



## P1 Series Piston Hoist



P1HA Hook Mounted



P1LA Lug Mounted



P1TA Trolley Mounted

<p style="text-align: center; font-weight: bold; margin-bottom: 0;">P1 H A 03 L P E L --- A A A 03</p> <p><b>SERIES:</b> P1</p> <p><b>MOUNTING TYPE:</b> H = Hook      T = Trolley L = Lug</p> <p><b>FEATURES:</b> A = Standard Unit    P = Epoxy Paint H = Hi Temp Grease   S = Epoxy Paint/Hi Temp Grease</p> <p><b>CAPACITY:</b> 03 = 300 lbs.      10 = 1000 lbs. 04 = 500 lbs. (S.R.)    11 = 1100 lbs. 05 = 500 lbs.      20 = 2000 lbs. 09 = 1000 lbs. (S.R.)    22 = 2200 lbs.</p> <p><b>CHAIN TYPE:</b> L = Link R = Roller</p> <p><b>CONTROL TYPE:</b> L = Pendant (2 Hoist-4LVR) M = Pendant (w/Hoisttractor-4LVR) N = Pendant (w/Hoisttractor-Free wheel to positive drive-5LVR) O = Pendant (w/Hoisttractor-Positive drive to free wheel-5LVR) P = Pendant (Standard-2LVR) R = Rope S = Pendant (Hoist/Hoisttractor/Axial Motor-6LVR) T = No Control Type (Rope Ready) W = None (Pendant Ready) A = Pendant (Hoist/Hoisttractor/Hoisttractor-6LVR)</p> <p><b>CONTROL LENGTH:</b> 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 = No G = 7 Ft.    K = 11 Ft.    O = 15 Ft.    S = 19 Ft.    W = 23 Ft.    Control H = 8 Ft.    L = 12 Ft.    P = 16 Ft.    T = 20 Ft.    X = 24 Ft.    Length</p> <p><b>CHAIN OPTIONS:</b> L = Standard Link N = Spark Resistant Roller P = Zinc Plated Link R = Standard Roller X = NoChain</p>	<p><b>CAPACITY RATING:</b> 03 - 300 lbs. (03/05/09/10)    11 - 1000 lbs. (20) 05 - 500 lbs. (04/05/09/10)    15 - 1500 lbs. (20) 10 - 1000 lbs. (09/10)          20 - 2000 lbs. (20)</p> <p><b>VINTAGE:</b> A</p> <p><b>LOWER HOOK:</b> <b>Hook &amp; Lug</b> A = Standard Link (03/05/10)      I = Bullard Link (20) B = Bullard Link (03/05/10)      P = Bullard w /mod. Lift (03/0) C = Standard (SR) (04/09)      X = No Lower Hook D = Bullard (SR) (04/09) E = Standard w /mod. Lift (03/05/10)    <b>Trolley</b> F = Bullard w /10ft. Lift (03/05/10)    A = Standard Link (03/05/10) G = Standard w /10ft. Lift (03/05/10)    B = Bullard Link (03/05/10) H = Standard Link (20)                  X = No Lower Hook</p> <p><b>UPPER MOUNTING</b> <b>Hook</b> A = Standard (03/05/10)      A = 2.63-5" Tapered (03/05/10) Standard B = Bullard (03/05/10)      B = 5-7" Tapered (03/05/10) C = Standard (SR) (04/09)    C = 2.63-5" Tapered w /Hoisttractor bracket (0 D = Bullard (SR) (04/09)      D = 5-7" Flat (03/05/10) E = Standard (20)              E = 2.63-5" Flat (03/05/10) F = Bullard (20)                F = 2.63-5" Flat w /Hoisttractor bracket (03/05 G = None                        G = 2" Narrow Flat (03/05/10) X = None                        H = 2" Narrow Flat w /Hoisttractor bracket (03</p> <p><b>Lug</b> A = Standard (03/05/10) B = Standard (20) X = None</p> <p><b>AMOUNT OF LIFT:</b> --- Specify Length in Feet, 3 digits Example: 10' lift = <u>0.1.0</u></p> <p><small>Note: Numbers in parentheses following an option, represent the hoist capacities for which that option is available.</small></p>
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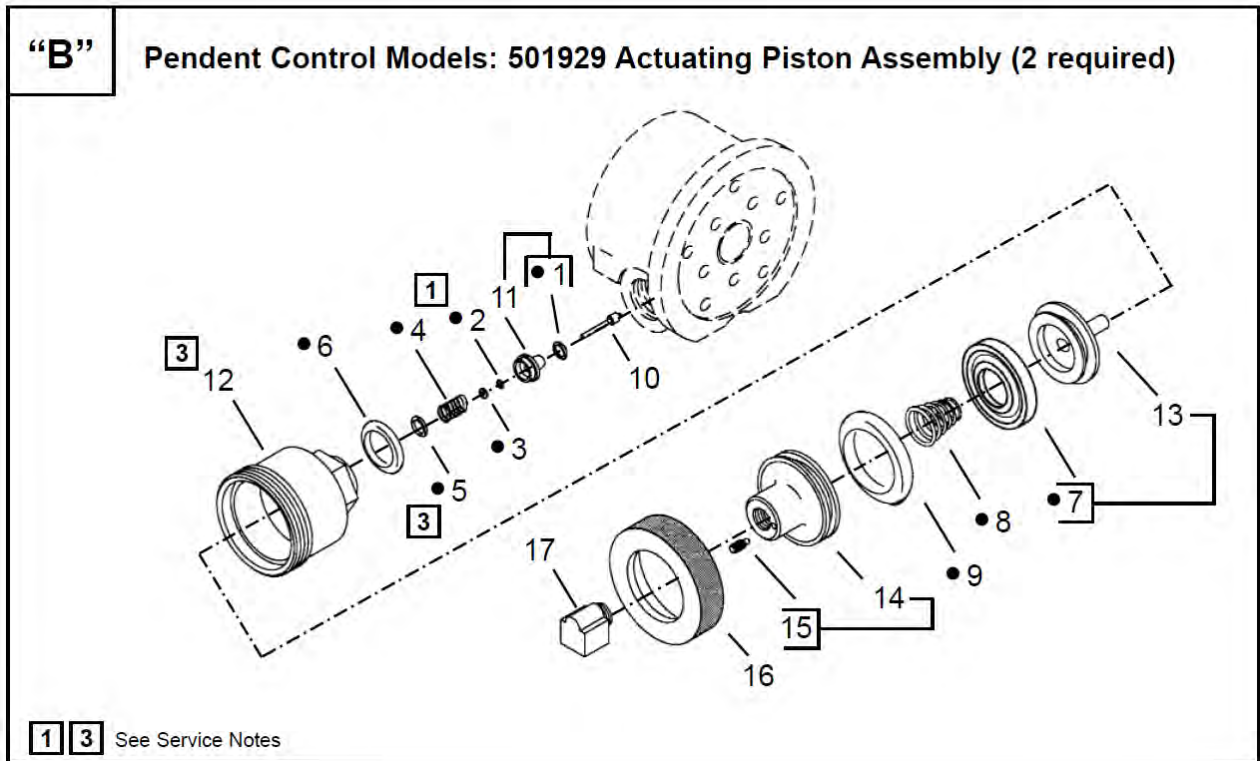
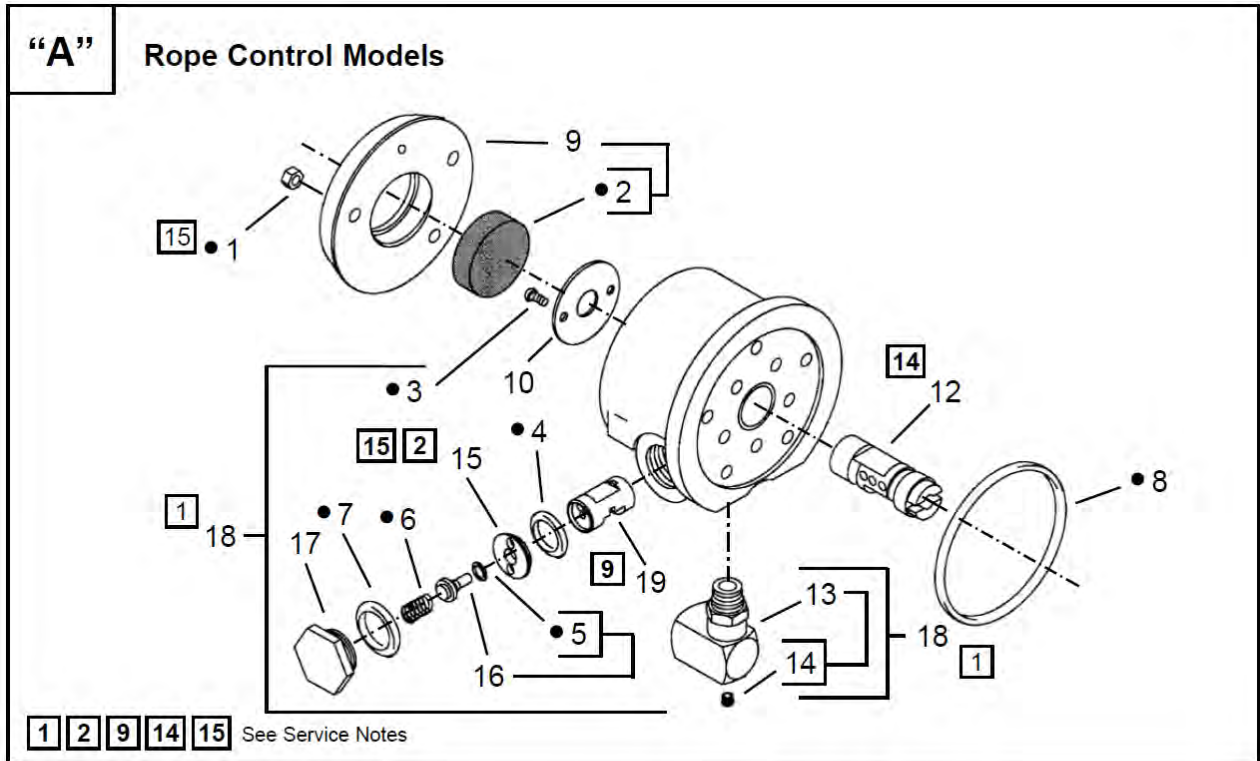
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## Head Assembly



## Head Assembly (parts)

### Illustration, Abbildung, Illustration, Ilustración, Illustrazione "A"

Index	Number	Qty	·	EN	DE	FR	ES	IT
				Description	Benennung	Designation	Descripción	Descrizione
1	C105J	5	5	Nut	Mutter	Ecrou	Tuerca	Dado
2	27489	1	1	Muffler	Auspufftopf	Silencieux	Silenciador	Silenziatore
3	B102J	2	2	Screw	Gewindestift	Vis	Tornillo	Vite
4	13063	2	2	O-Ring	O-Ring	Anneau "O"	Anillo "O"	Anello ad O
5	1008127	2	2	O-Ring	O-Ring	Anneau "O"	Anillo "O"	Anello ad O
6	521984	2	2	Spring	Druckfeder	Ressort	Resorte	Molla
7	61151	2	2	O-Ring	O-Ring	Anneau "O"	Anillo "O"	Anello ad O
8	17834	1	1	O-Ring	O-Ring	Anneau "O"	Anillo "O"	Anello ad O
9	A27487	1		Adapter	Zwischenstück	Adaptateur	Adaptador	Adattatore
10	10360	1		Cover Plate	Abdeckplatte	Plaque de fermeture	Placa de la cubierta	Piattello di chiusura
11	A27326	1		Head	Koepf	Tête	Cabezal	Testa
12	10100	1		Distributor	Verteiler	Distributeur	Distribuidor	Distributore
13	511018	1		Swivel	Drehbar	Emerillon	Eslabon giratorio	Molinello
14	F504	1		Plug	Buchse	Tampon	Tapon	Spina
15	18946	1		Valve Guide	Ventilführung	Guide-soupape	Guia de valvula	Guida valvola
16	A27860	1		Valve	Ventil	Soupape	Valvula	Valvola
17	A103461	1		Cap	Kappe	Chapeau	Tapa	Cappello
18	Table "A"	1		Head Assembly	Koepfzusammenbau	Assemblage de tete	Ensamblaje de cabezal	Assemblaggio testa
19	Table "A"	1		Reversing Valve	Umsteuerventil	Vanne de reversement	Valvula de inversion	Valvola di reversibilita

### Table, Tabelle, Tableau, Tabla, Tabella "A"

Index	Description	Qty	P1HA03L	Qty	P1HA05L P1HA10L P1HA20L
18	Head Assembly	1	A27735	1	A27324
19	Reversing Valve	1	27735	1	27324

### Illustration, Abbildung, Illustration, Ilustración, Illustrazione "B"

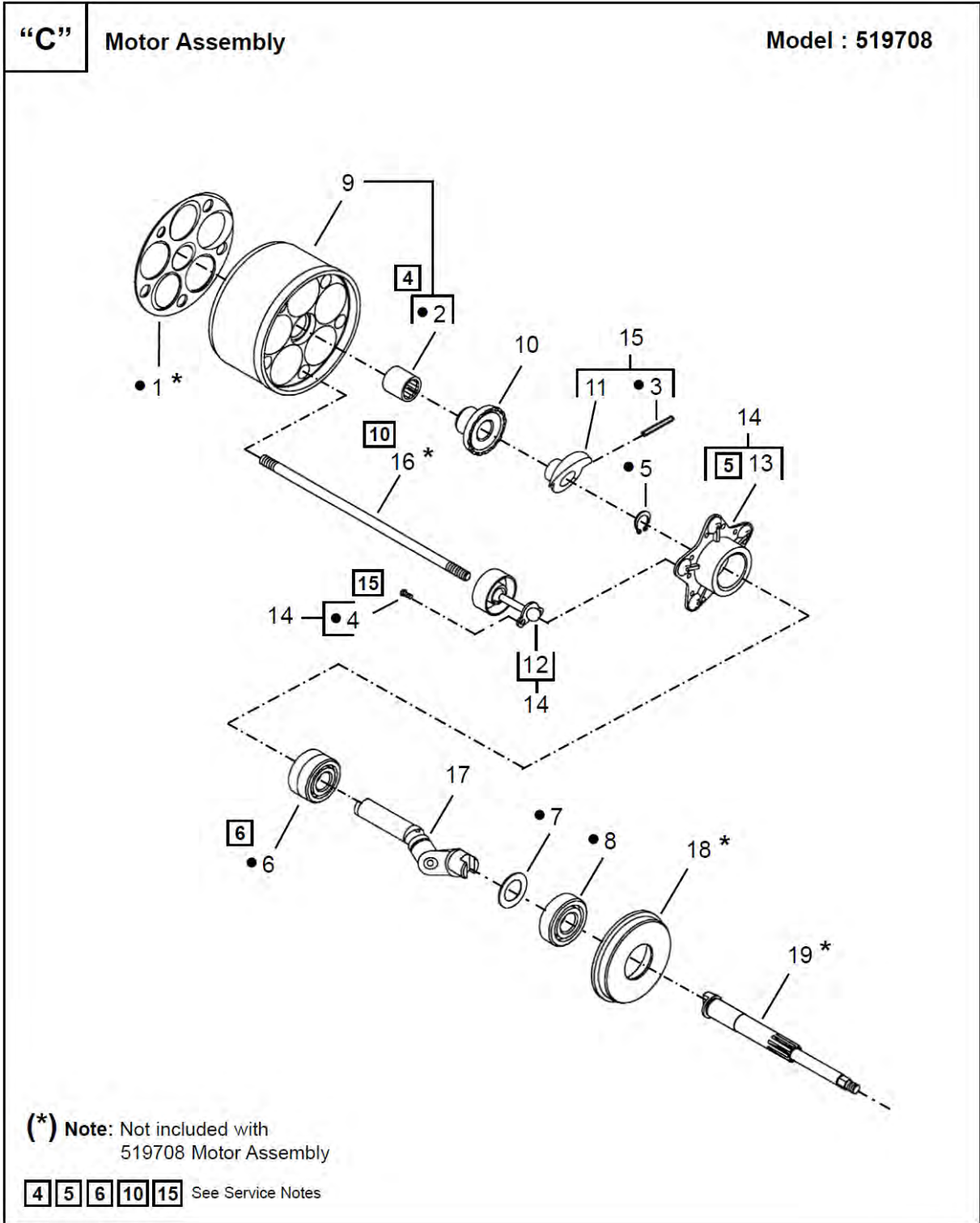
Index	Number	Qty	·	EN	DE	FR	ES	IT
				Description	Benennung	Designation	Descripción	Descrizione
1	1008127	2	2	O-Ring	O-Ring	Anneau "O"	Anillo "O"	Anello ad O
2	22234	2	2	O-Ring	O-Ring	Anneau "O"	Anillo "O"	Anello ad O
3	W186	2	2	Washer	Scheibe	Rondelle	Arandela	Rondella
4	521984	2	2	Spring	Druckfeder	Ressort	Resorte	Molla
5	504970	2	2	O-Ring	O-Ring	Anneau "O"	Anillo "O"	Anello ad O
6	61151	2	2	O-Ring	O-Ring	Anneau "O"	Anillo "O"	Anello ad O
7	16356	2	2	Seal	Dichtung	Sceau	Sello	Guarnizione
8	30887	2	2	Spring	Druckfeder	Ressort	Resorte	Molla
9	14272	2	2	O-Ring	O-Ring	Anneau "O"	Anillo "O"	Anello ad O
10	17731	2		Pin	Stift	Goujon	Pasador	Spina
11	A17790	2		Valve	Ventil	Soupape	Valvula	Valvola
12	27740	2		Cylinder	Zylinder	Cylinder	Cilindro	Cilindro
13	539541	2		Piston	Kolben	Piston	Embolo	Pistone
14	501848	2		Cap	Kappa	Chapeau	Tapa	Cappello
15	501849	2		Adjusting Screw	Elinstellschraube	Vis de reglage	Tornillo de ajuste	Vite di regolazione
16	17729	2		Nut	Mutter	Ecrou	Tuerca	Dado
17	F511	2		Elbow	Elbogen	Coude	Codo	Curva

