



Parts Manual • Ersatzteil Liste

P3 Series Piston Hoist



P3 H A 22 L P E L -- A A A 22

SERIES:

P3

MOUNTING TYPE:

H = Hook
T = Trolley

FEATURES:

A = Standard Unit P = Epoxy Paint
H = Hi Temp Grease S = Epoxy Paint/Hi Temp Grease

CAPACITY:

22 = 2200 lbs.
43 = 4300 lbs.
80 = 8000 lbs.

CHAIN TYPE:

L = Link

CONTROL TYPE:

L = Pendant (w /Hoistractor 4LVR)
P = Pendant (Standard-2LVR)
X = None-Pendant Ready

CONTROL LENGTH:

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

CAPACITY RATING (lbs.):

| | |
|-------------------|----------------|
| 11 = 1100 (22) | 43 = 4300 (43) |
| 20 = 2000 (22/43) | 50 = 5000 (80) |
| 22 = 2200 (22/43) | 60 = 6000 (80) |
| 40 = 4000 (43) | 80 = 8000 (80) |

VINTAGE:
A

LOWER HOOK:

| | |
|----------------------|------------------|
| A = Standard (22/43) | D = Bullard (80) |
| B = Bullard (22/43) | X = No Hook |
| C = Standard (80) | |

UPPER MOUNTING

Hook

A = Standard (22/43)
B = Bullard (22/43)
C = Standard (80)
D = Bullard (80)
X = No Hook

Trolley

A = 3.38-6.25" Tapered (22/43)
B = 4-6.25" Tapered (80)
C = 3.25-3.33" Narrow Flat (80)
D = 3.38-6.25" Flat (22/43)
E = 4-6.25" Flat (80)

AMOUNT OF LIFT:

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

CHAIN OPTIONS:

L = Standard Link
P = Zinc Plated Link
X = No Chain

Note: Numbers in parentheses follow ing an option, represent the hoist capacities for w hich that option is available.

