



Parts Manual • Ersatzteil Liste

P2 Series Piston Hoist

P2HA Hook Mounted



P2TA Trolley Mounted



P2 H A 11 L P E L --- A A A 11

SERIES: P2

MOUNTING TYPE:
H = Hook
T = Trolley

FEATURES:
A = Standard Unit P = Epoxy Paint
E = Edible Grease R = Epoxy Paint/Edible Grease
H = Hi Temp Grease S = Epoxy Paint/Hi Temp Grease

CAPACITY:
10 = 1000 lbs. 22 = 2200 lbs. * Spark Resistant
11 = 1100 lbs. 30 = 3000 lbs.*
15 = 1500 lbs.* 44 = 4400 lbs.

CHAIN TYPE:
L = Link R = Roller

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

CONTROL LENGTH:
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.

CHAIN OPTIONS:
L = Standard Link R = Standard Roller
P = Zinc Plated Link X = No Chain
Q = SRLink

CAPACITY RATING (lbs.):
03 = 300 (10/11/15) 22 = 2200 (22)
05 = 500 (10/11/15) 30 = 3000 (30/44)
10 = 1000 (10/11/15) 31 = 1100 (30/44)
11 = 1000 (11/15/22) 32 = 2200 (30/44)
15 = 1500 (15/22) 40 = 4000 (44)
20 = 2000 (22) 44 = 4400 (44)

VINTAGE:
A

LOWER HOOK:
A = Standard Link (11/22) H = Bullard Link (44)
B = Bullard Link (11/22) I = Standard Roller (44)
C = SR Standard Link (10/15) J = Bullard Roller (44)
D = SR Bullard Link (10/15) K = Standard Roller (11/22)
E = SR Standard Link (30) L = Bullard Roller (11/22)
F = SR Bullard Link (30) X = No Hook
G = Standard Link (44)

UPPER MOUNTING

Hook
A = Standard (11/22)
B = Bullard (11/22)
C = SR Standard (10/15)
D = SR Bullard (10/15)
E = SR Standard (30)
F = SR Bullard (30)
G = Standard (44)
H = Bullard (44)
I = No Hook

Trolley (cont'd)
F = 3-5" Flat SR (10/15)
G = 3-5" Flat SR (30)
H = 3-5" Flat (44)
I = 2" Narrow Flat (11/22)
J = 2" Narrow Flat SR (10/15)
K = 2" Narrow Flat SR (30)
L = 2" Narrow Flat (44)
M = 5-7" Tapered (11/22)
N = 5-7" Tapered (44)
O = 5-7" Tapered SR (10/15)
P = 5-7" Tapered SR (30)
Q = 5-7" Flat (11/22)
R = 5-7" Flat (44)
S = 5-7" Flat SR (10/15)
T = 5-7" Flat SR (30)

AMOUNT OF LIFT:

--- Specify Length in Feet, 3 digits
Example: 10' lift = 010

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

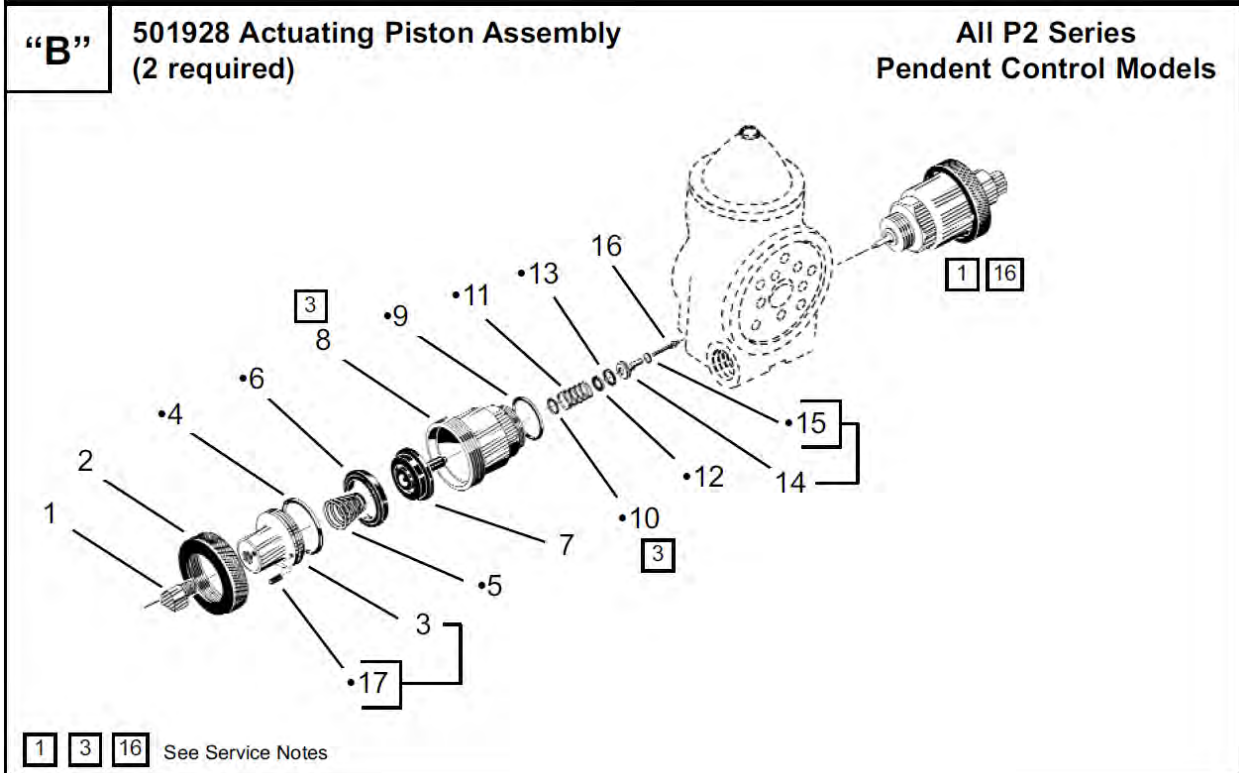
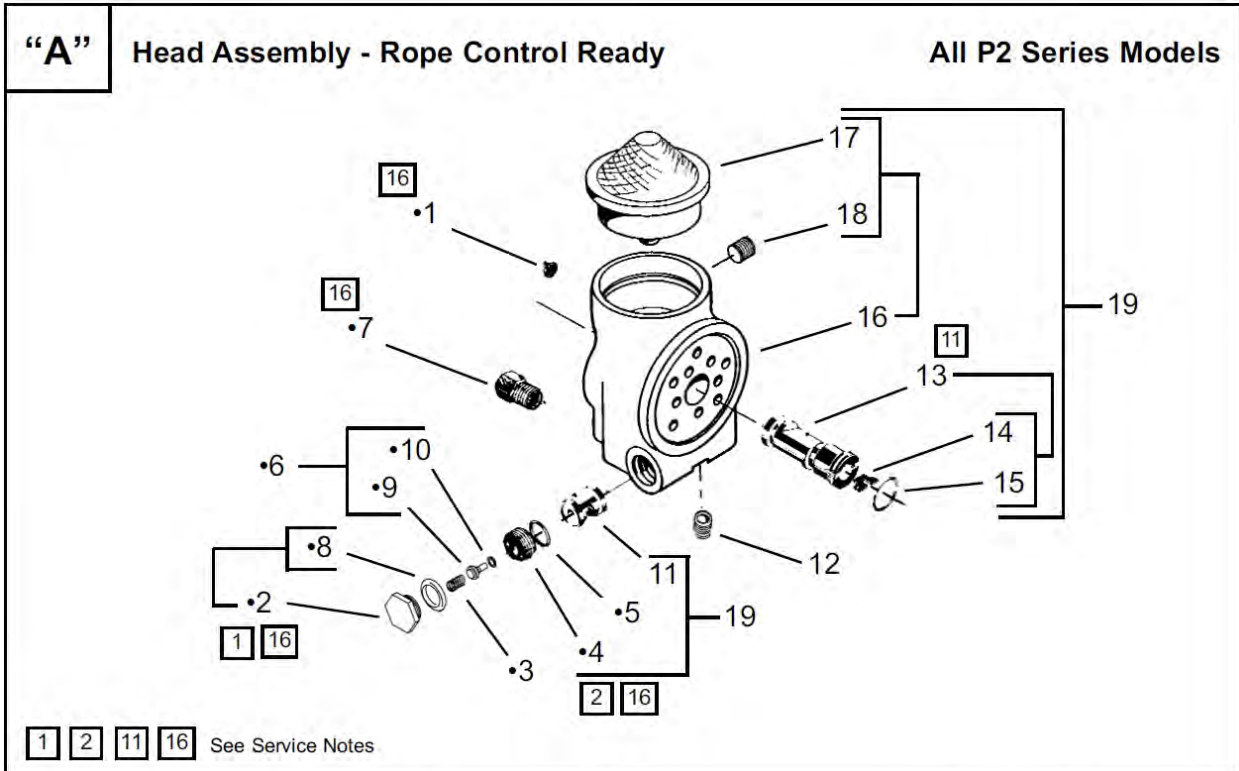


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Head Assembly



Head Assembly (parts)

Illustration "A" - Head Assembly - Rope Control Ready

Index	Number	#	I	EN	DE	FR	ES	IT
				Description	Benennung	Designation	Descripción	Descrizione
1	C108S	4	8	Nut	Mutter	Ecrou	Tuerca	Dado
2	A18856	2	4	Valve Cap	Ventilverschraubung	Bouchon de soupape	Tapa de válvula	Coperchio della valvola
3	16354	2	4	Spring	Druckfeder	Ressort	Resorte	Molla
4	18947	2	4	Valve Guide	Ventilführung	Guide-soupape	Guía de válvula	Guida valvola
5	18948	2	4	O-Ring	O-Ring	Joint torique	Anillo "O"	Anello ad O
6	AA16717	2	4	Valve Assembly	Ventilbaugruppe	Ensemble de soupape	Ensamblaje de la válvula	Gruppo valvola
7	A10161	1	2	Air Strainer	Siebträger	Filtre d'air	Filtro de aire	Filtro aria
8	16137	1	2	O-Ring	O-Ring	Joint torique	Anillo "O"	Anello ad O
9	A16717	1		Valve	Ventil	Soupape	Válvula	Valvola
10	1008127	1	2	O-Ring	O-Ring	Joint torique	Anillo "O"	Anello ad O
11	520068	1		Reversing Valve	Umsteuerventil	Vanne de renversement	Válvula de inversión	Valvola di reversibilità
12	F504	1		Plug	Buchse	Bouchon	Tapón	Spina
13	A12044	1		Distributor	Verteiler	Distributeur	Distribuidor	Distributore
14	2VR43	1		Key	Schlüssel	Clavette	Llave	Chiave
15	800090	1		Retaining Ring	Sicherungsring	Anneau de fixation	Anillo de retención	Anello di fissaggio
16	532110	1		Head	Kopf	Tête	Cabezal	Testa
17	813487	1		Muffler	Schalldämpfer	Silencieux	Silenciador	Silenziatore
18	B148X	2	4	Set Screw	Stellschraube	Vis de pression	Tornillo fijador	Vite di arresto
19	533171	1		Head Assembly	Koepfzusammenbau	Assemblage de tête	Ensamblaje de cabezal	Assemblaggio testa

#) Quantity / Stückzahl / Quantité / Cantidad / Quantità

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

Illustration "B" - 501928 Actuating Piston Assembly (2 required)

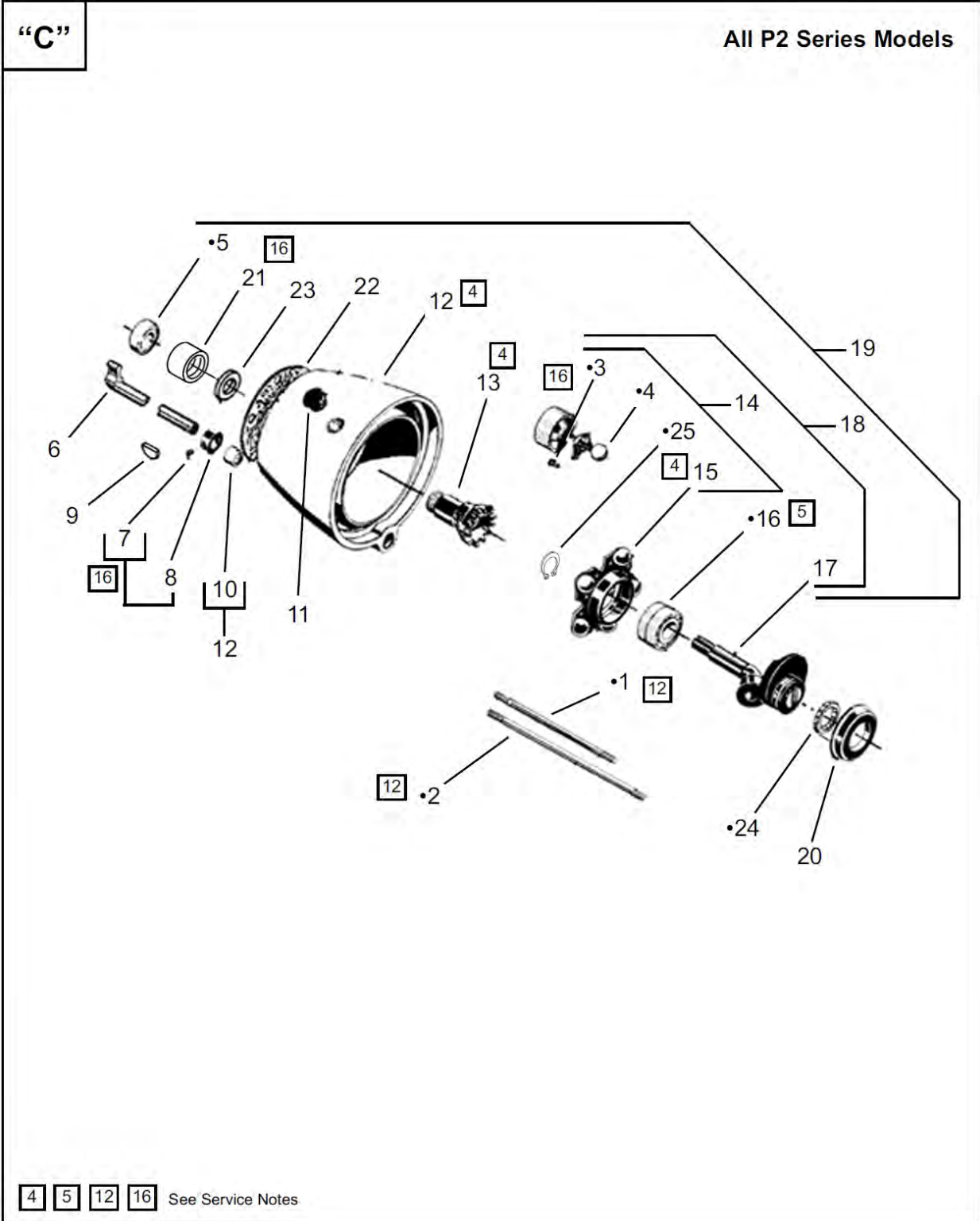
Index	Number	#	I	EN	DE	FR	ES	IT
				Description	Benennung	Designation	Descripción	Descrizione
1	F511	1		Elbow	Ellbogen	Coude	Codo	Curva
2	17729	1		Nut	Mutter	Ecrou	Tuerca	Dado
3	501848	1		Cylinder Cap	Kappe	Chapeau	Tapa	Cappello
4	14272	1	2	O-Ring	O-Ring	Joint torique	Anillo "O"	Anello ad O
5	30887	1	2	Spring	Druckfeder	Ressort	Resorte	Molla
6	16356	1	2	Seal	Dichtung	Sceau	Sello	Guarnizione
7	539543	1		Piston Rod Asm.	Kolben	Piston	Embolo	Pistone
8	30850	1		Cylinder	Zylinder	Cylindre	Cilindro	Cilindro
9	16137	1	2	O-Ring	O-Ring	Joint torique	Anillo "O"	Anello ad O
10	504970	1	2	O-Ring	O-Ring	Joint torique	Anillo "O"	Anello ad O
11	521984	1	2	Spring	Druckfeder	Ressort	Resorte	Molla
12	W186	1	2	Washer	Scheibe	Rondelle	Arandela	Rondella
13	22234	1	2	O-Ring	O-Ring	Joint torique	Anillo "O"	Anello ad O
14	A16717	1		Poppet Valve Asm.	Schnarchventil	Soupape soulevante	Válvula secundaria	Valvola a fungo
15	1008127	1	2	O-Ring	O-Ring	Joint torique	Anillo "O"	Anello ad O
16	17736	1		Pin	Stift	Goupille cylindrique	Pasador	Spina
17	501849	1	2	Set Screw	Stellschraube	Vis de pression	Tornillo fijador	Vite di arresto

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Motor Assembly



Motor Assembly (parts)

