



## Parts Manual • Ersatzteil Liste

### P3 Series Hoist/Hoistractor Low Headroom



	P3	N	X	XX	L	P	X	P	-	X	X	A	XX														
<b>Series</b> P3																											
<b>Mounting Type</b> N = Combination (Low Headroom)																											
<b>Features</b> A = Standard Unit H = Hi Temp Grease P = Epoxy Paint S = Epoxy Paint/Hi Temp Grease																											
<b>Capacity</b> 22 = 2200 lbs. 43 = 4300 lbs.																											
<b>Chain Type</b> L = Link																											
<b>Control Type</b> P = Pendant (Standard)																											
<b>Control Length</b> E = 5 ft.    J = 10 ft.    O = 15 ft.    T = 20 ft.    Y = 25 ft. F = 6 ft.    K = 11 ft.    P = 16 ft.    U = 21 ft.    Z = None G = 7 ft.    L = 12 ft.    Q = 17 ft.    V = 22 ft. H = 8 ft.    M = 13 ft.    R = 18 ft.    W = 23 ft. I = 9 ft.    N = 14 ft.    S = 19 ft.    X = 24 ft.																											
<b>Chain Options</b> P = Zinc Plated Link																											
<b>Amount of Lift</b> — Specify Length in feet, 3 digits. Example: 10' lift = 010																											
<b>Tractor / Trolley</b> <table border="0"> <tr> <td><b>Standard Unit</b></td> <td><b>Hi Temp Grease Unit</b></td> </tr> <tr> <td>A = Standard Speed Tapered</td> <td>I = Standard Speed Tapered</td> </tr> <tr> <td>B = Standard Speed Flat</td> <td>J = Standard Speed Flat</td> </tr> <tr> <td>D = Slow Speed Tapered</td> <td>K = Slow Speed Tapered</td> </tr> <tr> <td>E = Slow Speed Flat</td> <td>L = Slow Speed Flat</td> </tr> <tr> <td>G = High Speed Tapered</td> <td>M = High Speed Tapered</td> </tr> <tr> <td>H = High Speed Flat</td> <td>N = High Speed Flat</td> </tr> </table>	<b>Standard Unit</b>	<b>Hi Temp Grease Unit</b>	A = Standard Speed Tapered	I = Standard Speed Tapered	B = Standard Speed Flat	J = Standard Speed Flat	D = Slow Speed Tapered	K = Slow Speed Tapered	E = Slow Speed Flat	L = Slow Speed Flat	G = High Speed Tapered	M = High Speed Tapered	H = High Speed Flat	N = High Speed Flat													
<b>Standard Unit</b>	<b>Hi Temp Grease Unit</b>																										
A = Standard Speed Tapered	I = Standard Speed Tapered																										
B = Standard Speed Flat	J = Standard Speed Flat																										
D = Slow Speed Tapered	K = Slow Speed Tapered																										
E = Slow Speed Flat	L = Slow Speed Flat																										
G = High Speed Tapered	M = High Speed Tapered																										
H = High Speed Flat	N = High Speed Flat																										
<b>Lower Support</b> A = Standard Hook (1-1/8" opening) B = Large Hook (1-11/32" opening) C = Shackles (1-1/16" W x 1" H opening)																											
<b>Vintage</b> A																											
<b>Capacity Rating (lbs.)</b> 10 = 1000 (22) 15 = 1500 (22) 20 = 2000 (22/43) 22 = 2200 (22/43) 40 = 4000 (43) 43 = 4300 (43)																											

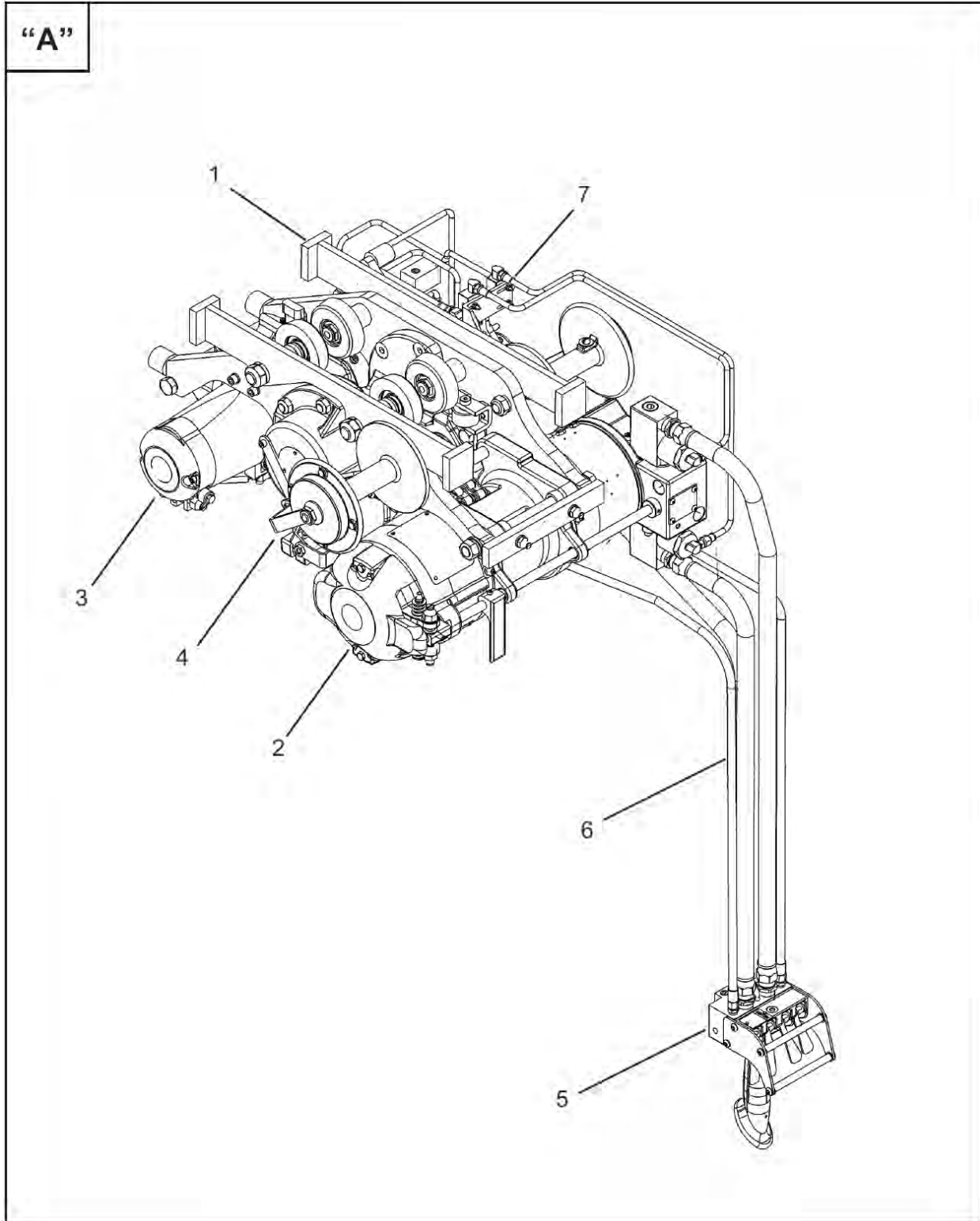


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Low Headroom Hoist/Hoistractor Combination A



## Low Headroom Hoist/Hoistractor Combination A (parts)

Illustration "A" - Low Headroom Combination

Index	Number	#	-	E N	D F	F R	E S	IT
				Description	Benennung	Designation	Description	Descrizione
1	528215	1		Trolley Assembly	Wagen	Trolley	Trole	Carrello
2	Table "A"	1		Motor Assembly	Motorbaugruppe	Ensemble du moteur	Ensamblaje del motor	Gruppo motore
3	Table "A1"	1		Hoistractor	Hoistractor	Hoistractor	Hoistractor	Hoistractor
4	518683	2		Chain Reel	Spule	bobine	carrete	bobina
5	539856	1		Pendent Control	Fernschaltung	Télécommande	El Mando a distancia	Il Comando a distanza
6	518504	1		Hose Asm. (5 ft.)	Schlauchbaugruppe	Assemblage de tuyau	Ensamblaje de manguera	Insieme tubo flessibile
7	532888	1		Limit Stop Kit	Anschlag begrenzen	Arrêt de fin de course	Limitar parada	Arresto di fine corsa

#) 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 "A"

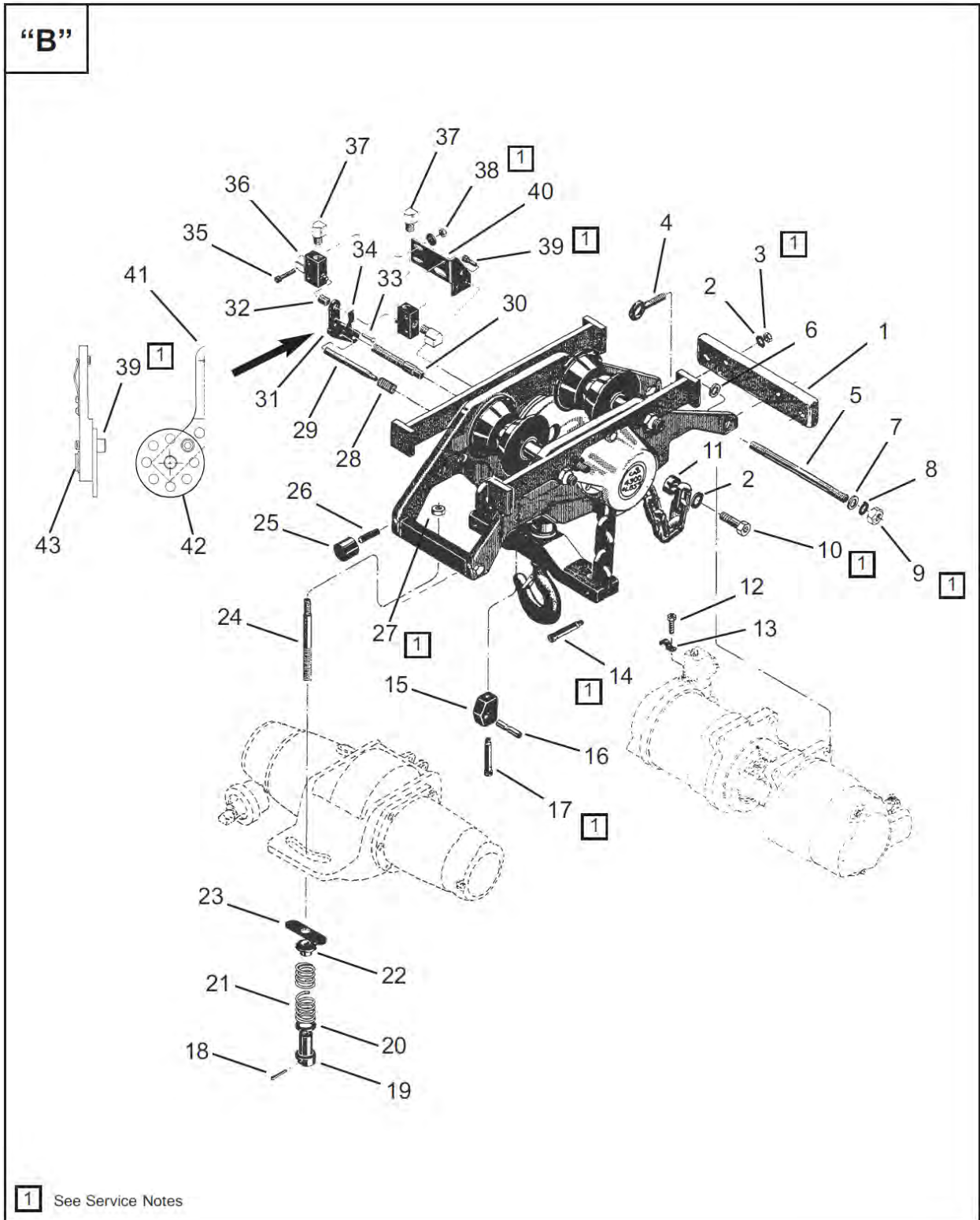
Index	Description	Qty.	P3NA22	Qty.	P3NA43
2	Motor Assembly	1	513180	1	513181

Table "A1"

Index	Description	Part No.	Speed	Drive Type
3	Hoistractor	513208	Standard	Sprocket
	Hoistractor	513209	High	Sprocket
	Hoistractor	516678	Slow	Sprocket
	Hoistractor	513183	Standard	Neoprene Wheel
	Hoistractor	513196	High	Neoprene Wheel
	Hoistractor	513197	Slow	Neoprene Wheel
	Hoistractor	539532	Standard	Adiprene Wheel