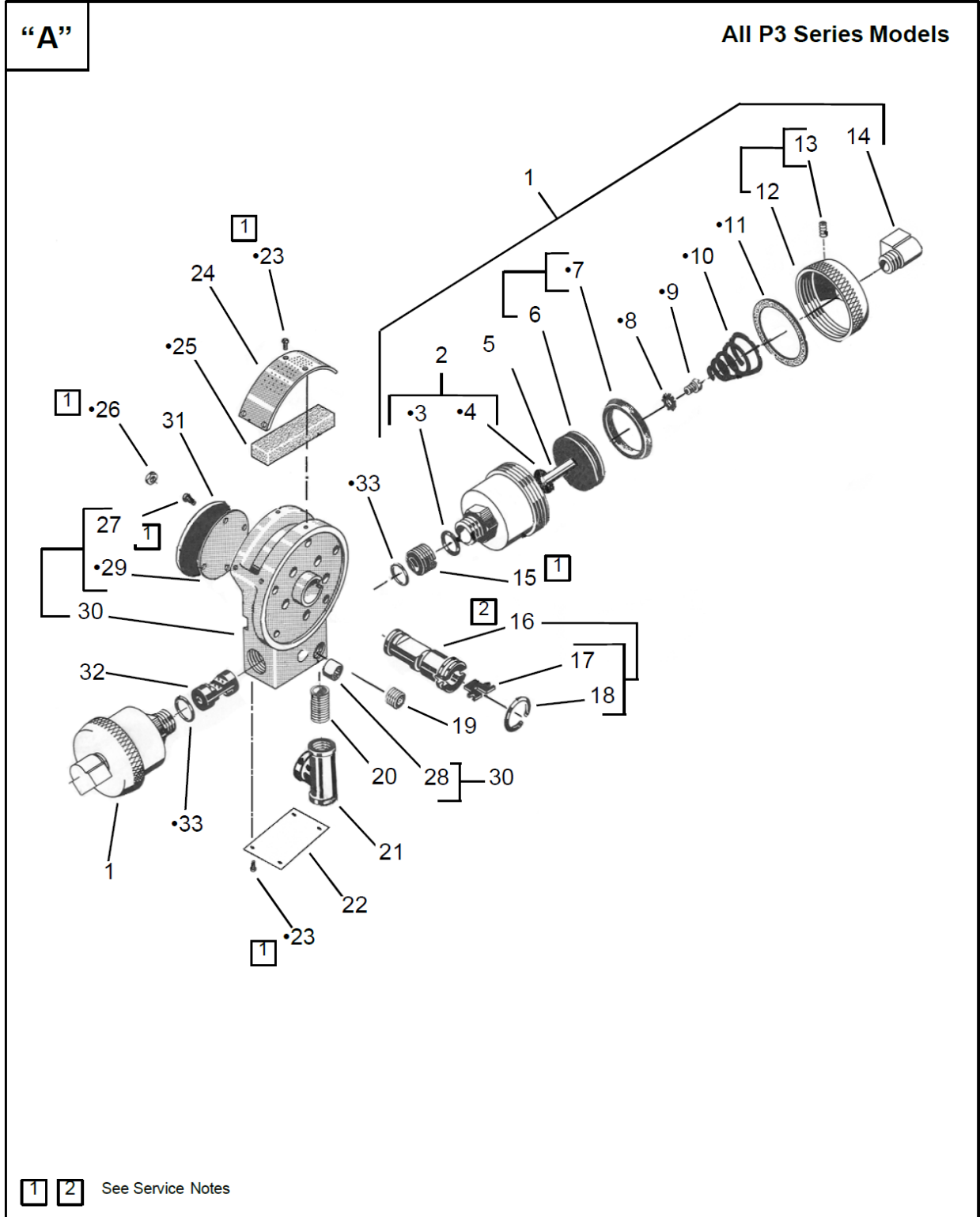


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Head & Piston Assembly



Head & Piston Assembly (parts)

Illustration "A" - Head & Piston Assembly

| Index | Number | # | - | EN | DE | FR | ES | IT |
|-------|-----------|----|----|-----------------|----------------|-----------------------|----------------------|--------------------------|
| | | | | Description | Benennung | Designation | Descripción | Descrizione |
| 1 | 522350 | 2 | | Piston Assembly | Kolben | Piston | Embolo | Pistone |
| 2 | 522349 | 2 | | Control Block | Block | Bloc | Bloque | Blocco |
| 3 | 14217 | 2 | 4 | O-Ring | O-Ring | Joint torique | Anillo "O" | Anello ad O |
| 4 | 504970 | 2 | 4 | O-Ring | O-Ring | Joint torique | Anillo "O" | Anello ad O |
| 5 | 522347 | 2 | | Rod | Stange | Tige | Varilla | Asta |
| 6 | 501934 | 2 | | Piston | Kolben | Piston | Embolo | Pistone |
| 7 | 16356 | 2 | 4 | Seal | Dichtung | Sceau | Sello | Guarnizione |
| 8 | W113 | 2 | 4 | Washer | Scheibe | Rondelle | Arandela | Rondella |
| 9 | B109F | 2 | 4 | Screw | Schraube | Vis | Tornillo | Vite |
| 10 | 515338 | 2 | 4 | Spring | Druckfeder | Ressort | Resorte | Molla |
| 11 | 27539 | 2 | 4 | Gasket | Dichtung | Joint d'étanchéité | Empaquetadura | Guarnizione |
| 12 | 515337 | 2 | | Cap | Kappe | Chapeau | Tapa | Cappello |
| 13 | B141K | 2 | | Screw | Schraube | Vis | Tornillo | Vite |
| 14 | F511 | 2 | | Elbow | Ellbogen | Coude | Codo | Curva |
| 15 | 522348 | 2 | | Adapter | Zwischenstück | Adaptateur | Adaptador | Adattatore |
| 16 | 510588 | 1 | | Distributor | Verteiler | Distributeur | Distribuidor | Distributore |
| 17 | 3V43 | 1 | | Key | Schlüssel | Clavette | Llave | Chiave |
| 18 | 3V235 | 1 | | Retaining Ring | Sicherungsring | Anneau de fixation | Anillo de retención | Anello di fissaggio |
| 19 | 813558 | 1 | | Plug | Buchse | Bouchon | Tapón | Spina |
| 20 | F517 | 1 | | Nipple | Nippel | Mamelon | Niple | Niplo |
| 21 | F594 | 1 | | Tee | T-Stück | Té | Tubo en T | Derivazione a T |
| 22 | 536891 | 1 | | Cover | Deckel | Couvercle | Cubierta | Coperchio |
| 23 | B133B | 10 | 10 | Screw | Schraube | Vis | Tornillo | Vite |
| 24 | 513113 | 1 | | Muffler Cover | Deckel | Couvercle | Cubierta | Coperchio |
| 25 | 513115 | 1 | 2 | Muffler | Schalldämpfer | Silencieux | Silenciador | Silenziatore |
| 26 | C101G | 5 | 10 | Nut | Mutter | Ecrou | Tuerca | Dado |
| 27 | B128E | 4 | | Screw | Schraube | Vis | Tornillo | Vite |
| 28 | 11700 | 1 | | Bearing | Lager | Coussinet | Cojinete | Cuscinetto |
| 29 | 517526 | 1 | 2 | Gasket | Dichtung | Joint d'étanchéité | Empaquetadura | Guarnizione |
| 30 | 514610 | 1 | | Head | Koepf | Tête | Cabezal | Testa |
| 31 | Table "A" | 1 | | Cover Assembly | Deckel | Couvercle | Cubierta | Coperchio |
| 32 | 507224 | 1 | | Reversing Valve | Umsteuerventil | Vanne de renversement | Válvula de inversión | Valvola di reversibilità |
| 33 | 15211 | 2 | 4 | O-Ring | O-Ring | Joint torique | Anillo "O" | Anello ad O |

