ft. (18,3 M)	80 ft. (24,4 M)	95 ft. (29,0 M)
	Chain Basket Assembly	534907	534908	534909	535070	539797
13	Chain Basket	539768	539769	539770	539771	539772



## Service Notes

1

- A** 25-30 In. Lbs. (2,8-3,4 Nm)
- B** 120-140 Ft. Lbs. (162,7-189,8 Nm)
- C** 6-8 Ft. Lbs. (8,1-10,8 Nm)
- D** 4-5 Ft. Lbs. (5,4-5,8 Nm)
- E** 10-12 Ft. Lbs. (13,6-16,3 Nm)
- F** 18-20 Ft. Lbs. (24,4-27,1 Nm)
- G** 13-15 Ft. Lbs. (17,6-10,3 Nm)
- H** 22-24 Ft. Lbs. (29,8-32,5 Nm)
- I** 200-220 Ft. Lbs. (271,2-298,3 Nm)
- J** 36-48 In. Lbs. (4,1-5,4 Nm)



## Service Notes

1

- A** 25-30 In. Lbs. (2,8-3,4 Nm)
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- J** 36-48 In. Lbs. (4,1-5,4 Nm)

Illustration "G"

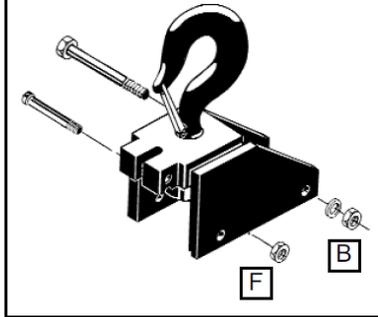
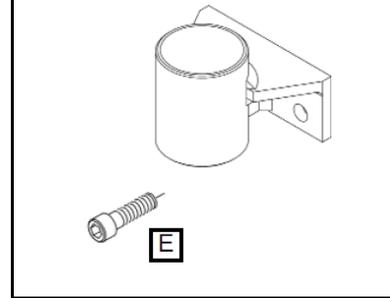


Illustration "G"



Illustrations "I", "J"

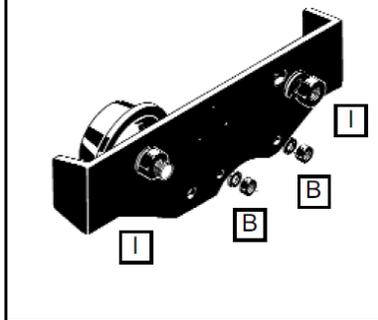


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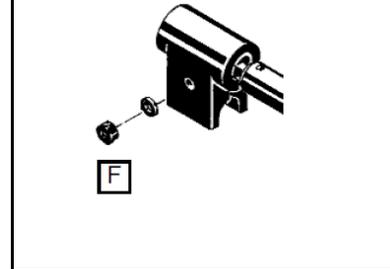
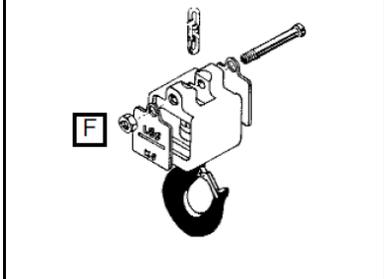
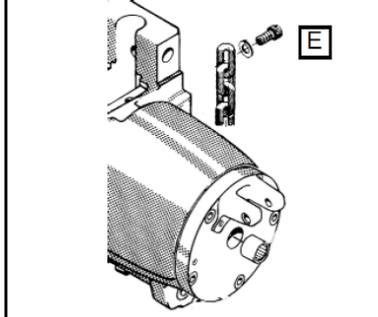


Illustration "K"



Illustrations "K", "L"



Illustrations "K", "L"

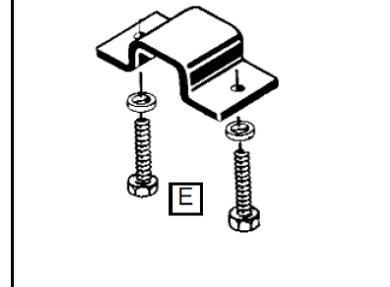


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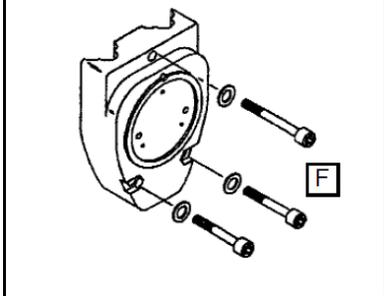