## Low Headroom Hoist/Hoistractor Combination B



## Low Headroom Hoist/Hoistactor Combination B (parts)

Illustration "B" - Low Headroom Combination

Index	Number	#	-	EN	DE	FR	ES	IT
				Description	Benennung	Designation	Description	Descrizione
1	529334	1		Tension Bar	Stab	Barre	La barra	La sbarra
2	W161	4	8	Washer	Scheibe	Rondelle	Arandela	Rondella
3	C104M	2	4	Nut	Mutter	Ecrou	Tuerca	Dado
4	529333	2		Tension Rod	Stange	Tige	Varilla	Asta
5	508389	2		Mounting Stud	Bolzen	Goujon	Espárrago	Perno sporgente
6	504810	2	4	Washer	Scheibe	Rondelle	Arandela	Rondella
7	504809	4	8	Washer	Scheibe	Rondelle	Arandela	Rondella
8	W183	4	8	Washer	Scheibe	Rondelle	Arandela	Rondella
9	B106	4	8	Nut	Mutter	Ecrou	Tuerca	Dado
10	B156U	2	2	Screw	Schraube	Vis	Tornillo	Vite
11	515442	2		Spacer	Distanzstück	Entretoise	Espaciador	Distanziale
12	B125Z	2	4	Screw	Schraube	Vis	Tornillo	Vite
13	515398	2	2	Strap	Riemen	Courroie	Banda	Cinghia
14	B120W	2		Bolt	Bolzen	Boulon	Perno	Dado
15	513176	1		Adapter	Zwischenstück	Adaptateur	Adaptador	Adattatore
16	513177	1		Pin	Stift	Goupille cylindrique	Pasador	Spina
17	B138K	1		Screw	Schraube	Vis	Tornillo	Vite
18	P101D	1	3	Pin	Stift	Goupille cylindrique	Pasador	Spina
19	60145	1	1	Spring Nut	Mutter	Ecrou	Tuerca	Dado
20	W178	1	1	Washer	Scheibe	Rondelle	Arandela	Rondella
21	515392	1	2	Spring	Druckfeder	Ressort	Resorte	Molla
22	60144	1		Spherical Washer	Scheibe	Rondelle	Arandela	Rondella
23	509130	1		Plate	Platte	Plaque	Placa	Piattello
24	515419	1	1	Stud	Bolzen	Goujon	Espárrago	Perno sporgente
25	513992	2		Bumper	Stoßstange	Pare-chocs	Los parachoques	Il paraurti
26	528155	2		Stud	Bolzen	Goujon	Espárrago	Perno sporgente
27	C107C	1	2	Nut	Mutter	Ecrou	Tuerca	Dado
28	1101	1	3	Spring	Druckfeder	Ressort	Resorte	Molla
29	Table "B"	1		Actuator Rod	Schalstange	Tige de commande	Varilla de mando	Asta di comando
30	Table "B"	1		Mounting Stud	Bolzen	Goujon	Espárrago	Perno sporgente
31	535049	1		Limit Actuator	Betätigen Sie	Actionner	Accione	Azionare
32	B134J	1		Adjusting Screw	Schraube	Vis	Tornillo	Vite
33	T101E	2		Rivet	Niet	Rivet	Remache	Chiodo
34	507744	1	3	Spring	Druckfeder	Ressort	Resorte	Molla
35	B126M	4		Screw	Schraube	Vis	Tornillo	Vite
36	507261	2		Valve	Ventil	Soupape	Válvula	Valvola
37	F511	4	2	Elbow	Ellbogen	Coude	Codo	Curva
38	C104A	4	8	Nut	Mutter	Ecrou	Tuerca	Dado
39	B115N	3	6	Screw	Schraube	Vis	Tornillo	Vite
40	Table "B"	1		Adjusting Plate	Platte	Plaque	Placa	Piattello
41	535409	1		Limit Stop Actuator	Betätigen Sie	Actionner	Accione	Azionare
42	535048	1		Limit Stop Indexer	Index	Index	Indice	Indice
43	800131	1	3	Retaining Ring	Sicherungsring	Anneau de fixation	Anillo de retención	Anello di fissaggio

#) Quantity / Stückzahl / Quantité / Cantidad / Quantità

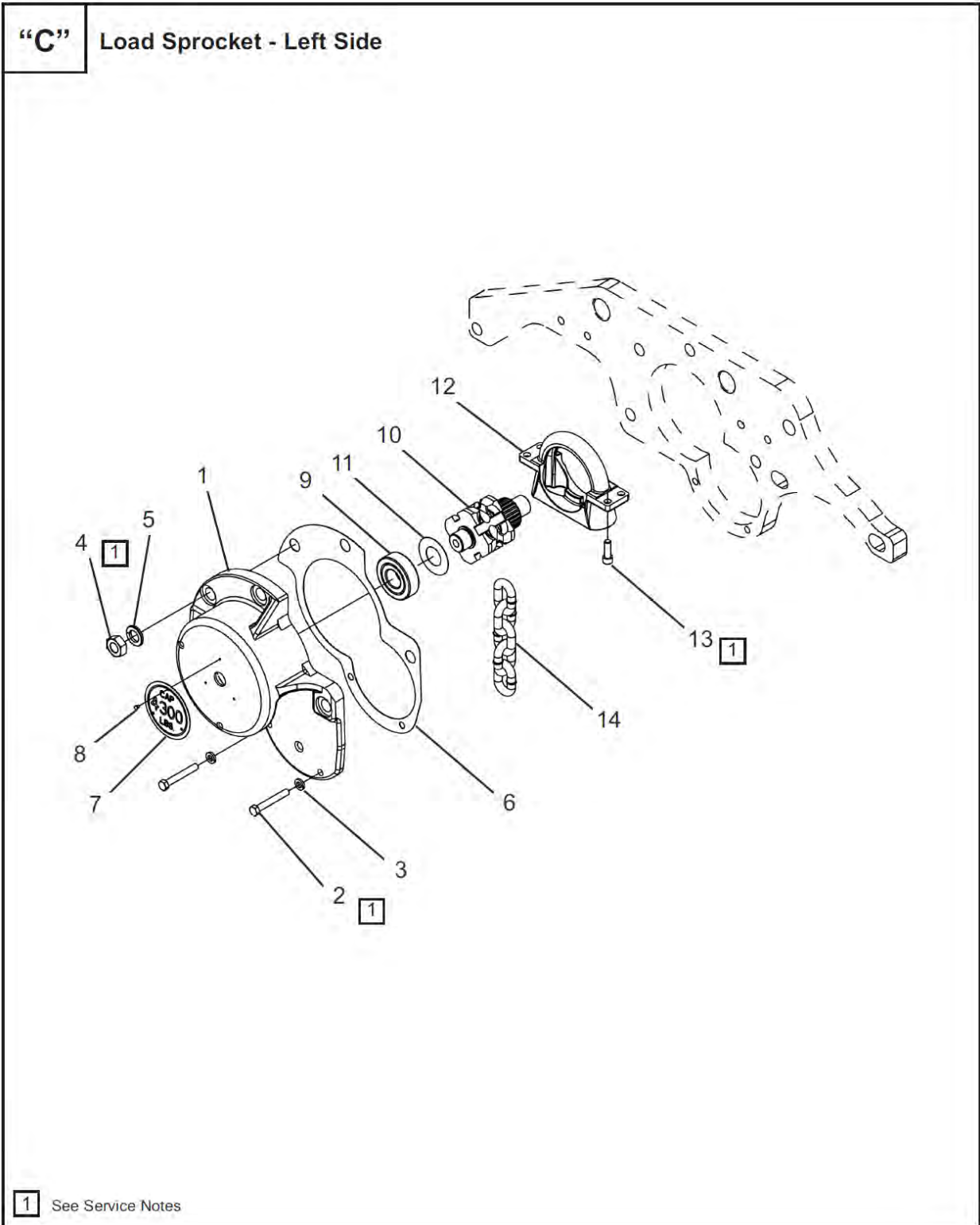
• Recommended Spare Parts / Kennzeichnet empfohlenes / Identifica un particolare di ricambio raccomandato / Designa el repuesto recomendado / Indique la pièce de rechange conseillée

Table "B"

Index	Description	8-14 Ft. Lift	15-40 Ft. Lift
29	Actuator Rod	507309	514694
30	Mounting Stud	507280	514691
40	Adjusting Plate	507307	514692



## 528215 Low Headroom Trolley Assembly A



## 528215 Low Headroom Trolley Assembly A (parts)

### Illustration "C" - Load Sprocket - Left Side

Index	Number	#	•	EN	DE	FR	ES	IT
				Description	Benennung	Designation	Description	Descrizione
1	527498	1		Left Housing	Gehäuse	Corps	Caja	Corpo
2	B128M	2	2	Screw	Gewindestift	Vis	Tornillo	Vite
3	W150	2	4	Washer	Scheibe	Rondelle	Arandela	Rondella
4	C105U	3	3	Nut	Mutter	Ecrou	Tuerca	Dado
5	W179	3	3	Washer	Scheibe	Rondelle	Arandela	Rondella
6	528151	1	3	Gasket	Dichtung	Joint d'étanchéité	Empaquetadura	Guarnizione
7	Table "B"	1		Capacity Plate	Kapazitaetsschild	Plaque signalétique	Placa de capacidad	Piattello capacitivo
8	1443700	3		Screw	Gewindestift	Vis	Tornillo	Vite
9	31165	1	2	Bearing	Lager	Coussinet	Cojinete	Cuscinetto
10	507240	1		Sprocket	Speichen	Dent de pignon	Rueda dentada	Dente di dentatura per catena
11	539095	1	2	Spring Washer	Federnde Unterlegscheibe	Rondelle élastique	Arandela elástica	Guarnizione elastica
12	507262	1		Chain Guide	Kettenfuehrung	Guide-chaine	Guía de cadena	Guida della catena
13	B125Z	4		Screw	Gewindestift	Vis	Tornillo	Vite
14	507245	1		Chain (11 ft.)	Kette	Chaîne	Cadena	Catena

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Table "C"

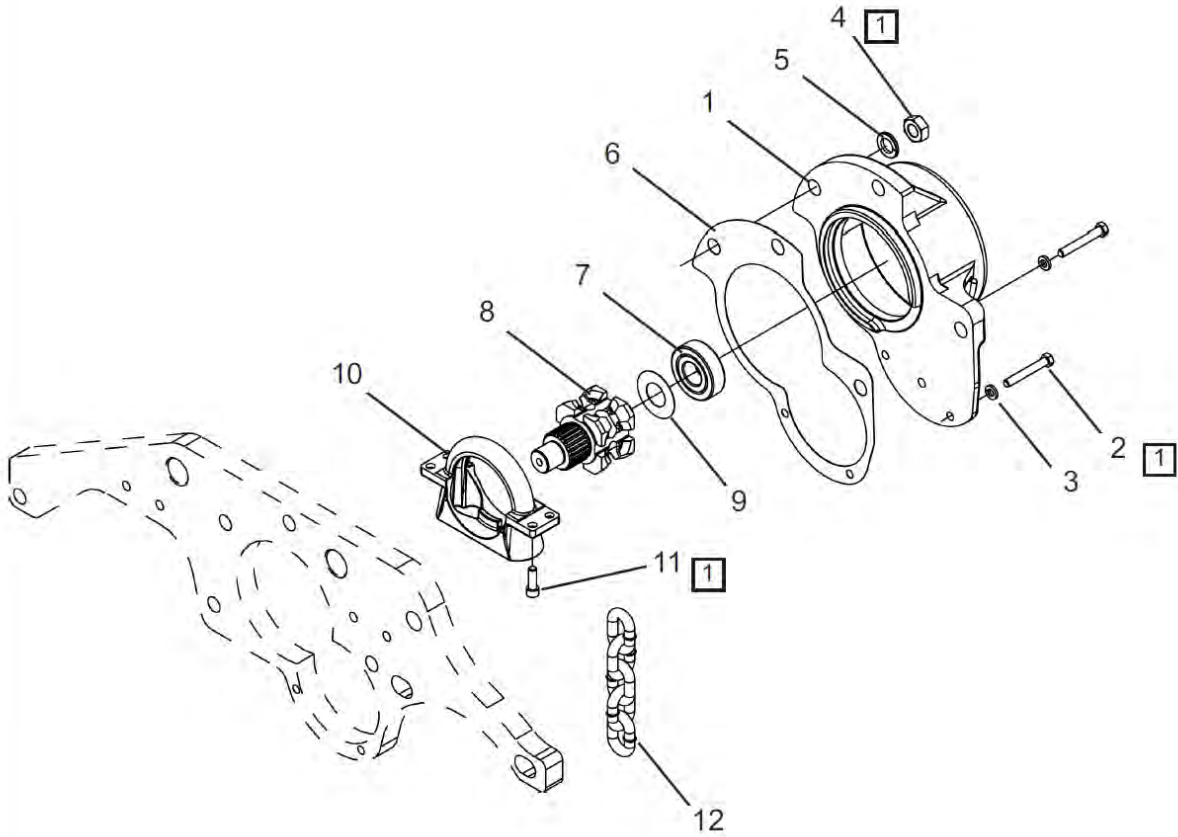
Index	Description	Qty.	P3NA22	Qty.	P3NA43
7	Capacity Plate	1	528259	1	526545