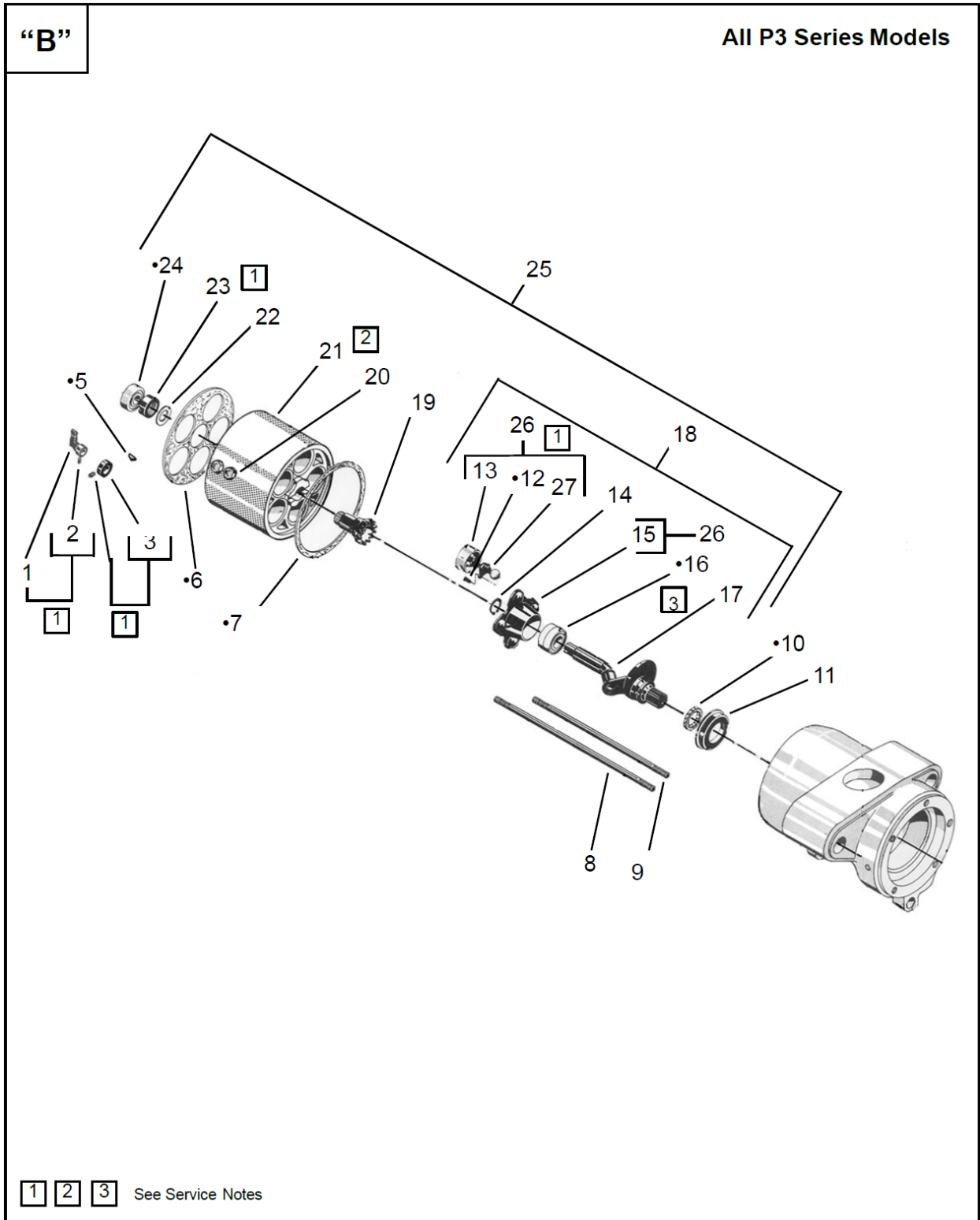
#) Quantity / Stückzahl / Quantité / Cantidad / Quantità