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

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



## Motor Assembly



## Motor Assembly (parts)

### Illustration, Abbildung, Illustration, Ilustración, Illustrazione "C"

Index	Number	Qty	·	EN	DE	FR	ES	IT
				Description	Benennung	Designation	Descripción	Descrizione
1	1V189	1	1	Gasket	Dichtung	Joint d' etancheite	Empaquetadura	Guarnizione
2	535712	1	1	Bearing	Lager	Coussinet	Cojinete	Cuscinetto
3	RP102E	1	1	Pin	Stift	Goujon	Pasador	Spina
4	B122R	10	10	Screw	Gewindestift	Vis	Tornillo	Vite
5	500740	1	1	Retaining Ring	Sicherungsring	Anneau de fixation	Anillo de retencion	Anello di fissaggio
6	22655	1	1	Bearing (Pair)	Lager	Coussinet	Cojinete	Cuscinetto
7	14048	1	1	Washer	Scheibe	Rondelle	Arandela	Rondella
8	O155	1	1	Bearing	Lager	Coussinet	Cojinete	Cuscinetto
9	A21385	1		Cylinder	Zylinder	Cylindre	Cilindro	Cilindro
10	213772	1		Bevel Gear	Kegelrad	Engrenage conique	Engranaje conico	Ingranaggio conico
11	25196	1		Counter Weight	Ausgleichsgewicht	Contrepoids	Contrapeso	Contropeso
12	511504	5		Piston	Kolben	Piston	Embolo	Pistone
13	511505	1		Socket plate	Stecknussplatte	Plaque de douille	Placa de enchufe	Portapiatello
14	511503	1		Socket Plate Assembly	Stecknussplattenzusammenbau	Assemblage d' plaque de douille	Ensamblaje de la placa de enchufe	Gruppo portapiatello
15	519709	1		Driveshaft Assembly	Abtriebsschaftzusammenbau	Assemblage d' arbre transmission	Ensamblaje de eje motor	Gruppo abero motore
16	541843	5		Stud	Bolzen	Goujon	Esparrago	Perno sporgente
17	21386	1		Driveshaft	Abtriebsschaft	Arbe de transmission	Eje motor	Albero motore
18	27533	1		Adapter	Zwischenstück	Adaptateur	Adaptador	Adattatore
19	Table "C"	1		Spindle	Spindle	Brouche	Husillo	Mandrino

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

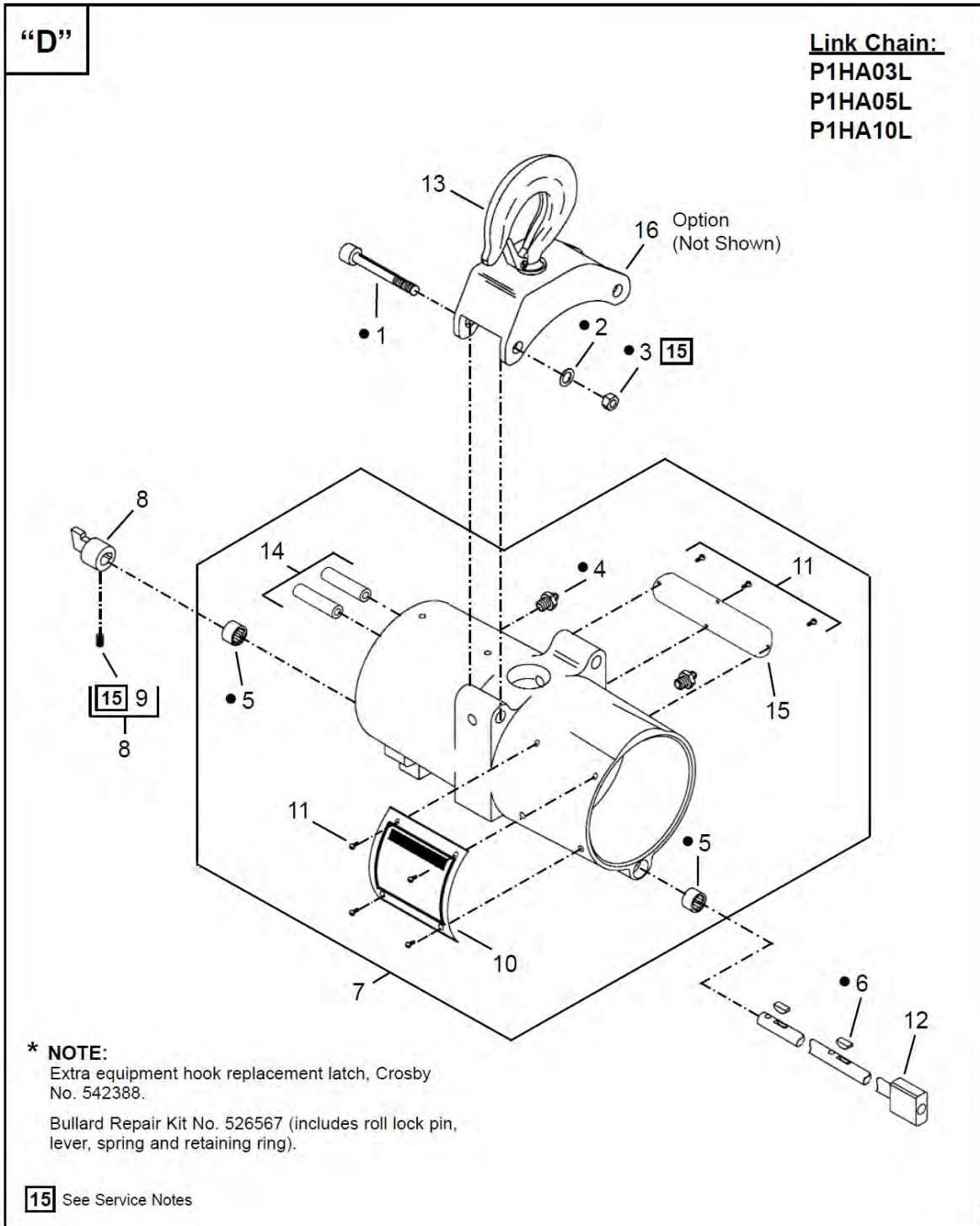
· Recommended Spare Parts / Kennzeichnet empfohlenes / Identifica un particolare di ricambio raccomandato / Designa el repuesto recomendado / Indique la pièce de rechange conseillée

### Table, Tabelle, Tableau, Tabla, Tabella "C"

Index	Description	Qty	P1( )03L P1( )10L	Qty	P1( )05L
19	Spindle	1	20733	1	15464



## Housing and Upper Hook Assembly A



## Housing and Upper Hook Assembly A (parts)

Illustration, Abbildung, Illustration, Ilustración, Illustrazione "D"

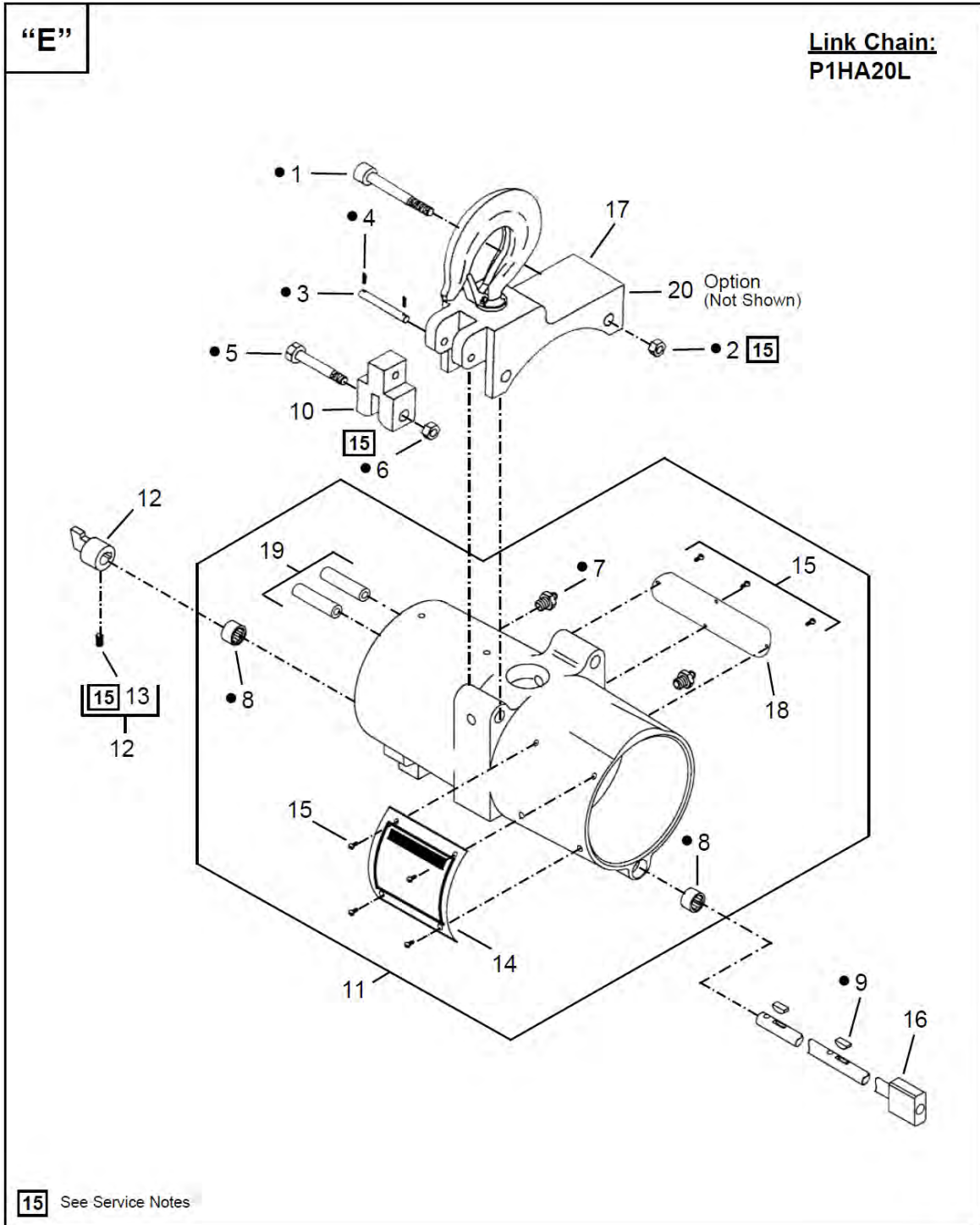
Index	Number	Qty	·	EN	DE	FR	ES	IT
				Description	Benennung	Designation	Descripción	Descrizione
1	B132S	2	4	Screw	Gewindestift	Vis	Tornillo	Vite
2	W150	2	4	Washer	Scheibe	Rondelle	Arandela	Rondella
3	C105J	2	4	Nut	Mutter	Ecrou	Tuerca	Dado
4	RG78	2	4	Grease Fitting	Schmiernippel	Monture de graisse	Accesorio de grasa	Ingrassatore
5	10358	2	4	Bearing	Lager	Coussinet	Cojinete	Cuscinetto
6	2N721	2	4	Key	Schlüssel	Clavette	Llave	Chiave
7	500228	1	2	Housing	Gehäuse	Corps	Caja	Corpo
8	A10350	1		Control Finger	Steuerfinger	Doigt de contrôle	Dedo de control	Dente di comando
9	B118H	1	2	Screw	Gewindestift	Vis	Tornillo	Vite
10	521444	1		Caution Plate	Achtungsschild	Plaque d'avertissement	Placa de instrucciones	Piastra di protezione
11	534820	8		Drive Screw	Gewindestift	Vis	Tornillo	Vite
12	A10775	1		Control Rod	Steuerstange	Barre de commande	Barra de control	Asta di comando
13	539500	1		Upper Hook (Std)	Oberer Haken	Crochet supérieur	Gancho superior	Gancio superiore
14	512050	2		Tube Vent	Öffnung	Aération	Ventilación	Ventilazione
15	500229	1		Name Plate	Namensschild	Plaque	Placa de identificación	Targa
16	539558	1		Upper Hook (Bullard)	Oberer Haken	Crochet supérieur	Gancho superior	Gancio superiore

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

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## Housing and Upper Hook Assembly B



## Housing and Upper Hook Assembly B (parts)

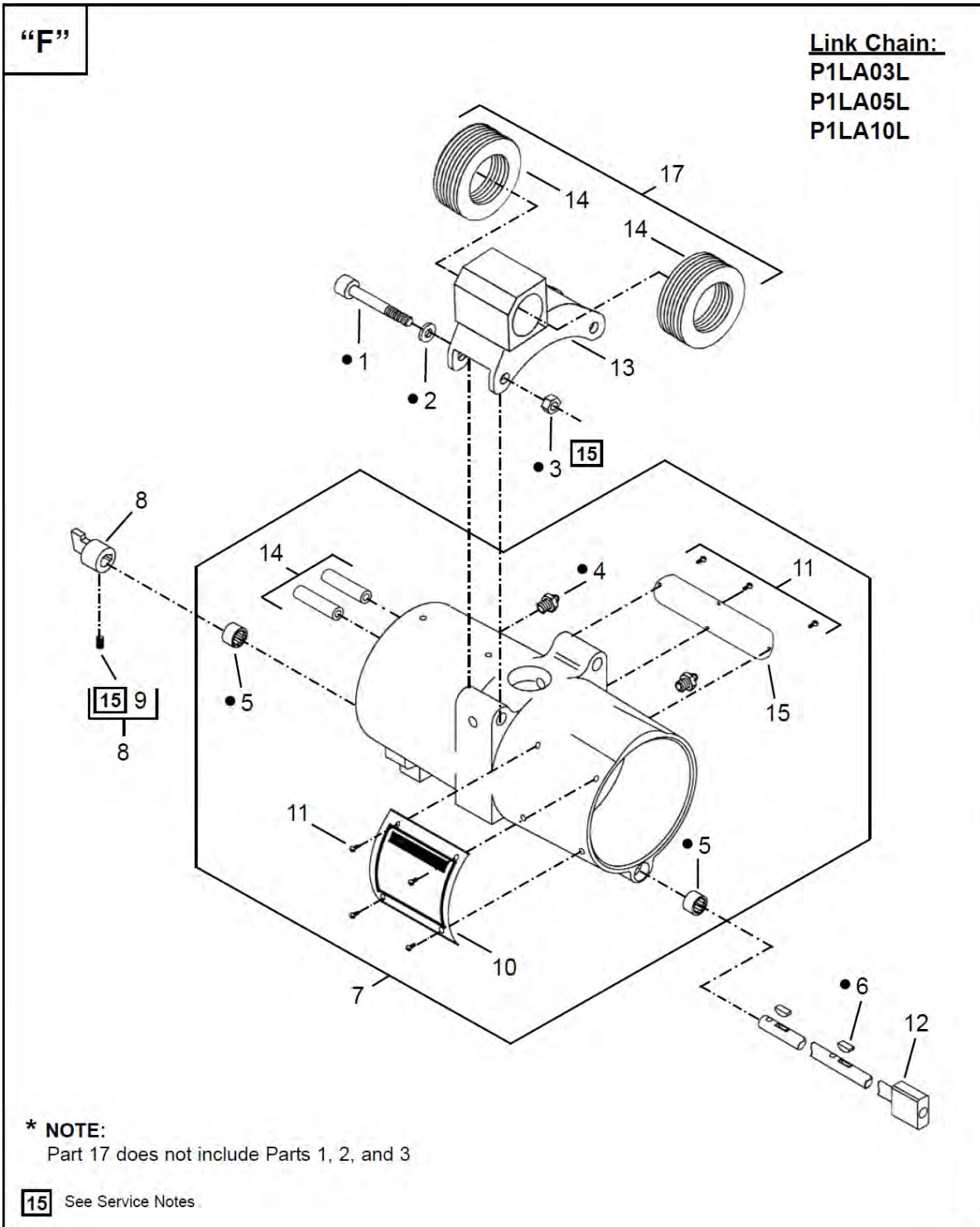
Illustration, Abbildung, Illustration, Ilustración, Illustrazione "E"

Index	Number	Qty	·	EN	DE	FR	ES	IT
				Description	Benennung	Designation	Descripción	Descrizione
1	B132S	2	4	Screw	Gewindestift	Vis	Tornillo	Vite
2	C105J	2	4	Nut	Mutter	Ecrou	Tuerca	Dado
3	27102	1	2	Pin	Stift	Goupille cylindrique	Pasador	Spina
4	P101C	2	4	Pin	Stift	Goupille cylindrique	Pasador	Spina
5	27101	1	2	Screw	Gewindestift	Vis	Tornillo	Vite
6	C101E	1	2	Nut	Mutter	Ecrou	Tuerca	Dado
7	RG78	2	4	Grease Fitting	Schmiernippel	Monture de graisse	Accesorio de grasa	Ingrassatore
8	10358	2	4	Bearing	Lager	Coussinet	Cojinete	Cuscinetto
9	2N721	2	4	Key	Schlüssel	Clavette	Llave	Chiave
10	504820	1		Adapter	Zwischenstück	Adaptateur	Adaptador	Adattatore
11	500228	1		Housing	Gehäuse	Corps	Caja	Corpo
12	A10350	1		Control Finger	Steuerstange	Barre de commande	Barra de control	Asta di comando
13	B118H	1		Screw	Gewindestift	Vis	Tornillo	Vite
14	521444	1		Caution Plate	Achtungsschild	Plaque d'avertissement	Placa de instrucciones	Piastra di protezione
15	534820	8		Screw	Gewindestift	Vis	Tornillo	Vite
16	A10775	1		Control Rod	Steuerstange	Barre de commande	Barra de control	Asta di comando
17	500374	1		Upper Hook	Oberer Haken	Crochet supérieur	Gancho superior	Gancio superiore
18	500229	1		Name Plate	Namensschild	Plaque	Placa de identificación	Targa
19	A10775	2		Tube Vent	Öffnung	Aération	Ventilación	Ventilazione
20	505109	1		Upper Hook (Bullard)	Oberer Haken	Crochet supérieur	Gancho superior	Gancio superiore

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

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## Housing and Upper Lug Assembly A