## 528215 Low Headroom Trolley Assembly B

**“D”** Load Sprocket - Right Side



**1** See Service Notes



## 528215 Low Headroom Trolley Assembly B (parts)

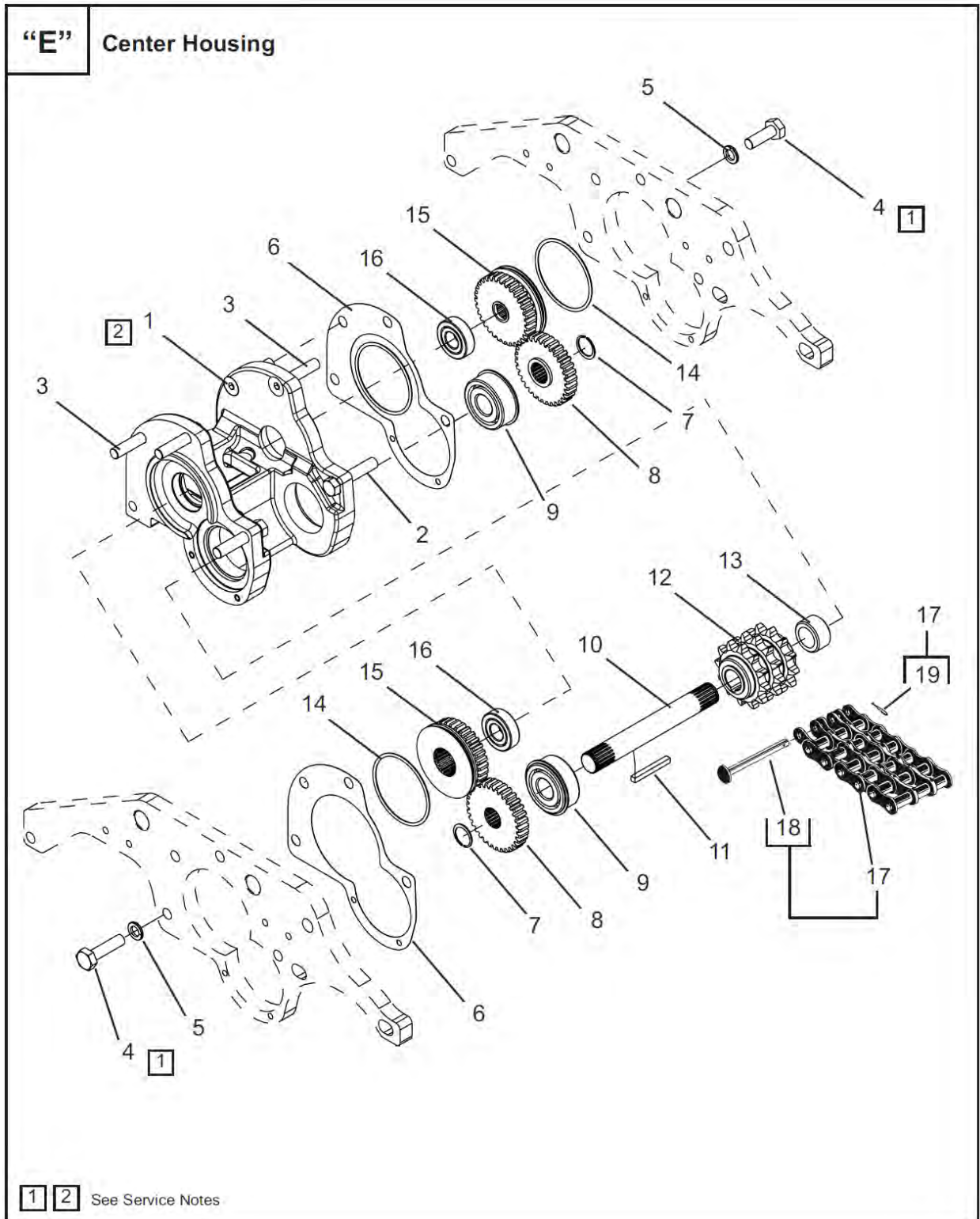
### Illustration "D" - Load Sprocket - Right Side

Index	Number	#	•	EN	DE	FR	ES	IT
				Description	Benennung	Designation	Description	Descrizione
1	527499	1		Right Housing	Gehäuse	Corps	Caia	Corpo
2	B128M	2	2	Screw	Gewindestift	Vis	Tornillo	Vite
3	W150	2	4	Washer	Scheibe	Rondelle	Arandela	Rondella
4	C105U	3	3	Nut	Mutter	Ecrou	Tuerca	Dado
5	W179	3	3	Washer	Scheibe	Rondelle	Arandela	Rondella
6	528151	1	3	Gasket	Dichtung	Joint d'étanchéité	Empaquetadura	Guarnizione
7	31165	1	2	Bearing	Lager	Coussinet	Cojinete	Cuscinetto
8	507240	1		Sprocket	Speichen	Dent de pignon	Rueda dentada	Dente di dentatura per catena
9	539095	1	2	Spring Washer	Federnde Unterlegscheibe	Rondelle élastique	Arandela elástica	Guarnizione elastica
10	507262	1		Chain Guide	Kettenfuehrung	Guide-chaine	Guía de cadena	Guida della catena
11	B125Z	4		Screw	Gewindestift	Vis	Tornillo	Vite
12	507245	1		Chain (11 ft.)	Kette	Chaîne	Cadena	Catena

#) Quantity / Stückzahl / Quantité / Cantidad / Quantità

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## 528215 Low Headroom Trolley Assembly C



## 528215 Low Headroom Trolley Assembly C (parts)

### Illustration "E" - Center Housing

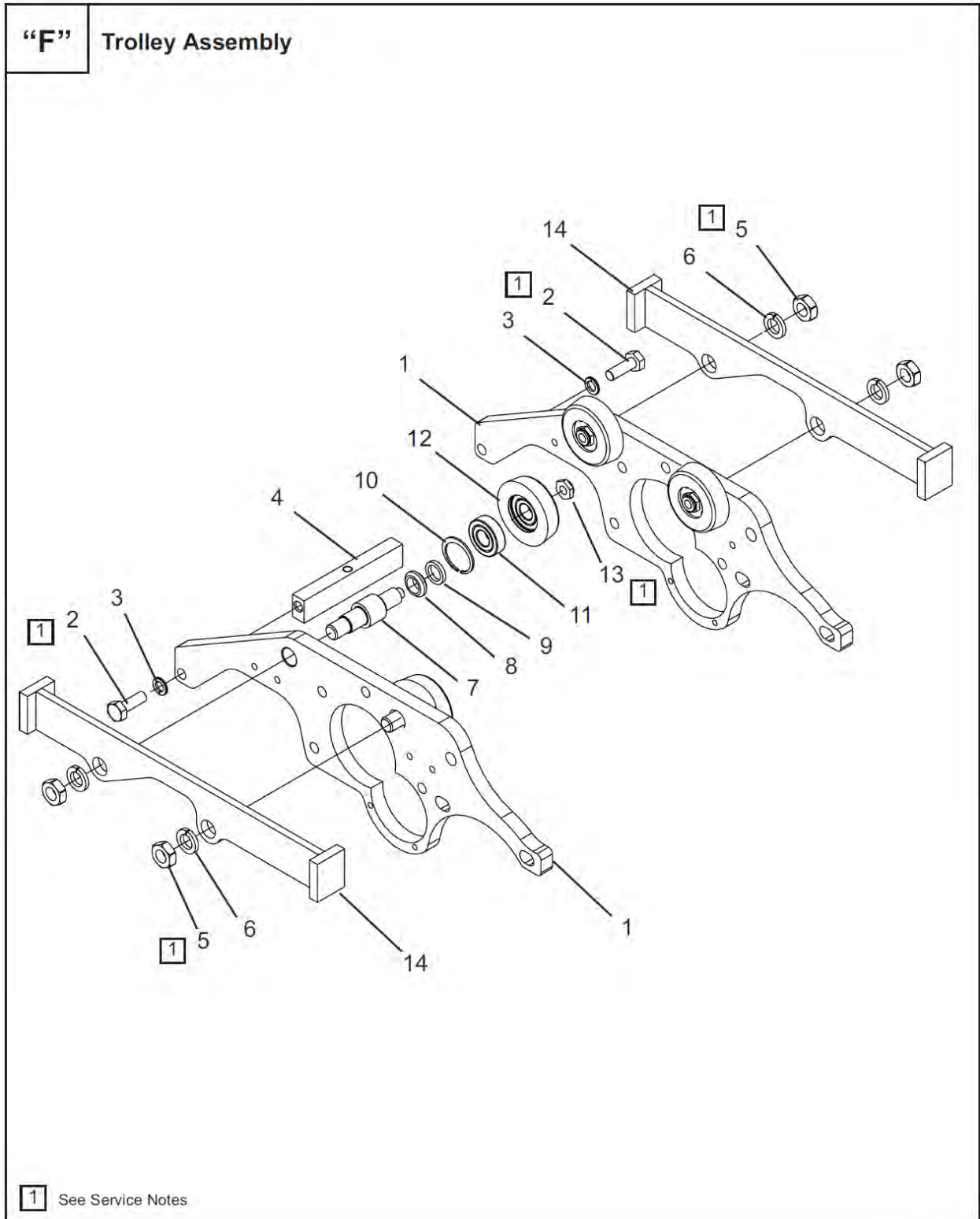
Index	Number	#	•	EN	DE	FR	ES	IT
				Description	Benennung	Designation	Description	Descrizione
1	528216	1		Center Housing	Gehäuse	Corps	Caja	Corpo
2	B1130	2		Screw	Gewindestift	Vis	Tornillo	Vite
3	B154F	4		Screw	Gewindestift	Vis	Tornillo	Vite
4	B154M	2		Screw	Gewindestift	Vis	Tornillo	Vite
5	W179	2	2	Washer	Scheibe	Rondelle	Arandela	Rondella
6	529342	2	6	Gasket	Dichtung	Joint d'étanchéité	Empaquetadura	Guarnizione
7	800141	2	4	Retaining Ring	Sicherungsring	Anneau de fixation	Anillo de retención	Anello di fissaggio
8	507248	2	2	Drive Gear	Antriebsrad	Engrenage d'entraînement	Engranaje impulsor	Ingranaggio di trasmissione
9	507246	2	4	Bearing	Lager	Coussinet	Cojinete	Cuscinetto
10	507254	1		Drive Shaft	Abtriebsschaft	Arbre de transmission	Eje motor	Albero motore
11	29949	1	1	Key	Schlüssel	Clavette	Llave	Chiave
12	507231	1		Sprocket	Speichen	Dent de pignon	Rueda dentada	Dente di dentatura per catena
13	507249	1		Sprocket Spacer	Distanzstück	Entretoise	Espaciador	Distanziale
14	20404	2	6	O-Ring	O-Ring	Joint torique	Anillo "O"	Anello ad O
15	507241	2	2	Driven Gear	Getriebe	Engrenage	Engranaje	Ingranaggio
16	31165	2	4	Bearing	Lager	Coussinet	Cojinete	Cuscinetto
17	507260	1		Roller Chain	Kette	Chaîne	Cadena	Catena
18	515468	1	1	Offset Pin	Stift	Goujon	Pasador	Spina
19	P101C	1	3	Cotter Pin	Stift	Goujon	Pasador	Spina

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## 528215 Low Headroom Trolley Assembly D



## 528215 Low Headroom Trolley Assembly D (parts)

### Illustration "F" - Trolley Assembly

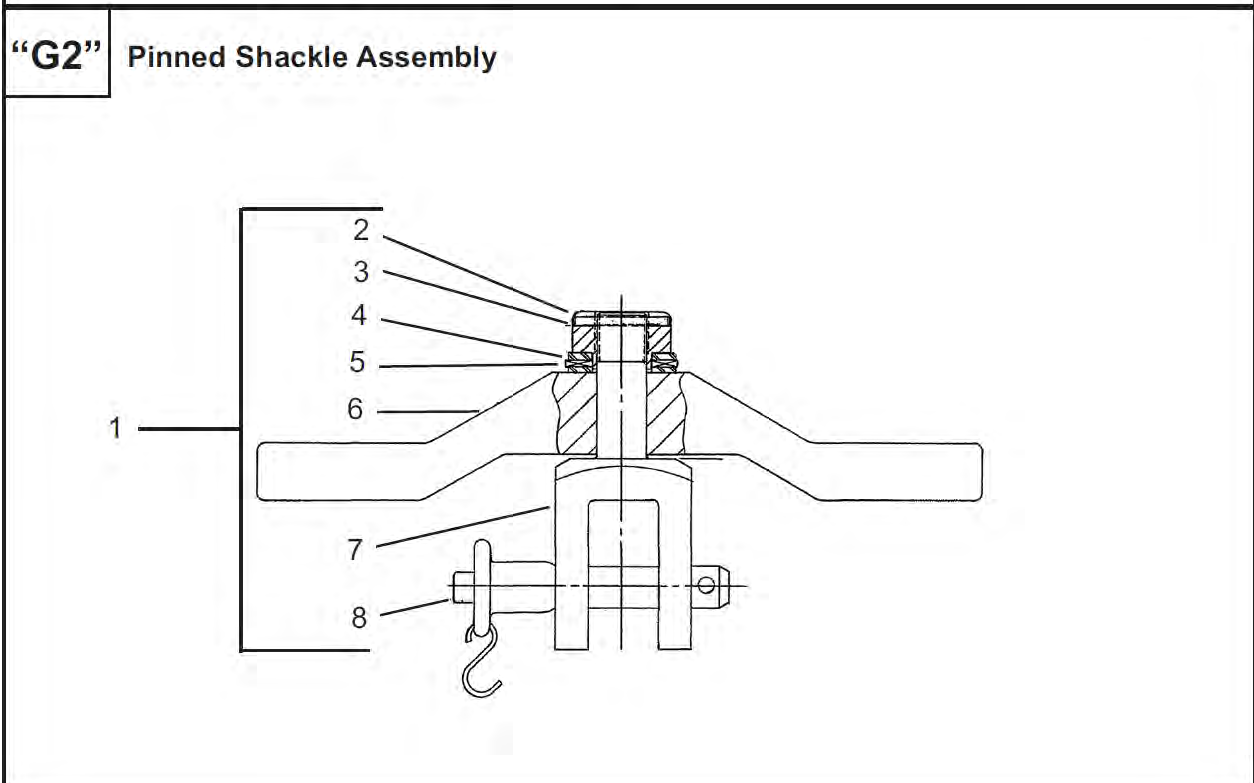
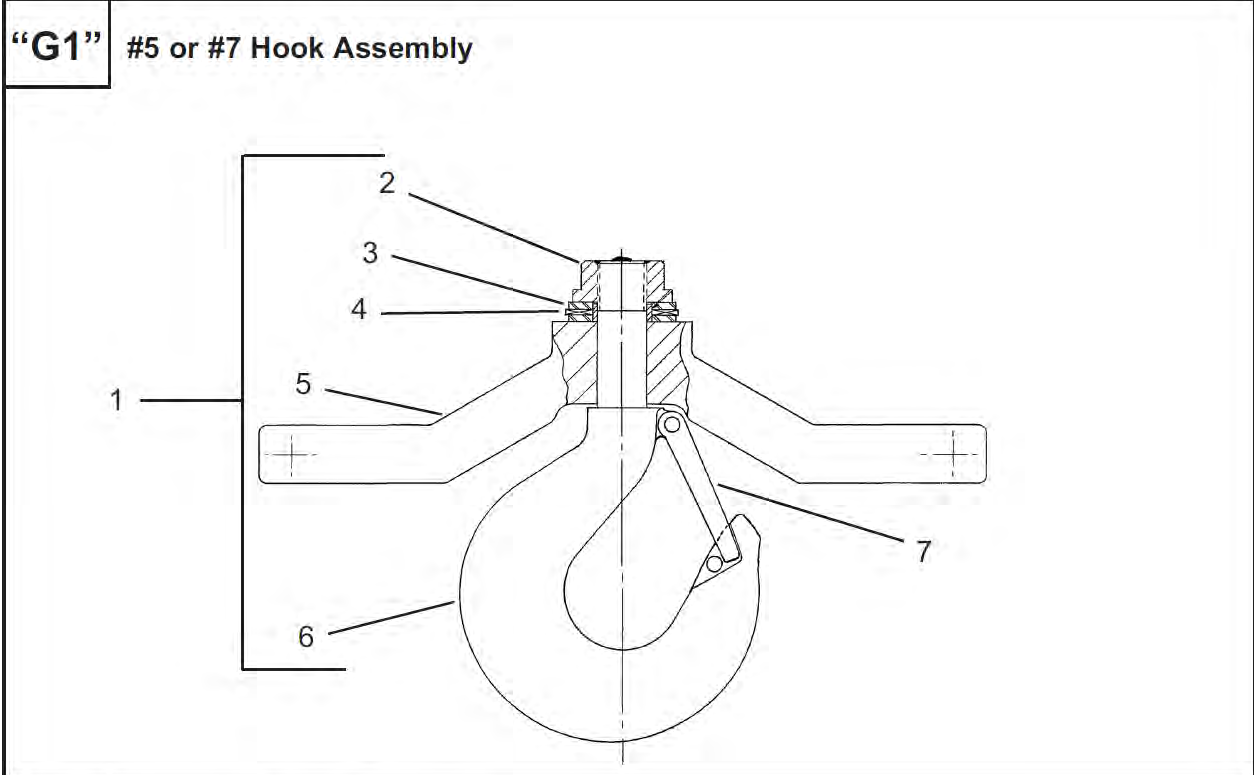
Index	Number	#	.	EN	DE	FR	ES	IT
				Description	Benennung	Designation	Description	Descrizione
1	528190	2		Side Plate	seitliche Platte	Plaque de serrage	Placa lateral	Piastra laterale
2	B116Q	2		Screw	Gewindestift	Vis	Tornillo	Vite
3	W179	2	2	Washer	Scheibe	Rondelle	Arandela	Rondella
4	536409	1		Spacer Bar	Distanzstück	Entretoise	Espaciador	Distanziale
5	C106G	4	4	Nut	Mutter	Ecrou	Tuerca	Dado
6	W202	4	4	Washer	Scheibe	Rondelle	Arandela	Rondella
7	528150	4		Axle	Achse	Axe	El eje	Asse
8	507277	8		Spacer	Distanzstück	Entretoise	Espaciador	Distanziale
9	513203	12		Wheel Spacer	Distanzstück	Entretoise	Espaciador	Distanziale
10	800078	4	4	Retaining Ring	Sicherungsring	Anneau de fixation	Anillo de retención	Anello di fissaggio
11	31165	4	8	Bearing	Lager	Coussinet	Cojinete	Cuscinetto
12	528728	4		Wheel	Rad	Roue	Rueda	Mola
13	C107D	4	4	Nut	Mutter	Ecrou	Tuerca	Dado
14	528159	2		Bumper	Schutzvorrichtung	Protection	Guarda	Protezione