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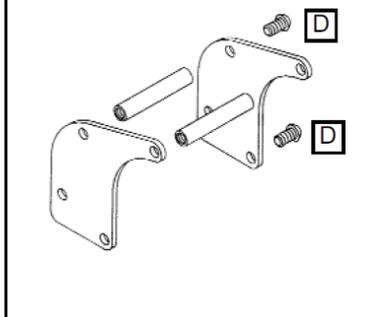
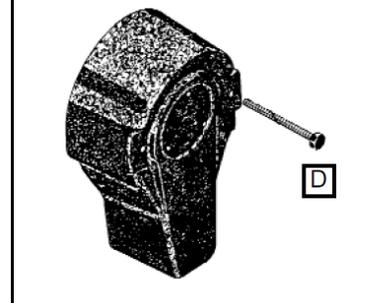


Illustration "B"



## Service Notes 2-8

**2 Illustration A**

EN: Assemble the rotor and cylinder with the cylinder exhaust slot positioned as shown.  
 DE: Den Rotor und Zylinder mit dem Auspußschlitz gemäß Abbildung montieren.  
 FR: Assembler le rotor et le cylindre avec la fente d'échappement comme il est montré.  
 ES: Ensamble el rotor y el cilindro con la ranura de escape colocada como se muestra.  
 IT: Montare il rotore ed il cilindro con la fessura di scarico posizionata come indicato.

**5 Illustration B**

When starting to lift load and load drifts down slightly, rotate brake roller assembly counterclockwise to provide power to load before opening brake.

**3 Illustration A**

Assembled WRONG! Assembled CORRECT!

Blade

Spring

CORRECT! Spring coil assembled against bottom of blade.

**6 Illustration C**

Tapered End

Starter pin used to expand retaining ring to aid assembly of idler gear.

Idler Gear

**4 Illustration B**

Brake Arm

Roller Assembly

Compress to .50" (12,7mm)

Brake Spring Screw

Lock Nut

Adjusting Nut

Control Rod & Brake Cam

Gap .01/.02" (0,25/0,51mm)