## Housing and Upper Lug Assembly A (parts)

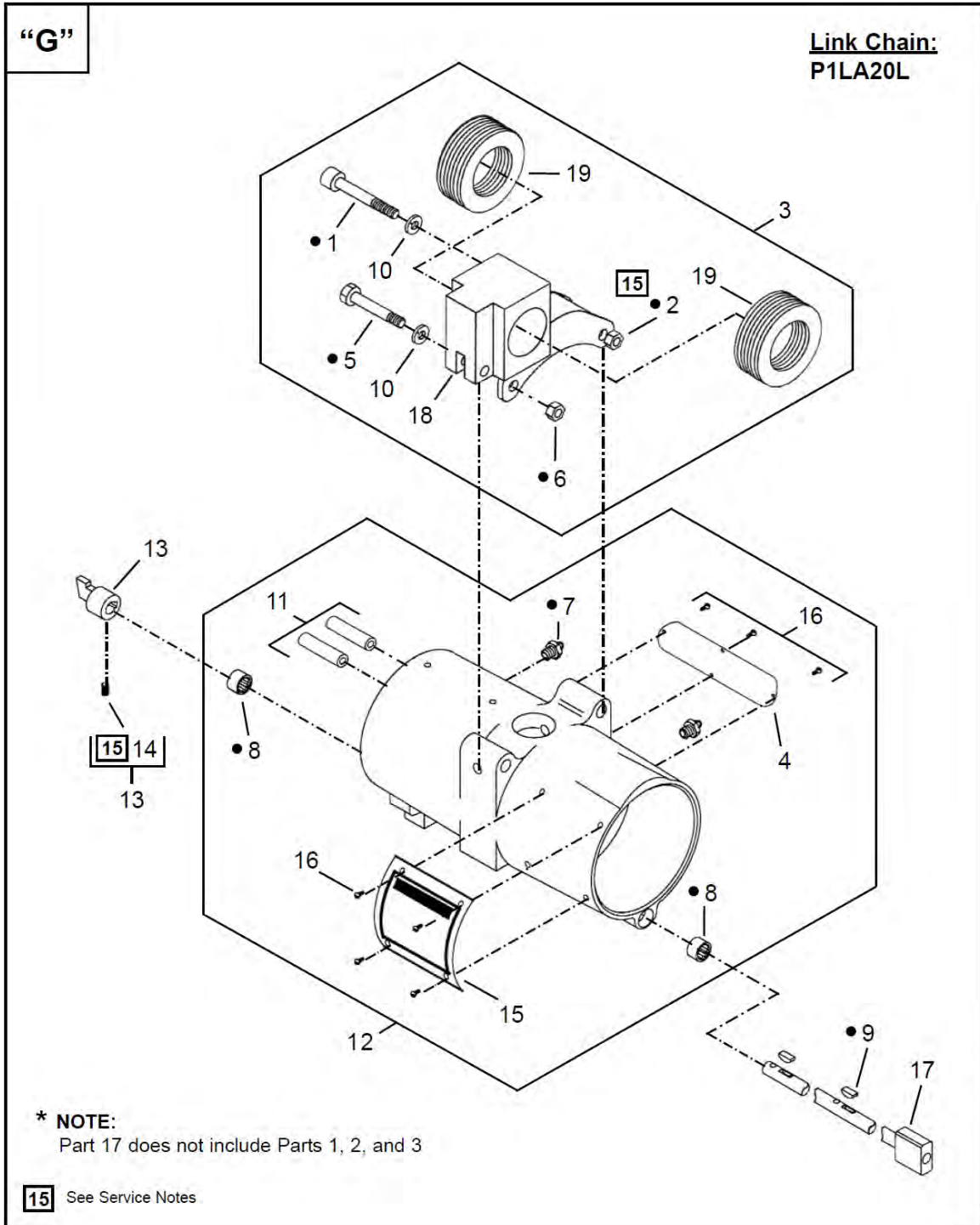
Illustration, Abbildung, Illustration, Ilustración, Illustrazione "F"

Index	Number	Qty	·	EN	DE	FR	ES	IT
				Description	Benennung	Designation	Descripción	Descrizione
1	B132S	2	4	Screw	Gewindestift	Vis	Tornillo	Vite
2	W150	2	4	Washer	Scheibe	Rondelle	Arandela	Rondella
3	C105J	2	4	Nut	Mutter	Ecrou	Tuerca	Dado
4	RG78	2	4	Grease Fitting	Schmiernippel	Monture de graisse	Accesorio de grasa	Ingrassatore
5	10358	2	4	Bearing	Lager	Coussinet	Cojinete	Cuscinetto
6	2N721	2	4	Key	Schlüssel	Clavette	Llave	Chiave
7	500228	1	2	Housing	Gehäuse	Corps	Caja	Corpo
8	A10350	1		Control Finger	Steuerfinger	Doigt de contrôle	Dedo de control	Dente di comando
9	B118H	1	2	Screw	Gewindestift	Vis	Tornillo	Vite
10	521444	1		Caution Plate	Achtungsschild	Plaque d'avertissement	Placa de instrucciones	Piastra di protezione
11	534820	4		Drive Screw	Gewindestift	Vis	Tornillo	Vite
12	A10775	1		Control Rod	Steuerstange	Barre de commande	Barra de control	Asta di comando
13	539385	1		Lug Mount	Oberer Haken	Crochet supérieur	Gancho superior	Gancio superiore
14	539371	11		Washer	Scheibe	Rondelle	Arandela	Rondella
15	512050	1		Tube Vent	Öffnung	Aération	Ventilación	Ventilazione
16	500229	1		Name Plate	Namensschild	Plaque	Placa de identificación	Targa
17	539380	1		Lug Mount Kit	Satz	Ensemble	Juego	Corredo

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

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## Housing and Upper Lug Assembly B



## Housing and Upper Lug Assembly B (parts)

Illustration, Abbildung, Illustration, Ilustración, Illustrazione "G"

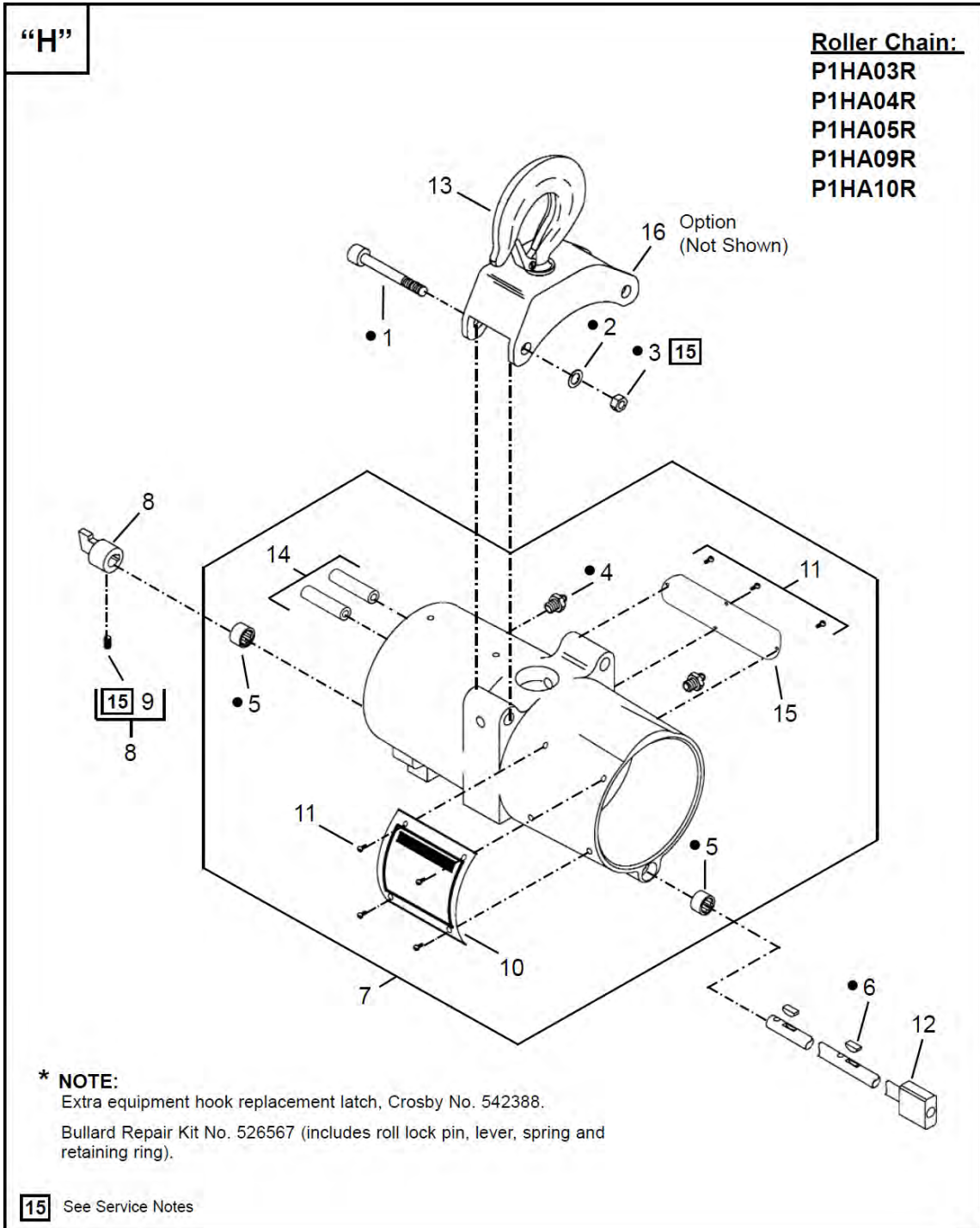
Index	Number	Qty	·	EN	DE	FR	ES	IT
				Description	Benennung	Designation	Descripción	Descrizione
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2	C105J	2	4	Nut	Mutter	Ecrou	Tuerca	Dado
3	539381	1		Lug Mount Kit	Satz	Ensemble	Juego	Corredo
4	500229	1		Name Plate	Namensschild	Plaque	Placa de identificación	Targa
5	27101	1	2	Screw	Gewindestift	Vis	Tornillo	Vite
6	C101E	1	2	Nut	Mutter	Ecrou	Tuerca	Dado
7	RG78	2	4	Grease Fitting	Schmiernippel	Monture de graisse	Accesorio de grasa	Ingrassatore
8	10358	2	4	Bearing	Lager	Coussinet	Cojinete	Cuscinetto
9	2N721	2	4	Key	Schlüssel	Clavette	Llave	Chiave
10	W150	2	2	Washer	Scheibe	Rondelle	Arandela	Rondella
11	512050	2		Tube Vent	Öffnung	Aération	Ventilación	Ventilazione
12	500228	1		Housing	Gehäuse	Corps	Caja	Corpo
13	A10350	1		Control Finger	Steuerfinger	Doigt de contrôle	Dedo de control	Dente di comando
14	B118H	1		Screw	Gewindestift	Vis	Tornillo	Vite
15	521444	1		Caution Plate	Achtungsschild	Plaque d'avertissement	Placa de instrucciones	Piastra di protezione
16	534820	8		Screw	Gewindestift	Vis	Tornillo	Vite
17	A10775	1		Control Rod	Steuerstange	Barre de commande	Barra de control	Asta di comando
18	539386	1		Lug Mount	Ösenbefestigung	Montage sur oreille	Montado de arrastre	Montaggio ad aletta
19	539373	14		Washer	Scheibe	Rondelle	Arandela	Rondella

(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



## Housing and Upper Hook Assembly with Roller Chain



## Housing and Upper Hook Assembly with Roller Chain (parts)

### Illustration, Abbildung, Illustration, Ilustración, Illustrazione "H"

Index	Number	Qty	·	EN	DE	FR	ES	IT
				Description	Benennung	Designation	Descripción	Descrizione
1	B132S	2	2	Screw	Gewindestift	Vis	Tornillo	Vite
2	W150	2	2	Washer	Scheibe	Rondelle	Arandela	Rondella
3	C105J	2	2	Nut	Mutter	Ecrou	Tuerca	Dado
4	RG78	2	2	Grease Fitting	Schmiernippel	Monture de graisse	Accesorio de grasa	Ingrassatore
5	10358	2	2	Bearing	Lager	Coussinet	Cojinete	Cuscinetto
6	2N721	2	2	Key	Schussel	Cle	Llave	Chiave
7	500228	1		Housing	Gehäuse	Cage	Caja	Corpo
8	A10350	1		Control Finger	Steuerfinger	Doigt de controle	Dedo de control	Dente di comando
9	B118H	1		Screw	Gewindestift	Vis	Tornillo	Vite
10	521444	1		Caution Plate	Achtungsschild	Plaque d'avertissement	Placa de instrucciones	Piastra di protezione
11	534820	4		Screw	Gewindestift	Vis	Tornillo	Vite
12	A10775	1		Control Rod	Steuerstange	Barre de commande	Barra de control	Asta di comando
13	Table "H"	1		Upper Hook	Oberer Haken	Crochet superieur	Gancho superior	Gancio superiore
14	512050	2		Tube Vent	Öffnung	Aération	Ventilación	Ventilazione
15	500229	1		Name Plate	Namensschild	Plaque	Placa de identificación	Targa
16	Table "H"	1		Upper Hook (Bullard)	Oberer Haken	Crochet superieur	Gancho superior	Gancio superiore

(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

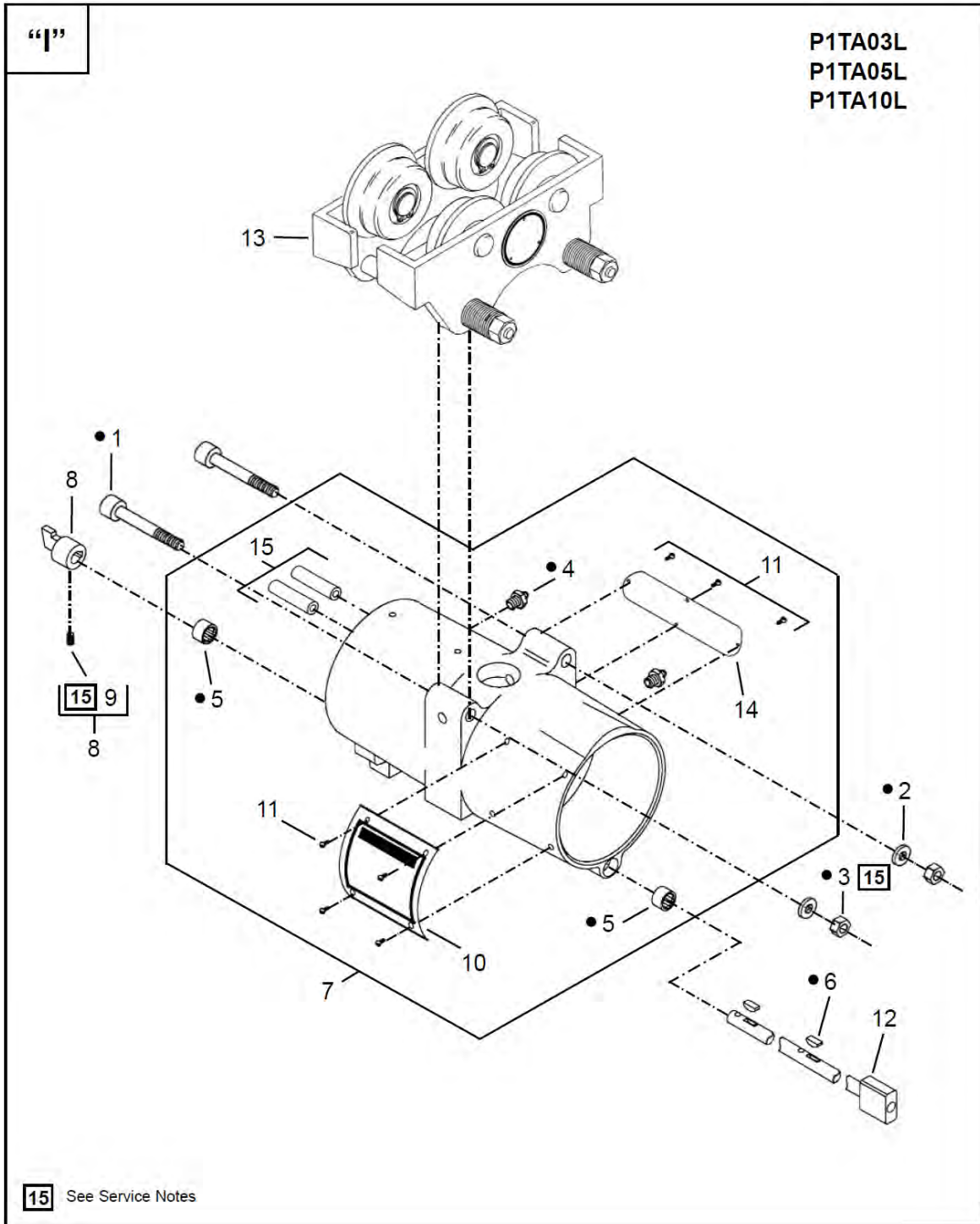
### Table, Tabelle, Tableau, Tabla, Tabella "H"

Index	Description	Qty	P1HA03R P1HA05R P1HA10R	Qty	P1HA04R P1HA09R
13	Upper Hook	1	539500	1	539557 *
16	Upper Hook (Bullard)	1	539558	1	539559 *

(\*) Spark Resistant



## Housing and Trolley Assembly



## Housing and Trolley Assembly (parts)

Illustration, Abbildung, Illustration, Ilustración, Illustrazione "I"