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## Hook and Shackle Assemblies



## Hook and Shackle Assemblies (parts)

### Illustration "G1" - #5 or #7 Hook Assembly

Index	Number	#	-	EN	DE	FR	ES	IT
				Description	Benennung	Designation	Description	Descrizione
1	536150	1		#5 Hook Assembly	#5 Haken	#5 Crochet	#5 Gancho	#5 Gancio
	542459	1		#7 Hook Assembly	#7 Haken	#7 Crochet	#7 Gancho	#7 Gancio
2	---	1		Nut	Mutter	Ecrou	Tuerca	Dado
3	---	2		Thrust Race	Drucklager	Butée à billes	Canal de empuje	Canale di spinta
4	---	1		Thrust Bearing	Drucklager	Palier de butée	Cojinete de empuje	Cuscinetto assiale
5	---	1		Load Bar	Stab	Barre	La barra	La sbarra
6	---	1		Hook	Haken	Crochet	Gancho	Gancio
7	542388	1		#5 Latch Kit	#5 Verschlussatz	#5 Ensemble de loquet	#5 Juego de pestillos	#5 Borsa serratura
	542386	1		#7 Latch Kit	#7 Verschlussatz	#7 Ensemble de loquet	#7 Juego de pestillos	#7 Borsa serratura

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### Illustration "G2" - Shackle Assembly

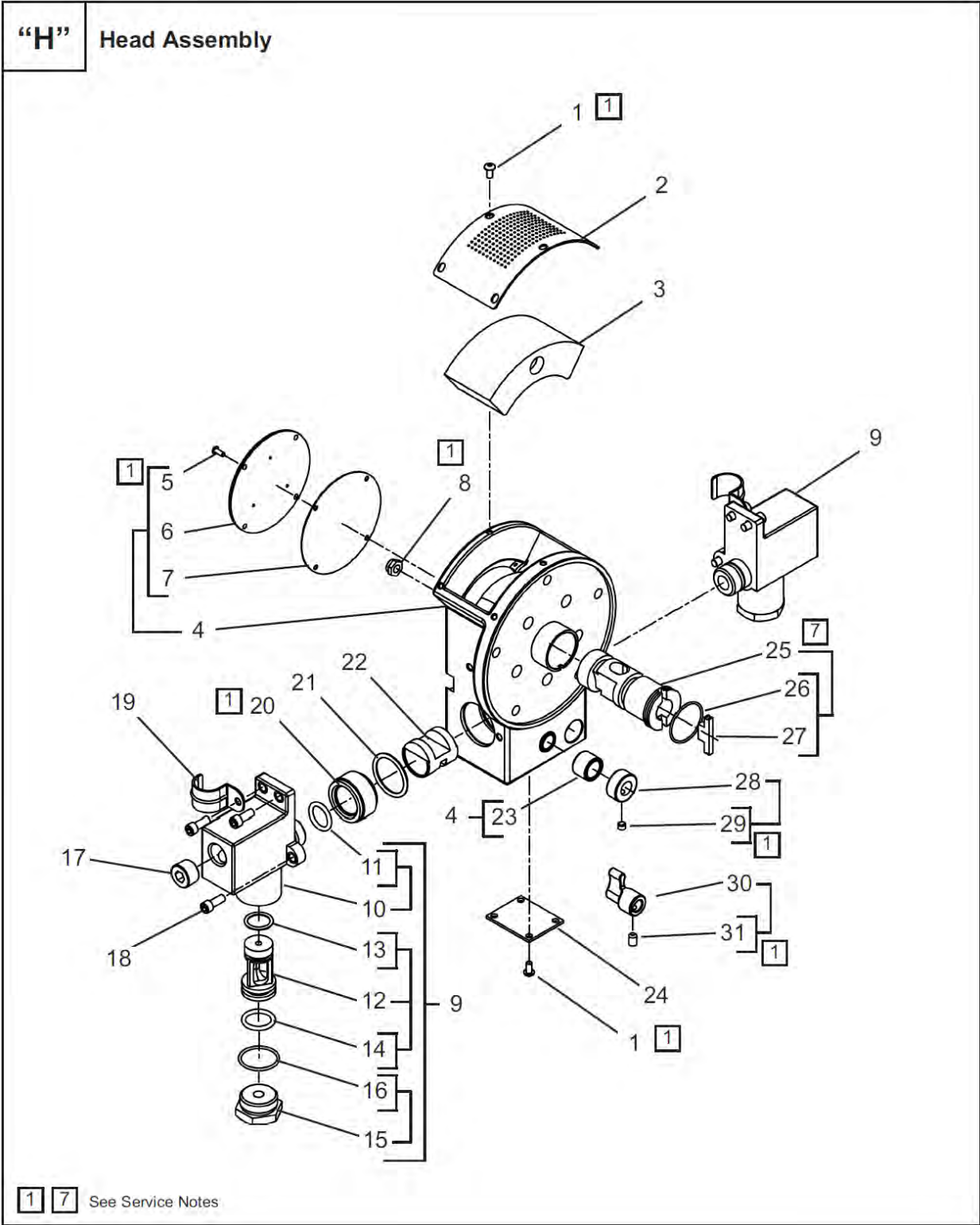
Index	Number	#	-	EN	DE	FR	ES	IT
				Description	Benennung	Designation	Description	Descrizione
1	536339	1		Shackle Assembly	Verbindungsstück	Morceau de connexion	Pedazo de conexión	Pezzo di collegamento
2	---	1		Nut	Mutter	Ecrou	Tuerca	Dado
3	---	1		Pin	Stift	Goupille cylindrique	Pasador	Spina
4	---	2		Thrust Race	Drucklager	Butée à billes	Canal de empuje	Canale di spinta
5	---	1		Thrust Bearing	Drucklager	Palier de butée	Cojinete de empuje	Cuscinetto assiale
6	---	1		Load Bar	Stab	Barre	La barra	La sbarra
7	---	1		Shackle	Verbindungsstück	Morceau de connexion	Pedazo de conexión	Pezzo di collegamento
8	507253	1		Load Pin	Stift	Goupille cylindrique	Pasador	Spina

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## Head Assembly



## Head Assembly (parts)

Illustration "H" - Head Assembly

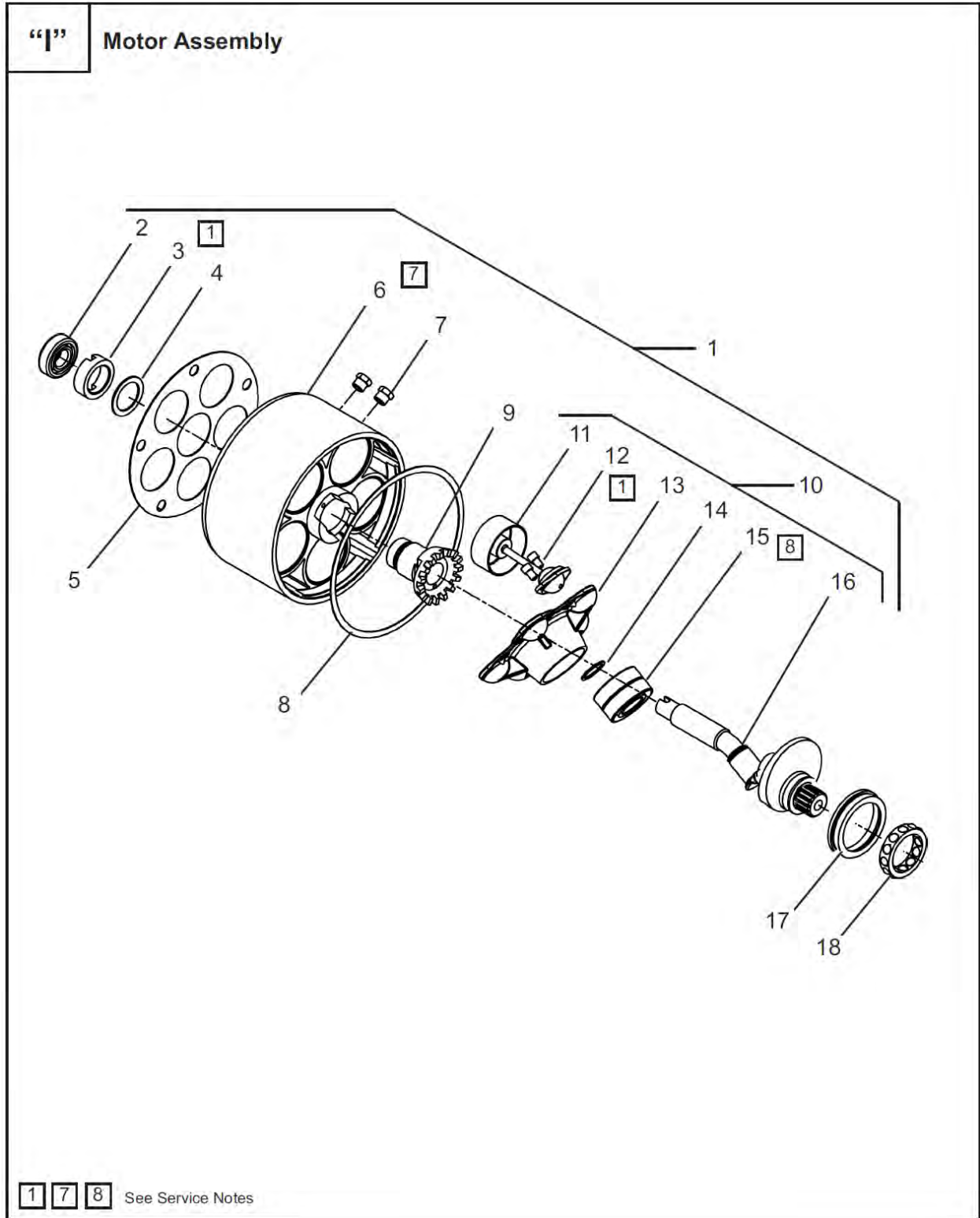
Index	Number	#	.	EN	DE	FR	ES	IT
				Description	Benennung	Designation	Description	Descrizione
1	B133B	10	10	Screw	Gewindestift	Vis	Tornillo	Vite
2	513113	1		Muffler Cover	Deckel	Couvercle	Cubierta	Coperchio
3	513115	1	3	Muffler	Schalldämpfer	Silencieux	Silenciador	Silenziatore
4	514610	1		Head Assembly	Koepf	Tête	Cabezal	Testa
5	B128E	4	8	Screw	Gewindestift	Vis	Tornillo	Vite
6	513146	1		Cover	Deckel	Couvercle	Cubierta	Coperchio
7	517526	1	3	Gasket	Dichtung	Joint d'étanchéité	Empaquetadura	Guarnizione
8	C101G	5	5	Nut	Mutter	Ecrou	Tuerca	Dado
9	508049	2		Valve Assembly	Ventilbaugruppe	Ensemble de soupape	Ensamblaje de la válvula	Gruppo valvola
10	508051	2		Valve Body	Ventilkörper	Corps de soupape	Cuerpo de válvula	Corpo della valvola
11	14247	2	6	O-Ring	O-Ring	Joint torique	Anillo "O"	Anello ad O
12	508052	2		Piston	Kolben	Piston	Embolo	Pistone
13	14890	2	6	O-Ring	O-Ring	Joint torique	Anillo "O"	Anello ad O
14	14394	2	6	O-Ring	O-Ring	Joint torique	Anillo "O"	Anello ad O
15	508053	2		Plug Nut	Mutter	Ecrou	Tuerca	Dado
16	25473	2	6	O-Ring	O-Ring	Joint torique	Anillo "O"	Anello ad O
17	813558	4		Pipe Plug	Buchse	Bouchon	Tapón	Spina
18	B115N	6	6	Screw	Gewindestift	Vis	Tornillo	Vite
19	515398	2	2	Strap	Riemen	Courroie	Banda	Cinghia
20	508054	2		Adapter	Zwischenstück	Adaptateur	Adaptador	Adattatore
21	15211	2	6	O-Ring	O-Ring	Joint torique	Anillo "O"	Anello ad O
22	507224	1		Reversing Valve	Umsteuerventil	Vanne de renversement	Válvula de inversión	Valvola di reversibilità
23	11700	1	2	Bearing	Lager	Coussinet	Cojinete	Cuscinetto
24	536891	1		Cover	Deckel	Couvercle	Cubierta	Coperchio
25	508321	1		Distributor	Verteiler	Distributeur	Distribuidor	Distributore
26	3V235	1	1	Retaining Ring	Sicherungsring	Anneau de fixation	Anillo de retención	Anello di fissaggio
27	3V43	1	1	Drive Key	Schlüssel	Clavette	Llave	Chiave
28	A12117	1		Collar	Bund	Collier	Collar	Collare
29	B141E	1	2	Screw	Gewindestift	Vis	Tornillo	Vite
30	507236	1		Control Finger	Steuerfinger	Doigt de contrôle	Dedo de control	Dente di comando
31	B118H	1	2	Screw	Gewindestift	Vis	Tornillo	Vite