Illustration "C" - Motor Assembly

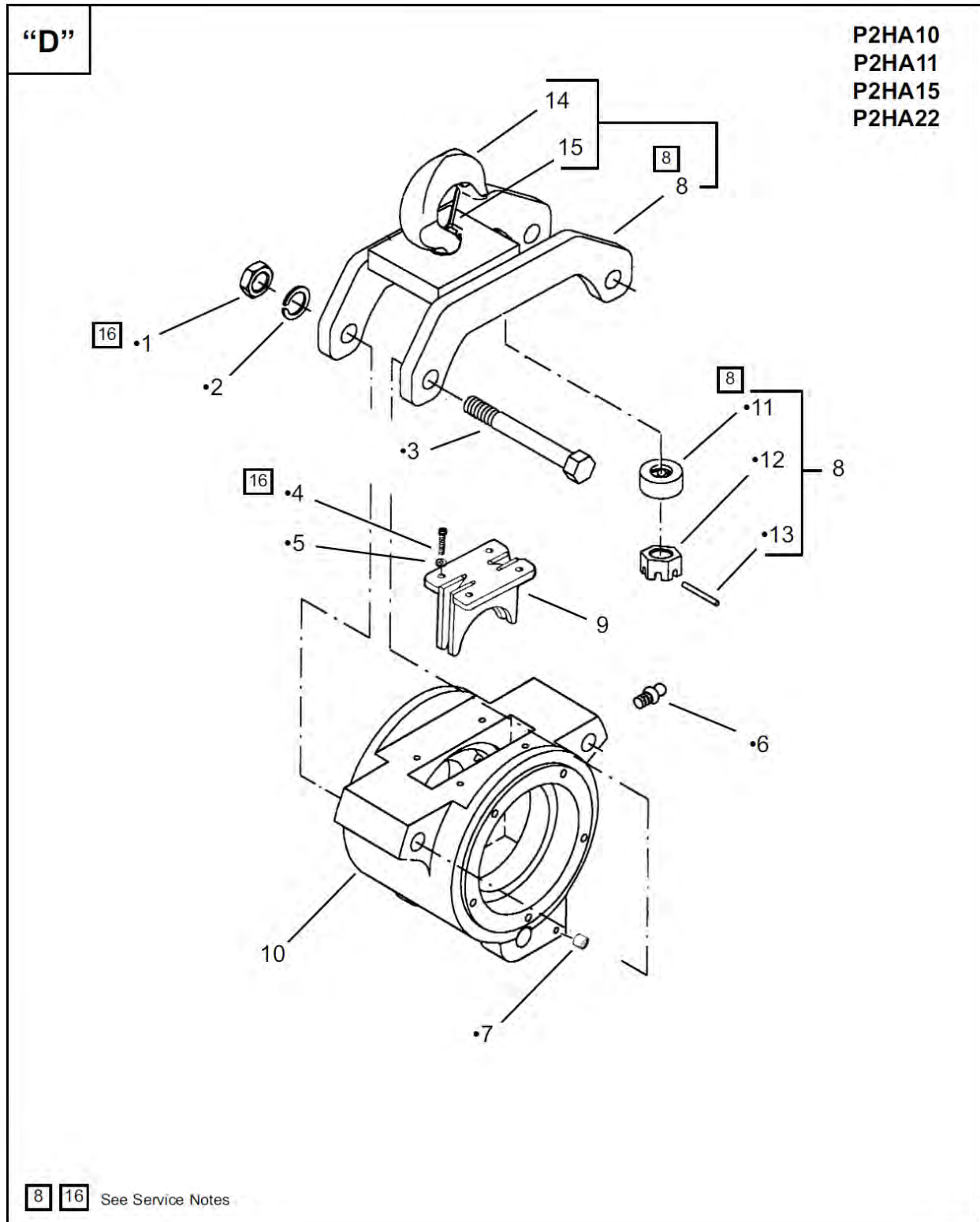
Index	Number	#	·	EN	DE	FR	ES	IT
				Description	Benennung	Designation	Descripción	Descrizione
1	11888	2	4	Short Stud	Bolzen	Goujon	Espárrago	Perno sporgente
2	11887	2	4	Long Stud	Bolzen	Goujon	Espárrago	Perno sporgente
3	B135Z	10	20	Screw	Schraube	Vis	Tornillo	Vite
4	A2V2	5	10	Piston Assembly	Kolben	Piston	Embolo	Pistone
5	2V85	1	2	Bearing	Lager	Coussinet	Cojinete	Cuscinetto
6	Table "C"	1		Control Rod	Steuerstange	Barre de commande	Barra de control	Asta di comando
7	B141E	1		Screw	Schraube	Vis	Tornillo	Vite
8	A12117	1		Collar	Bund	Collier	Collar	Collare
9	Table "C"	1		Key	Schlüssel	Clavette	Llave	Chiave
10	11700	1		Bearing	Lager	Coussinet	Cojinete	Cuscinetto
11	IR78	1		Plug	Buchse	Bouchon	Tapón	Spina
12	532071	1		Cylinder Assembly	Zylinder	Cylindre	Cilindro	Cilindro
13	A17605	1	2	Bevel Gear	Kegelrad	Engrenage conique	Engranaje cónico	Ingranaggio conico
14	533944	1		Socket Plate Asm.	Stecknussplatten Zusammenbau	Assemblage de plaque de douille	Ensamblaje de la placa de enchufe	Gruppo portapiattello
15	507692	1		Socket Plate	Stecknussplatte	Plaque de douille	Placa de enchufe	Portapiattello
16	507806	1		Bearing	Lager	Coussinet	Cojinete	Cuscinetto
17	507807	1		Driveshaft	Abtriebsschaft	Arbre de transmission	Eje motor	Albero motore
18	507811	1		Driveshaft Asm.	Abtriebsschaft- zusammenbau	Assemblage d'arbre de transmission	Ensamblaje de eje motor	Gruppo albero motore
19	532130	1		Motor Assembly	Motorbaugruppe	Ensemble du moteur	Ensamblaje del motor	Gruppo motore
20	11819	1		Ball Race	Drucklager	Butée à billes	Canal de empuje	Canale di spinta
21	2V169	1		Lock Nut	Überwurfmutter	Contre-ecrou molette	Tuerca de fijación	Dado di bloccaggio
22	2V1891	1		Gasket	Dichtung	Joint d'étanchéité	Empaquetadura	Guarnizione
23	2V272	1		Washer	Scheibe	Rondelle	Arandela	Rondella
24	2V84	1	2	Bearing	Lager	Coussinet	Cojinete	Cuscinetto
25	800251	1	2	Retaining Ring	Sicherungsring	Anneau de fixation	Anillo de retención	Anello di fissaggio

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Table "C"

Index	Description	#	P2()10	#	P2()30
			P2()11		P2()44
			P2()15		P2()22
6	Control Rod	1	532104	1	532166
9	Key		---	1	2N721

Upper Hook Assembly A



Upper Hook Assembly A (parts)

Illustration "D" - Upper Hook Assembly

Index	Number	#	·	EN	DE	FR	ES	IT
				Description	Benennung	Designation	Descripción	Descrizione
1	C105B	2	4	Nut	Mutter	Ecrou	Tuerca	Dado
2	W183	2	4	Washer	Scheibe	Rondelle	Arandela	Rondella
3	B155J	2	4	Bolt	Bolzen	Boulon	Perno	Dado
4	B125Z	4	8	Screw	Schraube	Vis	Tornillo	Vite
5	W210	4	8	Washer	Scheibe	Rondelle	Arandela	Rondella
6	809660	1	2	Grease Fitting	Schmiernippel	Monture de graisse	Accesorio de grasa	Ingrassatore
7	11700	2	4	Bearing	Lager	Coussinet	Cojinete	Cuscinetto
8	Table "D"	1		Upper Hook Asm.	Oberer Haken	Crochet supérieur	Gancho superior	Gancio superiore
9	Table "D"	1		Chain Guide	Kettenfuehrung	Guide-chaîne	Guía de cadena	Guida della catena
10	532078	1		Housing	Gehäuse	Corps	Caja	Corpo
11	531001	1	2	Bearing	Lager	Coussinet	Cojinete	Cuscinetto
12	C111D	1	2	Nut	Mutter	Ecrou	Tuerca	Dado
13	RP103T	1	2	Pin	Stift	Goupille cylindrique	Pasador	Spina
14	Table "D"	1		Replacement Hook	Haken	Crochet	Gancho	Gancio
15	Table "D"	1		Latch Kit	Verschlussatz	Ensemble de loquet	Juego de pestillos	Borsa serratura

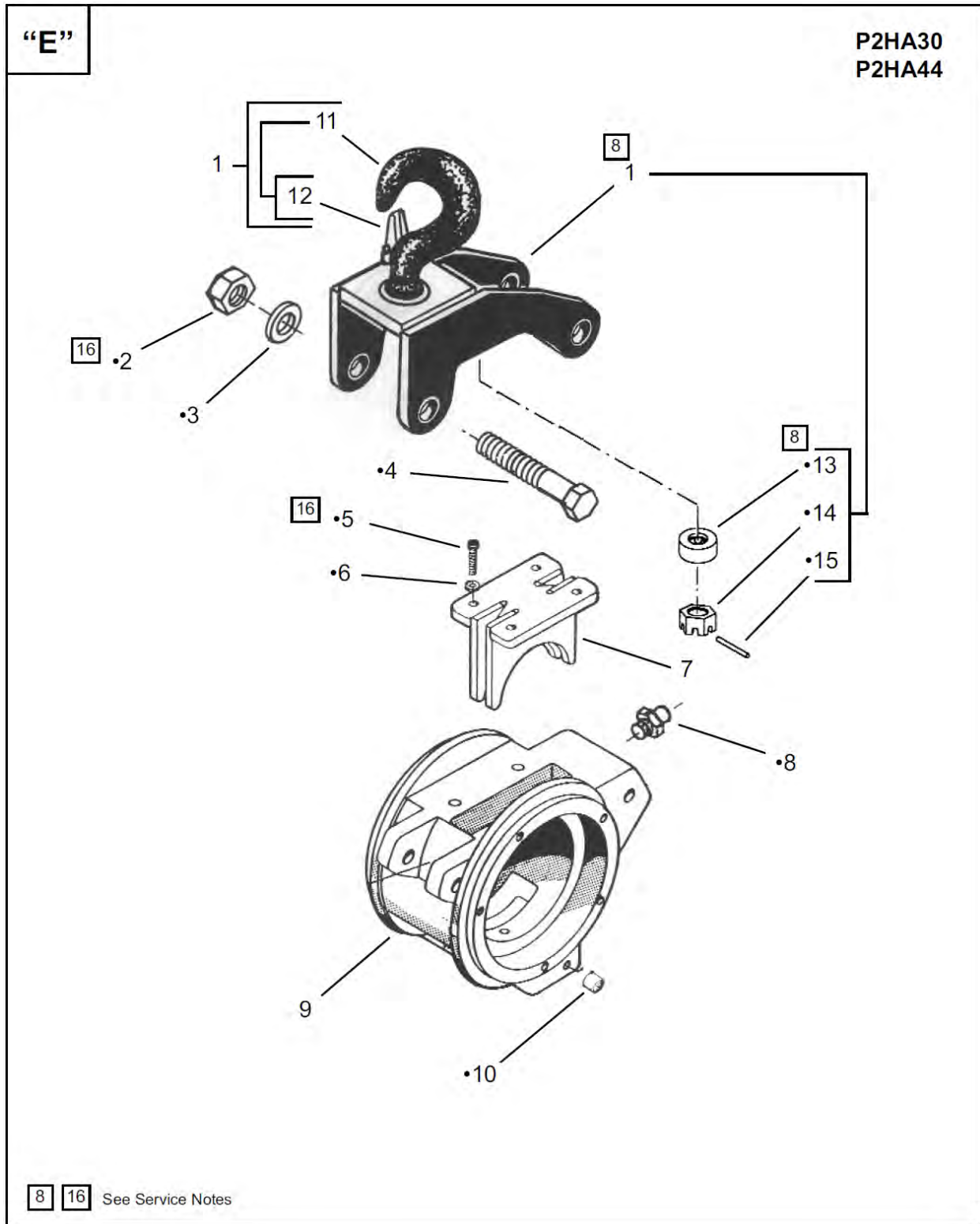
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Table "D"

Index	Description	#	P2HA11L P2HA22L	#	P2HA11R P2HA22R	#	P2HA11L P2HA22L	#	P2HA11R P2HA22R	#	P2HA10L P2HA15L	#	P2HA10L P2HA15L
	Hook Type		Standard		Standard		Bullard		Bullard		Standard		Bullard
	Chain Type		Link		Roller		Link		Roller		Link		Link
8	Upper Hook Assembly	1	541145	1	541145	1	541146	1	541146	1	541189	1	541190
9	Chain Guide	1	532076	1	532080	1	532076	1	532080	1	532076	1	532076
14	Replacement Hook	1	542392	1	542392	1	536643	1	536643	1	542396	1	541188
15	Latch Kit	1	542388	1	542388	1	526567	1	526567	1	542406	1	526567
	Bullard Latch Kit		---		---	1	523363	1	523363		---	1	523363

Upper Hook Assembly B



Upper Hook Assembly B (parts)

Illustration "E" - Upper Hook Assembly

Index	Number	#	·	EN	DE	FR	ES	IT
				Description	Benennung	Designation	Descripción	Descrizione
1	Table "E"	1		Upper Hook Asm.	Oberer Haken	Crochet supérieur	Gancho superior	Gancio superiore
2	C105B	2	4	Nut	Mutter	Ecrou	Tuerca	Dado
3	W183	2	4	Washer	Scheibe	Rondelle	Arandela	Rondella
4	B155J	2	4	Bolt	Bolzen	Boulon	Perno	Dado
5	B125Z	4	8	Screw	Schraube	Vis	Tornillo	Vite
6	W210	4	8	Washer	Scheibe	Rondelle	Arandela	Rondella
7	Table "E"	1		Chain Guide	Kettenführung	Guide-chaîne	Guía de cadena	Guida della catena
8	809660	1	2	Grease Fitting	Schmiernippel	Monture de graisse	Accesorio de grasa	Ingrassatore
9	532149	1		Housing	Gehäuse	Corps	Caja	Corpo
10	11700	2	4	Bearing	Lager	Coussinet	Cojinete	Cuscinetto
11	Table "E"	1		Replacement Hook	Haken	Crochet	Gancho	Gancio
12	Table "E"	1		Latch Kit	Verschlussatz	Ensamble de loquet	Juego de pestillos	Borsa serratura
13	24441	1	2	Bearing	Lager	Coussinet	Cojinete	Cuscinetto
14	542376	1	2	Nut - Slotted	Mutter	Ecrou	Tuerca	Dado
15	RP103K	1	2	Pin	Stift	Goupille cylindrique	Pasador	Spina

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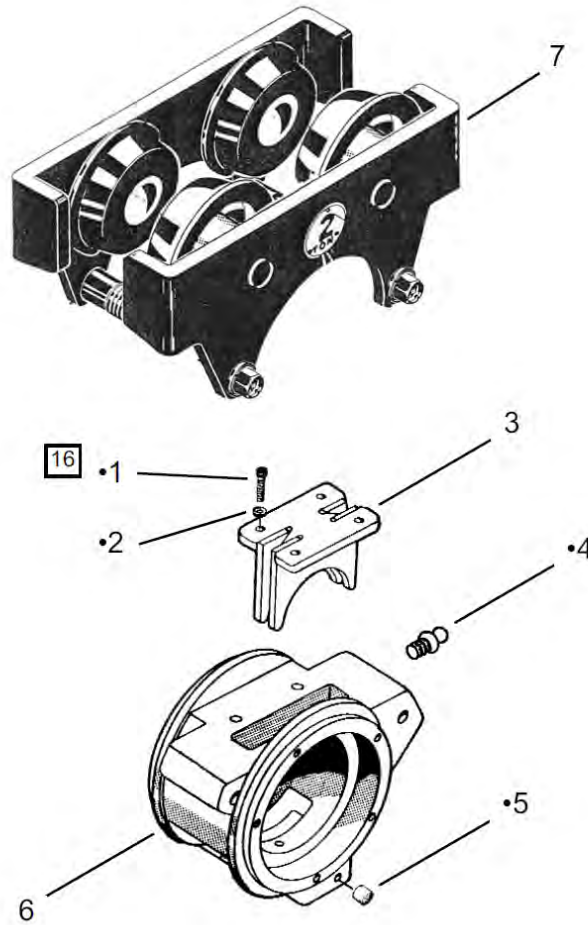
Table "E"

Index	Description	#	P2HA30L	#	P2HA30L	#	P2HA44L	#	P2HA44R	#	P2HA44L	#	P2HA44R
	Hook Type		Standard		Bullard		Standard		Standard		Bullard		Bullard
	Chain Type		Link		Link		Link		Roller		Link		Roller
1	Upper Hook Assembly	1	542355	1	542356	1	542378	1	542378	1	542342	1	542342
7	Chain Guide	1	532076	1	532076	1	532076	1	532080	1	532076	1	532080
11	Replacement Hook	1	542382	1	542383	1	542377	1	542377	1	542335	1	542335
12	Latch Kit	1	542407	1	528618	1	542386	1	542386	1	528618	1	528618
	Bullard Latch Kit		---	1	528268		---		---	1	528268	1	528268

Trolley Mounted Hoists

“F”

P2TA10L
P2TA11L
P2TA15L
P2TA22L



16 See Service Notes



Trolley Mounted Hoists (parts)

Illustration "F" - Trolley Mounted Hoists

Index	Number	#	·	EN	DE	FR	ES	IT
				Description	Benennung	Designation	Descripción	Descrizione
1	B125Z	4	8	Screw	Schraube	Vis	Tornillo	Vite
2	W210	4	8	Washer	Scheibe	Rondelle	Arandela	Rondella
3	532076	1		Chain Guide	Kettenfuehrung	Guide-chaîne	Guía de cadena	Guida della catena
4	809660	1	2	Grease Fitting	Schmiernippel	Monture de graisse	Accesorio de grasa	Ingrassatore
5	11700	2	4	Bearing	Lager	Coussinet	Cojinete	Cuscinetto
6	532078	1		Housing	Gehäuse	Corps	Caja	Corpo
P2TA10...								
7	543523	1		Trolley (Taper 3-5")	Wagen (Konisch)	Trolley (Conique)	Trole (Cónico)	Carrello (Conico)
	543524	1		Trolley (Taper 5-7")	Wagen (Konisch)	Trolley (Conique)	Trole (Cónico)	Carrello (Conico)
	543525	1		Trolley (Flat 3-5")	Wagen (Flach)	Trolley (Plat)	Trole (Plano)	Carrello (Piatto)
	543526	1		Trolley (Flat 5-7")	Wagen (Flach)	Trolley (Plat)	Trole (Plano)	Carrello (Piatto)
	543527	1		Trolley (Narrow 2")	Wagen (Schmal)	Trolley (Etroit)	Trole (Angosto)	Carrello (Stretto)
P2TA11...								
7	539878	1		Trolley (Taper 3-5")	Wagen (Konisch)	Trolley (Conique)	Trole (Cónico)	Carrello (Conico)
	543536	1		Trolley (Taper 5-7")	Wagen (Konisch)	Trolley (Conique)	Trole (Cónico)	Carrello (Conico)
	539879	1		Trolley (Flat 3-5")	Wagen (Flach)	Trolley (Plat)	Trole (Plano)	Carrello (Piatto)
	543537	1		Trolley (Flat 5-7")	Wagen (Flach)	Trolley (Plat)	Trole (Plano)	Carrello (Piatto)
	539880	1		Trolley (Narrow 2")	Wagen (Schmal)	Trolley (Etroit)	Trole (Angosto)	Carrello (Stretto)
P2TA15...								
7	539884	1		Trolley (Taper 3-5")	Wagen (Konisch)	Trolley (Conique)	Trole (Cónico)	Carrello (Conico)
	543528	1		Trolley (Taper 5-7")	Wagen (Konisch)	Trolley (Conique)	Trole (Cónico)	Carrello (Conico)
	539885	1		Trolley (Flat 3-5")	Wagen (Flach)	Trolley (Plat)	Trole (Plano)	Carrello (Piatto)
	543529	1		Trolley (Flat 5-7")	Wagen (Flach)	Trolley (Plat)	Trole (Plano)	Carrello (Piatto)
	539886	1		Trolley (Narrow 2")	Wagen (Schmal)	Trolley (Etroit)	Trole (Angosto)	Carrello (Stretto)
P2TA22...								
7	539881	1		Trolley (Taper 3-5")	Wagen (Konisch)	Trolley (Conique)	Trole (Cónico)	Carrello (Conico)
	543534	1		Trolley (Taper 5-7")	Wagen (Konisch)	Trolley (Conique)	Trole (Cónico)	Carrello (Conico)
	539882	1		Trolley (Flat 3-5")	Wagen (Flach)	Trolley (Plat)	Trole (Plano)	Carrello (Piatto)
	543535	1		Trolley (Flat 5-7")	Wagen (Flach)	Trolley (Plat)	Trole (Plano)	Carrello (Piatto)
	539883	1		Trolley (Narrow 2")	Wagen (Schmal)	Trolley (Etroit)	Trole (Angosto)	Carrello (Stretto)