Index	Number	Qty	·	EN	DE	FR	ES	IT
				Description	Benennung	Designation	Descripción	Descrizione
1	B132S	2	4	Screw	Gewindestift	Vis	Tornillo	Vite
2	W150	2	4	Washer	Scheibe	Rondelle	Arandela	Rondella
3	C105J	2	4	Nut	Mutter	Ecrou	Tuerca	Dado
4	RG78	2	4	Grease Fitting	Schmiernippel	Monture de graisse	Accesorio de grasa	Ingrassatore
5	10358	2	4	Bearing	Lager	Coussinet	Cojinete	Cuscinetto
6	2N721	2	4	Key	Schussel	Cle	Llave	Chiave
7	500228	1		Housing	Gehäuse	Cage	Caja	Corpo
8	A10350	1		Control Finger	Steuerfinger	Doigt de controle	Dedo de control	Dente di comando
9	B118H	1		Screw	Gewindestift	Vis	Tornillo	Vite
10	521444	1		Caution Plate	Achtungsschild	Plaque d'avertissement	Placa de instrucciones	Piastra di protezione
11	534820	8		Screw	Gewindestift	Vis	Tornillo	Vite
12	A10775	1		Control Rod	Steuerstange	Barre de commande	Barra de control	Asta di comando
13	Table "I"	1		Trolley (Tapered)	Wagen (Konisch)	Trolley (Conique)	Trole (Conico)	Carrello (Conico)
	Table "I"	1		Trolley (Tapered) (w/TATA Bracket)	Wagen (Konisch) (TATA Klammer)	Trolley (Conique) (TATA support)	Trole (Conico) (TATA Soporte)	Carrello (Conico) (TATA Staffa)
	Table "I"	1		Trolley (Flat)	Wagen (Flach)	Trolley (Plat)	Trole (Plano)	Carrello (Piatto)
	Table "I"	1		Trolley (Flat) (w/TATA Bracket)	Wagen (Flach) (TATA Klammer)	Trolley (Plat) (TATA support)	Trole (Plano) (TATA Soporte)	Carrello (Piatto) (TATA Staffa)
	Table "I"	1		Trolley (Narrow) 2"	Wagen (Schmal)	Trolley (Etroit)	Trole (Angosto)	Carrello (Stretto)
	Table "I"	1		Trolley (Narrow) 2" (w/TATA Bracket)	Wagen (Schmal) (TATA Klammer)	Trolley (Etroit) (TATA support)	Trole (Angosto) (TATA Soporte)	Carrello (Stretto) (TATA Staffa)
14	500229	1		Name Plate	Namensschild	Plaque	Placa de identificación	Targa
15	515050	2		Tube Vent	Öffnung	Aération	Ventilación	Ventilazione

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

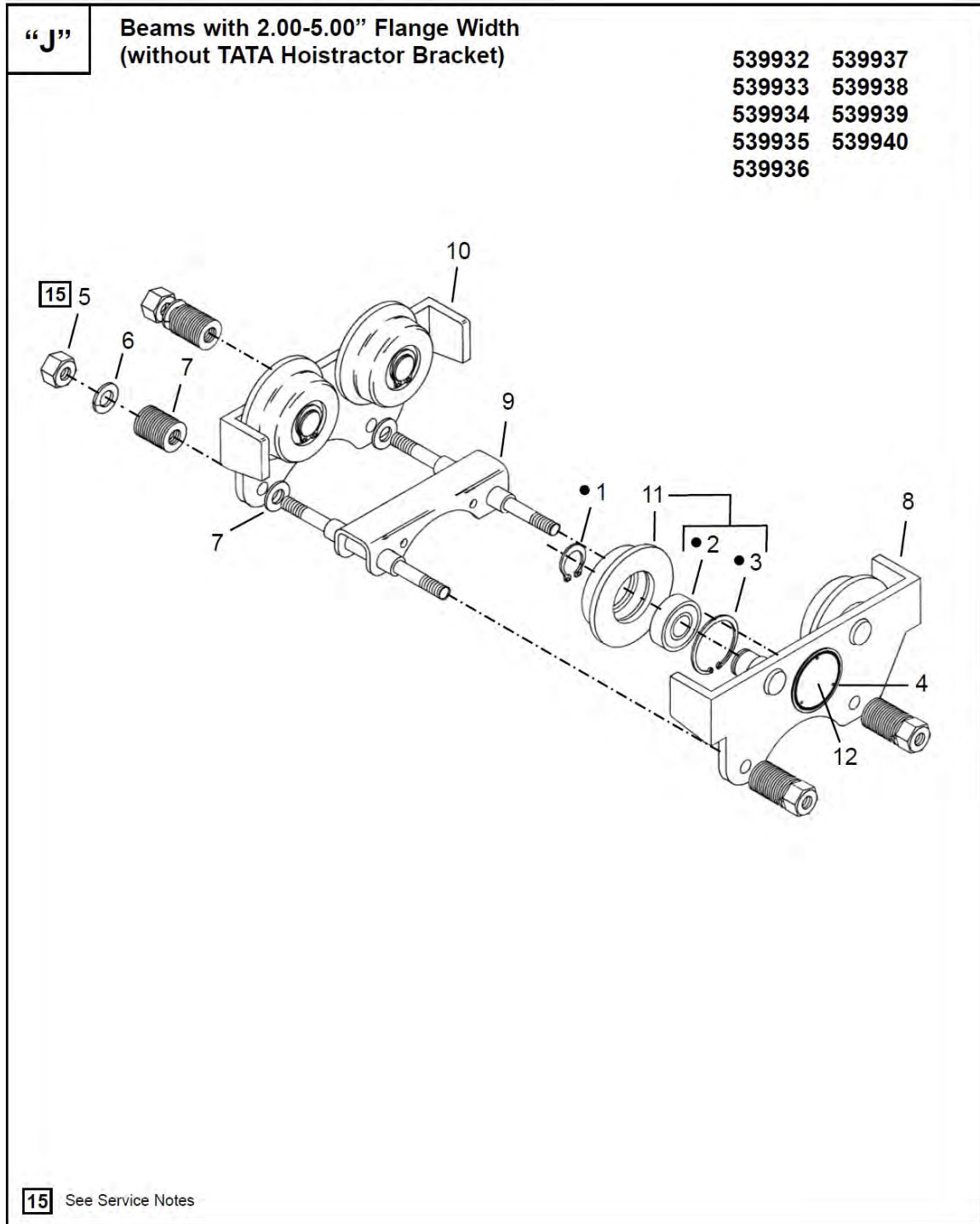
· Recommended Spare Parts / Kennzeichnet empfohlenes / Identifica un particolare di ricambio raccomandato / Designa el repuesto recomendado / Indique la pièce de rechange conseillée

Table, Tabelle, Tableau, Tabla, Tabella "I"

Index	Description	Qty	P1TA03L	Qty	P1TA05L	Qty	P1TA10L
13	Trolley (Tapered)	1	539932	1	539935	1	539938
	Trolley (Tapered) (w/TATA Bracket)	1	541338	1	541341	1	541344
	Trolley (Flat)	1	539933	1	539936	1	539939
	Trolley (Flat) (w/TATA Bracket)	1	541339	1	541342	1	541345
	Trolley (Narrow) 2"	1	539934	1	539937	1	539940
	Trolley (Narrow) 2" (w/TATA Bracket)	1	541340	1	541343	1	541346



## Trolley Assembly A



## Trolley Assembly A (parts)

Illustration, Abbildung, Illustration, Ilustración, Illustrazione "J"

Index	Number	#	·	EN	DE	FR	ES	IT
				Description	Benennung	Designation	Descripción	Descrizione
1	800141	4	4	Retaining Ring	Sicherungsring	Anneau de fixation	Anillo de retencion	Anello di fissaggio
2	526529	4	4	Bearing	Lager	Coussinet	Cojinete	Cuscinetto
3	503406	4	4	Retaining Ring	Sicherungsring	Anneau de fixation	Anillo de retencion	Anello di fissaggio
4	534820	6		Drive Screw	Gewindestift	Vis	Tornillo	Vite
5	C104E	4		Nut	Mutter	Ecrou	Tuerca	Dado
6	W125	4		Washer	Scheibe	Rondelle	Arandela	Rondella
7	W199	56		Washer	Scheibe	Rondelle	Arandela	Rondella
8	539015	1		Side Plate (LH)	Seitliche Platte	Plaque de serrage	Placa lateral	Piastra laterale
9	500224	1		Bracket	Klammer	Support	Soports	Staffa
10	539014	1		Side Plate (RH)	Seitliche Platte	Plaque de serrage	Placa lateral	Piastra laterale
11	Table "J"	4		Wheel Assembly	Radbaugruppe	Assemblage de roue	Ensamblaje de rueda	Gruppo mole
12	Table "J"	2		Capacity Plate	Kapazitaetsschild	Plaque signalétique	Placa de capacidad	Piattello capacitivo

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

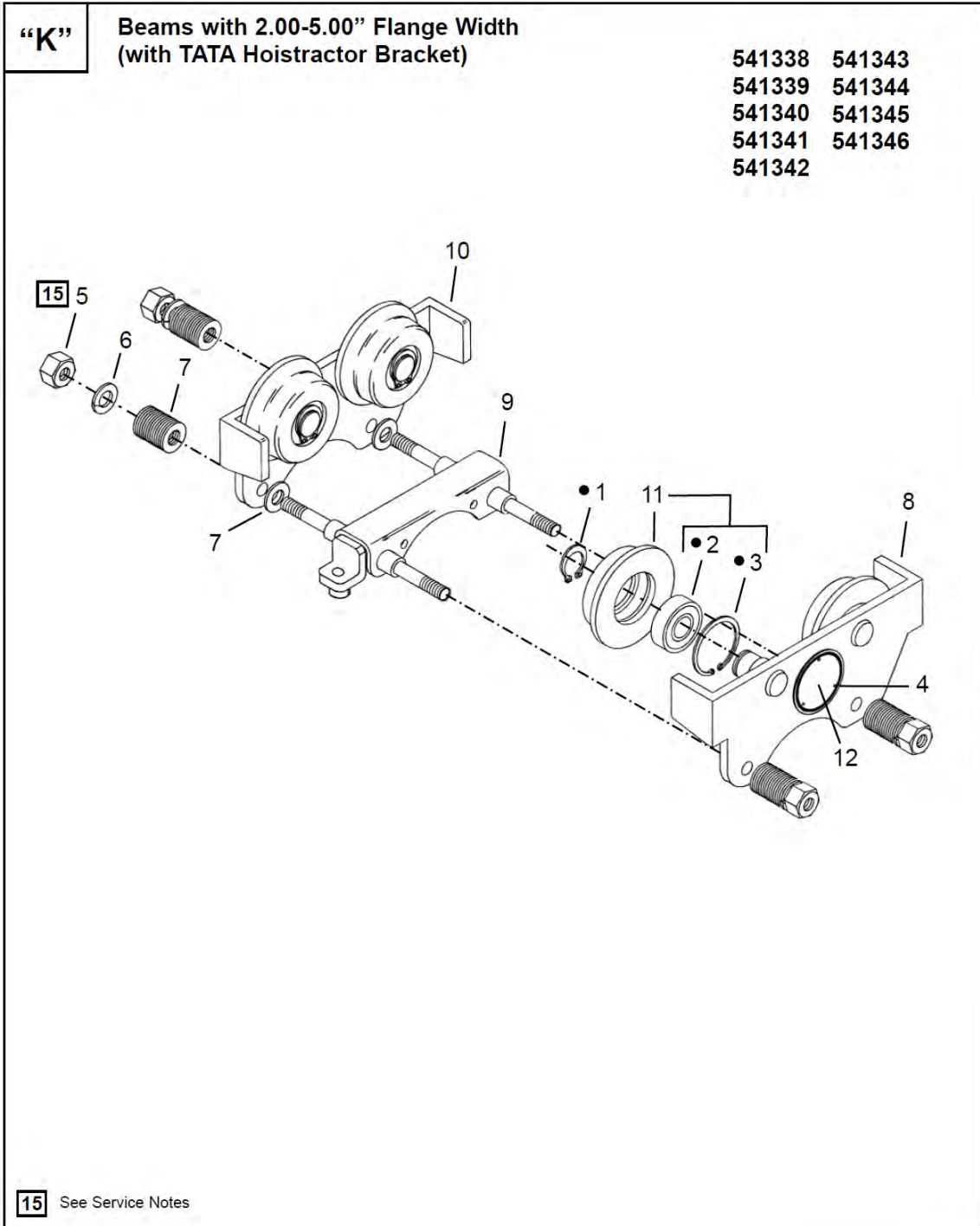
· Recommended Spare Parts / Kennzeichnet empfohlenes / Identifica un particolare di ricambio  
raccomandato / Designa el repuesto recomendado / Indique la pièce de rechange conseillée

Table, Tabelle, Tableau, Tabla, Tabella "J"

Index	Description	P1TA03			P1TA05			P1TA10		
		Capacity - 300 lbs			Capacity - 500 lbs			Capacity - 1000 lbs		
11	Wheel Assembly	532939	534755	532948	532939	534755	532948	532939	534755	532948
12	Capacity Plate	11446	11446	11446	11056	11056	11056	11055	11055	11055
	Trolley Assembly	539932	539933	539934	539935	539936	539937	539938	539939	539940
	I-Beam Type	Standard	Patented	Patented	Standard	Patented	Patented	Standard	Patented	Patented
	Wheel Type	Tapped	Flat	Narrow 2"	Tapped	Flat	Narrow 2"	Tapped	Flat	Narrow 2"
	Flange Width	2.63"-5"	2.63"-5"	2"	3"-5"	3"-5"	2"	3"-5"	3"-5"	2"



### Trolley Assembly B



## Trolley Assembly B (parts)

Illustration, Abbildung, Illustration, Illustración, Illustrazione "K"

Index	Number	Qty	·	EN	DE	FR	ES	IT
				Description	Benennung	Designation	Descripción	Descrizione
1	800141	4	4	Retaining Ring	Sicherungsring	Anneau de fixation	Anillo de retencion	Anello di fissaggio
2	526529	4	4	Bearing	Lager	Coussinet	Cojinete	Cuscinetto
3	503406	4	4	Retaining Ring	Sicherungsring	Anneau de fixation	Anillo de retencion	Anello di fissaggio
4	534820	6		Drive Screw	Gewindestift	Vis	Tornillo	Vite
5	C104E	4		Nut	Mutter	Ecrou	Tuerca	Dado
6	W125	4		Washer	Scheibe	Rondelle	Arandela	Rondella
7	W199	56		Washer	Scheibe	Rondelle	Arandela	Rondella
8	539015	1		Side Plate (LH)	Seitliche Platte	Plaque de serrage	Placa lateral	Piastra laterale
9	502953	1		Bracket TA	Klammer	Support	Soports	Staffa
10	539014	1		Side Plate (RH)	Seitliche Platte	Plaque de serrage	Placa lateral	Piastra laterale
11	Table "K"	4		Wheel Assembly	Radbaugruppe	Assemblage de roue	Ensamblaje de rueda	Gruppo mole
12	Table "K"	2		Capacity Plate	Kapazitaetsschild	Plaque signalétique	Placa de capacidad	Piattello capacitivo

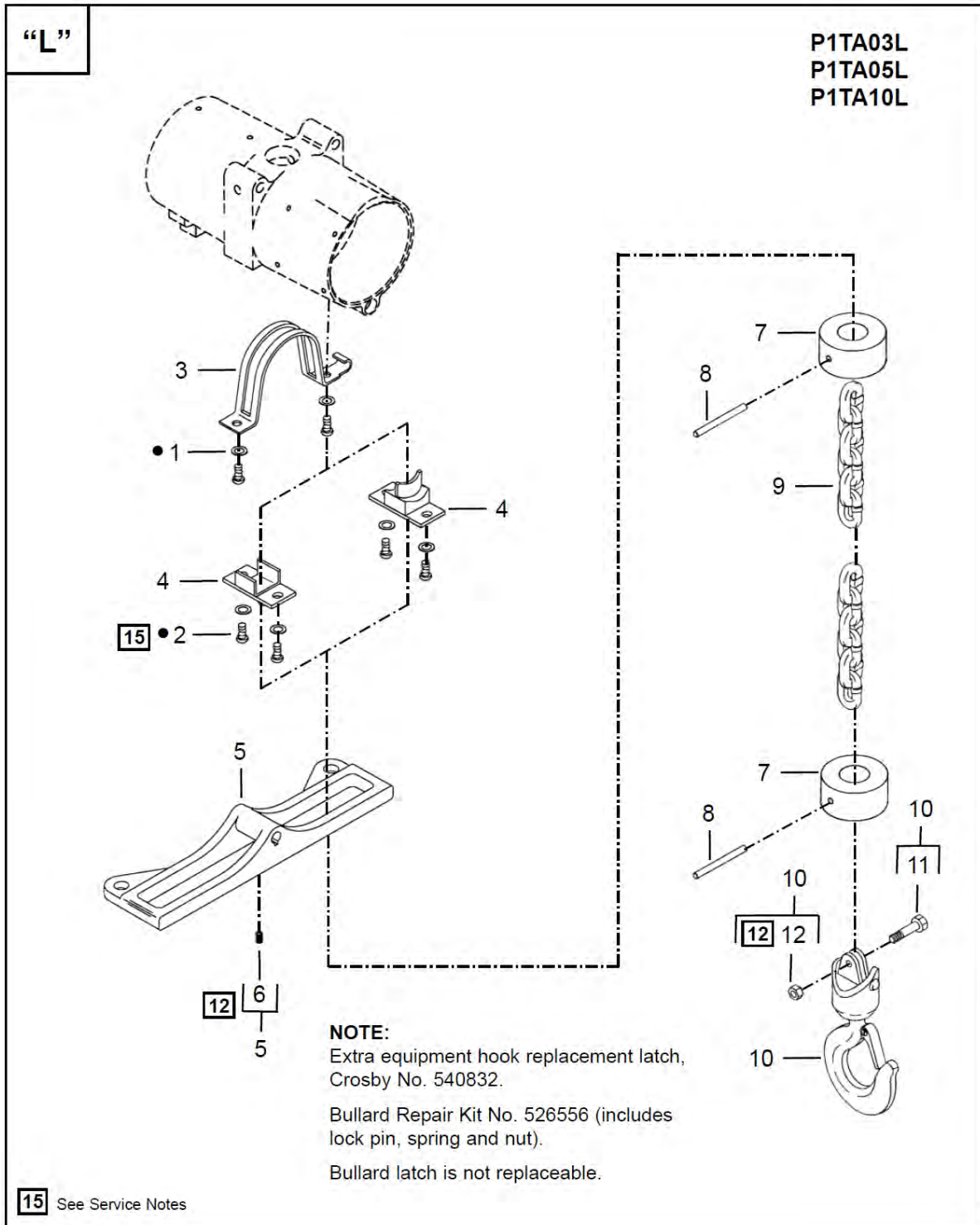
(Qty) Quantity / Stückzahl / Quantité / Cantidad / Quantità

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

### Table, Tabelle, Tableau, Tabla, Tabella "K"

Index	Description	P1TA03			P1TA05			P1TA10		
		Capacity - 300lbs			Capacity - 500lbs			Capacity - 1000lbs		
11	Wheel Assembly	532939	534755	532948	532939	534755	532948	532939	534755	532948
12	Capacity Plate	11446	11446	11446	11056	11056	11056	11055	11055	11055
	Trolley Assembly	541338	541339	541340	541341	541342	541343	541344	541345	541346
	I-Beam Type	Standard	Patented	Patented	Standard	Patented	Patented	Standard	Patented	Patented
	Wheel Type	Tappered	Flat	Narrow (2)	Tappered	Flat	Narrow (2)	Tappered	Flat	Narrow (2)
	Flange Width	2.63"-5"	2.63"-5"	2"	3"-5"	3"-5"	2"	3"-5"	3"-5"	2"