#) 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



## Motor Assembly



## Motor Assembly (parts)

Illustration "I" - Motor Assembly

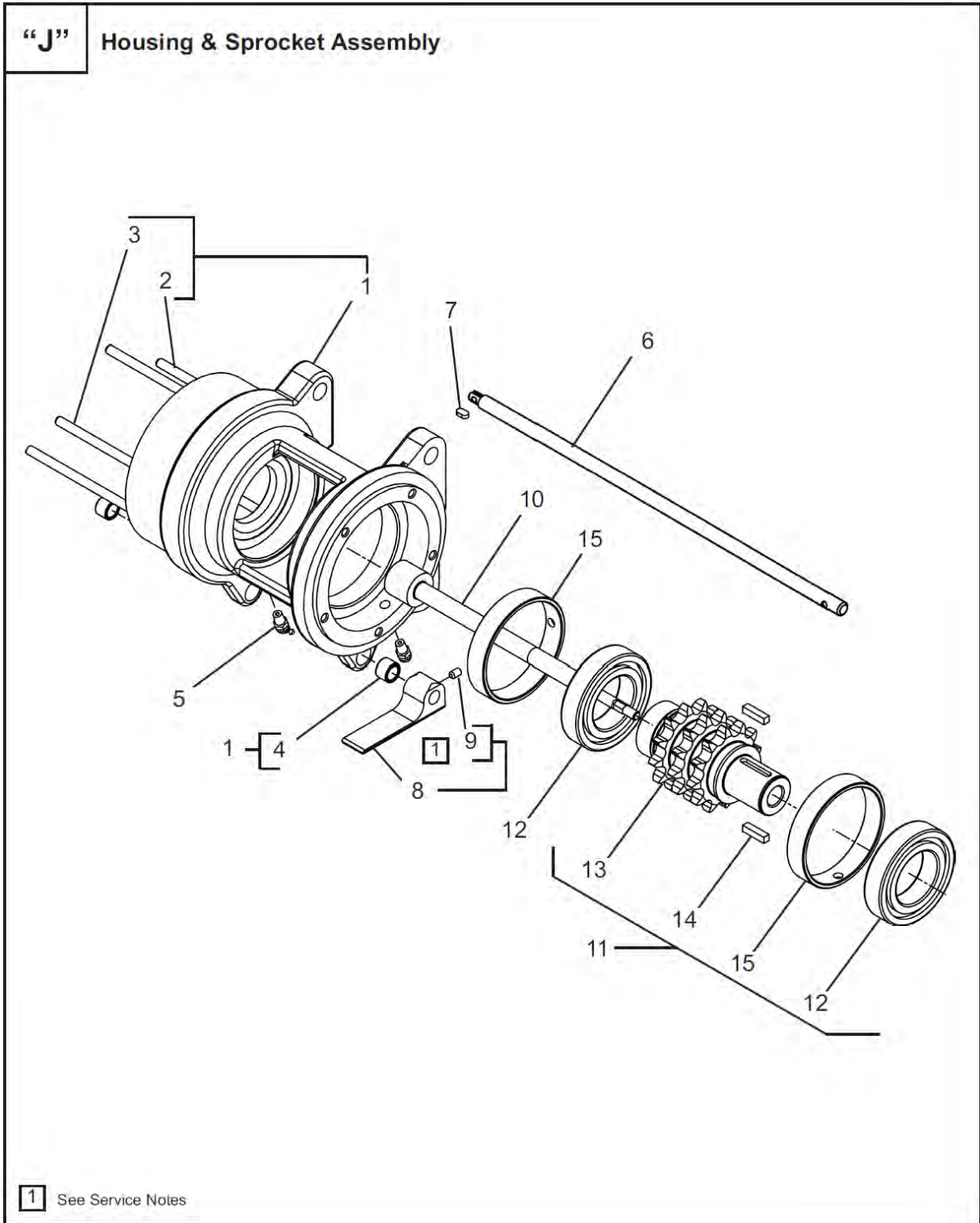
Index	Number	#	.	EN	DE	FR	ES	IT
				Description	Benennung	Designation	Description	Descrizione
1	542312	1		Motor Assembly	Motorbaugruppe	Ensemble du moteur	Ensamblaje del motor	Gruppo motore
2	OG196	1	2	Bearing	Lager	Coussinet	Cojinete	Cuscinetto
3	3V169	1		Lock Nut	Mutter	Ecrou	Tuerca	Dado
4	3V272	1		Lock Washer	Sicherungsscheibe	Rondelle frein	Arandela de presión	Rondella di bloccaggio
5	10012	1	3	Gasket	Dichtung	Joint d'étanchéité	Empaquetadura	Guarnizione
6	508325	1		Cylinder	Zylinder	Cylindre	Cilindro	Cilindro
7	509621	2		Vent Fitting	Öffnung	Aération	Ventilación	Ventilazione
8	10011	1	3	Gasket	Dichtung	Joint d'étanchéité	Empaquetadura	Guarnizione
9	A3V180	1	1	Bevel Gear	Kegelrad	Engrenage conique	Engranaje cónico	Ingranaggio conico
10	542195	1		Driveshaft Assembly	Abtriebsschaft-zusammenbau	Assemblage d'arbre de transmission	Ensamblaje de eje motor	Gruppo albero motore
11	542240	5		Piston Assembly	Kolben	Piston	Embolo	Pistone
12	3V188	10		Screw	Gewindestift	Vis	Tornillo	Vite
13	507742	1		Socket Plate	Stecknussplatte	Plaque de douille	Placa de enchufe	Portapiattello
14	500741	1	2	Retaining Ring	Sicherungsring	Anneau de fixation	Anillo de retención	Anello di fissaggio
15	507897	1	2	Bearing	Lager	Coussinet	Cojinete	Cuscinetto
16	513449	1		Driveshaft	Abtriebsschaft	Arbre de transmission	Eje motor	Albero motore
17	3V82	1		Retainer	Haltevorrichtung	Bague d'arrêt	Retén	Fermo
18	3V84	1	2	Bearing	Lager	Coussinet	Cojinete	Cuscinetto

#) 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



## Housing/Sprocket Assembly



## Housing/Sprocket Assembly (parts)

### Illustration "J" - Housing & Sprocket Assembly

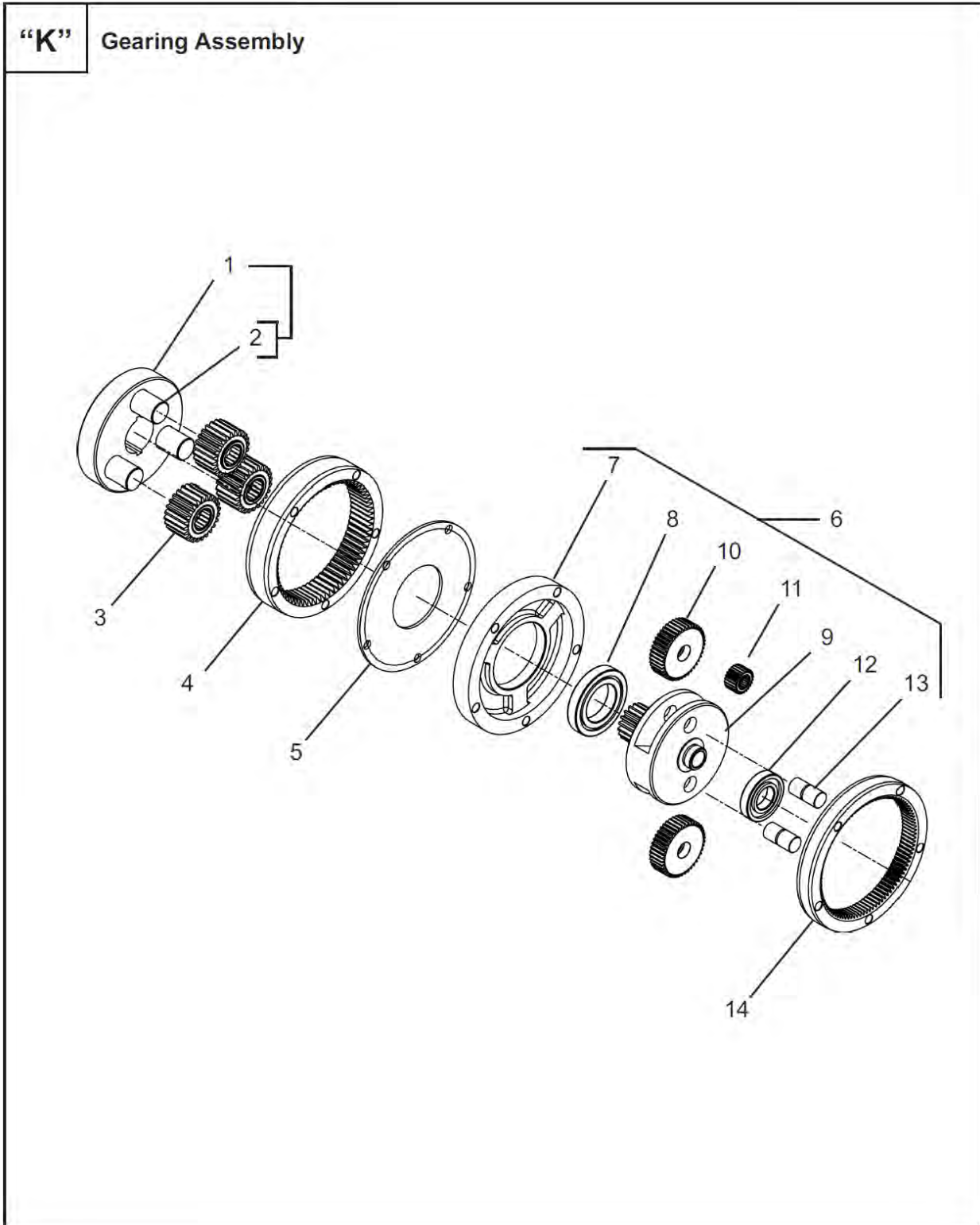
Index	Number	#	.	EN	DE	FR	ES	IT
				Description	Benennung	Designation	Description	Descrizione
1	511642	1		Housing	Gehäuse	Corps	Caja	Corpo
2	507220	3		Short Stud	Bolzen	Goujon	Espárrago	Perno sporgente
3	515330	2		Long Stud	Bolzen	Goujon	Espárrago	Perno sporgente
4	11700	2	4	Bearing	Lager	Coussinet	Cojinete	Cuscinetto
5	809660	2		Grease Fitting	Schmiernippel	Monture de graisse	Accesorio de grasa	Ingrassatore
6	507235	1		Control Rod	Steuerstange	Barre de commande	Barra de control	Asta di comando
7	10712	1	2	Key	Schlüssel	Clavette	Llave	Chiave
8	507710	1		Control Lever	Steuerhebel	Levier de commande	Palanca de control	Leva di comando
9	B148X	1	2	Screw	Gewindestift	Vis	Tornillo	Vite
10	507213	1		Spindle Gear	Spindelgetriebe	Engrenage de broche	Engranaje de husillo	Ingranaggio mandrino
11	507225	1		Sprocket Assembly	Speichen	Dent de pignon	Rueda dentada	Dente di dentatura per catena
12	11554	2	4	Bearing	Lager	Coussinet	Cojinete	Cuscinetto
13	507222	1		Sprocket	Speichen	Dent de pignon	Rueda dentada	Dente di dentatura per catena
14	507239	2	4	Key	Schlüssel	Clavette	Llave	Chiave
15	12112	2		Adapter Ring	Anschlußring	Anneau d'adaptateur	Anillo adaptador	Anello di collegamento