#) Quantity / Stückzahl / Quantité / Cantidad / Quantità

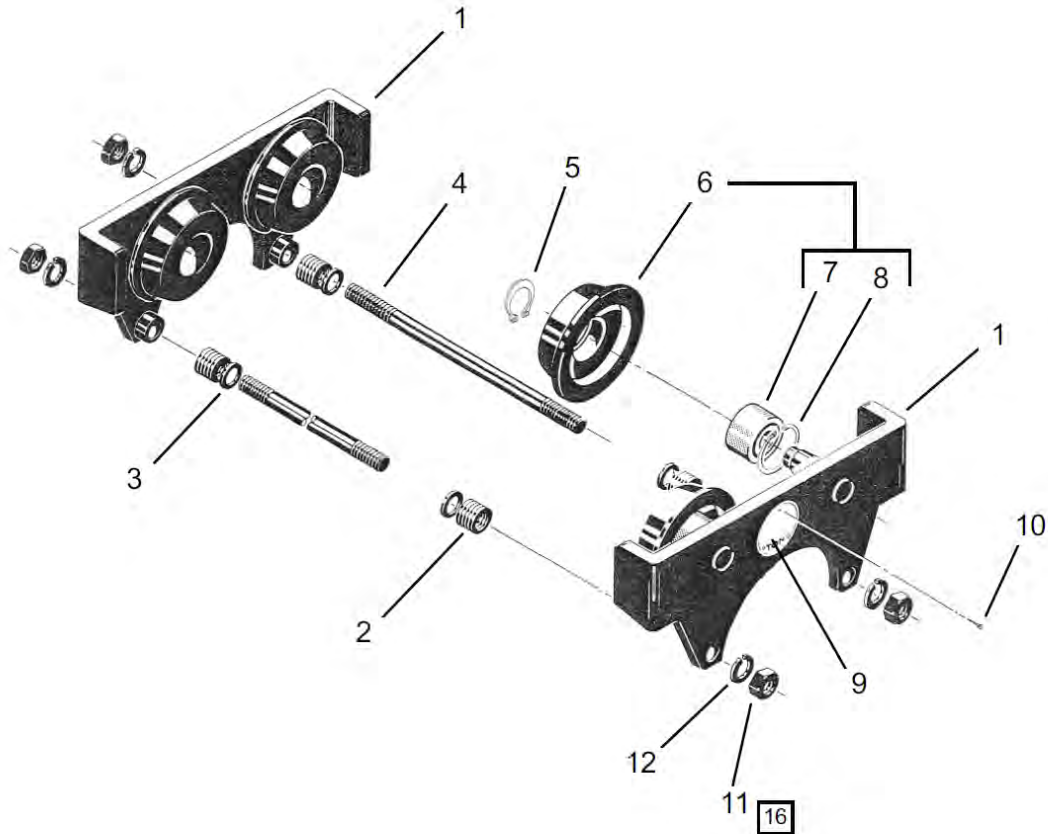
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Trolley Assembly

“G”

P2TA11L
P2TA22L



16 See Service Notes



Trolley Assembly (parts)

Illustration "G" - Trolley Assembly

Index	Number	#	·	EN	DE	FR	ES	IT
				Description	Benennung	Designation	Descripción	Descrizione
1	Table "G"	2		Side Plate	seitliche Platte	Plaque de serrage	Placa lateral	Piastra laterale
2	504809	36		Washer	Scheibe	Rondelle	Arandela	Rondella
3	504810	4		Washer	Scheibe	Rondelle	Arandela	Rondella
4	Table "G"	2		Stud	Bolzen	Goujon	Espárrago	Perno sporgente
5	800141	4		Retaining Ring	Sicherungsring	Anneau de fixation	Anillo de retención	Anello di fissaggio
6	Table "G"	4		Wheel Assembly	Radbaugruppe	Assemblage de roue	Ensamblaje de rueda	Gruppo mole
7	526529	4		Bearing	Lager	Coussinet	Cojinete	Cuscinetto
8	503406	4		Retaining Ring	Sicherungsring	Anneau de fixation	Anillo de retención	Anello di fissaggio
9	Table "G"	2		Capacity Plate	Kapazitaetsschild	Plaque signalétique	Placa de capacidad	Piattello capacitivo
10	534820	6		Drive Screw	Triebschraube	Vis d'entraînement	Clavo de rosca	Vite di trasmissione
11	C105B	4		Nut	Mutter	Ecrou	Tuerca	Dado
12	W183	4		Lock Washer	Scheibe	Rondelle	Arandela	Rondella

#) Quantity / Stückzahl / Quantité / Cantidad / Quantità

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

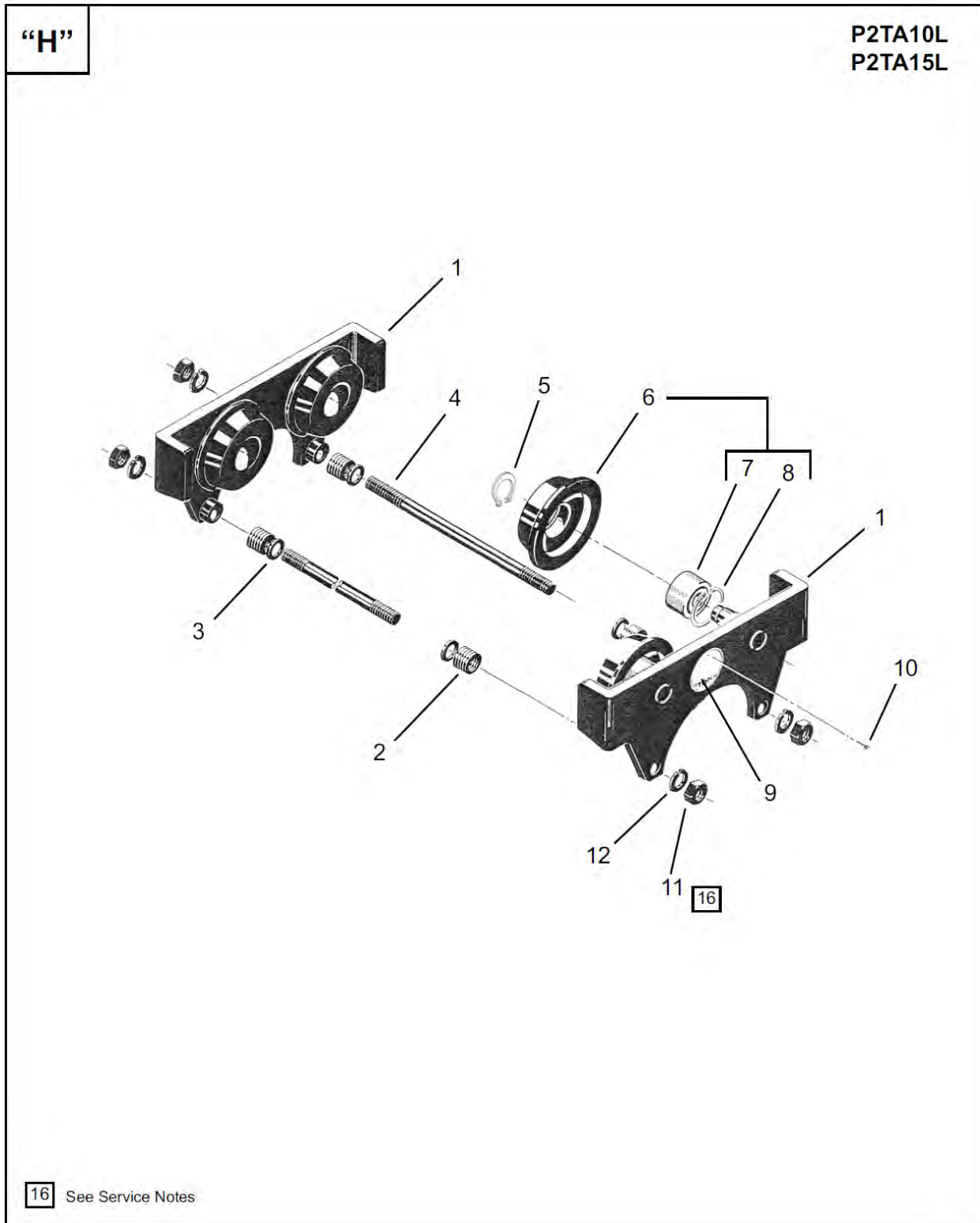
Table "G"

Index	Description	P2TA11L				
	Capacity	1100 lbs.				
	Trolley Assembly	539878	543536	539879	543537	539880
	I-Beam Type	Standard	Standard	Patented	Patented	Patented
	Wheel Type	Taper	Taper	Flat	Flat	Narrow
	Flange Width	3"-5"	5"-7"	3"-5"	5"-7"	2"
1	Side Plate	539209	539764	539209	539764	539209
4	Stud	508389	501348	508389	501348	508389
6	Wheel Assembly	526519	526519	534387	534387	533069
9	Capacity Plate	532982	532982	532982	532982	532982

Index	Description	P2TA22L				
	Capacity	2200 lbs.				
	Trolley Assembly	539881	543534	539882	543535	539883
	I-Beam Type	Standard	Standard	Patented	Patented	Patented
	Wheel Type	Taper	Taper	Flat	Flat	Narrow
	Flange Width	3"-5"	5"-7"	3"-5"	5"-7"	2"
1	Side Plate	539209	539764	539209	539764	539209
4	Stud	508389	501348	508389	501348	508389
6	Wheel Assembly	526519	526519	534387	534387	533069
9	Capacity Plate	529301	529301	529301	529301	529301



Spark Resistant Trolley Assembly



Spark Resistant Trolley Assembly (parts)

Index	Number	#	EN	DE	FR	ES	IT
			Description	Benennung	Designation	Descripción	Descrizione
1	Table "H"	2	Side Plate	seitliche Platte	Plaque de serrage	Placa lateral	Piastra laterale
2	504809	36	Washer	Scheibe	Rondelle	Arandela	Rondella
3	504810	4	Washer	Scheibe	Rondelle	Arandela	Rondella
4	Table "H"	2	Stud	Bolzen	Goujon	Espárrago	Perno sporgente
5	800141	4	Retaining Ring	Sicherungsring	Anneau de fixation	Anillo de retención	Anello di fissaggi
6	Table "H"	4	Wheel Assembly	Radbaugruppe	Assemblage de roue	Ensamblaje de rueda	Gruppo mole
7	526529	4	Bearing	Lager	Coussinet	Cojinete	Cuscinetto
8	503406	4	Retaining Ring	Sicherungsring	Anneau de fixation	Anillo de retención	Anello di fissaggi
9	Table "H"	2	Capacity Plate	Kapazitaetsschild	Plaque signalétique	Placa de capacidad	Piattello capacitài
10	534820	6	Drive Screw	Triebschraube	Vis d'entraînement	Clavo de rosca	Vite di trasmissio
11	C105B	4	Nut	Mutter	Ecrou	Tuerca	Dado
12	W183	4	Lock Washer	Scheibe	Rondelle	Arandela	Rondella

Illustration "H" - Spark Resistant Trolley Assembly

#) Quantity / Stückzahl / Quantité / Cantidad / Quantità
 · Recommended Spare Parts / Kennziechnet empfohlenes / Identifica un particolare di ricambio
 raccomandato / Designa el repuesto recomendado / Indique la pièce de rechange conseillée

Table "H"

Index	Description	P2TA10L				
		1000 lbs.				
	Trolley Assembly	543523	543524	543525	543526	543527
	I-Beam Type	Standard	Standard	Patented	Patented	Patented
	Wheel Type	Taper	Taper	Flat	Flat	Narrow
	Flange Width	3"-5"	5"-7"	3"-5"	5"-7"	2"
1	Side Plate	539210	541511	539210	541511	539210
4	Stud	508389	501348	508389	501348	508389
6	Wheel Assembly	531733	531733	535144	535144	539366
9	Capacity Plate	11055	11055	11055	11055	11055

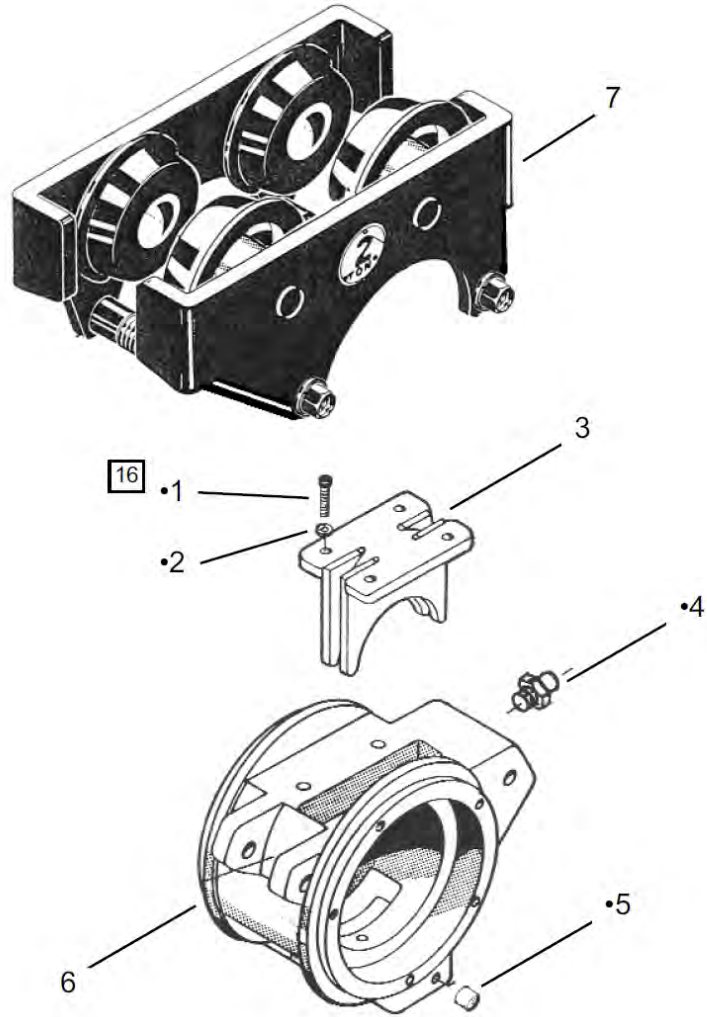
Index	Description	P2TA15L				
		1500 lbs.				
	Trolley Assembly	539884	543528	539885	543529	539886
	I-Beam Type	Standard	Standard	Patented	Patented	Patented
	Wheel Type	Taper	Taper	Flat	Flat	Narrow
	Flange Width	3"-5"	5"-7"	3"-5"	5"-7"	2"
1	Side Plate	539210	541511	539210	541511	539210
4	Stud	508389	501348	508389	501348	508389
6	Wheel Assembly	531733	531733	535144	535144	539366
9	Capacity Plate	19523	19523	19523	19523	19523



Trolley Mounted Hoists

“P”

P2TA30L
P2TA44L



16 See Service Notes



Trolley Mounted Hoists (parts)

Illustration "I" - Trolley Mounted Hoists

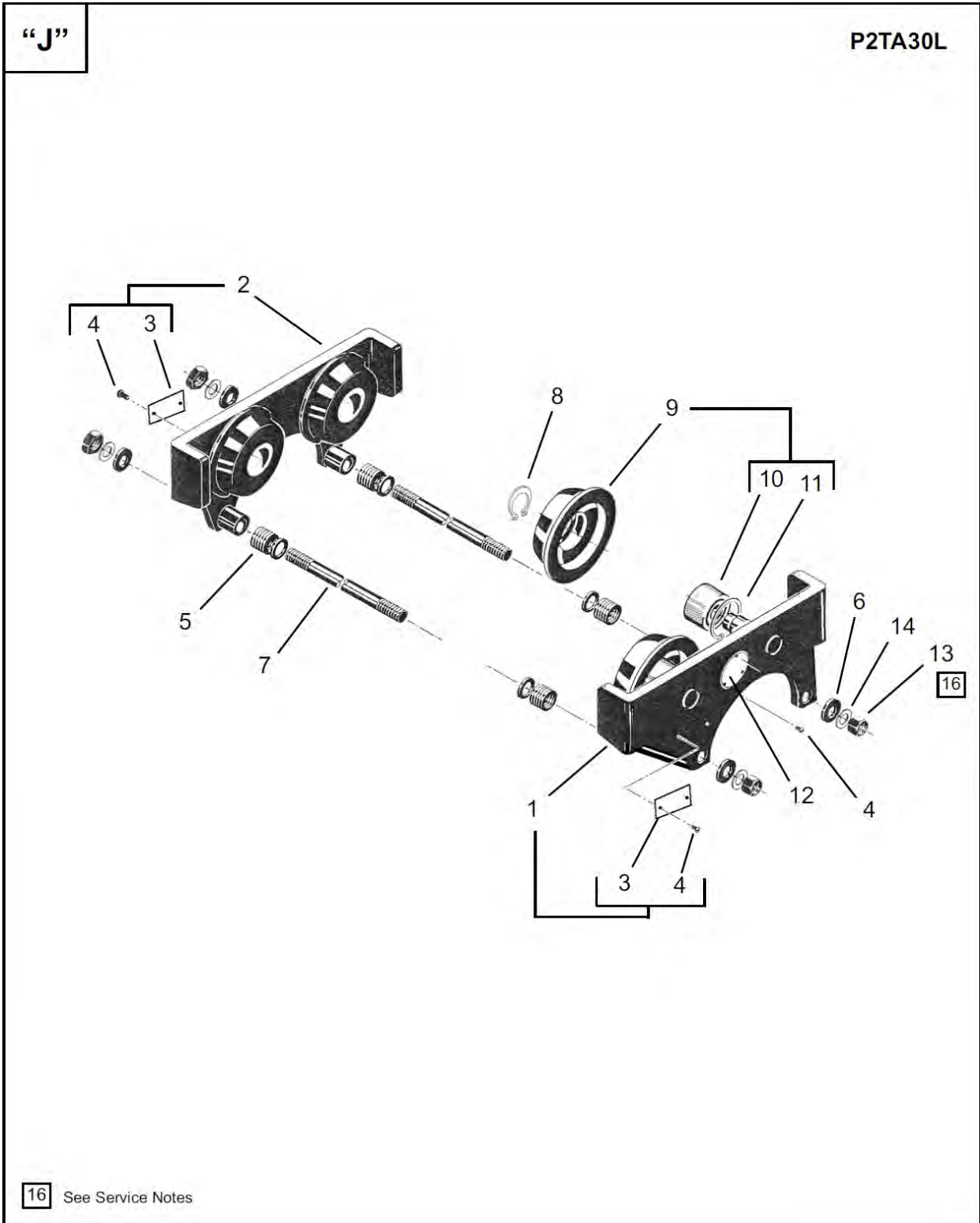
Index	Number	#	·	EN	DE	FR	ES	IT
				Description	Benennung	Designation	Descripción	Descrizione
1	B125Z	4	8	Screw	Schraube	Vis	Tornillo	Vite
2	W210	4	8	Washer	Scheibe	Rondelle	Arandela	Rondella
3	532076	1		Chain Guide	Kettenfuehrung	Guide-chaîne	Guía de cadena	Guida della catena
4	809660	1	2	Grease Fitting	Schmiernippel	Monture de graisse	Accesorio de grasa	Ingrassatore
5	11700	2	4	Bearing	Lager	Coussinet	Cojinete	Cuscinetto
6	532149	1		Housing	Gehäuse	Corps	Caja	Corpo
P2TA30L...								
7	539887	1		Trolley (Taper 3-5")	Wagen (Konisch)	Trolley (Conique)	Trole (Cónico)	Carrello (Conico)
	543530	1		Trolley (Taper 5-7")	Wagen (Konisch)	Trolley (Conique)	Trole (Cónico)	Carrello (Conico)
	539888	1		Trolley (Flat 3-5")	Wagen (Flach)	Trolley (Plat)	Trole (Plano)	Carrello (Piatto)
	543531	1		Trolley (Flat 5-7")	Wagen (Flach)	Trolley (Plat)	Trole (Plano)	Carrello (Piatto)
	539889	1		Trolley (Narrow 2")	Wagen (Schmal)	Trolley (Etroit)	Trole (Angosto)	Carrello (Stretto)
P2TA44L...								
7	539890	1		Trolley (Taper 3-5")	Wagen (Konisch)	Trolley (Conique)	Trole (Cónico)	Carrello (Conico)
	543532	1		Trolley (Taper 5-7")	Wagen (Konisch)	Trolley (Conique)	Trole (Cónico)	Carrello (Conico)
	539821	1		Trolley (Flat 3-5")	Wagen (Flach)	Trolley (Plat)	Trole (Plano)	Carrello (Piatto)
	543533	1		Trolley (Flat 5-7")	Wagen (Flach)	Trolley (Plat)	Trole (Plano)	Carrello (Piatto)
	539891	1		Trolley (Narrow 2")	Wagen (Schmal)	Trolley (Etroit)	Trole (Angosto)	Carrello (Stretto)