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

Table "A"

| Index # | Description | Qty. | P3()22L | Qty. | P3()43L | Qty. | P3()80L |
|---------|-------------|------|----------|------|----------|------|----------|
| 31 | Cover Asm | 1 | 519391 | 1 | 519392 | 1 | 519313 |

Motor Assembly



Motor Assembly (parts)

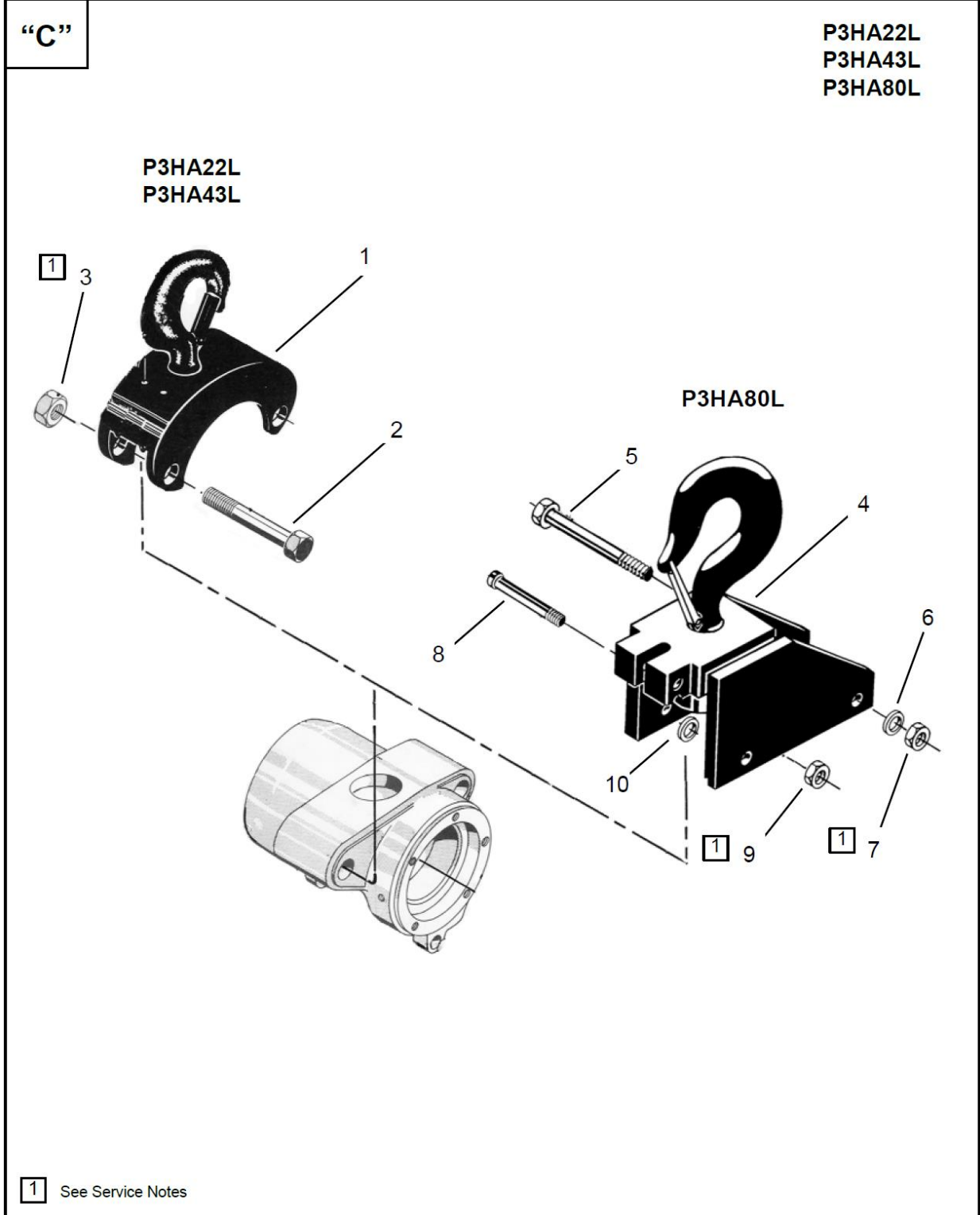
Illustration "B" - Motor Assembly

| Index | Number | # | - | EN | DE | FR | ES | IT |
|-------|--------|----|----|---------------------|------------------------------|------------------------------------|-----------------------------------|------------------------|
| | | | | Description | Benennung | Designation | Descripción | Descrizione |
| 1 | 507236 | 1 | | Control Finger | Steuerfinger | Doigt de contrôle | Dedo de control | Dente di comando |
| 2 | B118H | 1 | | Set Screw | Stellschraube | Vis de pression | Tornillo fijador | Vite di arresto |
| 3 | A12117 | 1 | | Collar | Bund | Collier | Collar | Collare |
| 4 | B141E | 1 | | Set Screw | Stellschraube | Vis de pression | Tornillo fijador | Vite di arresto |
| 5 | 10712 | 1 | 2 | Key | Schlüssel | Clavette | Llave | Chiave |
| 6 | 10012 | 1 | 2 | Gasket | Dichtung | Joint d'étanchéité | Empaquetadura | Guarnizione |
| 7 | 10011 | 1 | 2 | Gasket | Dichtung | Joint d'étanchéité | Empaquetadura | Guarnizione |
| 8 | 515330 | 2 | | Stud (Long) | Bolzen | Goujon | Espárrago | Perno sporgente |
| 9 | 507220 | 3 | | Stud (Short) | Bolzen | Goujon | Espárrago | Perno sporgente |
| 10 | 3V84 | 1 | 2 | Bearing | Lager | Coussinet | Cojinete | Cuscinetto |
| 11 | 3V82 | 1 | | Bearing Retainer | Lagergehäuse | Arrêtoir de roulement | Retén del cojinete | Gabbia del cuscinetto |