#) 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



## Gearing Assembly



## Gearing Assembly (parts)

### Illustration "K" - Gearing Assembly

Index	Number	#	•	EN	DE	FR	ES	IT
				Description	Benennung	Designation	Description	Descrizione
1	507238	1		Idler Gear Plate	Zwischenplatte	Plaque de roue intermédiaire	Placa intermedia	Piastra intermedia
2	11863	3		Pin	Stift	Goupille cylindrique	Pasador	Spina
3	A11754	3	3	Idler Gear	Zwischenzahnrad	Engrenage secondaire	Engranaje secundario	Ingranaggio intermedio
4	11744	1		Ring Gear	Zahnkreis	Couronne dentée	Engranaje de anillos	Guarnizione ingranaggio
5	11790	1		Spacer Plate	Distanzstück	Entretoise	Espaciador	Distanziale
6	Table "K"	1		Pinion Cage Asm.	Ritzelkaefig-zusammenbau	Assemblage de cage à pignon	Ensamblaje de la caja de piñones	Gruppo gabbia pignone
7	11801	1		Spacer	Distanzstück	Entretoise	Espaciador	Distanziale
8	11656	1	2	Bearing	Lager	Coussinet	Cojinete	Cuscinetto
9	Table "K"	1		Pinion Cage	Ritzelkaefig	Cage à pignon	Caja de piñones	Gabbia pignone
10	Table "K"	2	2	Idler Gear	Zwischenzahnrad	Engrenage secondaire	Engranaje secundario	Ingranaggio intermedio
11	Table "K"	1	1	Pinion Gear	Ritzelgetriebe	Pignon d'entraînement	Piñon diferencial	Ingranaggio a pignone
12	11655	1	2	Bearing	Lager	Coussinet	Cojinete	Cuscinetto
13	11788	2		Shaft	Achse	Axe du vérin	Eje	Albero
14	11745	1		Ring Gear	Zahnkreis	Couronne dentée	Engranaje de anillos	Guarnizione ingranaggio

#) Quantity / Stückzahl / Quantité / Cantidad / Quantità

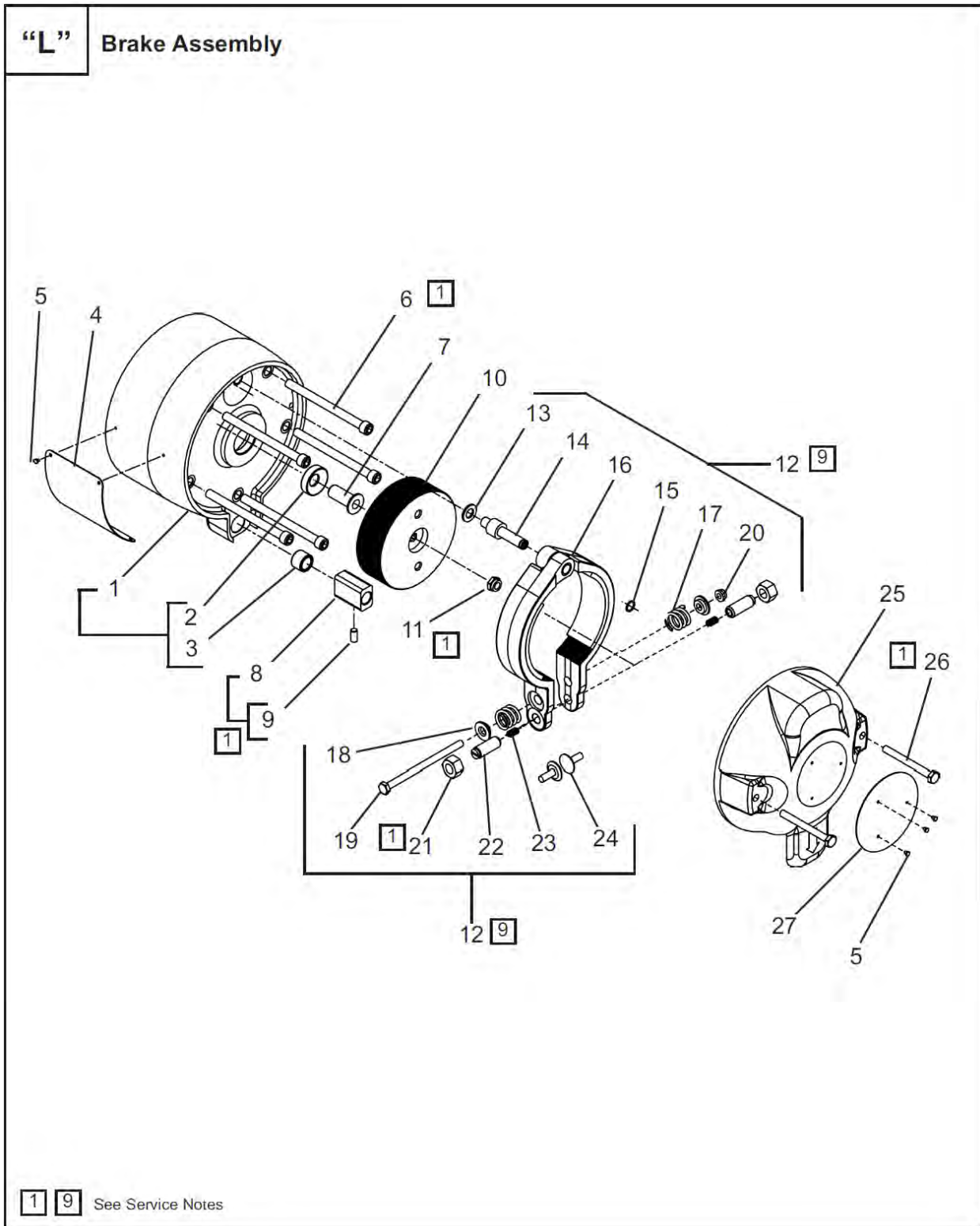
- Recommended Spare Parts / Kennzeichnet empfohlenes / Identifica un particolare di ricambio raccomandato / Designa el repuesto recomendado / Indique la pièce de rechange conseillée

Table "K"

Index	Description	Qty.	P3NA22	Qty.	P3NA43
6	Pinion Cage Asm.	1	AA20649	1	AA19195
9	Pinion Cage	1	A20649	1	A19195
10	Idler Gear	2	A20648	2	A11755
11	Pinion Gear	1	20650	--	----



## Brake Assembly



## Brake Assembly (parts)

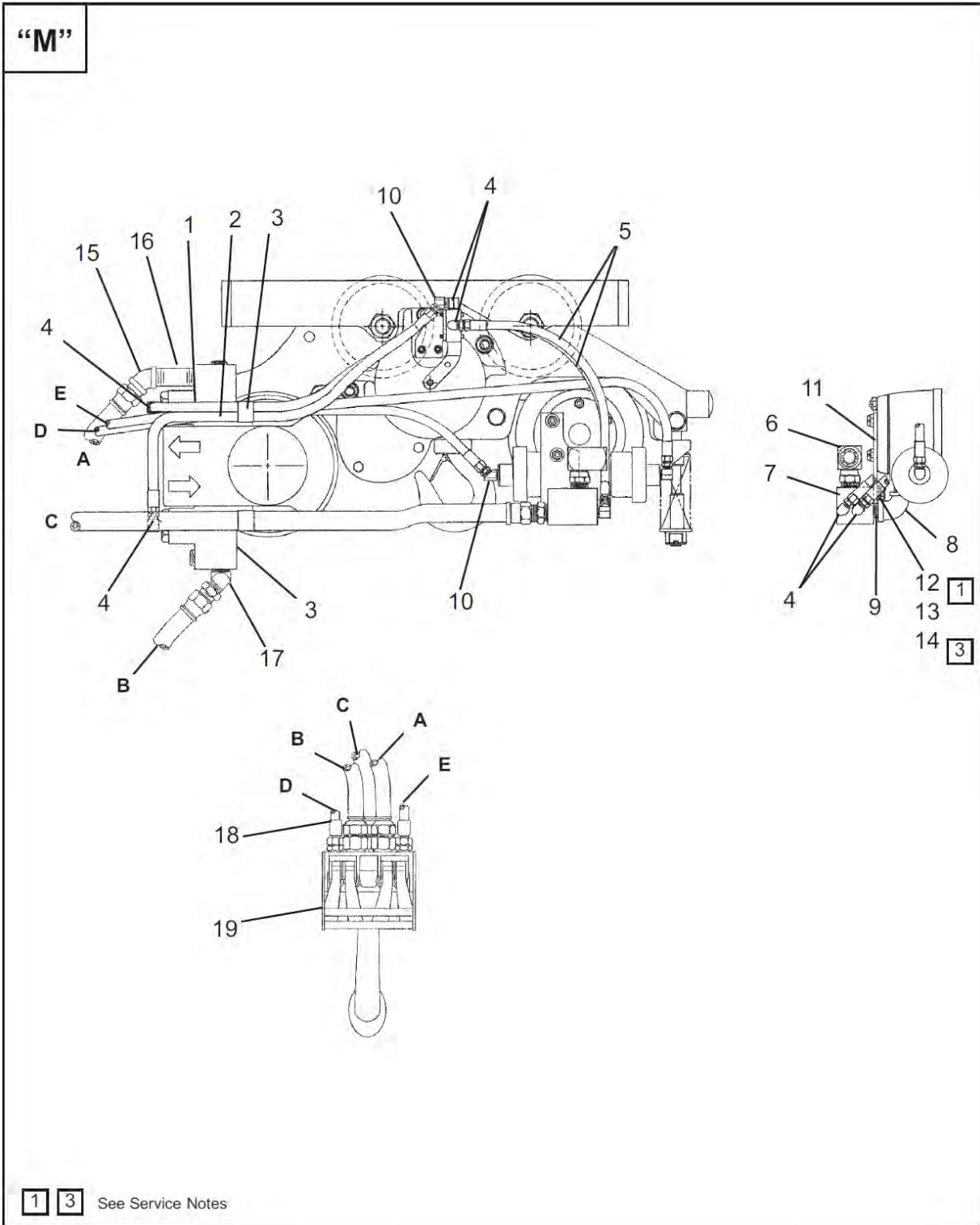
Illustration "L" - Brake Assembly

Index	Number	#	.	EN	DE	FR	ES	IT
				Description	Benennung	Designation	Description	Descrizione
1	507218	1		Clamping Plate	Klemmplatte	Plaque de serrage	Placa de sujeción	Piastra di bloccaggio
2	11555	1	3	Seal	Dichtung	Sceau	Sello	Guarnizione
3	11700	1	2	Bearing	Lager	Coussinet	Cojinete	Cuscinetto
4	521444	1		Caution Plate	Achtungsschild	Plaque d'avertissement	Placa de instrucciones	Piastra di protezione
5	534820	10		Screw	Gewindestift	Vis	Tornillo	Vite
6	B116L	5		Screw	Gewindestift	Vis	Tornillo	Vite
7	19383	1		Sleeve	Hülse	Douille	Manguito	Manicotto
8	536274	1		Brake Cam	Nocken	Came	Leva	Camma
9	B125K	1	2	Screw	Gewindestift	Vis	Tornillo	Vite
10	507221	1		Brake Wheel	Bremsrad	Volant de frein à main	Rueda de freno	Volantino del freno
11	C108A	1	2	Nut	Mutter	Ecrou	Tuerca	Dado
12	536292	1		Brake Shoe Asm.	Bremsbacke	Mâchoire de frein	Zapata de freno	Ganascia
13	W144	1	2	Washer	Scheibe	Rondelle	Arandela	Rondella
14	507217	1		Stud	Bolzen	Goujon	Espárrago	Perno sporgente
15	800136	1	3	Retaining Ring	Sicherungsring	Anneau de fixation	Anillo de retención	Anello di fissaggio
16	536276	2	2	Brake Shoe	Bremsbacke	Mâchoire de frein	Zapata de freno	Ganascia
17	27402	2	6	Spring	Druckfeder	Ressort	Resorte	Molla
18	26079	2		Washer	Scheibe	Rondelle	Arandela	Rondella
19	B150N	1		Screw	Gewindestift	Vis	Tornillo	Vite
20	C101E	1	2	Nut	Mutter	Ecrou	Tuerca	Dado
21	C103D	2	2	Nut	Mutter	Ecrou	Tuerca	Dado
22	19114	2		Adjusting Screw	Einstellschraube	Vis de réglage	Tornillo de ajuste	Vite di regolazione
23	26824	2	6	Spring	Druckfeder	Ressort	Resorte	Molla
24	19111	2		Plunger	Plunger	Plongeur	Bomba de émbolo	Pistone
25	513101	1		Brake Cover	Deckel	Couvercle	Cubierta	Coperchio
26	B155N	2		Screw	Gewindestift	Vis	Tornillo	Vite
27	528259	1		Capacity Plate	Kapazitätschild	Plaque signalétique	Placa de capacidad	Piattello capacitivo