#) 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



Spark Resistant Trolley Assembly



Spark Resistant Trolley Assembly (parts)

Illustration "J" - Spark Resistant Trolley Assembly

Index	Number	#	•	EN	DE	FR	ES	IT
				Description	Benennung	Designation	Descripción	Descrizione
1	Table "J"	1		Side Plate (right)	seitliche Platte	Plaque de serrage	Placa lateral	Piastra laterale
2	Table "J"	1		Side Plate (left)	seitliche Platte	Plaque de serrage	Placa lateral	Piastra laterale
3	530336	2		Caution Plate	Achtungsschild	Plaque d'avertissement	Placa de instrucciones	Piastra di protezione
4	534820	10		Drive Screw	Triebsschraube	Vis d'entraînement	Clavo de rosca	Vite di trasmissione
5	504809	36		Washer	Scheibe	Rondelle	Arandela	Rondella
6	504810	4		Washer	Scheibe	Rondelle	Arandela	Rondella
7	Table "J"	2		Stud	Bolzen	Goujon	Espárrago	Perno sporgente
8	800141	4		Retaining Ring	Sicherungsring	Anneau de fixation	Anillo de retención	Anello di fissaggio
9	Table "J"	4		Wheel Assembly	Radbaugruppe	Assemblage de roue	Ensamblaje de rueda	Gruppo mole
10	526529	4		Bearing	Lager	Coussinet	Cojinete	Cuscinetto
11	503406	4		Retaining Ring	Sicherungsring	Anneau de fixation	Anillo de retención	Anello di fissaggio
12	25993	2		Capacity Plate	Kapazitätschild	Plaque signalétique	Placa de capacidad	Piattello capacitivo
13	C105B	4		Nut	Mutter	Ecrou	Tuerca	Dado
14	W183	4		Lock Washer	Scheibe	Rondelle	Arandela	Rondella

#) Quantity / Stückzahl / Quantité / Cantidad / Quantità

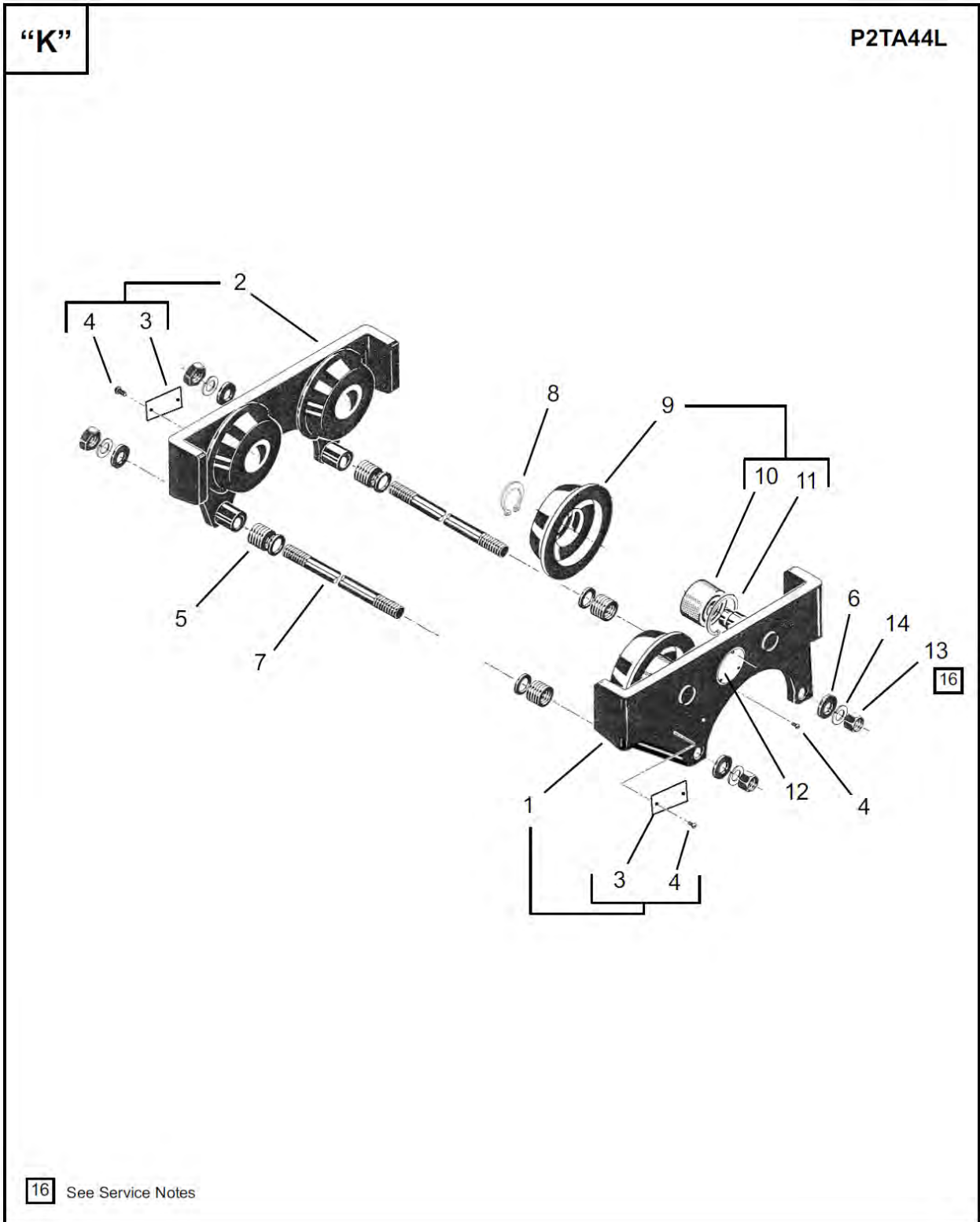
• Recommended Spare Parts / Kennzeichnet empfohlenes / Identifica un particolare di ricambio raccomandato / Designa el repuesto recomendado / Indique la pièce de rechange conseillée

Table "J"

Index	Description	P2TA30L				
		3000 lbs.				
	Capacity					
	Trolley Assembly	539887	543530	539888	543531	539889
	I-Beam Type	Standard	Standard	Patented	Patented	Patented
	Wheel Type	Taper	Taper	Flat	Flat	Narrow
	Flange Width	3"-5"	5"-7"	3"-5"	5"-7"	2"
1	Side Plate (right)	539211	541514	539211	541514	539211
2	Side Plate (left)	539212	541515	539212	541515	539212
7	Stud	508389	501348	508389	501348	508389
9	Wheel Assembly	531733	531733	535144	535144	539366



Trolley Assembly



Trolley Assembly (parts)

Illustration "K" - Trolley Assembly

Index	Number	#	·	EN	DE	FR	ES	IT
				Description	Benennung	Designation	Descripción	Descrizione
1	Table "K"	1		Side Plate (right)	seitliche Platte	Plaque de serrage	Placa lateral	Piastra laterale
2	Table "K"	1		Side Plate (left)	seitliche Platte	Plaque de serrage	Placa lateral	Piastra laterale
3	530336	2		Caution Plate	Achtungsschild	Plaque d'avertissement	Placa de instrucciones	Piastra di protezione
4	534820	10		Drive Screw	Triebsschraube	Vis d'entraînement	Clavo de rosca	Vite di trasmissione
5	504809	36		Washer	Scheibe	Rondelle	Arandela	Rondella
6	504810	4		Washer	Scheibe	Rondelle	Arandela	Rondella
7	Table "K"	2		Stud	Bolzen	Goujon	Espárrago	Perno sporgente
8	800141	4		Retaining Ring	Sicherungsring	Anneau de fixation	Anillo de retención	Anello di fissaggio
9	Table "K"	4		Wheel Assembly	Radbaugruppe	Assemblage de roue	Ensamblaje de rueda	Gruppo mole
10	526529	4		Bearing	Lager	Coussinet	Cojinete	Cuscinetto
11	503406	4		Retaining Ring	Sicherungsring	Anneau de fixation	Anillo de retención	Anello di fissaggio
12	539302	2		Capacity Plate	Kapazitaetsschild	Plaque signalétique	Placa de capacidad	Piattello capacitivo
13	C105B	4		Nut	Mutter	Ecrou	Tuerca	Dado
14	W183	4		Lock Washer	Scheibe	Rondelle	Arandela	Rondella

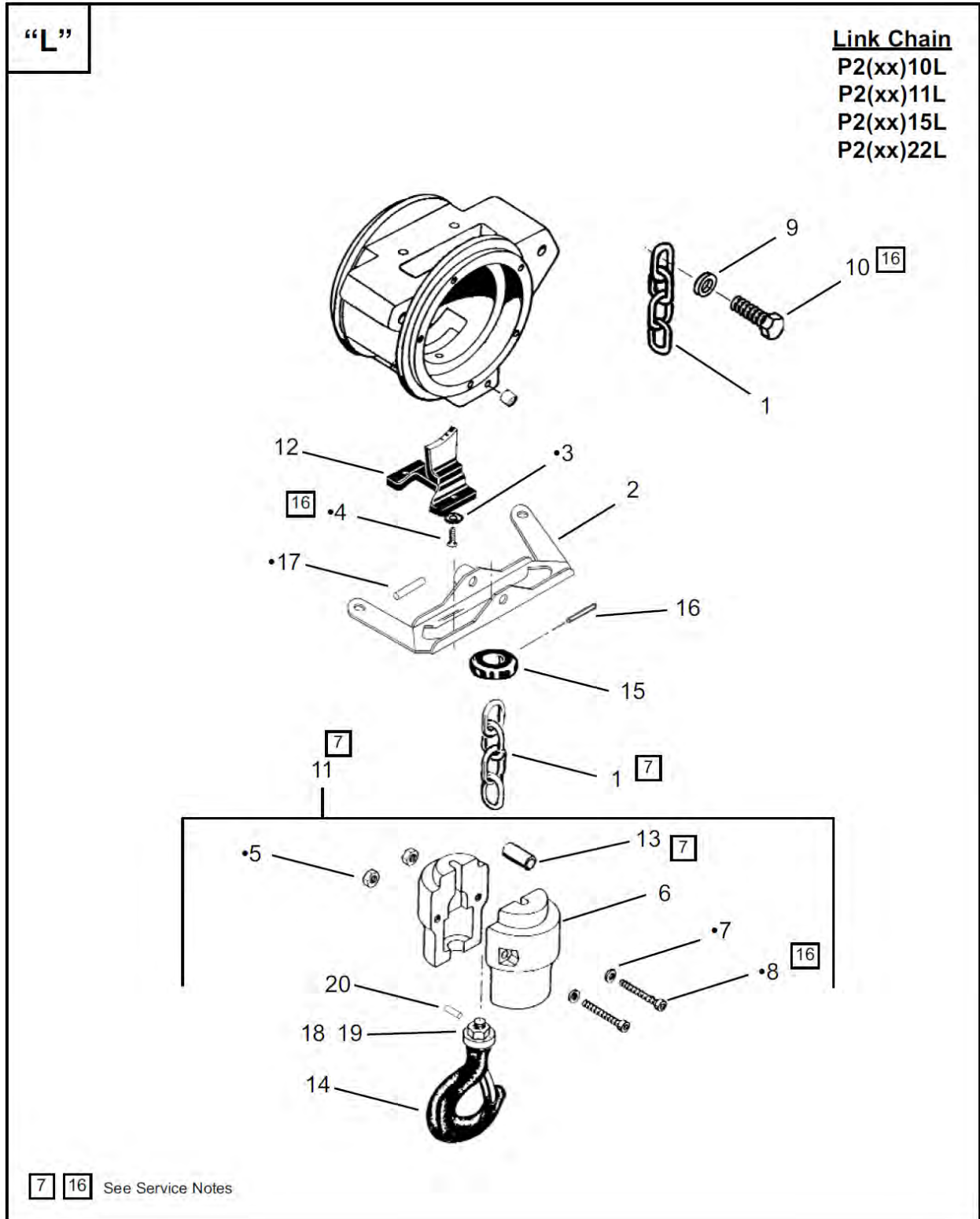
#) Quantity / Stückzahl / Quantité / Cantidad / Quantità

· 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	P2TA44L				
		4400 lbs.				
	Capacity	4400 lbs.				
	Trolley Assembly	539890	543532	539821	543533	539891
	I-Beam Type	Standard	Standard	Patented	Patented	Patented
	Wheel Type	Taper	Taper	Flat	Flat	Narrow
	Flange Width	3"-5"	5"-7"	3"-5"	5"-7"	2"
1	Side Plate (right)	539104	539775	539104	539775	539104
2	Side Plate (left)	539105	539776	539105	539776	539105
7	Stud	508389	501348	508389	501348	508389
9	Wheel Assembly	526519	526519	534387	534387	533069

Lower Hook Assembly A



Lower Hook Assembly A (parts)

Illustration "L" - Lower Hook Assembly

Index	Number	#	·	EN	DE	FR	ES	IT
				Description	Benennung	Designation	Descripción	Descrizione
1	Table "L"	--		Link Chain	Kette	Chaîne	Cadena	Catena
2	523324	1		Control Lever	Steuerhebel	Levier de commande	Palanca de control	Leva di comando
3	W136	2	4	Washer	Scheibe	Rondelle	Arandela	Rondella
4	B123X	2	4	Screw	Schraube	Vis	Tornillo	Vite
5	C102	2	4	Nut	Mutter	Ecrou	Tuerca	Dado
6	532073	2		Lower Hook Holder	Gehäuse	Corps	Caja	Corpo
7	W212	2	4	Washer	Scheibe	Rondelle	Arandela	Rondella
8	B127Y	2	4	Screw	Schraube	Vis	Tornillo	Vite
9	516712	1		Washer	Scheibe	Rondelle	Arandela	Rondella
10	B115S	1		Screw	Schraube	Vis	Tornillo	Vite
11	Table "L"	1		Lower Hook Asm.	Haken	Crochet	Gancho	Gancio
12	517536	1		Chain Stripper	Kettenstripper	Outil à dénuder des chaînes	Separador de cadena	Estrattore catena
13	532946	1		Pin	Stift	Goupille cylindrique	Pasador	Spina
14	Table "L"	1		Lower Hook	Haken	Crochet	Gancho	Gancio
15	Table "L"	1		Chain Stop	Kettenstopp	Arrêt de chaîne	Fiador de cadena	Fermo catena
16	20759	1		Pin	Stift	Goupille cylindrique	Pasador	Spina
17	RP101X	1	2	Roll Pin	Stift	Goupille cylindrique	Pasador	Spina
18	Table "L"	1		Hook Bearing	Lager	Coussinet	Cojinete	Cuscinetto
19	Table "L"	1		Hook Nut	Mutter	Ecrou	Tuerca	Dado
20	Table "L"	1		Hook Pin	Stift	Goupille cylindrique	Pasador	Spina

#) Quantity / Stückzahl / Quantité / Cantidad / Quantità
 · Recommended Spare Parts / Kennziechnet empfohlenes / Identifica un particolare di ricambio
 raccomandato / Designa el repuesto recomendado / Indique la pièce de rechange conseillée

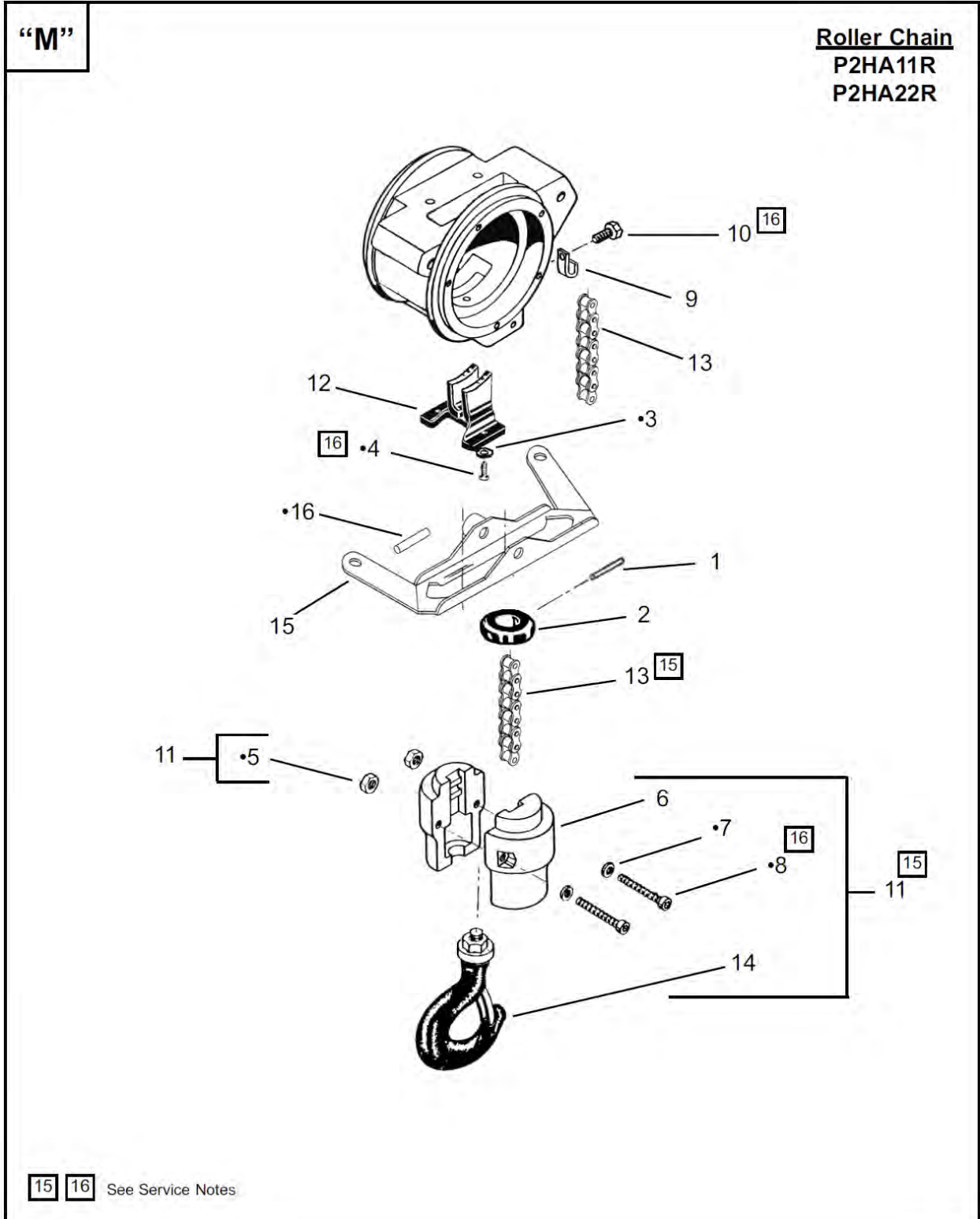
Table "L"