## Chain and Lower Hook Assembly A



## Chain and Lower Hook Assembly A (parts)

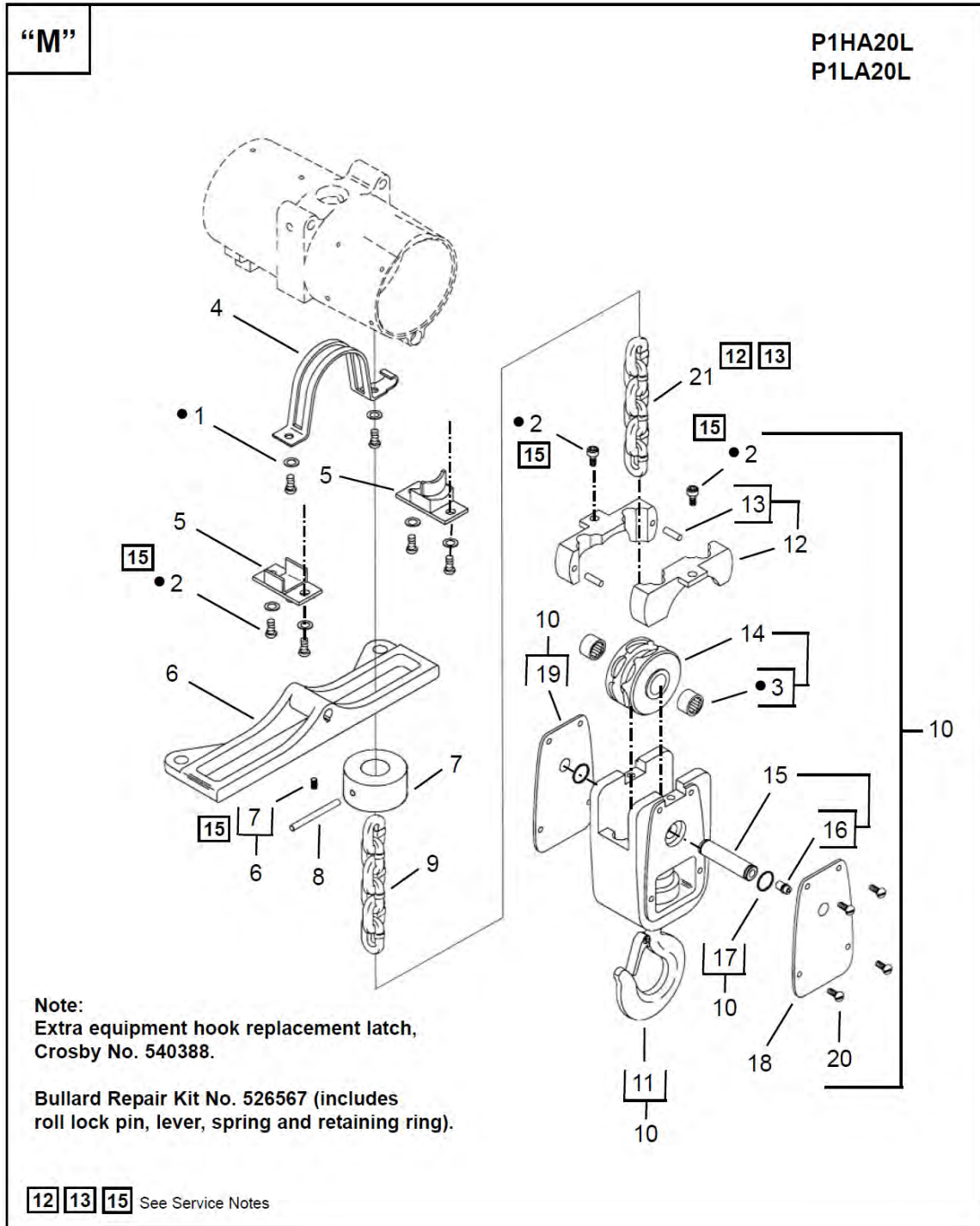
Illustration, Abbildung, Illustration, Ilustración, Illustrazione "L"

Index	Number	Qty	·	EN	DE	FR	ES	IT
				Description	Benennung	Designation	Descripción	Descrizione
1	W150	4	4	Washer	Scheibe	Rondelle	Arandela	Rondella
2	B126N	4	4	Screw	Gewindestift	Vis	Tornilla	Vite
3	206981	1		Chain Guide	Kettenfuehrung	Guide - chaine	Guia de cadena	Guida della catena
4	207001	1		Chain Stripper - Std	Kettenstripper	Outil s denuder des chaines	Separador de cadena	Estrattore catena
	539379	1		Chain Stripper - HD	Kettenstripper	Outil s denuder des chaines	Separador de cadena	Estrattore catena
5	A27946	1		Control Lever	Steuerhebel	Levier de commande	Palanca de control	Leva di comando
6	B134C	1		Screw	Gewindestift	Vis	Tornillo	Vite
7	511759	2		Chain Stop	Kettenstopp	Arret de chaine	Flador de cadena	Fermo catena
8	E104H	2		Pin	Stift	Goujon	Pasador	Spina
9	20676	1		Chain - Std (11ft)	Kette	Chaine	Cadena	Catena
	31445	1		Chain - Zinc(11ft)	Kette	Chaine	Cadena	Catena
10	A20705S	1		Lower Hook	Lower Haken	Crochet inferieur	Gancho inferior	Gancio inferiore
11	20706	1		Screw	Gewindestift	Vis	Tornillo	Vite
12	C105J	1		Nut	Mutter	Ecrou	Tuerca	Dado

(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 and Lower Hook Assembly B



## Chain and Lower Hook Assembly B (parts)

Illustration, Abbildung, Illustration, Ilustración, Illustrazione "M"

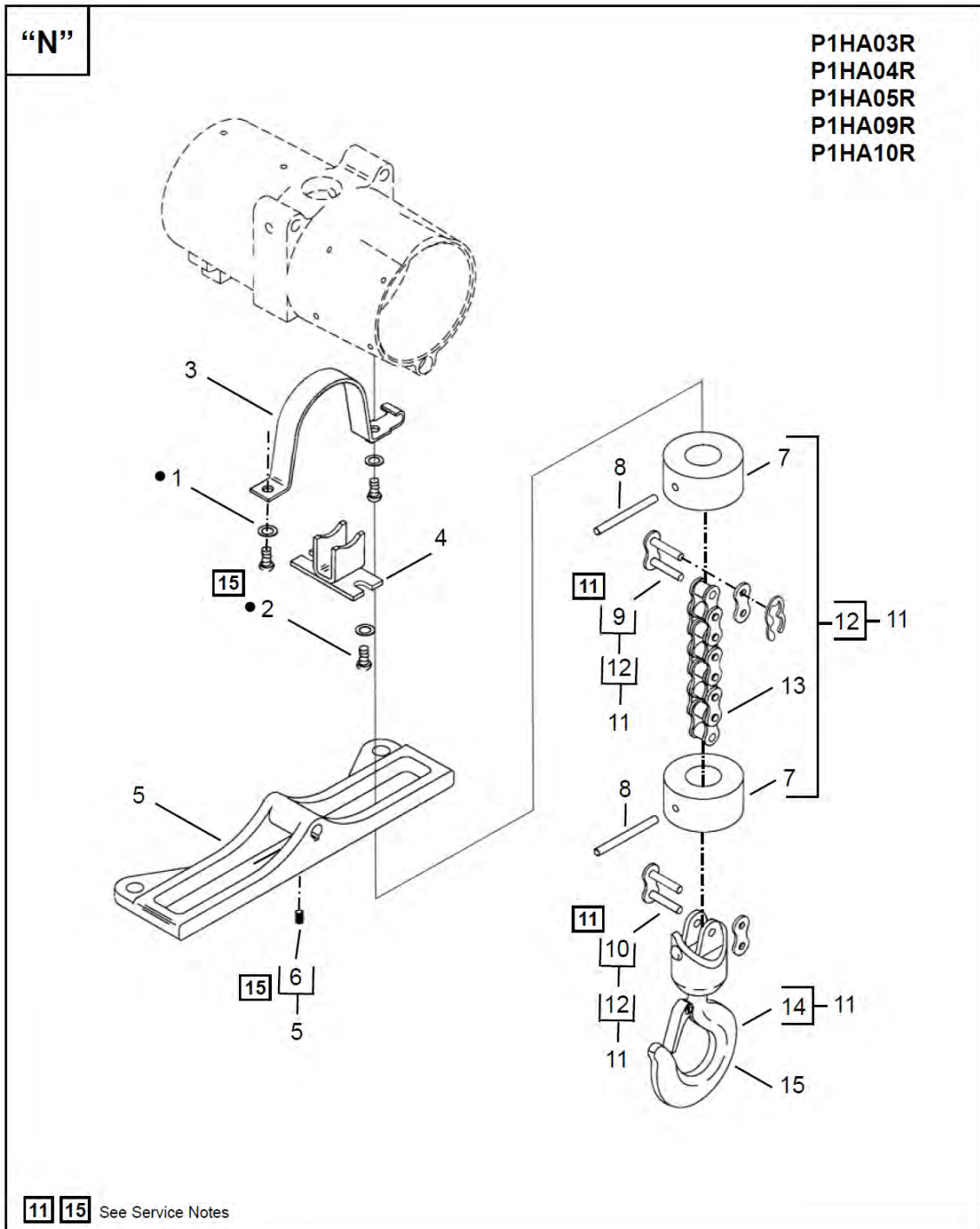
Index	Number	#	·	EN	DE	FR	ES	IT
				Description	Benennung	Designation	Descripción	Descrizione
1	W150	4	4	Washer	Scheibe	Rondelle	Arandela	Rondella
2	B126N	6	6	Screw	Gewindestift	Vis	Tornilla	Vite
3	800161	2	2	Bearing	Lager	Coussinet	Cojinete	Cuscinetto
4	206981	1		Chain Guide	Kettenfuehrung	Guide - chaine	Guia de cadena	Guida della catena
5	207001	1		Chain Stripper - Std	Kettenstripper	Outil s denuder des chaines	Separador de cadena	Estrattore catena
	539379	1		Chain Stripper - HD	Kettenstripper	Outil s denuder des chaines	Separador de cadena	Estrattore catena
6	A27946	1		Control Lever	Steuerhebel	Levier de commande	Palanca de control	Leva di comando
7	B134C	1		Screw	Gewindestift	Vis	Tornillo	Vite
8	511759	1		Chain Stop	Kettenstopp	Arret de chaine	Flador de cadena	Fermo catena
9	E104H	1		Pin	Stift	Goujon	Pasador	Spina
10	AA27103	1		Lower Hook Assembly	Montage	Assemblage	Ensamblaje	Assemblaggio
11	A26061	1		Lower Hook	Unterer Haken	Crochet inferieur	Gancho inferior	Gancio inferiore
12	521433	2		Chain Guide	Kettenfuehrung	Guide - chaine	Guia de cadena	Guida della catena
13	E103K	2		Pin	Stift	Goujon	Pasador	Spina
14	A27104	1		Sprocket	Speichen	Dent de pignon	Rueda dentada	Dente di dentature per catena
15	A25999	1		Shaft	Achse	Arbe	Eje	Abero
16	23238	1		Grease Fitting	Aschmiernippel	Monture de graisse	Accesorio de grasa	Ingrassatore
17	1007964	2		Retaining Ring	Sicherungsring	Anneau de fixation	Anillo de retencion	Anello di fissaggio
18	27105	1		Name Plate - 2000 lbs	Namensschild	Plaque	Placa de identification	Targa
19	521498	1		Caution Plate	Achtungsschild	Plaque d' avertissement	Placa de instrucciones	Piastra di protezione
20	B125B	8		Screw	Gewindestift	Vis	Tornillo	Vite
21	20676	1		Chain - Std (25 ft)	Kette	Chaîne	Cadena	Catena
	31445	1		Chain - Zinc (22 ft)	Kette	Chaîne	Cadena	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



## Chain and Lower Hook Assembly C



## Chain and Lower Hook Assembly C (parts)

Illustration, Abbildung, Illustration, Ilustración, Illustrazione "N"

Index	Number	Qty	·	EN	DE	FR	ES	IT
				Description	Benennung	Designation	Descripción	Descrizione
1	W150	4	4	Washer	Scheibe	Rondelle	Arandela	Rondella
2	B126N	4	4	Screw	Gewindestift	Vis	Tornillo	Vite
3	27002	1		Chain Guide	Kettenfuehrung	Guide-chaîne	Guia de cadena	Guida della catena
4	534929	1		Chain Stripper	Kettenstripper	Outil a denuder des chaines	Separador de cadena	Estrattore catena
5	A27946	1		Control Lever	Steuerhebel	Levier de commande	Palanca de control	Leva di comando
6	B134C	1		Screw	Gewindestift	Vis	Tornillo	Vite
7	511759	2		Chain Stop	Kettenstopp	Arret de chaîne	Flador de cadena	Fermo catena
8	E104H	2		Pin	Stift	Goujon	Pasador	Spina

(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

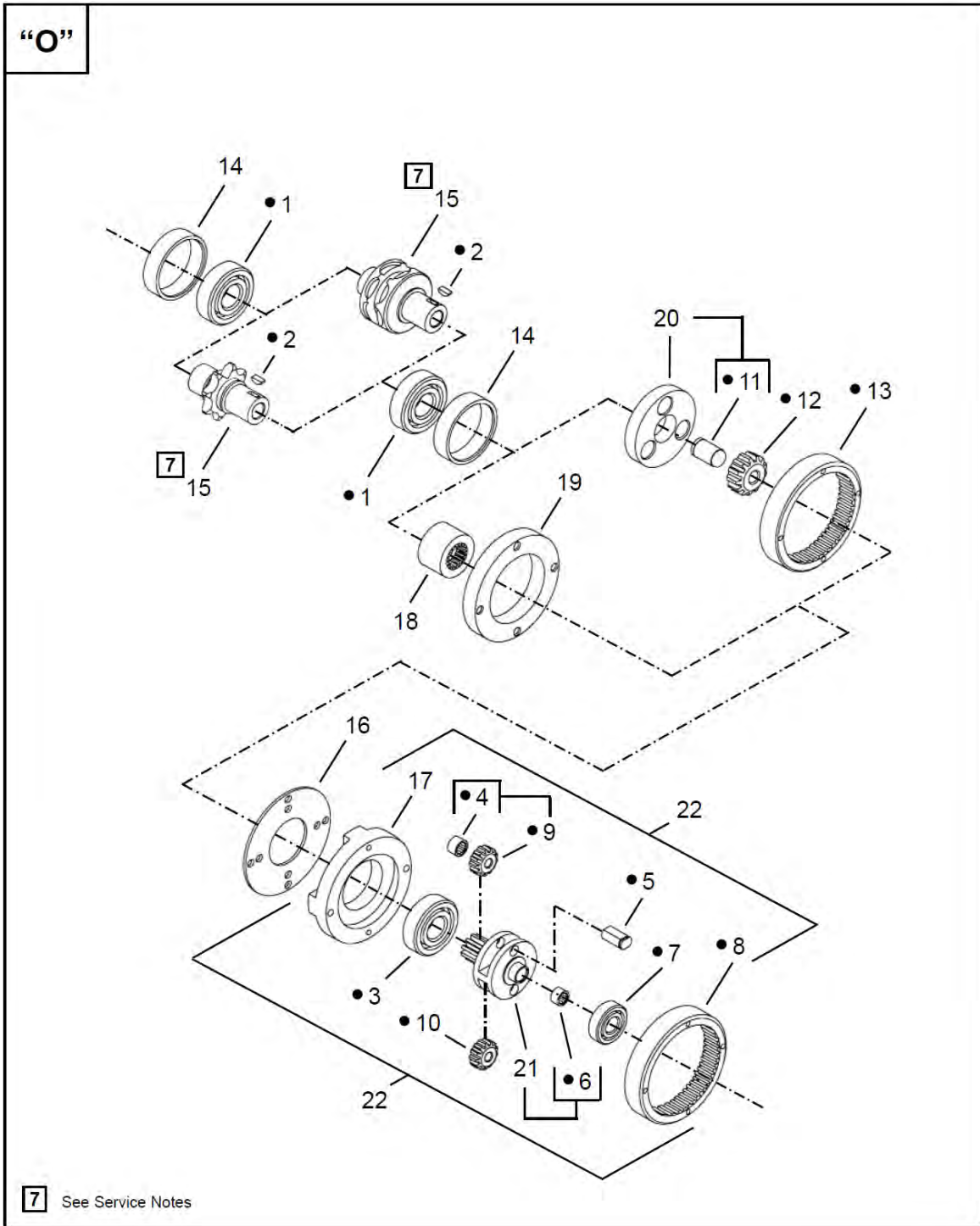
Table, Tabelle, Tableau, Tabla, Tabella "N"

Index	Description	P1HA03, P1HA05, P1HA10			P1HA04, P1HA09	
		A16072	A16072	A16072	510276	510276
9	Master Link	A16072	A16072	A16072	510276	510276
10	Connecting Link	17492	17492	17492	17267	17267
11	Lower Hook Assembly (10ft. lift)	AA1035611	AA1035611	AA1035611	N/A	N/A
12	Chain Kit (10 ft. lift)	A1035611	A1035611	A1035611	N/A	N/A
13	Chain (* = SR)	10356	10356	10356	17265 *	17265 *
14	Lower Hook (* = SR)	A10781S	A10781S	A10781S	A17247S *	A17247S *
15	Lower Hook Bullard (* = SR)	A29935	A29935	A29935	A29933 *	A29933 *

(\* = SR) - Spark Resistant



## Link Chain Gearing Assembly



## Link Chain Gearing Assembly (parts)

Illustration, Abbildung, Illustration, Ilustración, Illustrazione "O"