#) 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 Hose Assembly



## Pendent Control Hose Assembly (parts)

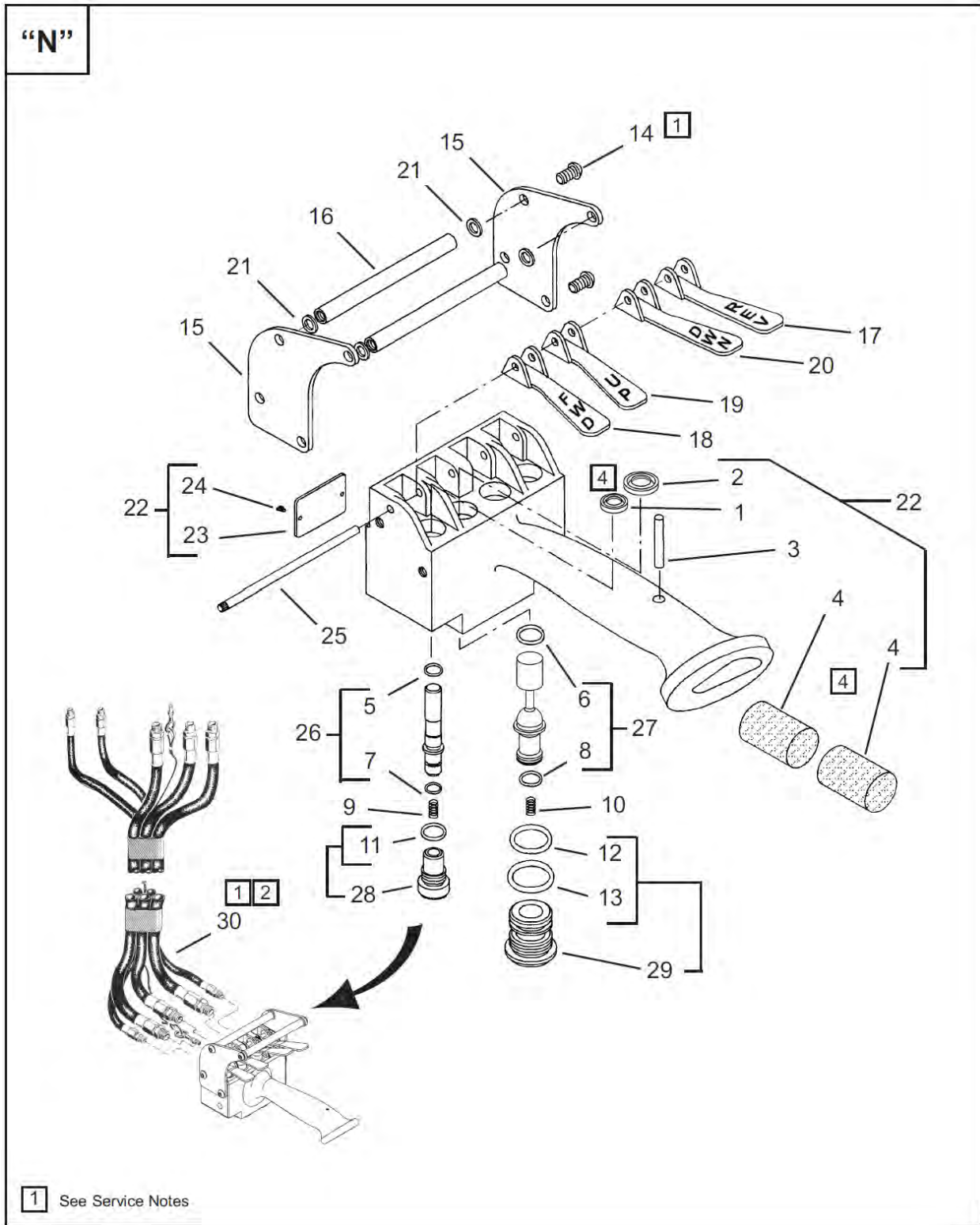
Illustration "M" - Pendent Control Hose Assembly

Index	Number	#	•	EN	DE	FR	ES	IT
				Description	Benennung	Designation	Description	Descrizione
1	A17130	1		Hose (18")	Schlauch (457mm)	Tuyau (457mm)	Manguera (457mm)	Tubo (457mm)
2	A17132	1		Hose (20")	Schlauch (508mm)	Tuyau (508mm)	Manguera (508mm)	Tubo (508mm)
3	515398	2		Strap	Riemen	Courroie	Banda	Cinghia
4	F511	8	4	90° Street Elbow	Ellbogen	Coude	Codo	Curva
5	A17128	2		Hose (16")	Schlauch (406mm)	Tuyau (406mm)	Manguera (406mm)	Tubo (406mm)
6	511017	1	1	Swivel	Drehbar	Emerillon	Eslabón giratorio	Molinello
7	539508	1		Manifold	Verteiler	distributeur	distribuidor	distributore
8	F640	1		Elbow	Ellbogen	Coude	Codo	Curva
9	F516	2		Pipe Nipple	Nippel	Mamelon	Niple	Niplo
10	501331	3	2	45° Street Elbow	Ellbogen	Coude	Codo	Curva
11	539509	1		Manifold Bracket	Klammer	Support	Soporte	Staffa
12	B113N	1		Screw	Schraube	Vis	Tornillo	Vite
13	W161	1		Lock Washer	Sicherungsscheibe	Rondelle frein	Arandela de presión	Rondella di bloccaggio
14	W235	1		Washer	Scheibe	Rondelle	Arandela	Rondella
15	F597	1		Elbow	Ellbogen	Coude	Codo	Curva
16	F656	1		Pipe Nipple	Nippel	Mamelon	Niple	Niplo
17	515495	1	1	Fitting	Paßstück	Monture	Accesorio	Accessorio
18	518504	1		Hose (5 ft)	Schlauch (1,5M)	Tuyau (1,5M)	Manguera (1,5M)	Tubo (1,5M)
	518505	1		Hose (10 ft)	Schlauch (3,0M)	Tuyau (3,0M)	Manguera (3,0M)	Tubo (3,0M)
	518506	1		Hose (15 ft)	Schlauch (4,6M)	Tuyau (4,6M)	Manguera (4,6M)	Tubo (4,6M)
19	539856	1		PC Handle Asm.	Handgriff	Poignée	Manija	Impugnatura

#) 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

## 539856 4-Lever Pendent Control Handle Assembly



## 539856 4-Lever Pendent Control Handle Assembly (parts)

Illustration "N" - 539856 4-Lever Pendent Control Handle Assembly

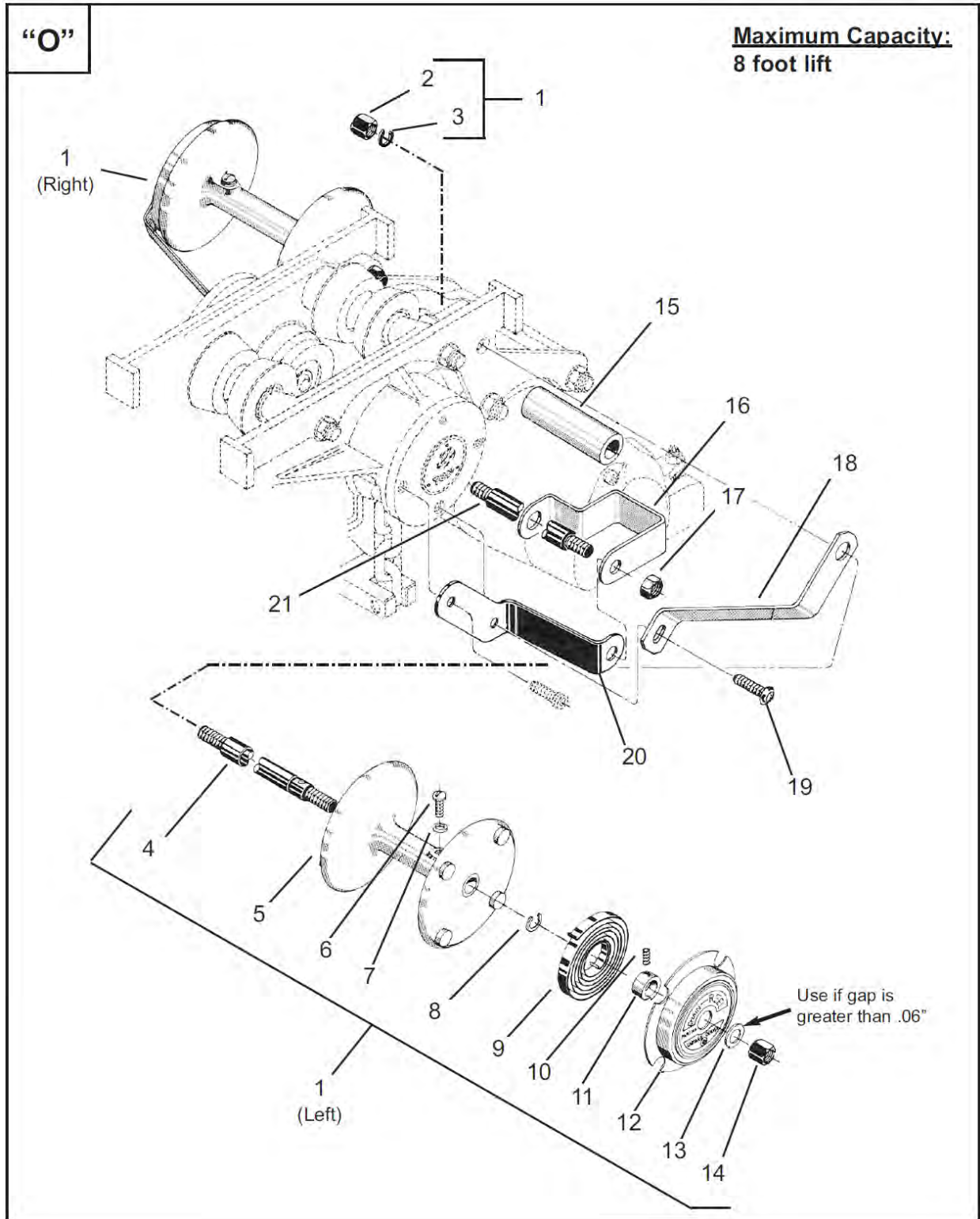
Index	Number	#	•	EN	DE	FR	ES	IT
				Description	Benennung	Designation	Description	Descrizione
1	539714	2	6	Seal	Dichtung	Sceau	Sello	Guarnizione
2	30573	2	6	Seal	Dichtung	Sceau	Sello	Guarnizione
3	RP103G	1		Pin	Stift	Goujon	Pasador	Spina
4	531753	2	6	Muffler	Auspufftopf	Silencieux	Silenciador	Silenziatore
5	504970	2	6	O-Ring	O-Ring	Joint torique	Anillo "O"	Anello ad O
6	12619	2	6	O-Ring	O-Ring	Joint torique	Anillo "O"	Anello ad O
7	1008127	2	6	O-Ring	O-Ring	Joint torique	Anillo "O"	Anello ad O
8	60371	2	6	O-Ring	O-Ring	Joint torique	Anillo "O"	Anello ad O
9	511608	2	6	Spring	Druckfeder	Ressort	Resorte	Molla
10	502715	2	6	Spring	Druckfeder	Ressort	Resorte	Molla
11	60351	2	6	O-Ring	O-Ring	Joint torique	Anillo "O"	Anello ad O
12	24684	2	6	O-Ring	O-Ring	Joint torique	Anillo "O"	Anello ad O
13	29865	2	6	O-Ring	O-Ring	Joint torique	Anillo "O"	Anello ad O
14	B126N	8		Screw	Gewindestift	Vis	Tornillo	Vite
15	539865	2		Side Plate	Seitliche Platte	Plaque de serrage	Placa lateral	Piastra laterale
16	539866	2		Spacer	Distanzstück	Entretoise	Espacidor	Distanziale
17	526267	1		Lever (REV)	Hebel	Levier	Palanca	Leva
18	526268	1		Lever (FWD)	Hebel	Levier	Palanca	Leva
19	526276	1		Lever (DWN)	Hebel	Levier	Palanca	Leva
20	526275	1		Lever (UP)	Hebel	Levier	Palanca	Leva
21	W237	4	4	Washer	Scheibe	Rondelle	Arandela	Rondelle
22	539760	1		Handle	Handgriff	Poignee	Manija	Impugnatura
23	521768	1		Caution Plate	Achtungsschild	Plaque d'	Placa de instrucciones	Piastra di protezione
24	1443700	2		Screw	Gewindestift	Vis	Tornillo	Vite
25	539835	1		Pin	Stift	Goujon	Pasador	Spina
26	539832	2		Valve (FWD/REV)	Ventil	Soupape	Valvula	Valvola
27	539753	2		Valve (UP/DWN)	Ventil	Soupape	Valvula	Valvola
28	511610	2		Cap	Kappe	Chapeau	Tapa	Cappello
29	522344	2		Cap	Kappe	Chapeau	Tapa	Cappello
30	518504	1		Hose (5 ft)	Schlauch (1,5M)	Tuyau (1,5M)	Manguera (1,5M)	Tube (1,5M)
	518505	1		Hose (10 ft)	Schlauch (3,0M)	Tuyau (3,0M)	Manguera (3,0M)	Tube (3,0M)
	518506	1		Hose (15 ft)	Schlauch (4,6M)	Tuyau (4,6M)	Manguera (4,6M)	Tube (4,6M)

#) Quantity / Stückzahl / Quantité / Cantidad / Quantità

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raccomandato / Designa el repuesto recomendado / Indique la pièce de rechange conseillée



## Link Chain Reel Assembly



## Link Chain Reel Assembly (parts)

### Illustration "O" - Link Chain Reel Assemblies

Index	Number	#	-	EN	DE	FR	ES	IT
				Description	Benennung	Designation	Description	Descrizione
1	518683	1		Chain Reel (Left)	Spule (Linke)	bobine (part)	carrete (izquierda)	bobina (sinistra)
	518684	1		Chain Reel (Right)	Spule (Recht)	bobine (droite)	carrete (derecho)	bobina (destra)
2	B106	1		Nut	Mutter	Ecrou	Tuerca	Dado
3	W183	1		Washer	Scheibe	Rondelle	Arandela	Rondella
4	518681	1		Shaft	Achse	Axe du vérin	Eje	Albero
5	518682	1		Reel	Spule	Bobine	Carrete	Bobina
6	B120S	1		Screw	Schraube	Vis	Tornillo	Vite
7	W143	1		Washer	Scheibe	Rondelle	Arandela	Rondella
8	500640	1		Retaining Ring	Sicherungsring	Anneau de fixation	Anillo de retención	Anello di fissaggio
9	515023	1		Spring	Druckfeder	Ressort	Resorte	Molla
10	B139T	1		Screw	Schraube	Vis	Tornillo	Vite
11	505638	1		Hub	Nabe	moyeu	eje	mozzo
12	519329	1		Spring Cover	Deckel	Couvercle	Cubierta	Coperchio
13	29996	1		Washer	Scheibe	Rondelle	Arandela	Rondella
14	C107D	1		Nut	Mutter	Ecrou	Tuerca	Dado
15	507312	2		Roller	Rolle	Rouleau	Cilindro	Rullo
16	507830	2		Guard	Schutzvorrichtung	Protection	Guarda	Protezione
17	C104M	2		Nut	Mutter	Ecrou	Tuerca	Dado
18	516718	2		Chain Reel Support	Klammer	Support	Soporte	Staffa
19	B149P	2		Screw	Schraube	Vis	Tornillo	Vite
20	507855	1		Brace (Left)	Klammer (Linke)	Support (part)	Soporte (izquierda)	Staffa (sinistra)
	507831	1		Brace (Right)	Klammer (Recht)	Support (droite)	Soporte (derecho)	Staffa (destra)
21	507311	2		Shaft	Achse	Axe du vérin	Eje	Albero