| 12 | 3V188 | 10 | 20 | Screw | Schraube | Vis | Tornillo | Vite |
| 13 | 542240 | 5 | | Piston | Kolben | Piston | Embolo | Pistone |
| 14 | 500741 | 1 | | Retaining Ring | Sicherungsring | Anneau de fixation | Anillo de retención | Anello di fissaggio |
| 15 | 507742 | 1 | | Socket Plate | Stecknussplatte | Plaque de douille | Placa de enchufe | Portapiattello |
| 16 | 507897 | 1 | 2 | Bearing | Lager | Coussinet | Cojinete | Cuscinetto |
| 17 | 513449 | 1 | | Driveshaft | Abtriebsschaft | Arbre de transmission | Eje motor | Albero motore |
| 18 | 542195 | 1 | | Driveshaft Assembly | Abtriebsschaft-zusammenbau | Assemblage d'arbre de transmission | Ensamblaje de eje motor | Gruppo albero motore |
| 19 | A3V180 | 1 | | Bevel Gear | Kegelrad | Engrenage conique | Engranaje cónico | Ingranaggio conico |
| 20 | 509621 | 2 | | Vent Fitting | Öffnung | Aération | Ventilación | Ventilazione |
| 21 | 508325 | 1 | | Cylinder | Zylinder | Cylindre | Cilindro | Cilindro |
| 22 | 3V272 | 1 | | Lock Washer | Sicherungsscheibe | Rondelle frein | Arandela de presión | Rondella di bloccaggio |
| 23 | 3V169 | 1 | | Lock Nut | Überwurfmutter | Contre-ecrou molette | Tuerca de fijación | Dado di bloccaggio |
| 24 | OG196 | 1 | 2 | Bearing | Lager | Coussinet | Cojinete | Cuscinetto |
| 25 | 542312 | 1 | | Motor Assembly | Motorbaugruppe | Ensemble du moteur | Ensamblaje del motor | Gruppo motore |
| 26 | 542241 | 1 | | Socket Plate Asm. | Stecknussplatten Zusammenbau | Assemblage de plaque de douille | Ensamblaje de la placa de enchufe | Gruppo portapiattello |
| 27 | 3V175R | 5 | | Cover Plate | Abdeckplatte | Plaque de fermeture | Placa de la cubierta | Piattello di chiusura |