**7 Illustration C**

Bearing Spacer

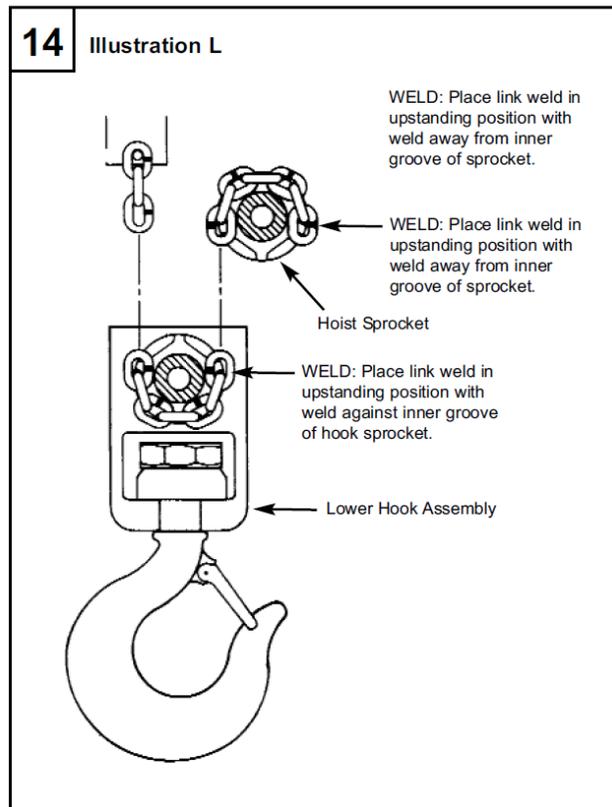
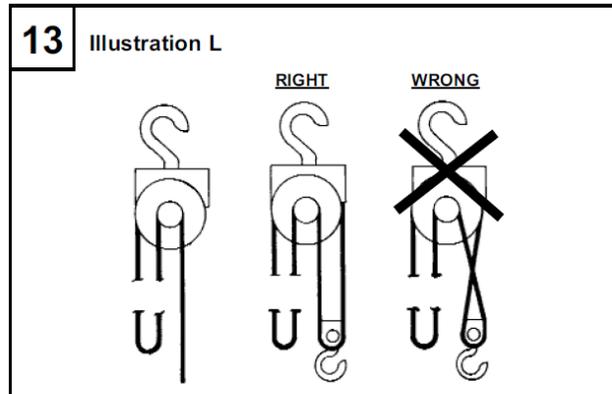
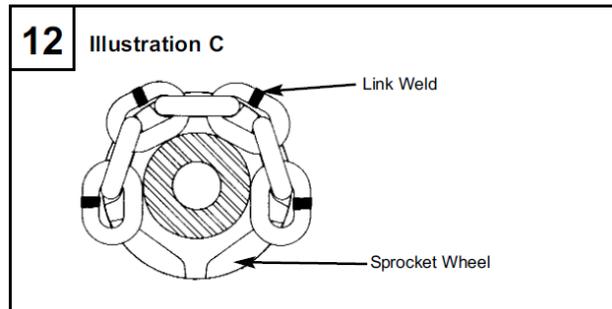
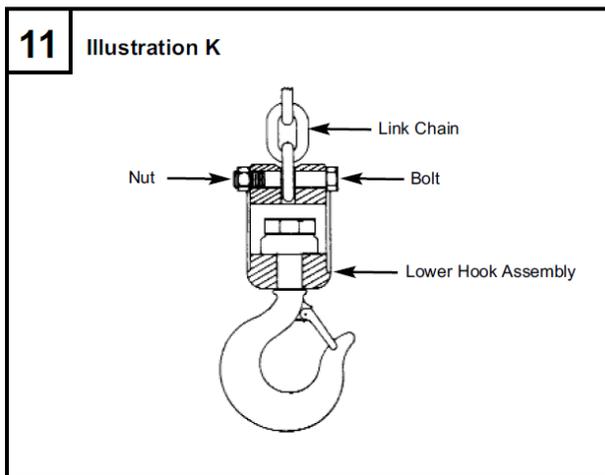
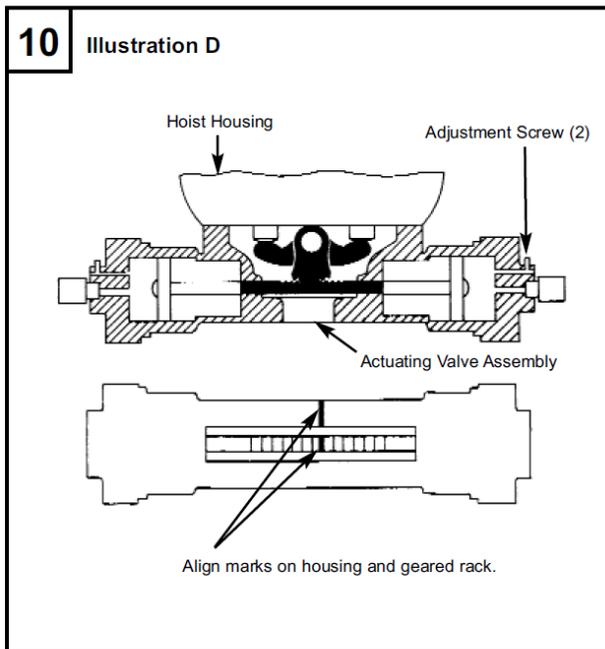
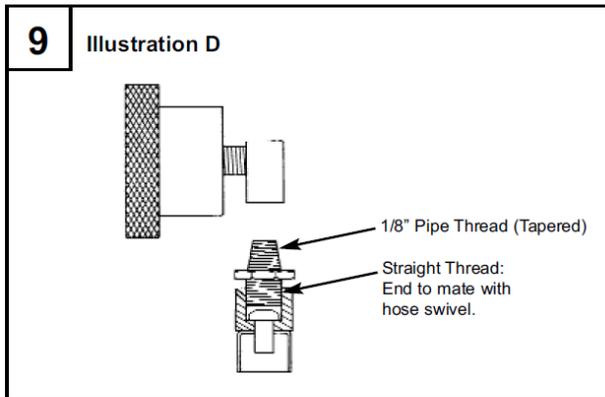
Bearing