Index	Description	#	P2()10L	#	P2()11L
			P2()15L		P2()22L
1	Link Chain	**	541397	**	20592
	Chain-Zinc		---	**	29962
11	Lower Hook Asm. - Std.	1	533490	1	533196
	Lower Hook Asm.-Bullard	1	533194	1	533192
14	Lower Hook - Standard	1	532146	1	532074
	Lower Hook - Bullard	1	533170	1	533167
15	Chain Stop	1	A195361	1	511831
18	Hook Bearing	1	26062		---
19	Hook Nut	1	531824		---
20	Hook Pin	1	RP103S		---

** Note: Specify (xx ft.), Spezifizieren (xxM), Spécifier (xxM), Especificar (xxM), Specificare (xxM)



Lower Hook Assembly B



Lower Hook Assembly B (parts)

Illustration "M" - Lower Hook Assembly

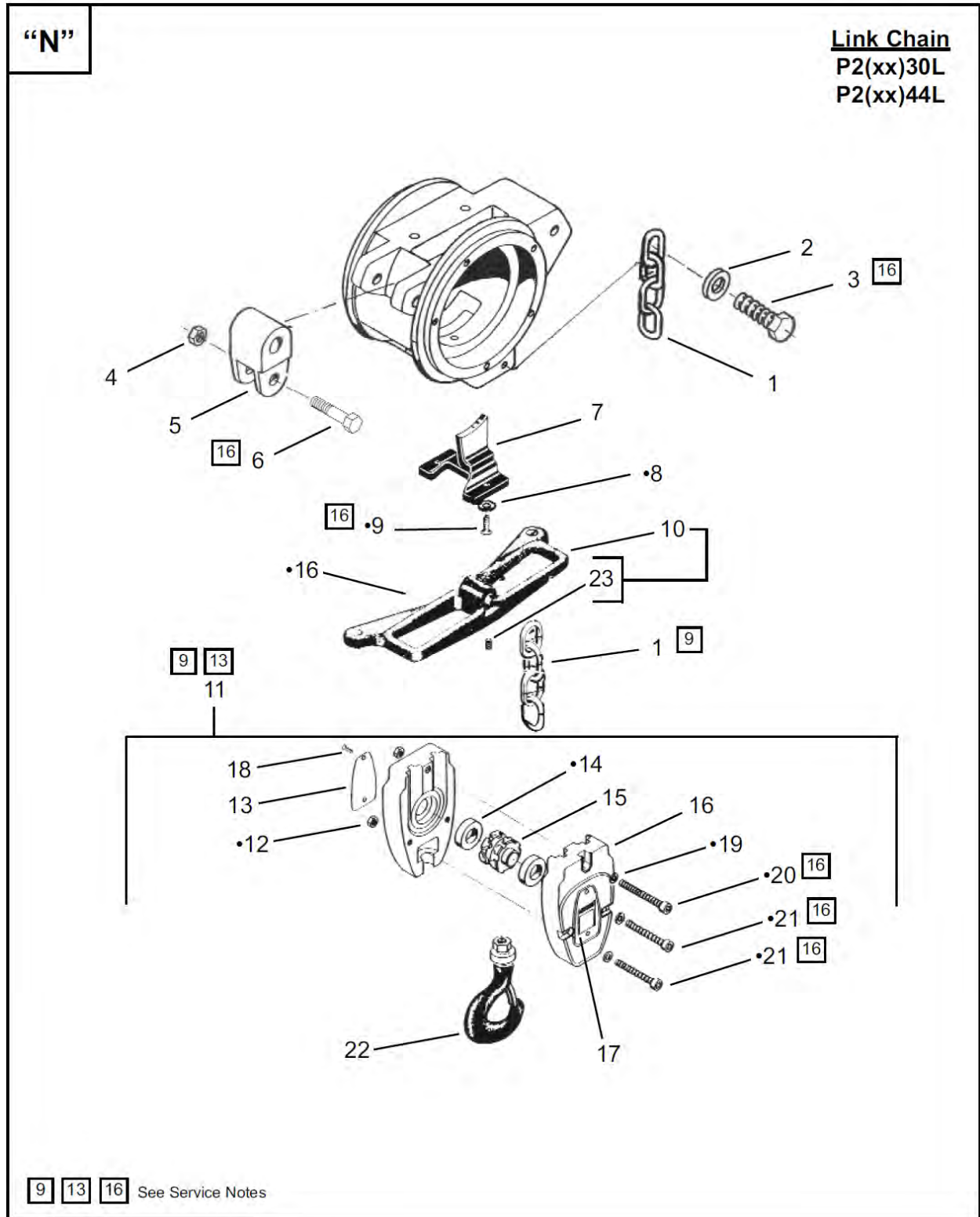
Index	Number	#	·	EN	DE	FR	ES	IT
				Description	Benennung	Designation	Descripción	Descrizione
1	E104B	1		Pin	Stift	Goupille cylindrique	Pasador	Spina
2	511831	1		Chain Stop	Kettenstopp	Arrêt de chaîne	Fiador de cadena	Fermo catena
3	W136	2	4	Washer	Scheibe	Rondelle	Arandela	Rondella
4	B123X	2	4	Screw	Schraube	Vis	Tornillo	Vite
5	C102	2	4	Nut	Mutter	Ecrou	Tuerca	Dado
6	532098	2		Lower Hook Holder	Gehäuse	Corps	Caja	Corpo
7	W212	2	4	Washer	Scheibe	Rondelle	Arandela	Rondella
8	B127Y	2	4	Screw	Schraube	Vis	Tornillo	Vite
9	532148	1		Clip	Klipp	Agrafe	Presilla	Graffa
10	B101K	1		Screw	Schraube	Vis	Tornillo	Vite
11	533197	1		Lower Hook Assembly - Std.	Haken	Crochet	Gancho	Gancio
	533193	1		Lower Hook Assembly - Bullard	Haken - Bullard	Crochet - Bullard	Gancho - Bullard	Gancio - Bullard
12	533074	1		Chain Stripper	Kettenstripper	Outil à dénuder des chaînes	Separador de cadena	Estrattore catena
13	11532	**		Roller Chain	Kette	Chaîne	Cadena	Catena
14	532074	1		Lower Hook - Std.	Haken	Crochet	Gancho	Gancio
	533167	1		Lower Hook - Bullard	Haken - Bullard	Crochet - Bullard	Gancho - Bullard	Gancio - Bullard
15	523324	1		Control Lever	Steuerhebel	Levier de commande	Palanca de control	Leva di comando
16	RP101X	1	2	Roll Pin	Stift	Goupille cylindrique	Pasador	Spina

#) Quantity / Stückzahl / Quantité / Cantidad / Quantità

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

** Note: Specify (xx ft.), Spezifizieren (xxM), Spécifier (xxM), Especificar (xxM), Specificare (xxM)

Lower Hook Assembly C



Lower Hook Assembly C (parts)

Illustration "N" - Lower Hook Assembly

Index	Number	#	·	EN	DE	FR	ES	IT
				Description	Benennung	Designation	Descripción	Descrizione
1	Table "N"	--		Link Chain	Kette	Chaîne	Cadena	Catena
2	516712	1		Washer	Scheibe	Rondelle	Arandela	Rondella
3	B115S	1		Screw	Schraube	Vis	Tornillo	Vite
4	C101H	1		Nut	Mutter	Ecrou	Tuerca	Dado
5	532185	1		Adapter	Zwischenstück	Adaptateur	Adaptador	Adattatore
6	20628	1		Bolt	Bolzen	Boulon	Perno	Dado
7	517536	1		Chain Stripper	Kettenstripper	Outil à dénuder des chaînes	Separador de cadena	Estrattore catena
8	W136	2	4	Washer	Scheibe	Rondelle	Arandela	Rondella
9	B123X	2	4	Screw	Schraube	Vis	Tornillo	Vite
10	A24443	1		Control Lever	Steuerhebel	Levier de commande	Palanca de control	Leva di comando
11	Table "N"	1		Lower Hook Asm.	Haken	Crochet	Gancho	Gancio
12	C102	3	6	Nut	Mutter	Ecrou	Tuerca	Dado
13	Table "N"	1		Capacity Plate	Kapazitaetsschild	Plaque signalétique	Placa de capacidad	Piattello capacitivo
14	60613	2	4	Bearing	Lager	Coussinet	Cojinete	Cuscinetto
15	532154	1		Sprocket	Speichen	Dent de pignon	Rueda dentada	Dente di dentatura per catena
16	Table "N"	2		Lower Block	Unterer Block	Bloc inférieur	Bloque inferior	Blocco inferiore
17	532179	1		Caution Plate	Achtungsschild	Plaque d'avertissement	Placa de instrucciones	Piastra di protezione
18	534820	4		Drive Screw	Schraube	Vis	Tornillo	Vite
19	W212	3	6	Washer	Scheibe	Rondelle	Arandela	Rondella
20	B119S	1		Screw	Schraube	Vis	Tornillo	Vite
21	B127D	2		Screw	Schraube	Vis	Tornillo	Vite
22	Table "N"	1		Lower Hook	Haken	Crochet	Gancho	Gancio
23	B125K	1		Set Screw	Stellschraube	Vis de pression	Tornillo fijador	Vite di arresto

#) 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

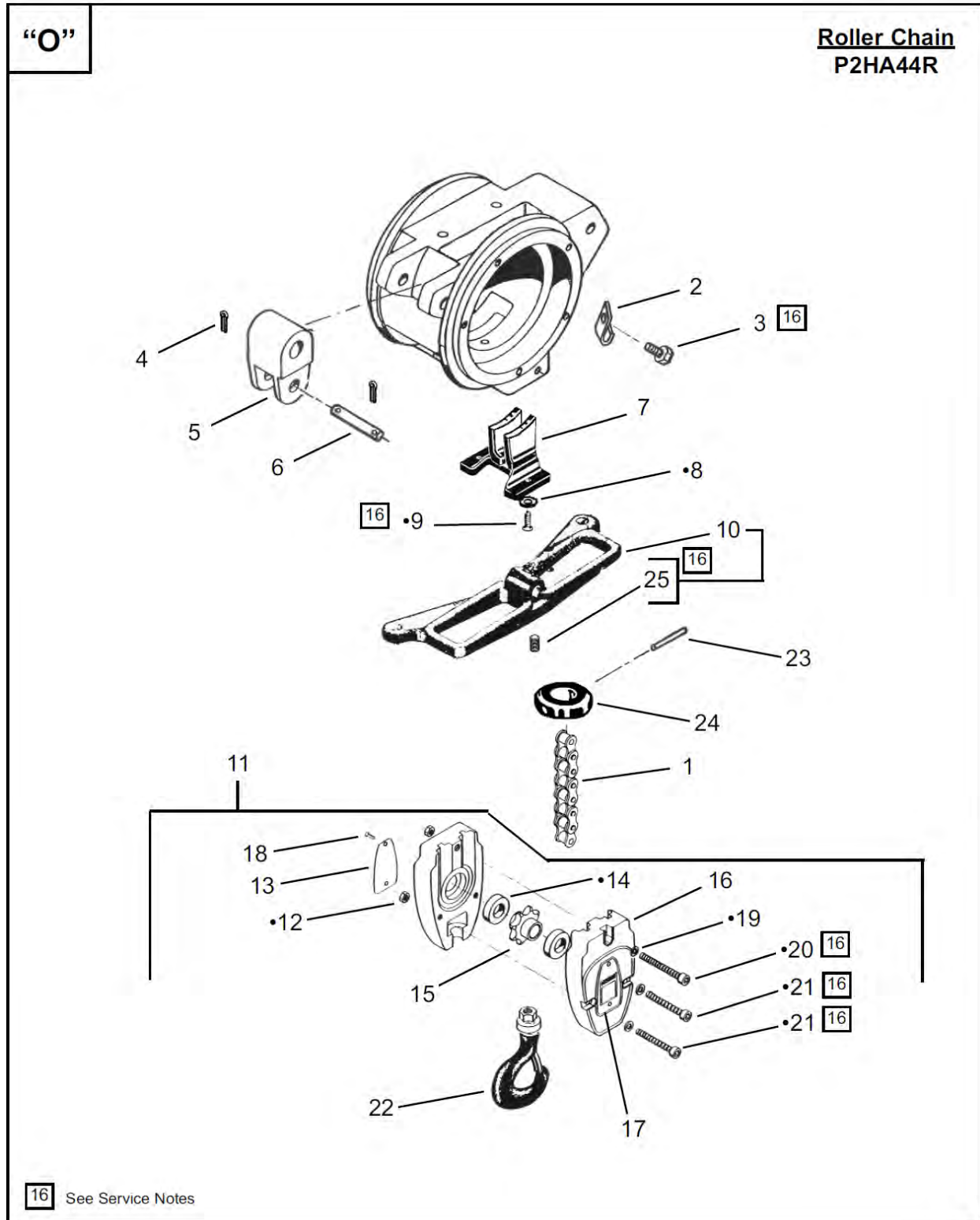
Table "N"

Index	Description	#	P2HA30L	#	P2HA44L
1	Link Chain	**	541397	**	20592
11	Lower Hook Asm.-Std.	1	532156	1	532155
	Lower Hook Asm.-Bullard	1	533157	1	533154
13	Capacity Plate	1	532806	1	532983
16	Lower Block - Standard	2	532153	2	532153
	Lower Block - Bullard	2	533496	2	533496
22	Lower Hook - Standard	1	532194	1	532177
	Lower Hook - Bullard	1	533156	1	533153

** Note: Specify (xx ft.), Spezifizieren (xxM), Spécifier (xxM), Especificar (xxM), Specificare (xxM)



Lower Hook Assembly D



Lower Hook Assembly D (parts)

Illustration "O" - Lower Hook Assembly

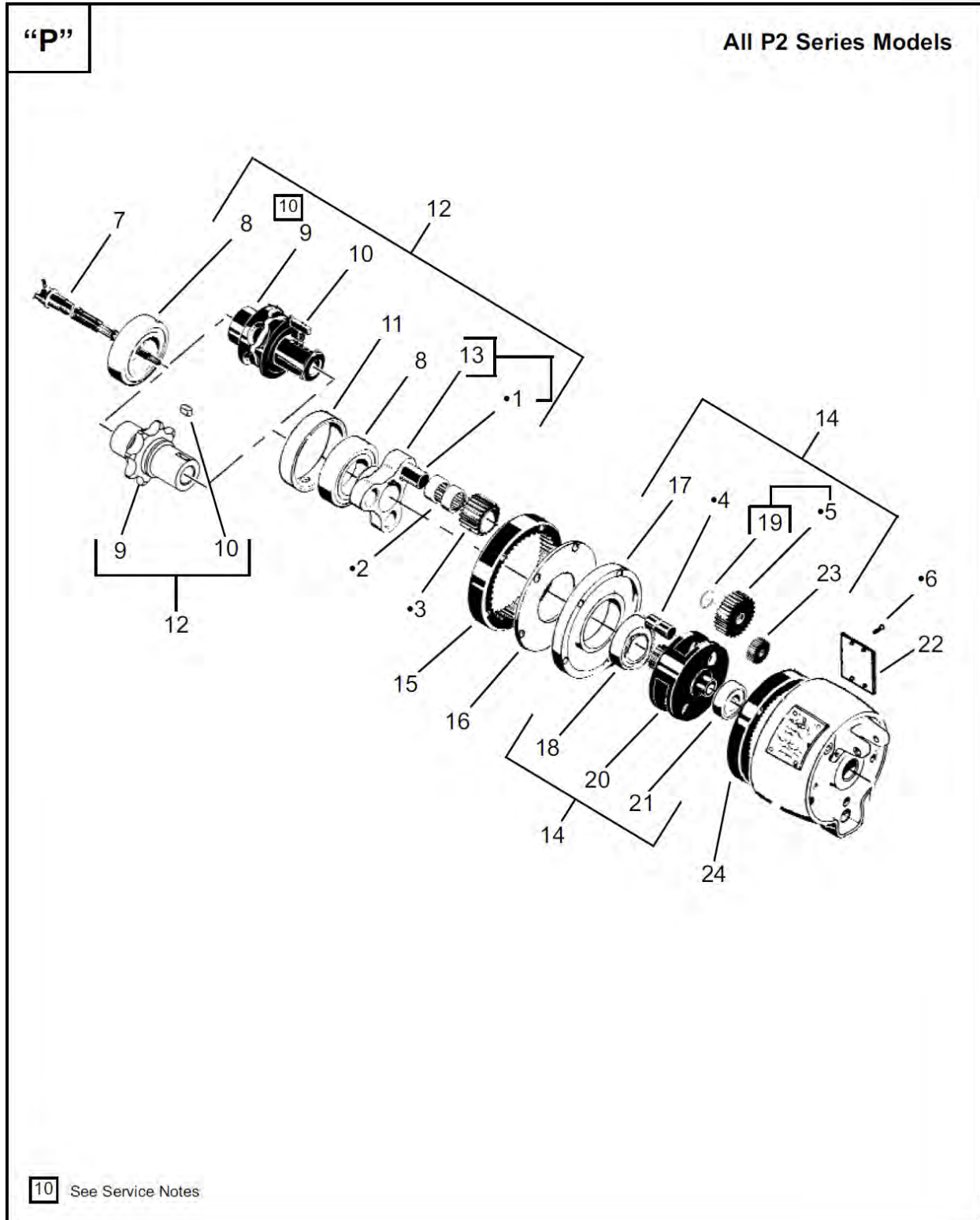
Index	Number	#	·	EN	DE	FR	ES	IT
				Description	Benennung	Designation	Descripción	Descrizione
1	11532	**		Roller Chain	Kette	Chaîne	Cadena	Catena
2	532148	1		Clip	Klipp	Agrafe	Presilla	Graffa
3	B101K	1		Screw	Schraube	Vis	Tornillo	Vite
4	P101C	2		Cotter Pin	Stift	Goupille cylindrique	Pasador	Spina
5	532176	1		Adapter	Zwischenstück	Adaptateur	Adaptador	Adattatore
6	24442	1		Pin	Stift	Goupille cylindrique	Pasador	Spina
7	533074	1		Chain Stripper	Kettenstripper	Outil à dénuder des chaînes	Separador de cadena	Estrattore catena
8	W136	2	4	Washer	Scheibe	Rondelle	Arandela	Rondella
9	B123X	2	4	Screw	Schraube	Vis	Tornillo	Vite
10	A24443	1		Control Lever	Steuerhebel	Levier de commande	Palanca de control	Leva di comando
11	532162	1		Lower Hook Asm. - Standard	Haken	Crochet	Gancho	Gancio
	533155	1		Lower Hook Asm. - Bullard	Haken - Bullard	Crochet - Bullard	Gancho - Bullard	Gancio - Bullard
12	C102	3	6	Nut	Mutter	Ecrou	Tuerca	Dado
13	532983	1		Capacity Plate	Kapazitaetsschild	Plaque signalétique	Placa de capacidad	Piattello capacitivo
14	60613	2	4	Bearing	Lager	Coussinet	Cojinete	Cuscinetto
15	532184	1		Sprocket	Speichen	Dent de pignon	Rueda dentada	Dente di dentatura per catena
16	532183	2		Lower Block - Standard	Unterer Block	Bloc inférieur	Bloque inferior	Blocco inferiore
	534835	2		Lower Block - Bullard	Unterer Block - Bullard	Bloc inférieur - Bullard	Bloque inferior - Bullard	Blocco inferiore - Bullard
17	532179	1		Caution Plate	Achtungsschild	Plaque d'avertissement	Placa de instrucciones	Piastra di protezione
18	534820	4		Drive Screw	Schraube	Vis	Tornillo	Vite
19	W212	3	6	Washer	Scheibe	Rondelle	Arandela	Rondella
20	B119S	1		Screw	Schraube	Vis	Tornillo	Vite
21	B127D	2		Screw	Schraube	Vis	Tornillo	Vite
22	532177	1		Lower Hook - Std.	Haken	Crochet	Gancho	Gancio
	533153	1		Lower Hook - Bullard	Haken - Bullard	Crochet - Bullard	Gancho - Bullard	Gancio - Bullard
23	E104B	1		Pin	Stift	Goupille cylindrique	Pasador	Spina
24	511831	1		Chain Stop	Kettenstopp	Arrêt de chaîne	Fiador de cadena	Fermo catena
25	B125K	1		Screw	Schraube	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