Index	Number	Qty	·	EN	DE	FR	ES	IT
				Description	Benennung	Designation	Descripción	Descrizione
1	Table "O"	2	2	Bearing	Lager	Coussinet	Cojninete	Cuscinetto
2	16384	1	1	Key	Schlüssel	Cle	Llave	Chiave
3	10339	1	1	Bearing	Lager	Coussinet	Cojninete	Cuscinetto
4	10358	2	2	Bearing	Lager	Coussinet	Cojninete	Cuscinetto
5	25933	2	2	Pin	Stift	Goujon	Pasador	Spina
6	800172	1	1	Bearing	Lager	Coussinet	Cojninete	Cuscinetto
7	1008262	1	1	Bearing	Lager	Coussinet	Cojninete	Cuscinetto
8	10327	1	1	Ring Gear	Zahnkreis	Couronne dentee	Engranaaje de anillos	Guarnizione ingranaggio
9	Table "O"	2	2	Idler Gear	Zwischenzahnrad	Engrenage secondaire	Engranaje secundario	Ingranaggio intermeio
10	21165	1	1	Pinion Gear	Ritzelgetriebe	Pignon d'entrainement	Pinon diferencial	Ingranaggio a pignone
11	Table "O"	3	3	Pin	Stift	Goujon	Pasador	Spina
12	Table "O"	3	3	Idler Gear	Zwischenzahnrad	Engrenage secondaire	Engranaje secundario	Ingranaggio intermeio
13	Table "O"	1	1	Ring Gear	Zahnkreis	Couronne dentee	Engranaje de anillos	Guarnizione ingranaggio
14	Table "O"	2		Spacer	Distanzstück	Entretoise	Espaciador	Distanziale
15	Table "O"	1		Sprocket	Speichen	Dent de pignon	Rudea dentada	Dente di dentatura per catena
16	Table "O"	1		Washer	Scheibe	Rondelle	Arandela	Rondella
17	Table "O"	1		Spacer	Distanzstück	Entretoise	Espaciador	Distanziale
18	Table "O"	1		Adapter	Zwischenstück	Adaptateur	Adaptador	Adattatore
19	Table "O"	1		Spacer	Distanzstück	Entretoise	Espaciador	Distanziale
20	Table "O"	1		Idler Plate	Zwischenplatte	Plaque de roue intermédiaire	Placa intermedia	Piastra intermedia
21	Table "O"	1		Pinion Cage	Ritzelkaefig	Cage a pignon	Caja de pinones	Gabbia pignone
22	Table "O"	1		Pinion Cage Assembly	Ritzelkaefigzusammenbau	Assemblage de cage a pignon	Ensamblés de la caga de pinones	Gruppo gabbia pignone

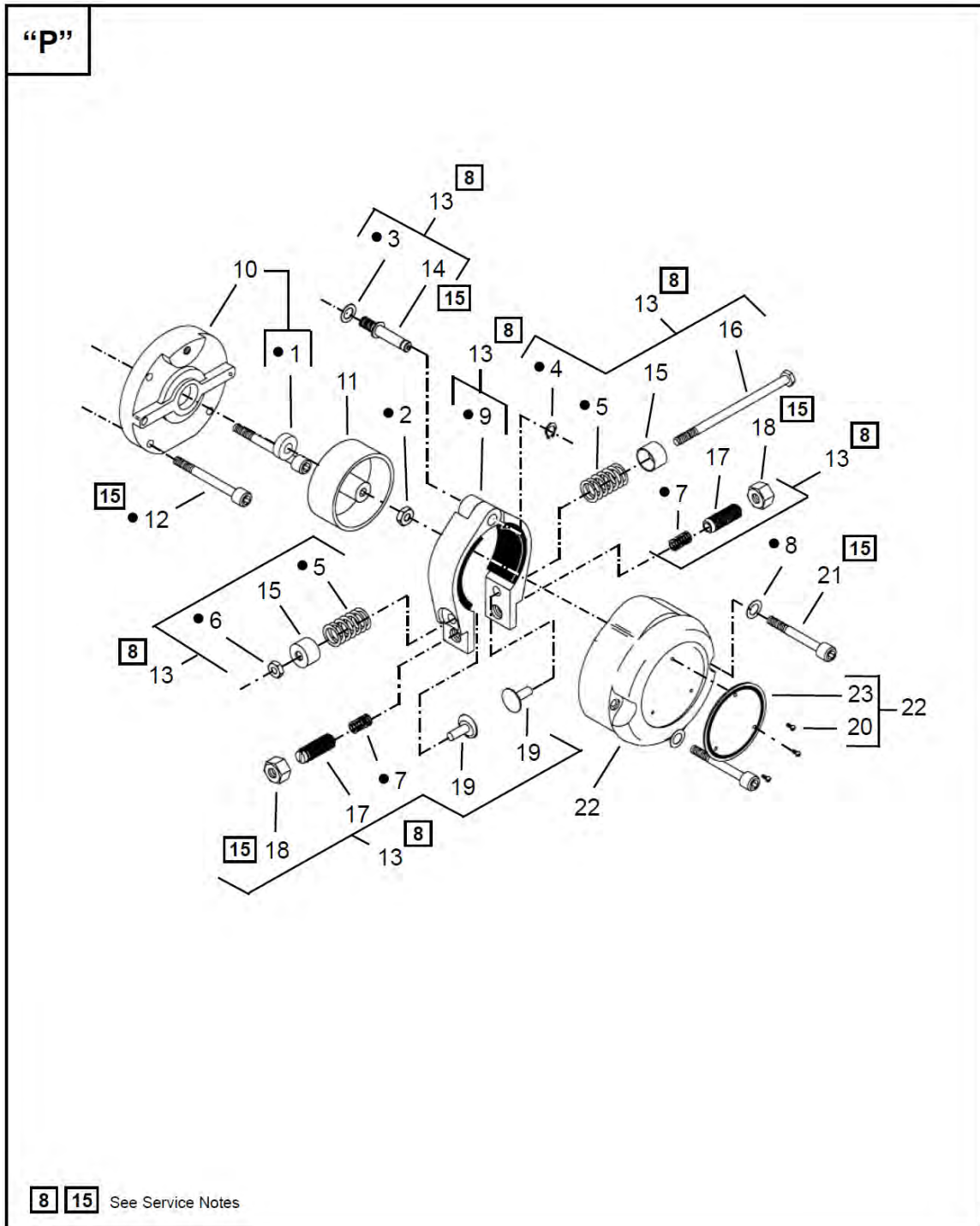
(Qty) Quantity / Stückzahl / Quantité / Cantidad / Quantità

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

Table, Tabelle, Tableau, Tabla, Tabella "O"

Index	Description	Qty	P1( )03L	Qty	P1( )03R	Qty	P1( )05L	Qty	P1( )04R P1( )05R	Qty	P1( )10L P1( )20L	Qty	P1( )09R P1( )10R
	Chain Type		Link		Roller		Link		Roller		Link		Roller
1	Bearing	1	20720	1	526529	1	20720	1	526529	1	20720	1	526529
9	Idler Gear	2	A25934	2	A25934	2	A27726	2	A27726	2	A25934	2	A25934
11	Pin		--		--	1	511700	1	511700	1	511700	1	511700
12	Idler Gear		--		--	1	10326	1	10326	1	10326	1	10326
13	Ring Gear		--		--	1	10325	1	10325	1	10325	1	10325
14	Spacer	2	20692	2	27000	2	20692	2	27000	2	20692	2	27000
15	Sprocket	1	A18955	1	A15463	1	A18955	1	A15463	1	A18955	1	A15463
16	Washer		--		--		--		--	1	10337	1	10337
17	Spacer		--		--		--		--	1	10338	1	10338
18	Adapter	1	11432	1	11432		--		--		--		--
19	Spacer	1	511741	1	511741		--		--		--		--
20	Idler Plate		--		--	1	A103341	1	A103341	1	A103341	1	A103341
21	Pinion Cage	1	AA10332	1	AA10332	1	A20646	1	A20646	1	AA10332	1	AA10332
22	Pinion Cage Asm.	1	AA103321	1	AA103321	1	AA211651	1	AA211651	1	AA10321	1	AAA103321

## Brake Assembly



## Brake Assembly (parts)

Illustration, Abbildung, Illustration, Ilustración, Illustrazione "P"

Index	Number	Qty	·	EN	DE	FR	ES	IT
				Description	Benennung	Designation	Descripción	Descrizione
1	10373	1	1	Seal	Dichtung	Sceau	Sello	Guarnizione
2	C107Z	1	1	Nut	Mutter	Ecrou	Tuerca	Dado
3	W141	1	1	Washer	Scheibe	Rondelle	Arandela	Rondella
4	800143	1	1	Retaining Ring	Sicherungsring	Anneau de fixation	Anillo de retencion	Anello di fissaggio
5	19112	2	2	Spring	Druckfeder	Ressort	Resorte	Molla
6	C101E	1	1	Nut	Mutter	Ecrou	Tuerca	Dado
7	26824	2	2	Spring	Druckfeder	Ressort	Resorte	Molla
8	W114	2	1	Washer	Scheibe	Rondelle	Arandela	Rondella
9	536155	1	1	Brake Shoe	Bremsbacke	Machoire de frein	Zapata de freno	Ganasica
10	A10345	1		Clamping Plate	Klemmplatte	Plaque de serrage	Placa de sujecion	Piastra di bloccaggio
11	26099	1		Brake Wheel	Bremsrad	Volant de frein a main	Rueda de freno	Volantino del freno
12	B114T	4		Screw	Gewindestift	Vis	Tornillo	Vite
13	536290	1		Brake Assembly	Bremsenbaugruppe	Ensemble de freinage	Ensamblaje de freno	Gruppo freno
14	23159	1		Pivot Stud	Zapfenbolzen	Goujon de pivot	Esparrago giratorio	Perno sporgente
15	19113	2		Cup Washer	Scheibe	Rondelle de cuvette	Arandela acopada	Rondelle concava
16	B155A	1		Screw	Gewindestift	Vis	Tornillo	Vite
17	19114	2		Adjusting Screw	Einstellschraube	Vis de reglage	Tornillo de ajuste	Vite di regolazione
18	C103D	2		Nut	Mutter	Ecrou	Tuerca	Dado
19	19111	2		Plunger	Plunger	Plongeur	Bomba de embolo	Pistone
20	534820	3		Screw	Gewindestift	Vis	Tornillo	Vite
21	B123U	2		Screw	Gewindestift	Vis	Tornillo	Vite
22	Table "P"	1		Brake Cover	Abdeckung der Bremse	Couvercle de frein	Cubierta de freno	Calotta del freno
23	Table "P"	1		Capacity Plate	Kapazitaetsschild	Plaque signalétique	Placa de capacidad	Piattello capacitivo

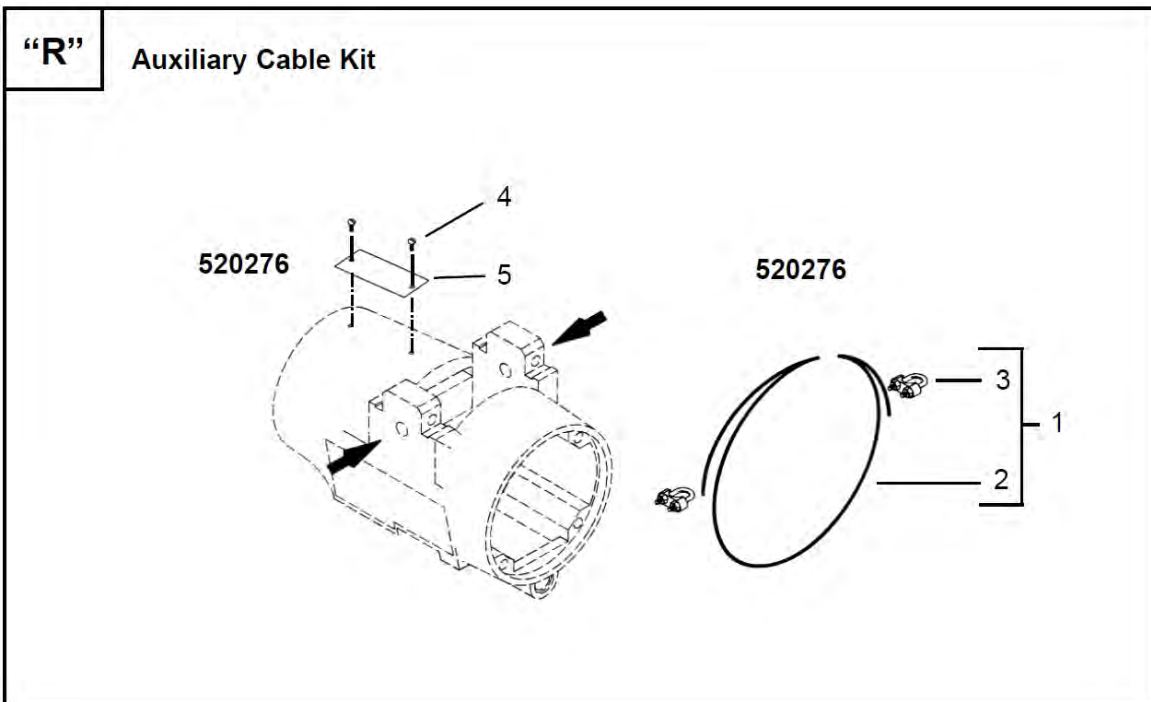
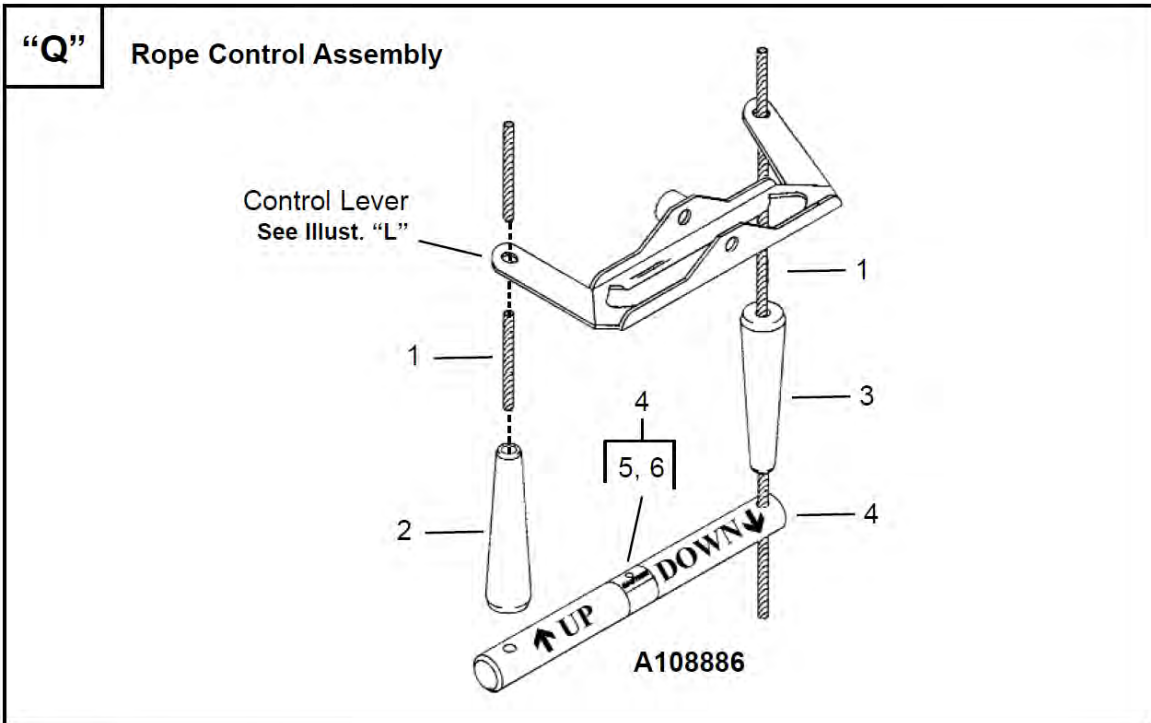
(Qty) Quantity / Stückzahl / Quantité / Cantidad / Quantità

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

Table, Tabelle, Tableau, Tabla, Tabella "P"

Index	Description	Qty	P1( )03L	Qty	P1( )03R	Qty	P1( )05L	Qty	P1( )04R P1( )05R	Qty	P1( )10L	Qty	P1( )09R P1( )10R	Qty	P1( )20L
	Chain Type		Link		Roller		Link		Roller		Link		Roller		Link
22	Brake Cover	1	514627	1	514627	1	514628	1	514628	1	514629	1	514629	1	514630
23	Capacity Plate	1	11446	1	11446	1	11056	1	11056	1	11055	1	11055	1	11880

## Rope and Auxiliary Cable Controls





## Rope and Auxiliary Cable Controls (parts)

### Illustration, Abbildung, Illustration, Ilustración, Illustrazione "Q"

Index	Number	Qty	.	EN	DE	FR	ES	IT
				Description	Benennung	Designation	Descripción	Descrizione
1	10888	2		Rope (6ft)	Zeil (1,8m)	Cordage (1,8m)	Cuerda (1,8m)	Corda (1,8m)
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