**8 Illustration D**

Lowering Adjustment

Lifting Adjustment

## Service Notes 9-14



### Lifting and Lowering Speeds

K1( )22...												
Air Pressure	Direction	Load										
		lbs.	kg	lbs.	kg	lbs.	kg	lbs.	kg	lbs.	kg	
		0	0	550	250	1100	499	1650	748	2200	998	
PSI	Kg/CM2	Load Speed										
		fpm	mpm	fpm	mpm	fpm	mpm	fpm	mpm	fpm	mpm	
90	6.3	Lift	48	14.6	45	13.7	42	12.8	37	11.3	34	10.4
	Lower	38	11.6	42	12.8	45	13.7	48	14.6	53	16.1	
80	5.8	Lift	47	14.3	43	13.0	40	12.2	35	10.7	30	9.2
	Lower	37	11.3	40	12.2	44	13.4	47	14.3	53	16.1	
70	4.9	Lift	46	14.0	42	12.8	37	11.3	32	9.7	27	8.2
	Lower	35	10.7	39	11.9	43	13.0	47	14.3	53	16.1	
60	4.2	Lift	43	13.0	40	12.2	34	10.4	29	8.8	23	7.0
	Lower	34	10.4	38	11.6	43	13.0	47	14.3	52	15.8	
50	3.5	Lift	41	12.5	37	11.3	30	9.2	25	7.6	19	5.8
	Lower	31	9.4	37	11.3	40	12.2	45	13.7	51	15.5	
40	2.8	Lift	37	11.3	32	9.7	26	7.9	19	5.8	--	--
	Lower	29	8.8	34	10.4	40	12.2	44	13.4	--	--	

K1( )33...												
Air Pressure	Direction	Load										
		lbs.	kg	lbs.	kg	lbs.	kg	lbs.	kg	lbs.	kg	
		0	0	825	374	1650	748	2475	1123	3300	1497	
PSI	Kg/CM2	Load Speed										
		fpm	mpm	fpm	mpm	fpm	mpm	fpm	mpm	fpm	mpm	
90	6.3	Lift	32	9.7	29	8.8	27	8.2	24	7.3	22	6.7
	Lower	25	7.6	27	8.2	29	8.8	31	9.4	34	10.4	
80	5.8	Lift	31	9.4	28	8.5	26	7.9	23	7.0	20	6.1
	Lower	24	7.3	26	7.9	29	8.8	30	9.2	34	10.4	
70	4.9	Lift	30	9.2	27	8.2	24	7.3	21	6.4	19	5.8
	Lower	23	7.0	25	7.6	28	8.5	30	9.2	34	10.4	
60	4.2	Lift	28	8.5	26	7.9	22	6.7	19	5.8	16	4.9
	Lower	22	6.7	25	7.6	28	8.5	30	9.2	34	10.4	
50	3.5	Lift	27	8.2	24	7.3	20	6.1	16	4.9	13	4.0
	Lower	21	6.4	24	7.3	26	7.9	30	9.2	33	10.0	
40	2.8	Lift	24	7.3	21	6.4	17	5.2	13	4.0	--	--
	Lower	19	5.8	22	6.7	26	7.9	29	8.8	--	--	

K1( )44...												
Air Pressure	Direction	Load										
		lbs.	kg	lbs.	kg	lbs.	kg	lbs.	kg	lbs.	kg	
		0	0	1100	499	2200	998	3300	1497	4400	1996	
PSI	Kg/CM2	Load Speed										
		fpm	mpm	fpm	mpm	fpm	mpm	fpm	mpm	fpm	mpm	
90	6.3	Lift	23	7.0	21	6.4	20	6.1	17	5.2	16	4.9
	Lower	18	5.5	20	6.1	21	6.4	22	6.7	25	7.6	
80	5.8	Lift	22	6.7	20	6.1	19	5.8	16	4.9	15	4.6
	Lower	17	5.2	19	5.8	21	6.4	22	6.7	25	7.6	
70	4.9	Lift	21	6.4	20	6.1	17	5.2	15	4.6	14	4.3
	Lower	17	5.2	18	5.5	20	6.1	22	6.7	25	7.6	
60	4.2	Lift	20	6.1	19	5.8	16	4.9	14	4.3	11	3.3
	Lower	16	4.9	18	5.5	20	6.1	22	6.7	24	7.3	
50	3.5	Lift	19	5.8	17	5.2	14	4.3	12	3.7	9	2.7
	Lower	15	4.6	17	5.2	19	5.8	21	6.4	24	7.3	
40	2.8	Lift	18	5.5	15	4.6	12	3.7	9	2.7	--	--
	Lower	14	4.3	16	4.9	19	5.8	21	6.4	--	--	