** Note: Specify (xx ft.), Spezifizieren (xxM), Spécifier (xxM), Especificar (xxM), Specificare (xxM)

Gearing Assembly



Gearing Assembly (parts)

Illustration "P" - Gearing Assembly

Index	Number	#	·	EN	DE	FR	ES	IT
				Description	Benennung	Designation	Descripción	Descrizione
1	11863	3	6	Shaft	Achse	Axe du vérin	Eje	Albero
2	12047	6	12	Bearing	Lager	Coussinet	Cojinete	Cuscinetto
3	A11754	3	6	Idler Gear	Zwischenzahnrad	Engrenage secondaire	Engranaje secundario	Ingranaggio intermedio
4	11788	2	4	Shaft	Achse	Axe du vérin	Eje	Albero
5	Table "P"	2	4	Idler Gear	Zwischenzahnrad	Engrenage secondaire	Engranaje secundario	Ingranaggio intermedio
6	534820	8	16	Drive Screw	Schraube	Vis	Tornillo	Vite
7	532103	1		Spindle	Spindel	Arbre	Husillo	Mandrino
8	11554L	2		Bearing	Lager	Coussinet	Cojinete	Cuscinetto
9	Table "P"	1		Sprocket	Speichen	Dent de pignon	Rueda dentada	Dente di dentatura per catena
10	11864	1		Key	Schlüssel	Clavette	Llave	Chiave
11	12112	1		Adapter Ring	Anschlußring	Anneau d'adaptateur	Anillo adaptador	Anello di collegamento
12	Table "P"	1		Sprocket Assembly	Speichen	Dent de pignon	Rueda dentada	Dente di dentatura per catena
13	A11862	1		Plate Assembly	Zwischenplatte	Plaque de roue intermédiaire	Placa intermedia	Piastra intermedia
14	Table "P"	1		Pinion Cage Asm.	Ritzelkaefigzusammenbau	Assemblage de cage à pignon	Ensamblaje de la caja de piñones	Gruppo gabbia pignone
15	11744	1		Ring Gear	Zahnkreis	Couronne dentée	Engranaje de anillos	Guarnizione ingranaggio
16	11790	1		Thrust Washer	Druckscheibe	Rondelle de butée	Arandela de empuje	Rondella di spinta
17	11801	1		Spacer	Distanzstück	Entretoise	Espaciador	Distanziale
18	11656	1		Bearing	Lager	Coussinet	Cojinete	Cuscinetto
19	11789	1		Retaining Ring	Sicherungsring	Anneau de fixation	Anillo de retención	Anello di fissaggio
20	Table "P"	1		Pinion Cage	Ritzelkaefig	Cage à pignon	Caja de piñones	Gabbia pignone
21	11655	1		Bearing	Lager	Coussinet	Cojinete	Cuscinetto
22	20659	1		Caution Plate	Achtungsschild	Plaque d'avertissement	Placa de instrucciones	Piastra di protezione
23	Table "P"	1		Pinion Gear	Ritzelgetriebe	Pignon d'entraînement	Piñon diferencial	Ingranaggio a pignone
24	11745	1		Ring Gear	Zahnkreis	Couronne dentée	Engranaje de anillos	Guarnizione ingranaggio

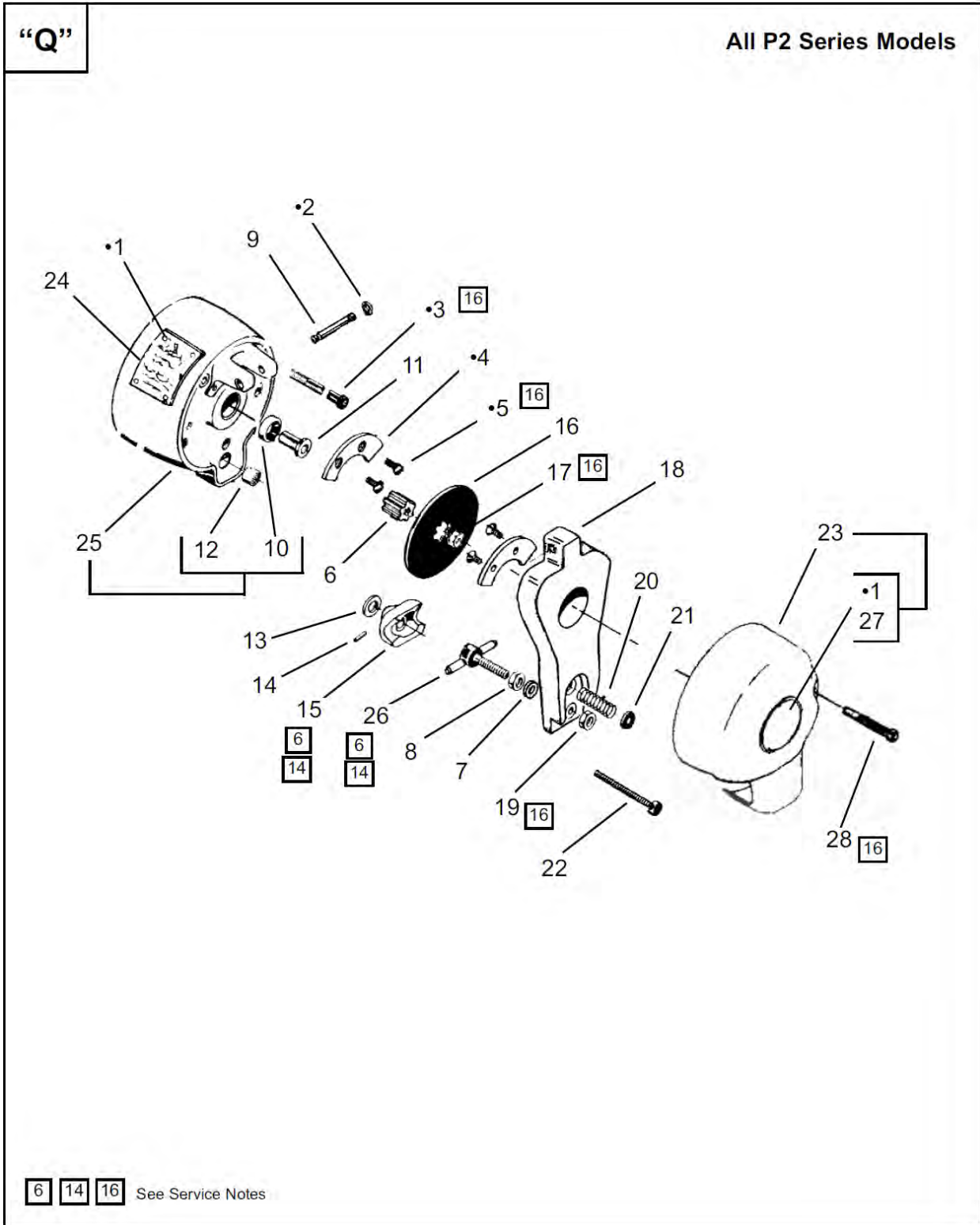
#) Quantity / Stückzahl / Quantité / Cantidad / Quantità

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

Table "P"

Index	Description	#	P2HA10L P2HA11L		P2HA11R		P2HA15L P2HA22L P2HA30L P2HA44L		P2HA22R P2HA44R	
			#		#		#		#	
	Chain Type		Link		Roller		Link		Roller	
5	Idler Gear	2	A20648	2	A20648	2	A11755	2	A11755	
9	Sprocket	1	512878	1	A11901	1	512878	1	A11901	
12	Sprocket Assembly	1	AA18966	1	AA11901	1	AA18966	1	AA11901	
14	Pinion Cage Assembly	1	AA20649	1	AA20649	1	AA19195	1	AA19195	
20	Pinion Cage	1	A20649	1	A20649	1	A19195	1	A19195	
23	Pinion Gear	1	20650	1	20650					

Brake Assembly



Brake Assembly (parts0

Illustration "Q" - Brake Assembly

Index	Number	#	·	EN	DE	FR	ES	IT
				Description	Benennung	Designation	Descripción	Descrizione
1	534820	7	14	Drive Screw	Schraube	Vis	Tornillo	Vite
2	800143	2	4	Retaining Ring	Sicherungsring	Anneau de fixation	Anillo de retención	Anello di fissaggio
3	B116L	4	8	Screw	Schraube	Vis	Tornillo	Vite
4	536464	2	4	Brake Pad	Bremsbelag	Patin de frein	Almohadilla del freno	Pattino del freno
5	B158E	4	8	Screw	Schraube	Vis	Tornillo	Vite
6	532095	1		Disc Brake Drive	Antrieb	Entraînement	Impulsión	Trasmisione
7	W144	2		Washer	Scheibe	Rondelle	Arandela	Rondella
8	C104Q	1		Nut	Mutter	Ecrou	Tuerca	Dado
9	529365	1		Pin	Stift	Goupille cylindrique	Pasador	Spina
10	11555	1		Seal	Dichtung	Sceau	Sello	Guarnizione
11	19383	1		Sleeve	Hülse	Douille	Manguito	Manicotto
12	11700	1		Bearing	Lager	Coussinet	Cojinete	Cuscinetto
13	533077	1		Washer	Scheibe	Rondelle	Arandela	Rondella
14	60229	1		Pin	Stift	Goupille cylindrique	Pasador	Spina
15	528680	1		Cam	Nocken	Came	Leva	Camma
16	528682	1		Brake Disc	Bremsscheibe	Disque de frein	Disco de freno	Disco del freno
17	C108A	1		Nut	Mutter	Ecrou	Tuerca	Dado
18	532094	1		Brake Arm	Bremsarm	Bras de frein	Brazo del freno	Braccio del freno
19	C111F	1		Nut	Mutter	Ecrou	Tuerca	Dado
20	504871	1		Spring	Druckfeder	Ressort	Resorte	Molla
21	W185	1		Washer	Scheibe	Rondelle	Arandela	Rondella
22	B115V	1		Screw	Schraube	Vis	Tornillo	Vite
23	Table "Q"	1		Brake Cover	Abdeckung der Bremse	Couvercle de frein	Cubierta de freno	Calotta del freno
24	521444	1		Caution Plate	Achtungsschild	Plaque d'avertissement	Placa de instrucciones	Piastra di protezione
25	532102	1		Clamping Plate Asm	Klemmplatte	Plaque de serrage	Placa de sujeción	Piastra di bloccaggio
26	533504	1		Brake Adjuster	Bremseinstellung	Registre du frein	Ajustador del freno	Registro del freno
27	Table "Q"	1		Capacity Plate	Kapazitaetsschild	Plaque signalétique	Placa de capacidad	Piattello capacitivo
28	B157Q	2		Screw	Schraube	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

Table "Q"

Index	Description	#	P2HA10L	#	P2HA11L P2HA11R	#	P2HA15L	#	P2HA22L P2HA22R	#	P2HA30L	#	P2HA44L P2HA44R
23	Brake Cover	1	543538	1	533184	1	533183	1	533182	1	533181	1	533180
27	Capacity Plate	1	11055	1	532982	1	19523	1	529301	1	25993	1	529302



Rope Control & Auxiliary Cable Kit

“R” A108886 Rope Control Assembly **All P2 Series Rope Control Models**

“S” 520277 & A19791 Auxiliary Cable Kit

	<u>520277 Kit</u>	<u>520277 Kit & A19791 Kit</u>
	P2HA10	P2HA30
	P2HA11	P2HA44
	P2HA15	
	P2HA22	

16 See Service Notes



Rope Control & Auxiliary Cable Kit (parts)

Illustration "R" - A108886 Rope Control Assembly

Index	Number	#	·	EN	DE	FR	ES	IT
				Description	Benennung	Designation	Descripción	Descrizione
1	10888	2		Rope (Specify xft.)	Zeil (Spezifizieren xM)	Cordage (Spécifier xM)	Cuerda (Especificar xM)	Corda (Specificare xM)
2	10886	1		Handle (Green)	Handgriff (Grün)	Poignée (Vert)	Manija (Verde)	Impugnatura (Verde)
3	10885	1		Handle (Red)	Handgriff (Rot)	Poignée (Rouge)	Manija (Rojo)	Impugnatura (Rosso)
4	A10887	1		Control Bar	Steuerstange	Barre de contrôle	Barra de control	Barra di comando
5	521743	1		Label	Aufkleber	Etiquette	Etiqueta	Etichette
6	B151L	2		Nail	Nagel	Clou	Clavo	Chiodo

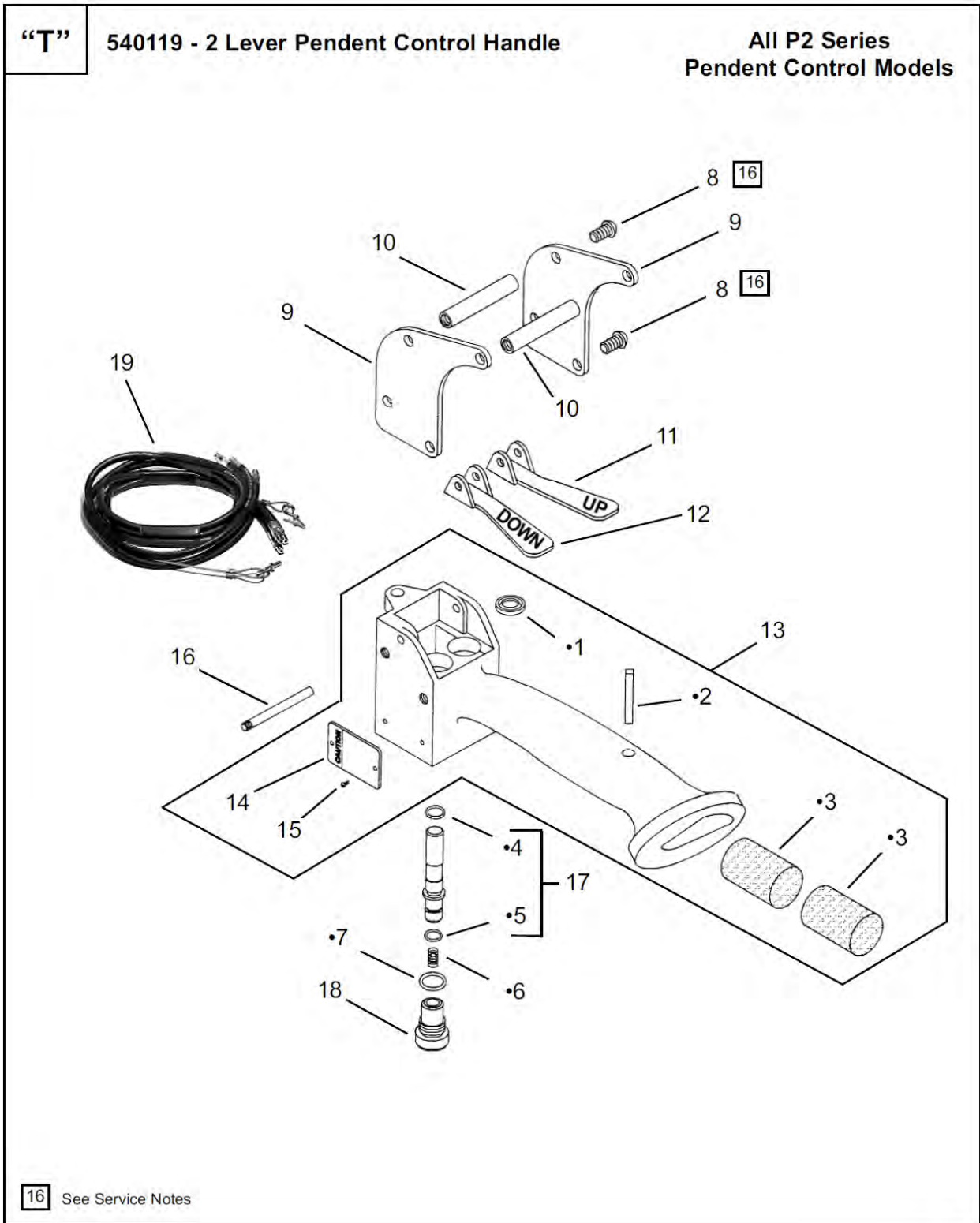
#) Quantity / Stückzahl / Quantité / Cantidad / Quantità
 · Recommended Spare Parts / Kennzeichnet empfohlenes / Identifica un particolare di ricambio
 raccomandato / Designa el repuesto recomendado / Indique la pièce de rechange conseillée

Illustration "S" - Auxiliary Cable Kit

Index	Number	#	·	EN	DE	FR	ES	IT
				Description	Benennung	Designation	Descripción	Descrizione
1	A19791	1		Auxiliary Cable Asm.	Haltekabel	Câble de fixation	Cable de sostenimiento	Cavo di supporto
2	19791	1		Cable (4 ft.)	Kabel (1,2M)	Câble (1,2M)	Cable (1,2M)	Cavo (1,2M)
3	19789	2		Clip	Klipp	Agrafe	Presilla	Graffa
4	534820	2		Drive Screw	Schraube	Vis	Tornillo	Vite
5	520275	1		Caution Plate	Achtungsschild	Plaque d'avertissement	Placa de instrucciones	Piastra di protezione

#) Quantity / Stückzahl / Quantité / Cantidad / Quantità
 · Recommended Spare Parts / Kennzeichnet empfohlenes / Identifica un particolare di ricambio
 raccomandato / Designa el repuesto recomendado / Indique la pièce de rechange conseillée

Pendent Control Handle



16 See Service Notes



Pendent Control Handle (parts)