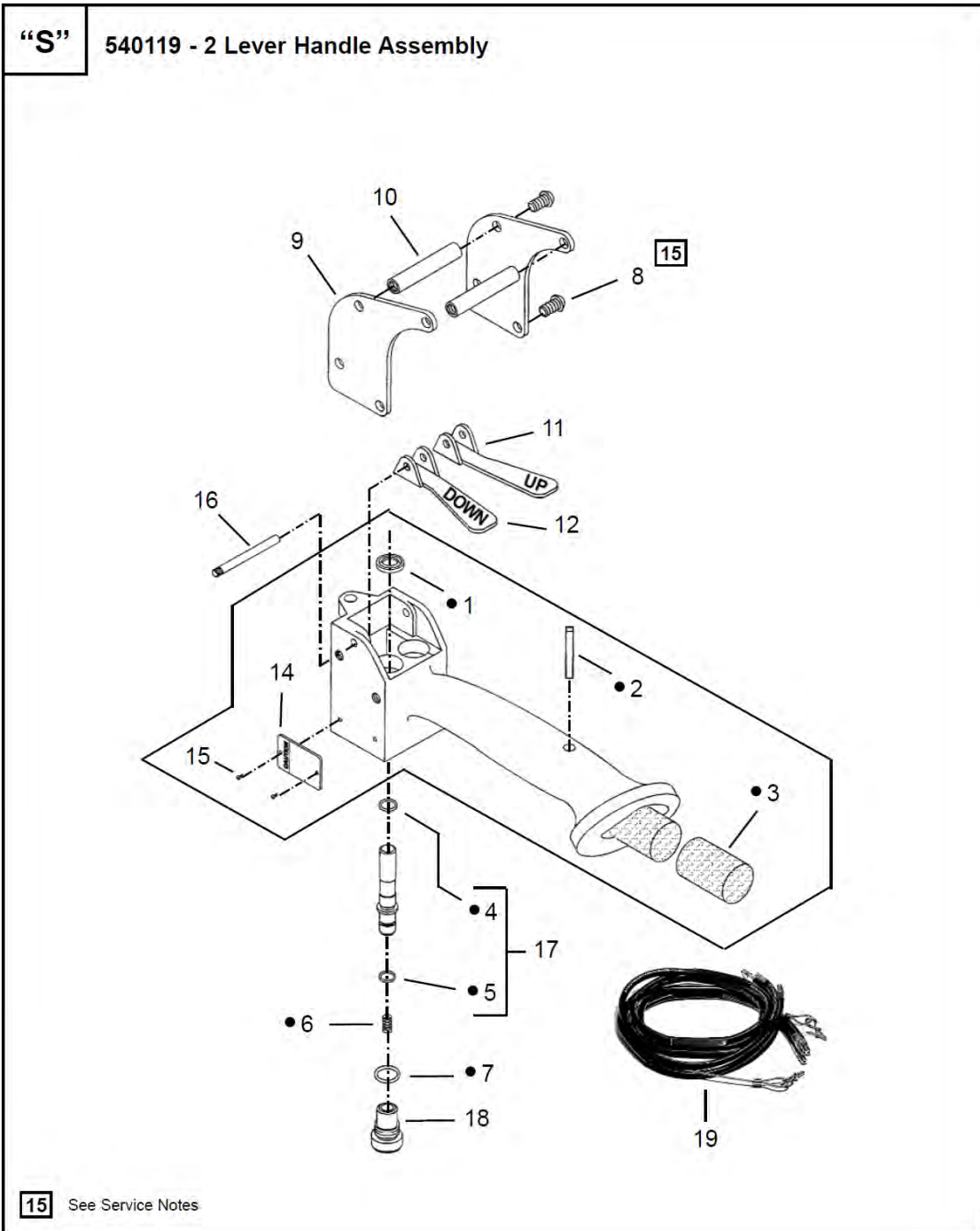
### Illustration, Abbildung, Illustration, Ilustración, Illustrazione "R"

Index	Number	Qty	.	EN	DE	FR	ES	IT
				Description	Benennung	Designation	Descripción	Descrizione
1	A19790	1		Auxillary Cable	Kabel	Cable	Cable	Cavo
2	19790	1		Cable (4ft)	Kabel (1,2m)	Cable (1,2m)	Cable (1,2m)	Cavo (1,2m)
3	19788	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

(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 Assembly



## Pendent Control Assembly (parts)

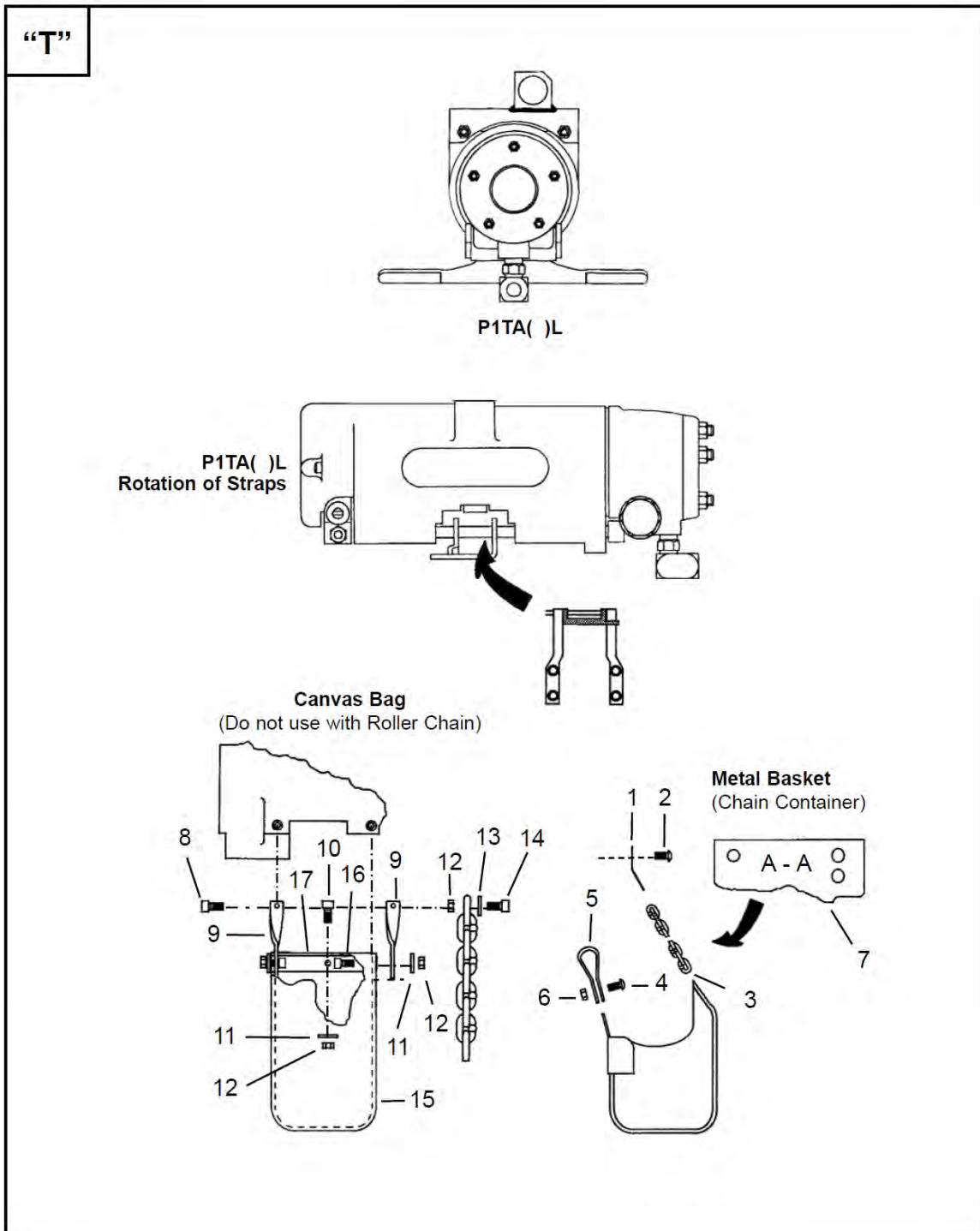
Illustration, Abbildung, Illustration, Ilustración, Illustrazione "S"

Index	Number	Qty	·	EN	DE	FR	ES	IT
				Description	Benennung	Designation	Descripción	Descrizione
1	539714	2	4	Seal	Dichtung	Sceau	Sello	Guarnizione
2	RP103G	1	2	Pin	Stift	Goujon	Pasador	Spina
3	531753	2	4	Muffler	Auspufftopf	Silencieux	Silenciador	Silenziatore
4	504970	2	4	O-Ring	O-Ring	Anneau "O"	Anillo "O"	O-Ring
5	1008127	2	4	O-Ring	O-Ring	Anneau "O"	Anillo "O"	O-Ring
6	511608	2	4	Spring	Druckfeder	Ressort	Resorte	Molla
7	60351	2	4	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)
	526164	1		Hose (20 ft.)	Schlauch (6,1 M)	Tuyau (6,1 M)	Manguera (6,1 M)	Tubo (6,1 M)
	529384	1		Hose (25 ft.)	Schlauch (7,6 M)	Tuyau (7,6 M)	Manguera (7,6 M)	Tubo (7,6 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, Abbildung, Illustration, Ilustración, Illustrazione "T"

Index	Number	Qty	·	EN	DE	FR	ES	IT
				Description	Benennung	Designation	Descripción	Descrizione
1	11144	1		Clip	Klipp	Agrafe	Presilla	Graffa
2	B128X	1		Screw	Schraube	Vis	Tornillo	Vite
3	510623	1		Chain				
4	B117E	4		Screw	Schraube	Vis	Tornillo	Vite
5	29789	4		Strap	Riemen	Courroie	Banda	Cinghia
6	C104O	4		Nut	Mutter	Ecrou	Tuerca	Dado
7	Table "T"	1		Chain Container	Kettenbehälter	Nacelle à chaînes	Contenedor de cadena	Contentitore catena
8	B101K	1		Screw	Schraube	Vis	Tornillo	Vite
9	524639	2		Bracket	Klammer	Support	Soporte	Staffa
10	B115N	4		Screw	Schraube	Vis	Tornillo	Vite
11	W150	8		Washer	Scheibe	Rondelle	Arandela	Rondella
12	C105G	9		Nut	Mutter	Ecrou	Tuerca	Dado
13	W193	1		Washer	Scheibe	Rondelle	Arandela	Rondella
14	B109M	1		Screw	Schraube	Vis	Tornillo	Vite
15	Table "T"	1		Canvas Bag	Segeltuchbeutel	Sac de toile	Bolso de la lona	Sacchetto della tela di canapa
16	B128Q	4	8	Screw	Schraube	Vis	Tornillo	Vite
17	527279	1		Bracket	Klammer	Support	Soporte	Staffa

(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, Tabelle, Tableau, Tabla, Tabella "T"

Link Chain Models:

Index	Description	Lift	P1( )03L P1( )05L P1( )10L	Lift	P1( )20L
7	Chain Container	12(3,7M)	A25190	--	--
	Chain Container	15(4,6M)	533520	--	--
	Chain Container	30(9,1M)	533521	15(4,6M)	533521
	Chain Container *	30(9,1M)	539415	15(4,6M)	539415
	Chain Container	50(15,2M)	533523	25(7,6M)	533523
	Chain Container *	60(18,3M)	539416	30(9,1M)	539416
15	Chain Container	70(21,3M)	533525	35(10,7M)	533525
	Canvas Bag	25(7,6M)	539414	30(9,1M)	539414
	Canvas Bag	40(12,2M)	527278	12(3,7M)	527278

\* Note: Canvas Bag / Segeltuchbeutel / Sac de toile / Bolso de la lona / Sacchetto della tela di canapa

Roller Chain Models

Index	Description	Lift	P1( )03L P1( )05L P1( )10L	Lift	P1( )20L
7	Chain Container	15(4,6M)	533664	--	--
	Chain Container	25(7,6M)	533665	12(3,7M)	533665
	Chain Container	40(12,2M)	533666	20(6,1M)	533666
	Chain Container	55(16,8M)	533667	27(8,2M)	533667
	Chain Container *	10(3,0M)	A299101	--	--
	Chain Container *	15(4,6M)	A299102	--	--
	Chain Container *	20(6,1M)	A299103	--	--

\* Note: Spark Resistant / Zünden sie widerstandsfähig / Allumer résistant / Chispes resistente / Accendere resistente



## Service Notes 1-7

**1 Illustrations "A" & "B"**

Delete  
Entfernen  
Supprimer  
Borrar  
Cancellato

Add  
Fügen Sie hinzu  
Ajoutez  
Agregue  
Aggiunga

**4 Illustrations "C"**

**2 Illustrations "A"**

T28308

3/8" Dia.  
(9,5mm)

5.0"  
(127mm)

0.876" ± 0.002"  
(22,25mm ± 0,127mm)

7/32" Dowel Pin (2)  
5,6mm Spannstift (2)  
5,6mm Goujon (2)  
5,6mm Clavija (2)  
5,6mm Spina (2)

3.0"  
(76,2mm)

1.171"  
±0.005"  
(29,7mm ±0,127mm)

3/8" Dia.  
(9,5mm)

EN: Special tool to remove Valve Guide.  
DE: Spezialwerkzeug, zum des Ventil-Führers zu entfernen.  
FR: Outil spécial pour enlever le guide de valve.  
ES: Herramienta especial para quitar la guía de la válvula.  
IT: Utensile speciale per rimuovere la guida della valvola.

**5 Illustrations "C"**

EN: Timing Marks  
DE: Einstellmarken  
FR: Marques de synchronisation  
ES: Marcas de sincronización  
IT: Marcature della distribuzione

**6 Illustrations "C"**

EN: Small diameters must be assembled as shown.  
DE: Kleine Durchmesser müssen zusammengebaut werden, wie gezeigt worden.  
FR: De petits diamètres doivent être assemblés comme montrés.  
ES: Los diámetros pequeños se deben montar según lo demostrado.  
IT: I piccoli diametri devono essere montati come indicati.

**3 Illustrations "B"**

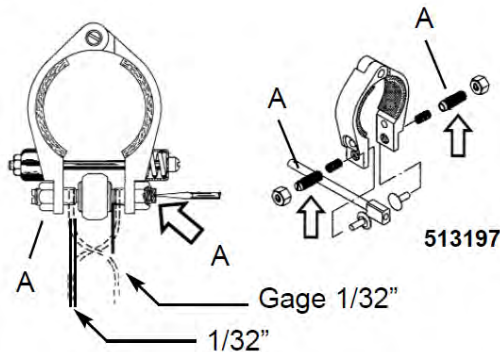
**7 Illustrations "O"**

EN: Weld  
DE: Schweißung  
FR: Soudure  
ES: Autógena  
IT: Saldatura



## Service Notes 8-11

### 8 Illustrations "P"



**EN:** Turn adjusting screws (A) in until 1/32" clearance is obtained between adjusting screws and the plungers. As brakes wear, it should be readjusted. Tighten adjusting screws equally.

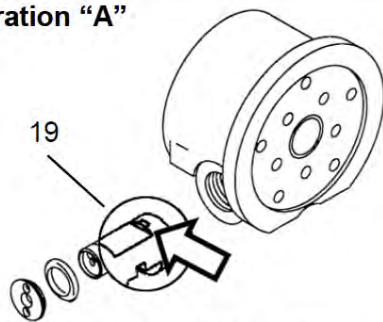
**DE:** Drehen Sie Justierschrauben (a) innen, bis Abstand 1/32" zwischen Justierschrauben und den Spulenkernen erreicht ist. Während Bremsen tragen, sollte er nachreguliert werden. Ziehen Sie Justierschrauben gleichmäßig fest.

**FR:** Tournez les vis de réglage (a) dedans jusqu'à ce que le dégagement 1/32" soit obtenu entre les vis de réglage et les plongeurs. Pendant que les freins portent, il devrait être rajusté. Serrez les vis de réglage également.

**ES:** Dé vuelta a los tornillos de reglaje (a) adentro hasta que la separación 1/32" se obtiene entre los tornillos de reglaje y los émbolos. Mientras que los frenos usan, debe ser reajustada. Apriete los tornillos de reglaje igualmente.

**IT:** Giri le viti di registrazione (A) dentro fino ad ottenere lo spazio 1/32" fra le viti di registrazione ed i nuclei mobili. Mentre i freni portano, dovrebbe essere riadattato. Stringa ugualmente le viti di registrazione.

### 9 Illustration "A"



**EN:** Assemble reversing valve with small notch as shown.

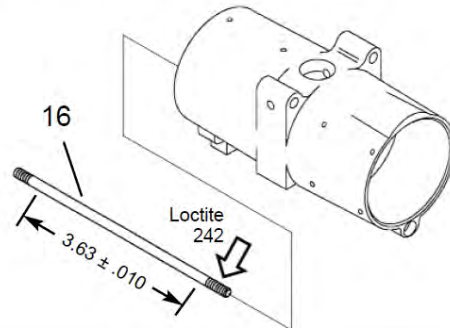
**DE:** Bauen Sie das Aufheben des Ventils mit kleiner Kerbe zusammen, wie gezeigt.

**FR:** Assemblez renverser la valve avec la petite entaille comme montrée.

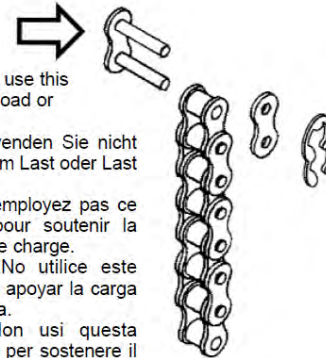
**ES:** Monte invertir la válvula con la muesca pequeña según lo demostrado.

**IT:** Monti invertire la valvola con la piccola tacca come indicata.

### 10 Illustration "C", "D", "E", "F", "G", "H", "I"



### 11 Illustration "N"



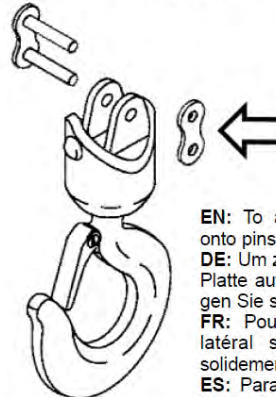
**EN:** CAUTION: Do not use this master link to support load or load hook.