### Lifting and Lowering Speeds cont'd

K1( )66...												
Air Pressure		Direction	Load									
			lbs.	kg	lbs.	kg	lbs.	kg	lbs.	kg		
			0	0	1650	748	3300	1497	4950	2245	6600	2994
		Load Speed										
PSI	Kg/CM2		fpm	mpm	fpm	mpm	fpm	mpm	fpm	mpm	fpm	mpm
90	6.3	Lift	16	4.9	15	4.6	14	4.3	12	3.7	11	3.3
		Lower	12	3.7	14	4.3	15	4.6	16	4.9	17	5.2
80	5.8	Lift	16	4.9	14	4.3	13	4.0	11	3.3	10	3.0
		Lower	12	3.7	13	4.0	14	4.3	15	4.6	17	5.2
70	4.9	Lift	15	4.6	14	4.3	12	3.7	11	3.3	9	2.7
		Lower	12	3.7	13	4.0	14	4.3	15	4.6	17	5.2
60	4.2	Lift	14	4.3	13	4.0	11	3.3	9	2.7	8	2.4
		Lower	11	3.3	12	3.7	14	4.3	15	4.6	17	5.2
50	3.5	Lift	13	4.0	12	3.7	10	3.0	8	2.4	6	1.8
		Lower	10	3.0	12	3.7	13	4.0	15	4.6	16	4.9
40	2.8	Lift	12	3.7	11	3.3	8	2.4	6	1.8	--	--
		Lower	9	2.7	11	3.3	13	4.0	14	4.3	--	--

K1( )88...																				
Air Pressure		Direction	Load																	
			lbs.	kg	lbs.	kg	lbs.	kg	lbs.	kg	lbs.	kg	lbs.	kg	lbs.	kg	lbs.	kg		
			0	0	1100	499	2200	998	3300	1497	4400	1996	5500	2495	6600	2994	7700	3493	8800	3992
		Load Speed																		
PSI	Kg/CM2		fpm	mpm	fpm	mpm	fpm	mpm	fpm	mpm	fpm	mpm	fpm	mpm	fpm	mpm	fpm	mpm		
90	6.3	Lift	11	3.4	11	3.4	11	3.4	10	3.0	10	3.0	9	2.7	9	2.7	8	2.4	8	2.4
		Lower	9	2.7	9	2.7	10	3.0	10	3.0	11	3.4	11	3.4	11	3.4	12	3.6	12	3.6
80	5.8	Lift	11	3.4	12	3.6	10	3.0	10	3.0	10	3.0	9	2.7	8	2.4	8	2.4	7	2.1
		Lower	9	2.7	9	2.7	9	2.7	10	3.0	10	3.0	11	3.4	11	3.4	12	3.6	12	3.6
70	4.9	Lift	11	3.4	10	3.0	10	3.0	9	2.7	9	2.7	8	2.4	8	2.4	7	2.1	7	2.1
		Lower	8	2.4	9	2.7	9	2.7	10	3.0	10	3.0	10	3.0	11	3.4	12	3.6	12	3.6
60	4.2	Lift	10	3.0	10	3.0	10	3.0	9	2.7	8	2.4	7	2.1	7	2.1	6	1.8	6	1.8
		Lower	8	2.4	8	2.4	9	2.7	9	2.7	10	3.0	10	3.0	11	3.4	11	3.4	12	3.6
50	3.5	Lift	10	3.0	9	2.7	9	2.7	8	2.4	7	2.1	6	1.8	6	1.8	5	1.5	5	1.5
		Lower	7	2.1	8	2.4	9	2.7	9	2.7	10	3.0	10	3.0	11	3.4	11	3.4	12	3.6
40	2.8	Lift	9	2.7	8	2.4	8	2.4	7	2.1	6	1.8	5	1.5	5	1.5	--	--	--	--
		Lower	7	2.1	7	2.1	8	2.4	9	2.7	9	2.7	10	3.0	10	3.0	--	--	--	--

FOR QUESTIONS, TECHNICAL AND WARRANTY SUPPORT:

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