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Upper Hook Assembly



Upper Hook Assembly (parts)

Illustration "C" - Upper Hook Assembly

| Index | Number | # | - | EN | DE | FR | ES | IT |
|--|--------|---|---|----------------------|-------------------|-------------------|---------------------|------------------------|
| | | | | Description | Benennung | Designation | Descripción | Descrizione |
| P3HA22L & P3HA43L Series Hoists | | | | | | | | |
| 1 | 531129 | 1 | * | Upper Hook (Std.) | Oberer Haken | Crochet supérieur | Gancho superior | Gancio superiore |
| | 531777 | 1 | * | Upper Hook (Bullard) | Oberer Haken | Crochet supérieur | Gancho superior | Gancio superiore |
| 2 | B140F | 2 | | Bolt | Bolzen | Boulon | Perno | Dado |
| 3 | C108D | 2 | | Nut | Mutter | Écrou | Tuerca | Dado |
| P3HA80L Series Hoists | | | | | | | | |
| 4 | 531874 | 1 | | Upper Hook (Std.) | Oberer Haken | Crochet supérieur | Gancho superior | Gancio superiore |
| | 537266 | 1 | | Upper Hook (Bullard) | Oberer Haken | Crochet supérieur | Gancho superior | Gancio superiore |
| 5 | B140F | 2 | | Bolt | Bolzen | Boulon | Perno | Dado |
| 6 | W231 | 2 | | Lock Washer | Sicherungsscheibe | Rondelle frein | Arandela de presión | Rondella di bloccaggio |
| 7 | C110S | 2 | | Nut | Mutter | Écrou | Tuerca | Dado |
| 8 | 530387 | 1 | | Bolt | Bolzen | Boulon | Perno | Dado |
| 9 | C110W | 1 | | Nut | Mutter | Écrou | Tuerca | Dado |
| 10 | W196 | 4 | | Spacer | Distanzstück | Entretoise | Espaciador | Distanziale |