Illustration "T" - 540119 - 2 Lever Pendent Control Handle Assembly

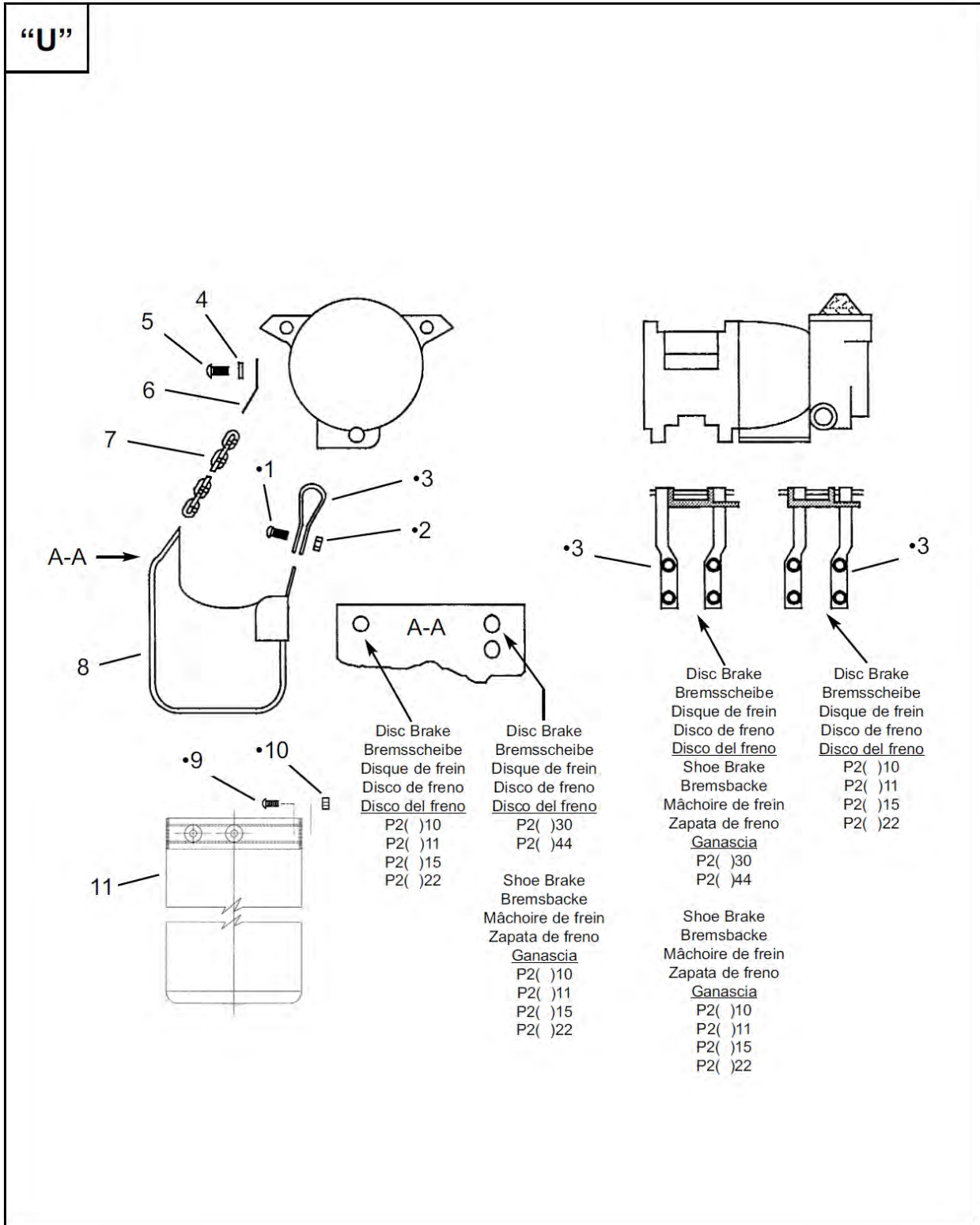
Index	Number	#	•	EN	DE	FR	ES	IT
				Description	Benennung	Designation	Descripción	Descrizione
1	539714	2	4	Seal	Dichtung	Sceau	Sello	Guarnizione
2	RP103G	1	2	Pin	Stift	Goupille cylindrique	Pasador	Spina
3	531753	2	4	Muffler	Schalldämpfer	Silencieux	Silenciador	Silenziatore
4	504970	2	4	O-Ring	O-Ring	Joint torique	Anillo "O"	Anello ad O
5	1008127	2	4	O-Ring	O-Ring	Joint torique	Anillo "O"	Anello ad O
6	511608	2	4	Spring	Druckfeder	Ressort	Resorte	Molla
7	60351	2	4	O-Ring	O-Ring	Joint torique	Anillo "O"	Anello ad O
8	B126N	8		Screw	Schraube	Vis	Tornillo	Vite
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 (Auf)	Levier (En haut)	Palanca (Arriba)	Leva (Su)
12	526276	1		Lever (DWN)	Hebel (Hinunter)	Levier (En bas)	Palanca(Hacia abajo)	Leva (Giù)
13	539409	1		Handle	Handgriff	Poignée	Manija	Impugnatura
14	521768	1		Caution Plate	Achtungsschild	Plaque	Placa de	Piastra di protezione
15	534820	2		Screw	Schraube	Vis	Tornillo	Vite
16	539834	1		Pin	Stift	Goupille cylindrique	Pasador	Spina
17	539832	2		Valve	Ventil	Soupape	Válvula	Valvola
18	511610	2		Cap	Kappe	Chapeau	Tapa	Cappello
19	526150	1		Hose (5 ft.)	Schlauch (1,5M)	Tuyau (1,5M)	Manguera (1,5M)	Tubo (1,5M)
	526151	1		Hose (10 ft.)	Schlauch (3,0M)	Tuyau (3,0M)	Manguera (3,0M)	Tubo (3,0M)
	526152	1		Hose (15 ft.)	Schlauch (4,6M)	Tuyau (4,6M)	Manguera (4,6M)	Tubo (4,6M)
	526164	1		Hose (20 ft.)	Schlauch (6,1M)	Tuyau (6,1M)	Manguera (6,1M)	Tubo (6,1M)
	529384	1		Hose (25 ft.)	Schlauch (7,6M)	Tuyau (7,6M)	Manguera (7,6M)	Tubo (7,6M)

#) 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 "U" - Chain Container Assembly

Index	Number	#	·	EN	DE	FR	ES	IT
				Description	Benennung	Designation	Descripción	Descrizione
1	B117E	4	8	Screw	Schraube	Vis	Tornillo	Vite
2	C104O	4	8	Nut	Mutter	Ecrou	Tuerca	Dado
3	29789	2	4	Strap	Riemen	Courroie	Banda	Cinghia
4	W150	1		Washer	Scheibe	Rondelle	Arandela	Rondella
5	B136N	1		Screw	Schraube	Vis	Tornillo	Vite
6	11144	1		Clip	Klipp	Agrafe	Presilla	Graffa
7	510623	1		Chain	Kette	Chaîne	Cadena	Catena
8	Table "U"	1		Chain Container	Kettenbehälter	Nacelle à chaînes	Contenedor de cadena	Contentitore catena
9	B128Q	4	8	Screw	Schraube	Vis	Tornillo	Vite
10	C105J	4	8	Nut	Mutter	Ecrou	Tuerca	Dado
11	Table "U"	1		Canvas Bag	Segeltuchbeutel	Sac de toile	Bolso de la lona	Sacchetto della tela di canapa

#) 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 "U"

Link Chain Models:

Index	Description	Lift	P2()11L P2()22L	Lift	P2()44L	Lift	P2()10L P2()15L	Lift	P2()30L
8	Chain Container	14(4,3M)	533520	--	--	--	--	--	--
	Chain Container	20(6,1M)	533521	10(3,0M)	533521	20(6,1M)	533527	10(3,0M)	533527
	Chain Container *	25(7,6M)	539415	12(3,7M)	539415	--	--	--	--
	Chain Container	40(12,2M)	533523	20(6,1M)	533523	40(12,2M)	533529	20(6,1M)	533529
	Chain Container *	40(12,2M)	539416	20(6,1M)	539416	--	--	--	--
	Chain Container	60(18,3M)	533525	30(9,1M)	533525	60(18,3M)	533531	30(9,1M)	533531
11	Canvas Bag	25(7,6M)	539414	12(3,7M)	539414	--	--	--	--
	Canvas Bag	40(12,2M)	527278	20(6,1M)	527278	--	--	--	--

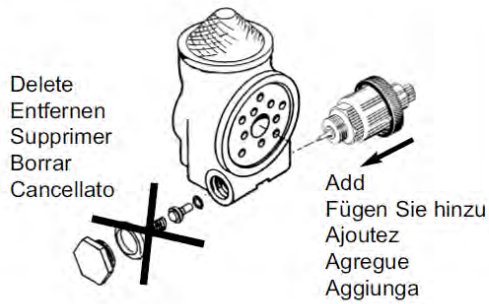
* Note: Canvas Bag / Segeltuchbeutel / Sac de toile / Bolso de la lona / Sacchetto della tela di canapa

Roller Chain Models

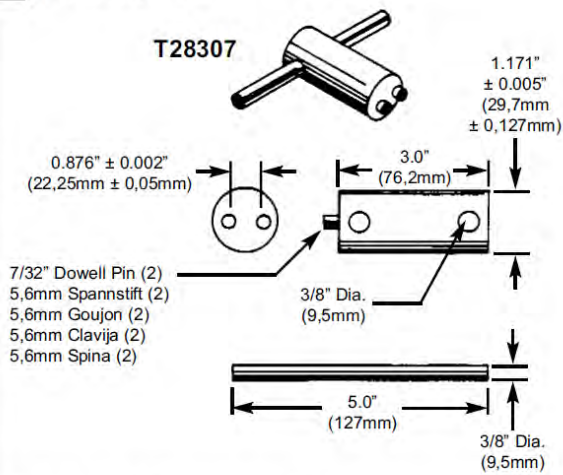
Index	Description	Lift	P2()11L P2()22L	Lift	P2()44L
8	Chain Container	12(3,7M)	533664	--	--
	Chain Container	20(6,1M)	533665	10(3,0M)	533665
	Chain Container	30(9,1M)	533666	15(4,6M)	533666
	Chain Container	40(12,2M)	533667	20(6,1M)	533667

Service Notes 1-6

1 Illustrations "A" & "B"

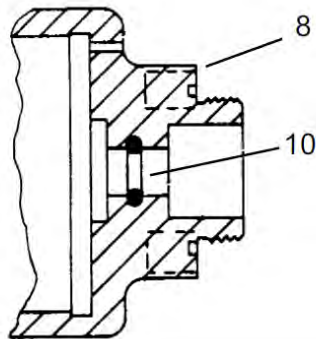


2 Illustration "A"

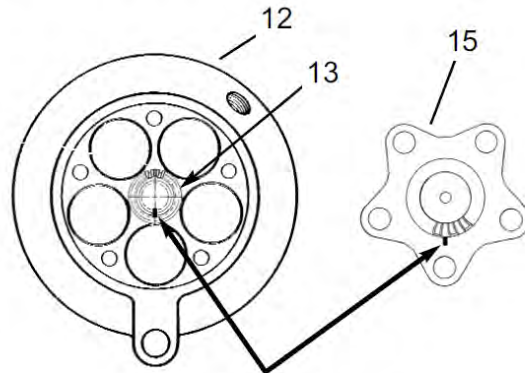


EN: Special tool to remove Valve Guide.
DE: Spezialwerkzeug, zum des Ventilführung zu entfernen.
FR: Outil spécial pour enlever le guide de valve.
ES: Herramienta especial para quitar la guía de la válvula.
IT: Utensile speciale per rimuovere la guida della valvola.

3 Illustration "B"

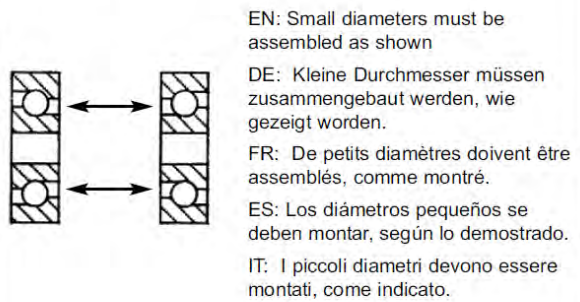


4 Illustration "C"

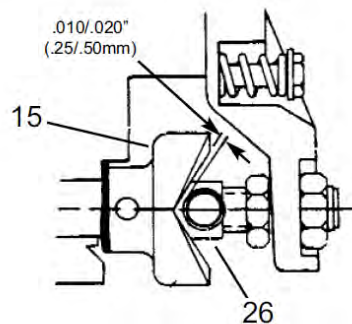


EN: Align timing marks as shown.
DE: Richten Sie Markierungen aus, wie gezeigt.
FR: Aligned les inscriptions, comme montré.
ES: Alinee las marcas, según lo demostrado.
IT: Allinei le marcature, come indicato.

5 Illustration "C"

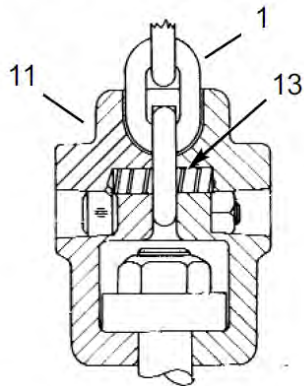


6 Illustration "Q"



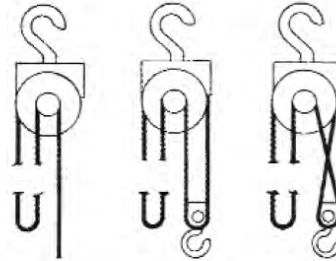
Service Notes 7-11

7 Illustration "L"

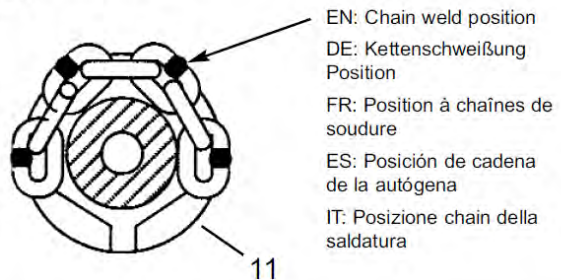


EN: Assemble with pin through chain.
DE: Bauen Sie mit Stift in der Kette zusammen.
FR: Réunissez avec la goupille dans la chaîne.
ES: Monte con el perno en la cadena.
IT: Monti con il perno nella catena.

9 Illustration "N"

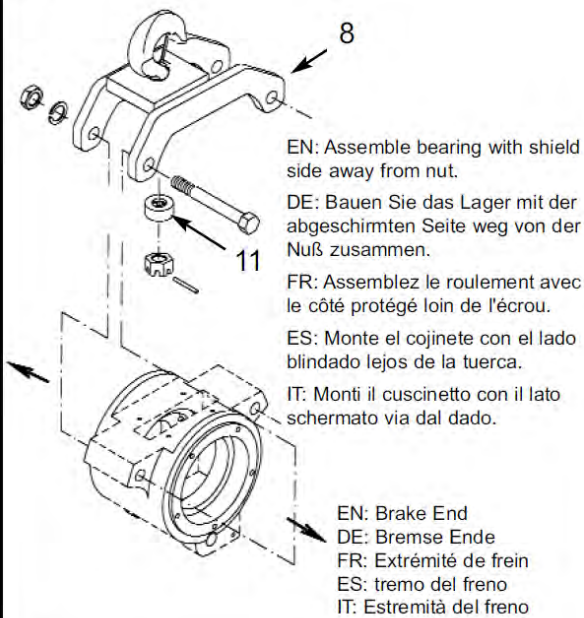


10 Illustration "P"



EN: Chain weld position
DE: Kettenschweißung Position
FR: Position à chaînes de soudure
ES: Posición de cadena de la autógena
IT: Posizione chain della saldatura

8 Illustrations "D" & "E"

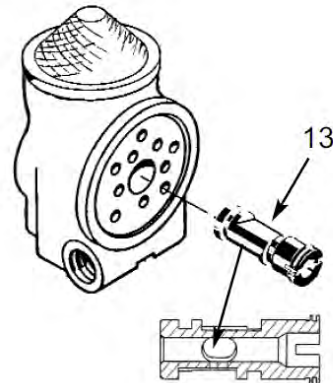


EN: Assemble bearing with shield side away from nut.
DE: Bauen Sie das Lager mit der abgeschirmten Seite weg von der Nuß zusammen.
FR: Assemblez le roulement avec le côté protégé loin de l'écrou.
ES: Monte el cojinete con el lado blindado lejos de la tuerca.
IT: Monti il cuscinetto con il lato schermato via dal dado.

EN: Brake End
DE: Bremse Ende
FR: Extrémité de frein
ES: tremo del freno
IT: Estremità del freno

EN: Assemble upper hook as shown.
DE: Bauen den oberen Haken zusammen, wie gezeigt.
FR: Assemblez les crochets supérieurs, comme montré.
ES: Monte los ganchos superiores, según lo demostrado.
IT: Monti i ganci superiori, come indicato.

11 Illustration "A"



EN: Align the distributor exhaust port with the piston at it's lowest point of stroke.

DE: Richten Sie die Verteilerabluftöffnung mit dem Kolben am niedrigsten Punkt seines Zyklus aus.

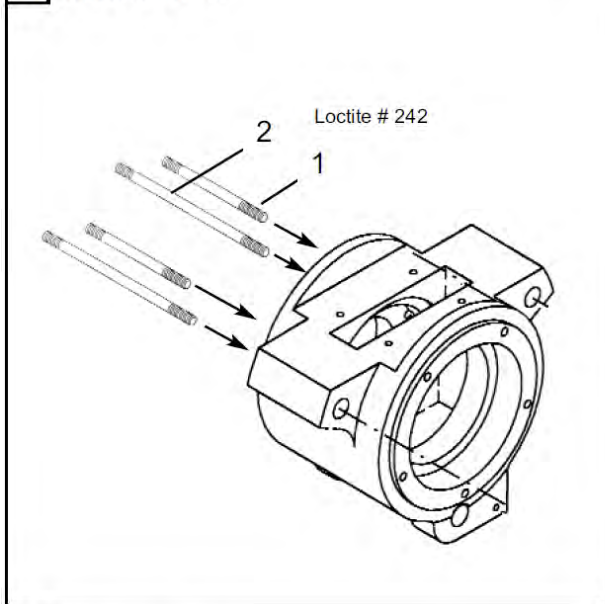
FR: Alignez le port de décharge de distributeur avec le piston au plus bas point de son cycle.

ES: Alinee el puerto de la descarga de la distribuidor con el pistón en el punto más bajo de su ciclo.

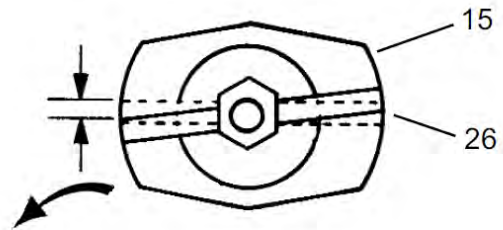
IT: Allinei l'orificio di scarico del distributore con il pistone al punto più basso del relativo ciclo.

Service Notes 12-15

12 Illustration "C"



14 Illustration "Q"



EN: If the load moves down slightly, rotate the brake adjuster, as shown, to provide power to the load before opening the brake.

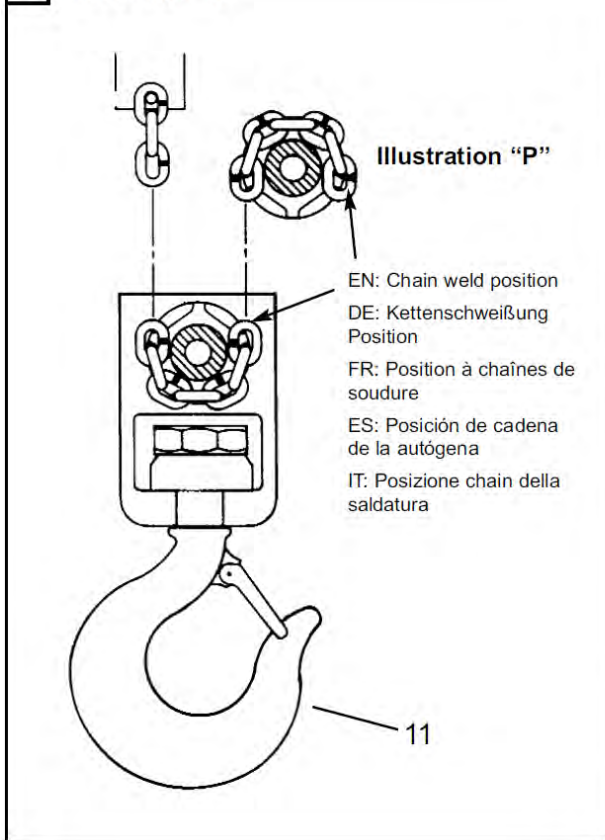
DE: Wenn die Last sich nach unten etwas bewegt, drehen Sie den Bremse Einsteller, wie gezeigt, um Energie zur Last zur Verfügung zu stellen, bevor Sie die Bremse öffnen.