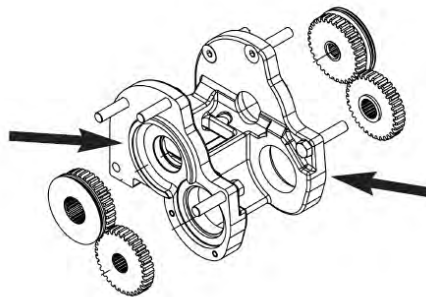
#) Quantity / Stückzahl / Quantité / Cantidad / Quantità

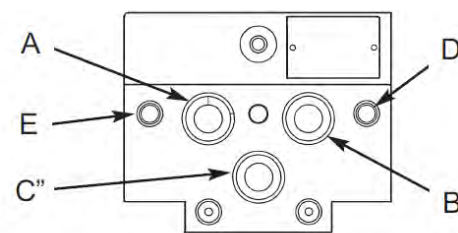
• Recommended Spare Parts / Kennzeichnet empfohlenes / Identifica un particolare di ricambio raccomandato / Designa el repuesto recomendado / Indique la pièce de rechange conseillée



## Service Notes 1-3


<b>1 Torque Specifications</b>			
Illustration	Index Number	Tightening Torque Anzugsmoment Tightening Torque Torsión de Apriete Tightening Torque	
		Ft-Lbs (in-lbs)	Nm
B	3	20-21	27-29
	9	70-80	95-108
	10	20-21	27-29
	14	20-21	27-29
	17	11-12	15-16
	27	20-21	27-29
	38 (14-17)	6-7	8,1-9,5
C	2	5-6	6,8-8,1
	4	32-33	43-45
	13	5-6	6,8-8,1
D	2	5-6	6,8-8,1
	4	32-33	43-45
E	4	45-50	61-68
	2	45-50	61-68
F	5	90-100	122-136
	13	45-50	61-68
	1	(14-18)	1,6-2,0
H	5	(5-7)	0,6-0,8
	8	11-12	15-16
	20	11-12	15-16
	29	6-7	8,1-9,5
	31	6-7	8,1-9,5
I	3	60-67	81-91
	12	9-10	12-14
J	9	6-7	8,1-9,5
L	6	11-12	15-16
	9	6-7	8,1-9,5
	11	11-12	15-16
	21	6-7	8,1-9,5
	26	4-5	5,4-6,8
M	12	15-17	20-23
N	14	5-6	6,8-8,1

<b>2 Illustration: "E"</b>	
	
<p><b>EN:</b> Add 1 ounce of 525430 grease to each gear cavity (Texaco-Marfax 00958 Multipurpose 2 Grease)  <b>DE:</b> 525430 Schmiermittel; 28g (Texaco-Marfax 00958 Multipurpose 2)  <b>FR:</b> 525430 Graisse; 28g (Texaco-Marfax 00958 Multipurpose 2)  <b>ES:</b> 525430 Grasa; 28g (Texaco-Marfax 00958 Multipurpose 2)  <b>IT:</b> 525430 Grasso; 28g (Texaco-Marfax 00958 Multipurpose 2)</p>	

<b>3 Illustrations: "M" &amp; "N"</b>	
	
<p>A: Down - Hinunter - En bas - Hacia abajo - Giù            B: Up - Auf - En haut - Arriba - Su            C: Air - Air - Air - Air - Air            D: Forward - Vorwärts - Avant - Delantero - In avanti            E: Reverse - Rückwärts - en arrière - hacia atrás - indietro</p>	

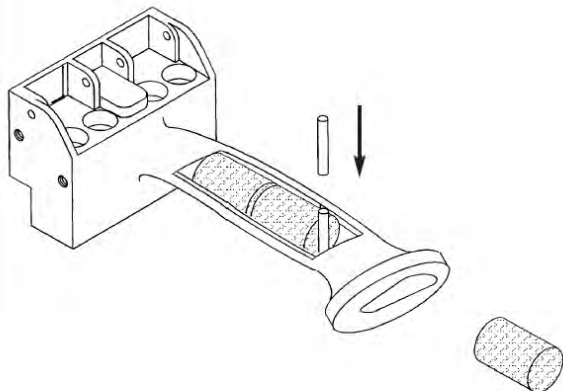
Service Notes 4-7

**4** Illustration: "N"



DE: Auf  
FR: En haut  
ES: Arriba  
IT: Su

**5** Illustration: "N"



**6** Illustration: "M"

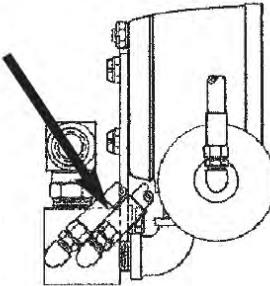
EN: W235 Washer:  
Use 1 or 2 as required between  
Manifold and Manifold Bracket

DE: W235 Washer:  
Use 1 or 2 as required between  
Manifold and Manifold Bracket

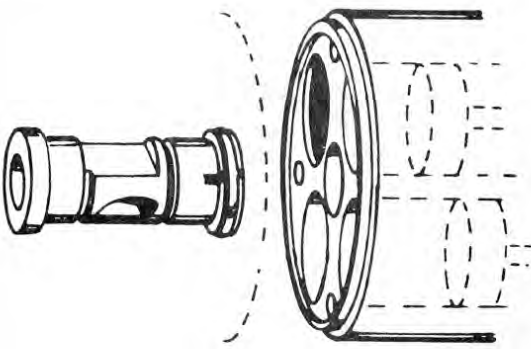
FR: W235 Washer:  
Use 1 or 2 as required between  
Manifold and Manifold Bracket

ES: W235 Washer:  
Use 1 or 2 as required between  
Manifold and Manifold Bracket

IT: W235 Washer:  
Use 1 or 2 as required between  
Manifold and Manifold Bracket



**7** Illustrations: "H" & "I"



EN: Align exhaust port in distributor with the piston which is at the low point of stroke.

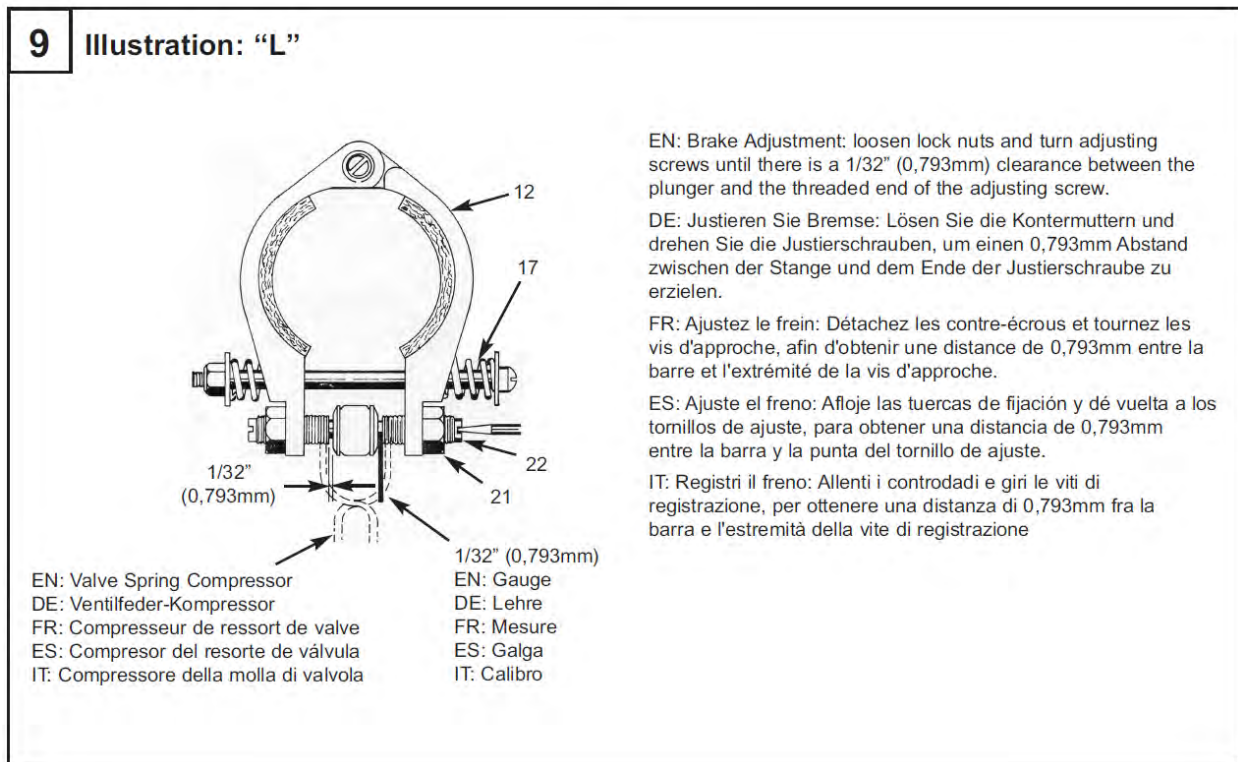
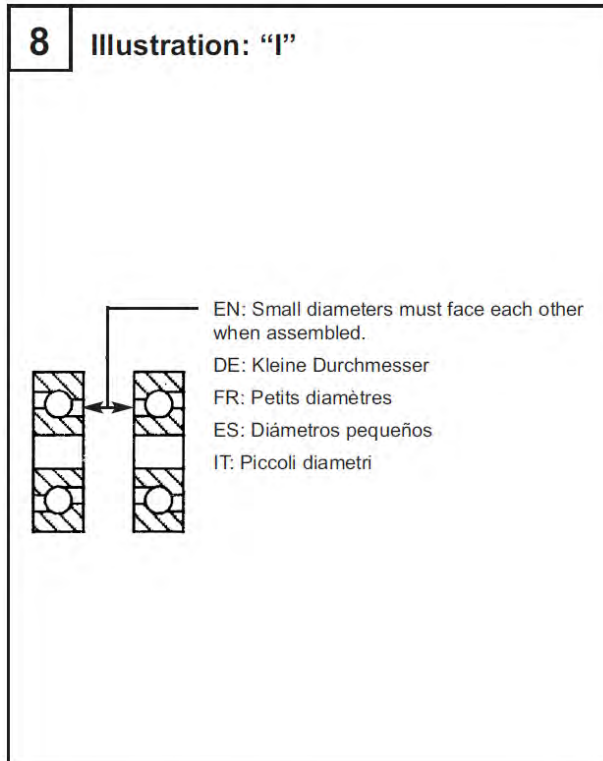
DE: Richten Sie Abluftöffnung mit niedrigstem Kolben aus.

FR: Alignez le port de décharge avec le plus bas piston.

ES: Alinee el puerto de la descarga con el pistón más bajo.

IT: Allinei l'orificio di scarico con il pistone più basso.

## Service Notes 8-9



## Lifting and Lowering Speeds

<b>P3NA22</b>													
Air Pressure		Direction	Load										
			lbs.	ka	lbs.	ka	lbs.	ka	lbs.	ka			
				0	0	500	227	1000	454	1500	680	2200	1000
				Load Speed									
PSI	Kg/CM2			fpm	mpm	fpm	mpm	fpm	mpm	fpm	mpm	fpm	mpm
90	6.3	Lift		76	23.2	68	20.7	56	17.1	40	12.2	34	10.4
		Lower		78	23.8	94	28.6	102	31.1	116	35.4	120	36.6
80	5.8	Lift		72	21.9	66	20.1	52	15.8	38	11.6	28	8.5
		Lower		74	22.5	92	28.0	100	30.5	106	32.3	120	36.6
70	4.9	Lift		66	20.1	64	19.5	48	14.6	34	10.4	--	--
		Lower		68	20.7	90	27.4	100	30.5	104	31.7	--	--
60	4.2	Lift		64	19.5	60	18.3	42	12.8	--	--	--	--
		Lower		65	19.8	88	26.8	94	28.6	--	--	--	--
50	3.5	Lift		52	15.8	54	16.5	--	--	--	--	--	--
		Lower		52	15.8	80	24.4	--	--	--	--	--	--

<b>P3NA43</b>													
Air Pressure		Direction	Load										
			lbs.	ka	lbs.	ka	lbs.	ka	lbs.	ka			
				0	0	1000	454	2000	907	3000	1361	4300	1951
				Load Speed									
PSI	Kg/CM2			fpm	mpm	fpm	mpm	fpm	mpm	fpm	mpm	fpm	mpm
90	6.3	Lift		38	11.6	34	10.4	28	8.5	20	6.1	17	5.2
		Lower		39	11.9	47	14.3	51	15.5	58	17.6	60	18.3
80	5.8	Lift		36	11.0	33	10.1	26	7.9	19	5.8	14	4.3
		Lower		37	11.3	46	14.0	50	15.2	53	16.1	60	18.3
70	4.9	Lift		33	10.1	32	9.7	24	7.3	17	5.2	--	--
		Lower		34	10.4	45	13.7	50	15.2	52	15.8	--	--
60	4.2	Lift		32	9.7	30	9.1	21	6.4	--	--	--	--
		Lower		32	9.7	44	13.4	47	14.3	--	--	--	--
50	3.5	Lift		26	7.9	27	8.2	--	--	--	--	--	--
		Lower		26	7.9	40	12.2	--	--	--	--	--	--





**FOR QUESTIONS, TECHNICAL AND WARRANTY SUPPORT:**

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