**DE:** VORSICHT: Verwenden Sie nicht dieses Kettenschloß, um Last oder Last Haken zu stützen.

**FR:** ATTENTION : N'employez pas ce maillon de jonction pour soutenir la charge ou le crochet de charge.

**ES:** PRECAUCIÓN: No utilice este eslabón de unión para apoyar la carga o el gancho de la carga.

**IT:** ATTENZIONE: Non usi questa maglia di connessione per sostenere il carico o il gancio del carico.



**EN:** To assemble, press side plate onto pins, rivet securely.

**DE:** Um zusammenzubauen, seitliche Platte auf Stifte zu betätigen, befestigen Sie sicher.

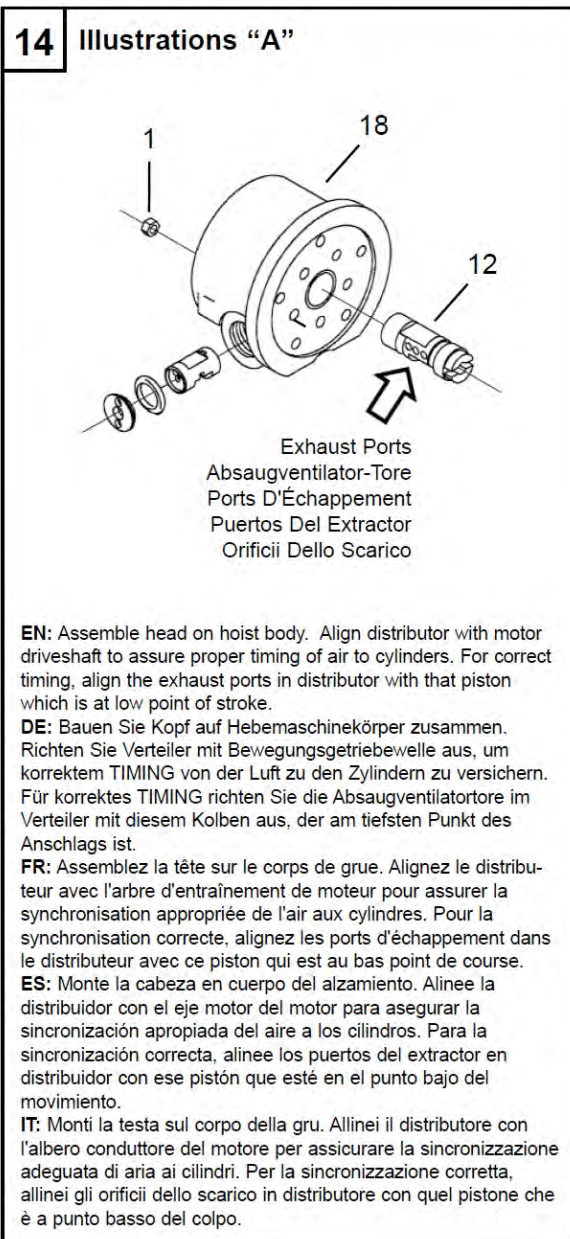
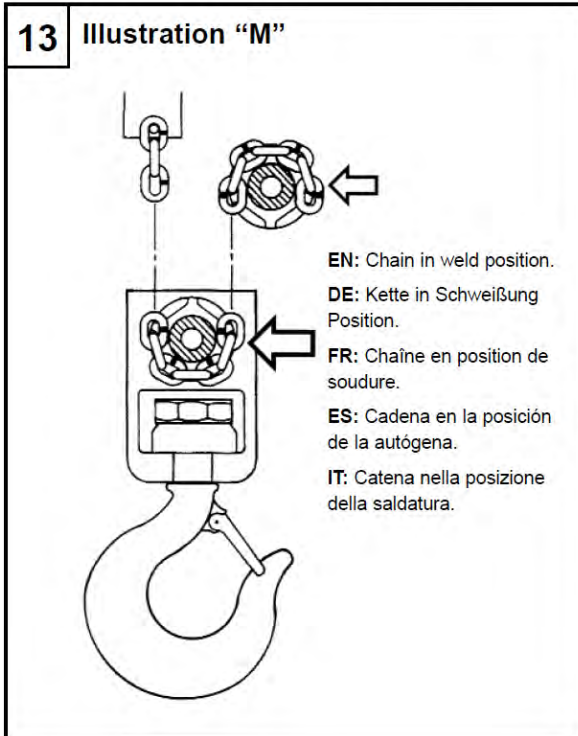
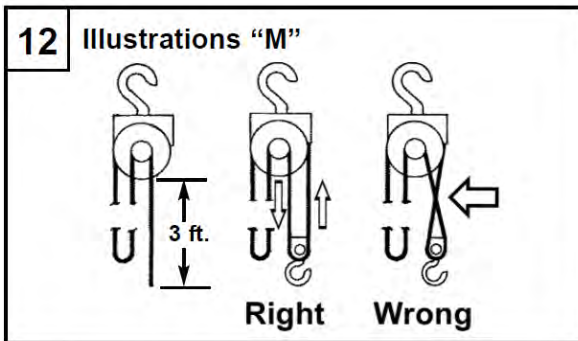
**FR:** Pour se réunir, serrer le plat latéral sur des goupilles, rivetez solidement.

**ES:** Para montar, presionar la placa lateral sobre los pernos, clave con seguridad.

**IT:** Per montare, premere la piastra laterale sui perni, rivetti saldamente.



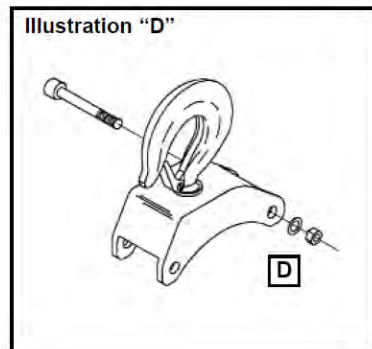
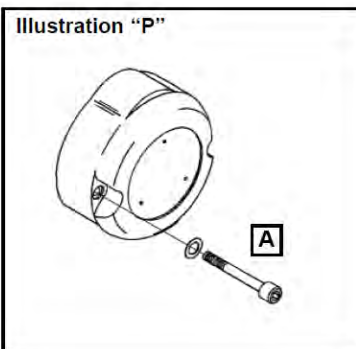
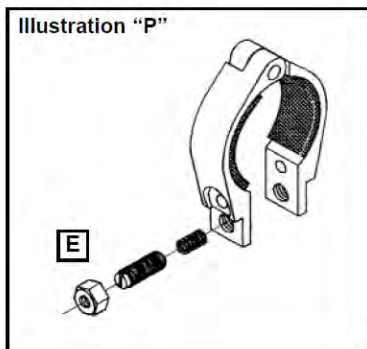
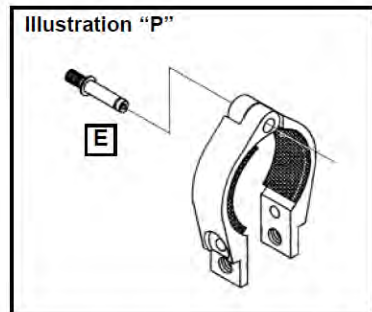
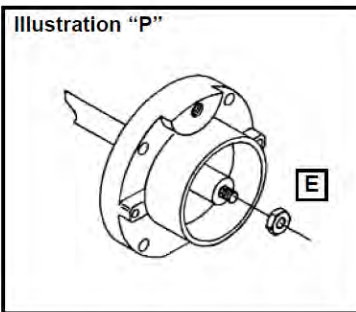
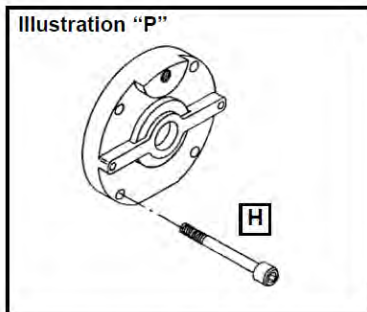
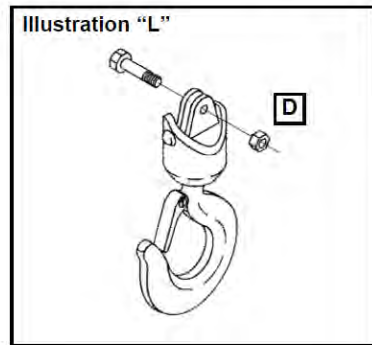
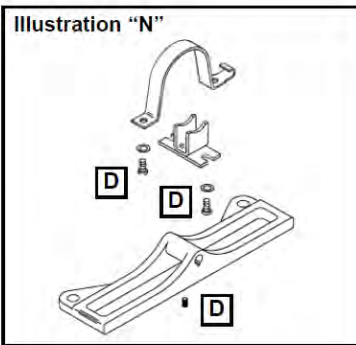
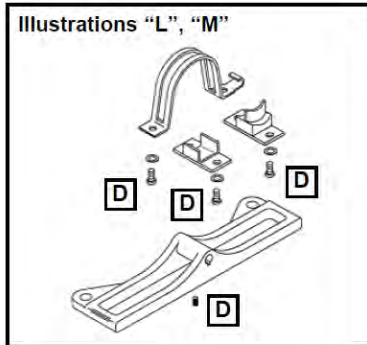
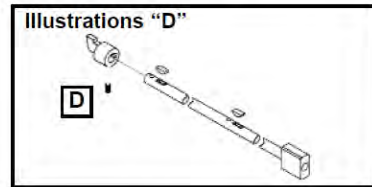
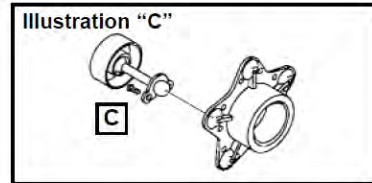
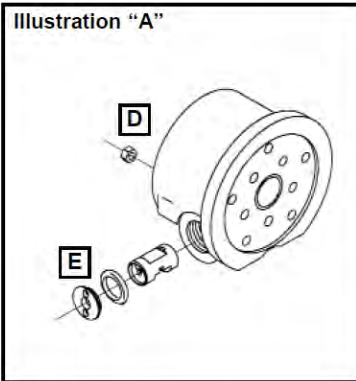
## Service Notes 12-14



## Service Notes 15

15

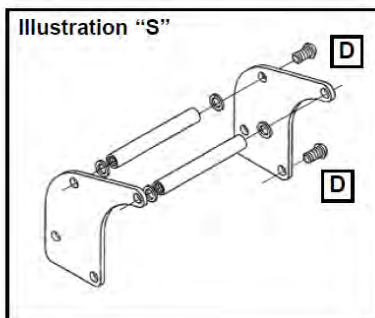
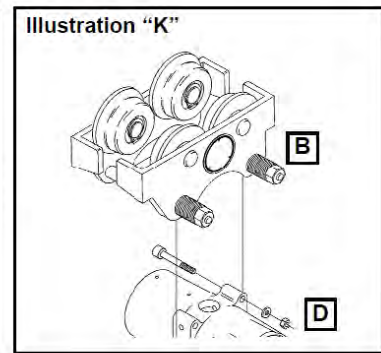
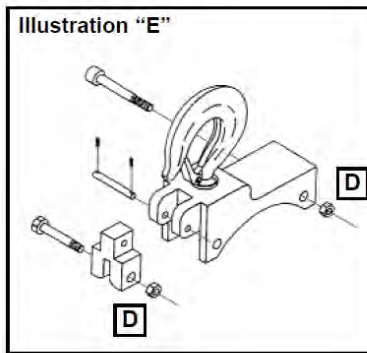
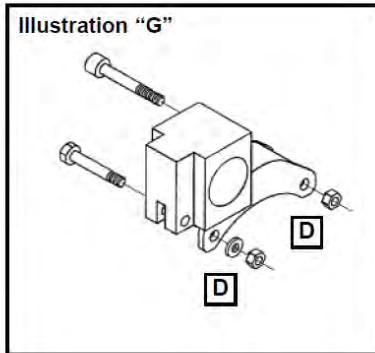
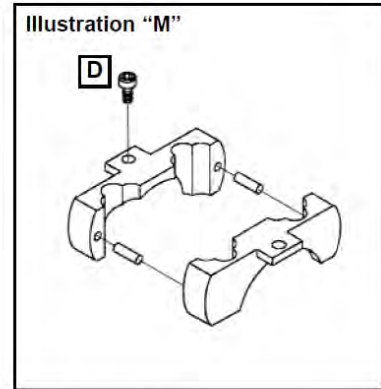
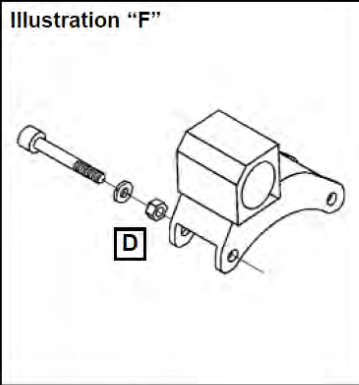
- A** 14-18 In. Lbs. (1,6-2,0 Nm)
- B** 70-80 Ft. Lbs. (94,9-108,5 Nm)
- C** 34-39 In. Lbs. (3,8-4,4 Nm)
- D** 5-6 Ft. Lbs. (6,8-8,1 Nm)
- E** 6-7 Ft. Lbs. (8,1-9,5 Nm)
- H** 16-17 Ft. Lbs. (21,7-23,0 Nm)



## Service Notes 15 cont'd

**15** (Continued)

- A** 14-18 In. Lbs. (1,6-2,0 Nm)
- B** 70-80 Ft. Lbs. (94,9-108,5 Nm)
- C** 34-39 In. Lbs. (3,8-4,4 Nm)
- D** 5-6 Ft. Lbs. (6,8-8,1 Nm)
- E** 6-7 Ft. Lbs. (8,1-9,5 Nm)
- H** 16-17 Ft. Lbs. (21,7-23,0 Nm)



### Lift & Lower Speeds

P1HA03...																
Air Pressure		Direction	Load													
			lbs.	kg	lbs.	kg	lbs.	kg	lbs.	kg	lbs.	kg	lbs.	kg	lbs.	kg
PSI	Kg/CM2		0	0	50	23	100	45	150	68	200	91	250	113	300	136
			Load Speed													
			fpm	mpm	fpm	mpm	fpm	mpm	fpm	mpm	fpm	mpm	fpm	mpm	fpm	mpm
90	6.3	Lift	179	55	157	48	139	42	124	38	118	36	93	28	80	24
		Lower	64	20	71	22	78	24	82	25	85	26	87	27	88	27
80	5.8	Lift	173	53	152	46	133	41	116	35	100	31	83	25	68	21
		Lower	62	19	70	21	78	24	81	25	84	26	87	27	88	27
70	4.9	Lift	168	51	145	44	126	38	108	33	90	27	72	22	55	17
		Lower	59	18	68	21	75	23	80	24	84	26	87	27	88	27
60	4.2	Lift	160	49	137	42	116	35	95	29	76	23	58	18	---	---
		Lower	56	17	65	20	72	22	79	24	83	25	86	26	---	---
50	3.5	Lift	152	46	126	38	104	32	80	24	60	18	---	---	---	---
		Lower	53	16	62	19	70	21	76	23	81	25	---	---	---	---
40	2.8	Lift	139	42	114	35	89	27	63	19	---	---	---	---	---	---
		Lower	49	15	57	17	66	20	74	23	---	---	---	---	---	---

P1HA04..., P1HA05...																
Air Pressure		Direction	Load													
			lbs.	kg	lbs.	kg	lbs.	kg	lbs.	kg	lbs.	kg	lbs.	kg	lbs.	kg
PSI	Kg/CM2		0	0	100	45	200	91	300	136	400	181	500	227		
			Load Speed													
			fpm	mpm	fpm	mpm	fpm	mpm	fpm	mpm	fpm	mpm	fpm	mpm	fpm	mpm
90	6.3	Lift	94	29	83	25	71	22	60	18	54	17	47	14		
		Lower	88	27	100	31	107	33	107	33	107	33	115	35		
80	5.8	Lift	94	29	78	24	68	21	60	18	50	15	42	13		
		Lower	88	27	100	31	107	33	107	33	107	33	115	35		
70	4.9	Lift	88	27	75	23	65	20	54	17	44	13	36	11		
		Lower	88	27	100	31	107	33	107	33	107	33	115	35		
60	4.2	Lift	88	27	71	22	57	17	48	15	38	12	28	8.5		
		Lower	83	25	99	30	107	33	107	33	107	33	115	35		
50	3.5	Lift	78	24	54	17	54	17	38	12	27	8.2	---	---		
		Lower	75	23	100	29	94	31	107	33	107	33	---	---		
40	2.8	Lift	68	21	42	16	53	13	28	8.5	---	---	---	---		
		Lower	68	21	94	25	83	29	107	33	---	---	---	---		



Lift & Lower Speeds cont'd

P1HA09..., P1HA10...														
Air Pressure		Direction	Load											
			lbs.	kg	lbs.	kg	lbs.	kg	lbs.	kg	lbs.	kg	lbs.	kg
			0	0	200	91	400	181	600	272	800	363	1000	454
PSI		Kg/CM2		Load Speed										
				fpm	mpm	fpm	mpm	fpm	mpm	fpm	mpm	fpm	mpm	fpm
90	6.3	Lift	42	13	36	11	32	9.7	27	8.2	23	7	19	5.8
		Lower	38	12	42	13	45	14	47	14	48	15	49	15
80	5.8	Lift	41	13	35	11	30	9.1	25	7.6	20	6.1	16	4.9
		Lower	37	11	41	13	45	14	47	14	48	15	49	15
70	4.9	Lift	40	12	34	10	28	8.5	23	7	17	5.2	13	3.9
		Lower	36	11	40	12	44	13	47	14	48	15	49	15
60	4.2	Lift	38	12	32	9.7	25	7.6	20	6.1	14	4.3	---	---
		Lower	35	11	39	12	43	13	47	14	48	15	---	---
50	3.5	Lift	36	11	29	8.8	22	6.7	16	4.9	---	---	---	---
		Lower	33	10	37	11	42	13	47	14	---	---	---	---
40	2.8	Lift	33	10	26	7.9	18	5.5	12	3.6	---	---	---	---
		Lower	30	9.1	35	11	41	13	47	14	---	---	---	---

P1HA20...														
Air Pressure		Direction	Load											
			lbs.	kg	lbs.	kg	lbs.	kg	lbs.	kg	lbs.	kg	lbs.	kg
			0	0	400	181	800	363	1200	544	1600	726	2000	907
PSI		Kg/CM2		Load Speed										
				fpm	mpm	fpm	mpm	fpm	mpm	fpm	mpm	fpm	mpm	fpm
90	6.3	Lift	21	6.4	18	5.5	16	4.9	13	4	11	3.4	9	2.7
		Lower	19	5.8	21	6.4	22	6.7	23	7	24	7.3	24	7.3
80	5.8	Lift	20	6.1	17	5.2	15	4.6	12	3.7	10	3	8	2.4
		Lower	18	5.5	20	6.1	22	6.7	23	7	24	7.3	24	7.3
70	4.9	Lift	20	6.1	17	5.2	14	4.3	11	3.4	8	2.4	6	1.8
		Lower	18	5.5	20	6.1	22	6.7	23	7	24	7.3	24	7.3
60	4.2	Lift	19	5.8	16	4.9	12	3.7	10	3	7	2.1	---	---
		Lower	17	5.2	19	5.8	21	6.4	23	7	24	7.3	---	---
50	3.5	Lift	18	5.5	14	4.3	11	3.4	8	2.4	---	---	---	---
		Lower	16	4.9	18	5.5	21	6.4	23	7	---	---	---	---
40	2.8	Lift	16	4.9	13	4	9	2.7	6	1.8	---	---	---	---
		Lower	15	4.6	17	5.2	20	6.1	23	7	---	---	---	---





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