FR: Si la charge abaisse légèrement, tournez le réglage de frein, comme montré, pour fournir la puissance à la charge avant d'ouvrir le frein.

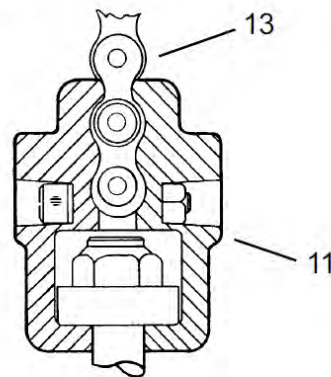
ES: Si la carga se baja levemente, rote el ajustador del freno, según lo demostrado, para proporcionar energía a la carga antes de abrir el freno.

IT: Se il carico si abbassa un po', ruoti il regolatore del freno, come indicato, per fornire l'alimentazione al carico prima dell'apertura del freno.

13 Illustration "N"



15 Illustration "M"



EN: CAUTION: Roller chain must be assembled into the lower block as shown.

DE: VORSICHT: Die Kette und der Block müssen zusammengesetzt werden, wie gezeigt worden.

FR: ATTENTION : La chaîne et le bloc doivent être assemblés, comme montré.

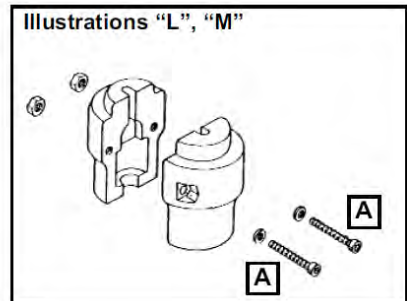
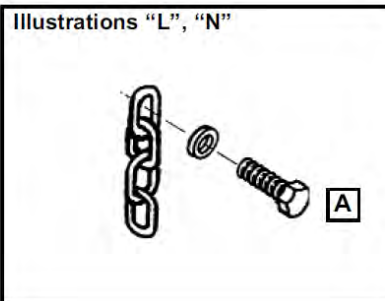
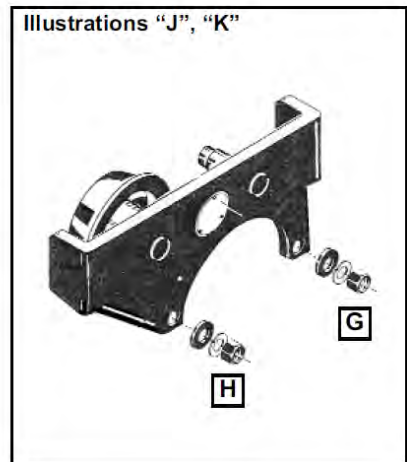
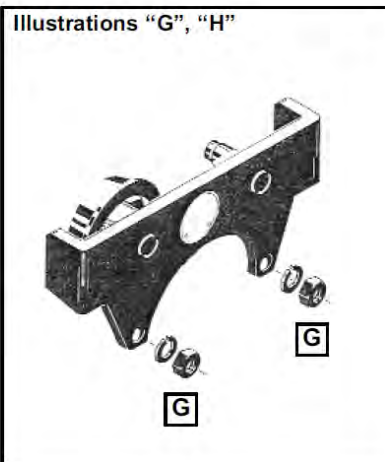
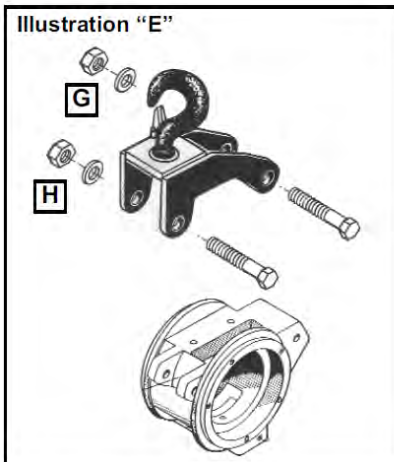
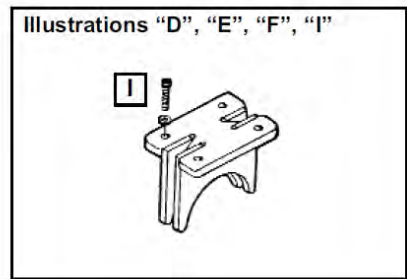
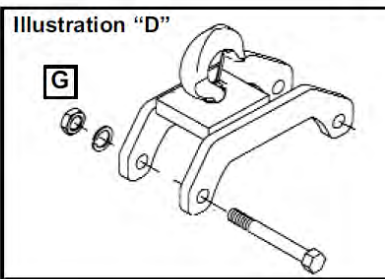
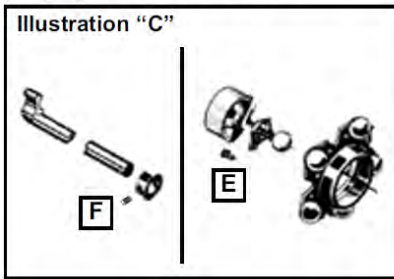
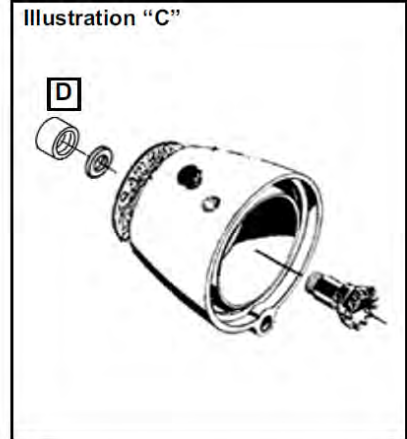
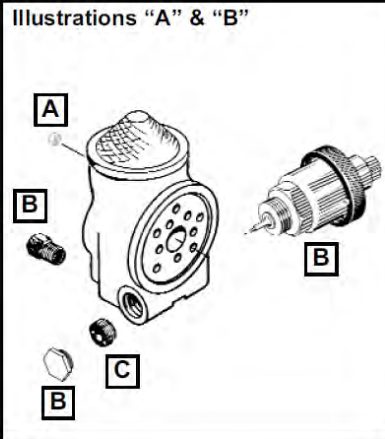
ES: PRECAUCIÓN: La cadena y el bloque se deben montar, según lo demostrado.

IT: ATTENZIONE: La catena ed il blocco devono essere montati, come indicato.

Service Notes 16

16

- A** 11-12 Ft. Lbs. (14,9-16,3 Nm)
- B** 9-10 Ft. Lbs. (12,2-13,6 Nm)
- C** 23-24 Ft. Lbs. (31,2-32,5 Nm)
- D** 45-48 Ft. Lbs. (61,0-65,1 Nm)
- E** 8-9 Ft. Lbs. (10,8-12,2 Nm)
- F** 6-7 Ft. Lbs. (8,1-9,5 Nm)
- G** 70-80 Ft. Lbs. (94,9-108,5 Nm)
- H** 20-25 Ft. Lbs. (2,6-2,8 Nm)
- I** 5-6 Ft. Lbs. (6,8-8,1 Nm)
- J** 4-5 Ft. Lbs. (5,4-6,8 Nm)
- K** 30 Ft. Lbs. (40,7 Nm)

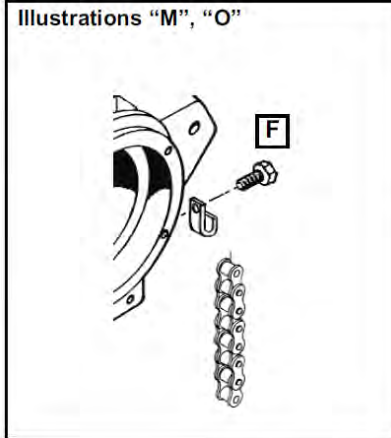


Service Notes 16 cont'd

16 Continued

- A** 11-12 Ft. Lbs. (14,9-16,3 Nm)
- B** 9-10 Ft. Lbs. (12,2-13,6 Nm)
- C** 23-24 Ft. Lbs. (31,2-32,5 Nm)
- D** 45-48 Ft. Lbs. (61,0-65,1 Nm)
- E** 8-9 Ft. Lbs. (10,8-12,2 Nm)
- F** 6-7 Ft. Lbs. (8,1-9,5 Nm)
- G** 70-80 Ft. Lbs. (94,9-108,5 Nm)
- H** 20-25 Ft. Lbs. (2,6-2,8 Nm)
- I** 5-6 Ft. Lbs. (6,8-8,1 Nm)
- J** 4-5 Ft. Lbs. (5,4-6,8 Nm)
- K** 30 Ft. Lbs. (40,7 Nm)

Illustrations "M", "O"



Illustrations "N", "O"

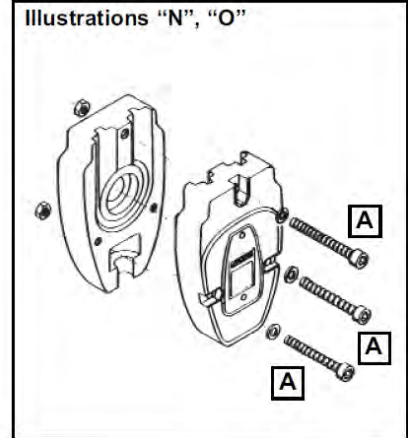


Illustration "N"

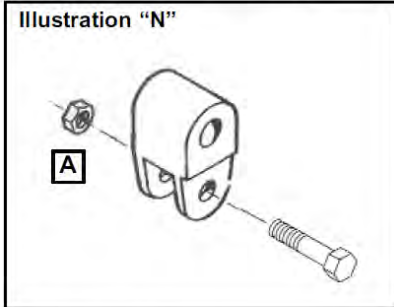


Illustration "O"

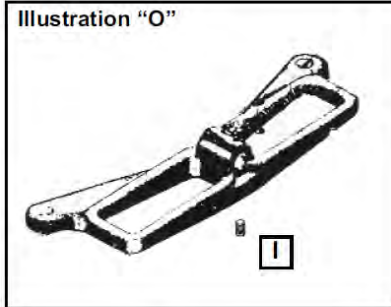


Illustration "Q"

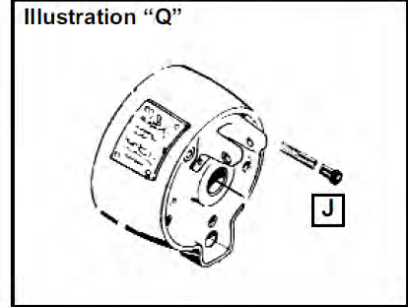


Illustration "Q"

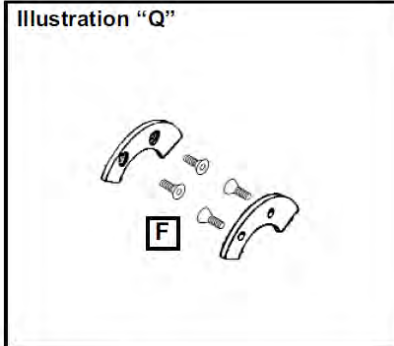


Illustration "Q"

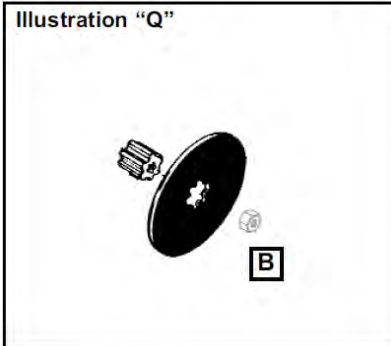


Illustration "Q"

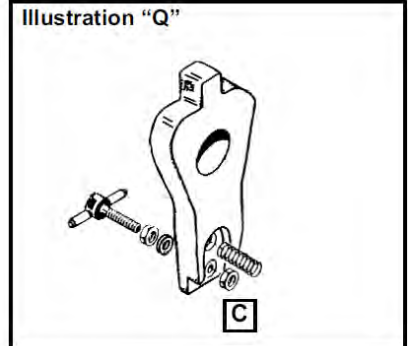


Illustration "Q"

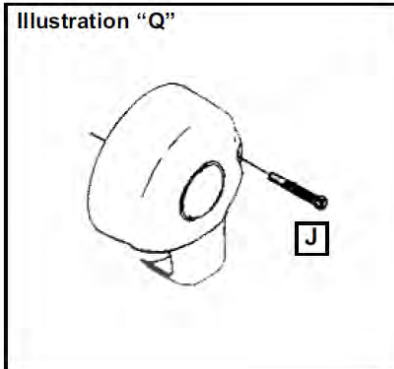


Illustration "S"

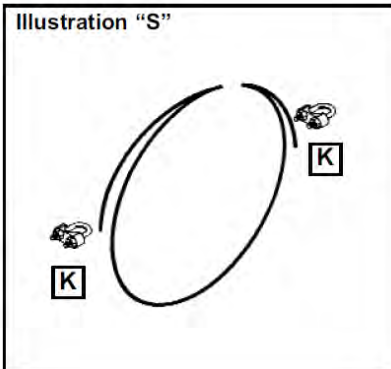
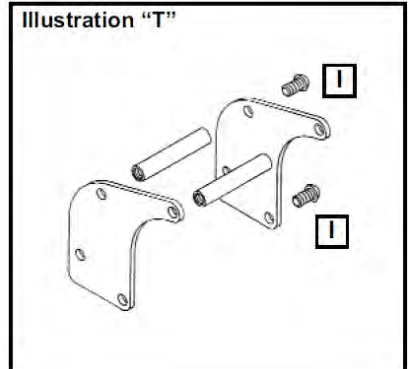


Illustration "T"



Lifting and Lowering Speeds

P2()10...P2()11...														
Air Pressure		Direction	Load											
			lbs.	kg	lbs.	kg	lbs.	kg	lbs.	kg	lbs.	kg	lbs.	kg
			0	0	200	90,7	400	181,4	600	272,2	800	362,9	1100	499,0
			Load Speed											
PSI	Kg/CM2		fpm	mpm	fpm	mpm	fpm	mpm	fpm	mpm	fpm	mpm	fpm	mpm
90	6,3	Lift	75	22,8	65	19,8	58	17,6	48	14,6	43	13,1	38	11,6
		Lower	75	22,8	83	25,3	94	28,6	100	30,5	100	30,5	107	32,6
80	5,8	Lift	75	22,8	62	18,9	54	16,5	48	14,6	41	12,5	34	10,4
		Lower	71	21,6	82	25,0	94	28,6	100	30,5	100	30,5	107	32,6
70	4,9	Lift	68	20,7	58	17,7	47	14,3	41	12,5	33	10,0	29	8,8
		Lower	68	20,7	79	24,0	88	26,8	94	28,6	100	30,5	100	30,5
60	4,2	Lift	62	18,9	48	14,6	42	12,8	37	11,3	29	8,8	22	6,7
		Lower	60	18,3	71	21,6	83	25,3	94	28,6	100	30,5	100	30,5
50	3,5	Lift	54	16,5	44	16,4	35	10,7	27	8,2	20	6,1	13	3,9
		Lower	52	15,8	62	19,9	68	20,7	83	25,3	88	26,8	94	28,6
40	2,8	Lift	43	13,1	34	10,4	27	8,2	19	5,8	12	3,6	---	---
		Lower	43	13,1	52	15,8	65	19,8	65	19,8	83	25,3	---	---

P2()15..., P2()22...														
Air Pressure		Direction	Load											
			lbs.	kg	lbs.	kg	lbs.	kg	lbs.	kg	lbs.	kg	lbs.	kg
			0	0	400	181,4	800	362,9	1200	544,3	1500	680,4	2200	997,9
			Load Speed											
PSI	Kg/CM2		fpm	mpm	fpm	mpm	fpm	mpm	fpm	mpm	fpm	mpm	fpm	mpm
90	6,3	Lift	43	13,1	36	11,0	30	9,1	25	7,6	23	7,0	19	5,8
		Lower	43	13,1	47	14,3	50	15,2	53	16,2	58	17,6	56	17,1
80	5,8	Lift	41	12,5	34	10,4	28	8,5	23	7,0	21	6,4	17	5,2
		Lower	41	12,5	47	14,3	50	15,2	52	15,8	57	17,4	55	16,8
70	4,9	Lift	40	12,2	32	9,7	26	7,9	21	6,4	19	5,8	15	4,6
		Lower	40	12,2	46	14,0	49	14,9	51	15,5	56	17,1	54	16,5
60	4,2	Lift	38	11,6	29	8,8	24	7,3	19	5,8	16	4,9	12	3,6
		Lower	38	11,6	44	13,4	47	14,3	49	14,9	56	17,1	54	16,5
50	3,5	Lift	36	11,0	26	7,9	21	6,4	16	4,9	12	3,6	---	---
		Lower	36	11,0	43	13,1	45	13,7	48	14,6	55	16,8	---	---
40	2,8	Lift	32	9,7	23	7,0	17	5,2	12	3,6	---	---	---	---
		Lower	32	9,7	39	11,9	43	13,1	47	14,3	---	---	---	---



Lifting and Lowering Speeds cont'd

P2()30..., P2()44...																				
Air Pressure		Direction	Load																	
			lbs.	kg	lbs.	kg	lbs.	kg	lbs.	kg	lbs.	kg	lbs.	kg	lbs.	kg	lbs.	kg		
			0	0	500	226,8	1000	453,6	1500	680,4	2000	907,2	2500	1134,0	3000	1360,8	3500	1587,6	4400	1995,8
PSI Kg/CM2		Load Speed																		
		fpm	mpm	fpm	mpm	fpm	mpm	fpm	mpm	fpm	mpm	fpm	mpm	fpm	mpm	fpm	mpm	fpm	mpm	
90	6,3	Lift	22	6,7	21	6,4	19	5,8	18	5,5	15	4,6	14	4,3	13	3,9	11	3,4	10	3,0
		Lower	24	7,3	24	7,3	24	7,3	25	7,6	26	7,9	26	7,9	26	7,9	27	8,2	28	8,5
80	5,8	Lift	22	6,7	20	6,1	18	5,5	17	5,2	15	4,6	13	3,9	12	3,6	10	3,0	9	2,7
		Lower	23	7,0	23	7,0	24	7,3	25	7,6	25	7,6	26	7,9	26	7,9	26	7,9	27	8,2
70	4,9	Lift	21	6,4	19	5,8	17	5,2	15	4,6	13	3,9	12	3,6	10	3,0	9	2,7	7	2,1
		Lower	21	6,4	22	6,7	23	7,0	25	7,6	25	7,6	26	7,9	26	7,9	26	7,9	26	7,9
60	4,2	Lift	19	5,8	18	5,5	16	4,9	14	4,3	11	3,4	10	3,0	9	2,7	6	1,8	----	----
		Lower	20	6,1	21	6,4	23	7,0	24	7,3	24	7,3	25	7,6	26	7,9	26	7,9	26	7,9
50	3,5	Lift	19	5,8	16	4,9	14	4,3	12	3,6	10	3,0	8	2,4	6	1,8	4	1,2	----	----
		Lower	18	5,5	20	6,1	22	6,7	23	7,0	24	7,3	25	7,6	26	7,9	26	7,9	----	----
40	2,8	Lift	16	4,9	14	4,3	11	3,4	9	2,7	7	2,1	5	1,5	----	----	----	----	----	----
		Lower	15	4,6	18	5,5	19	5,8	22	6,7	23	7,0	24	7,3	----	----	----	----	----	----





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