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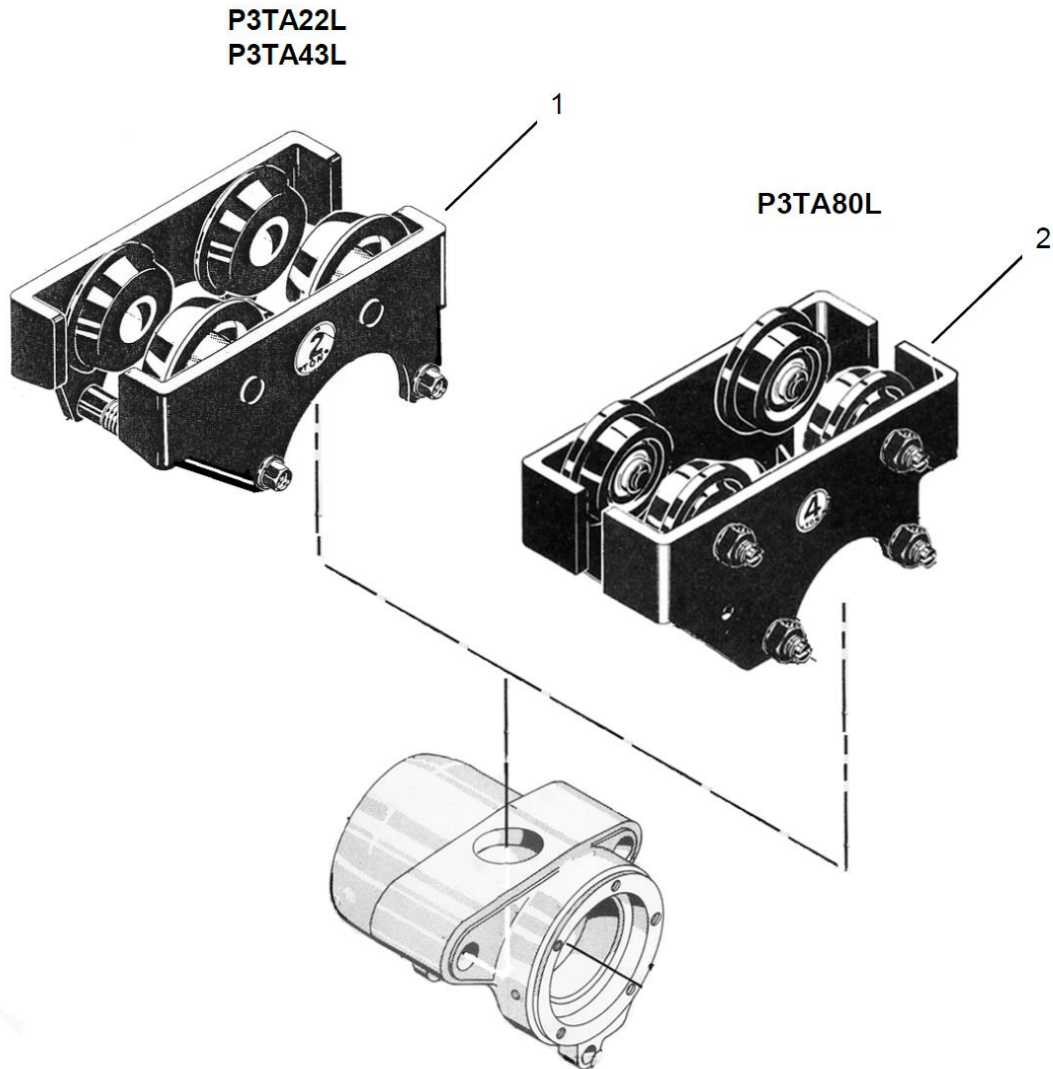
* Note: Hook Repair Kits (includes snap ring, lever, spring and pin) Bullard latch is not replaceable.

P3HA22L: Crosby Hook Repair Kit = 542386
P3HA43L: Crosby Hook Repair Kit = 542386
P3HA80L: Crosby Hook Repair Kit = 542389
P3HA22L: Bullard Hook Repair Kit = 528618
P3HA43L: Bullard Hook Repair Kit = 528618
P3HA80L: Bullard Hook Repair Kit = 528618

Trolley Mounted Hoists

“D”

P3TA22L
P3TA43L
P3TA80L



Trolley Mounted Hoists (parts)

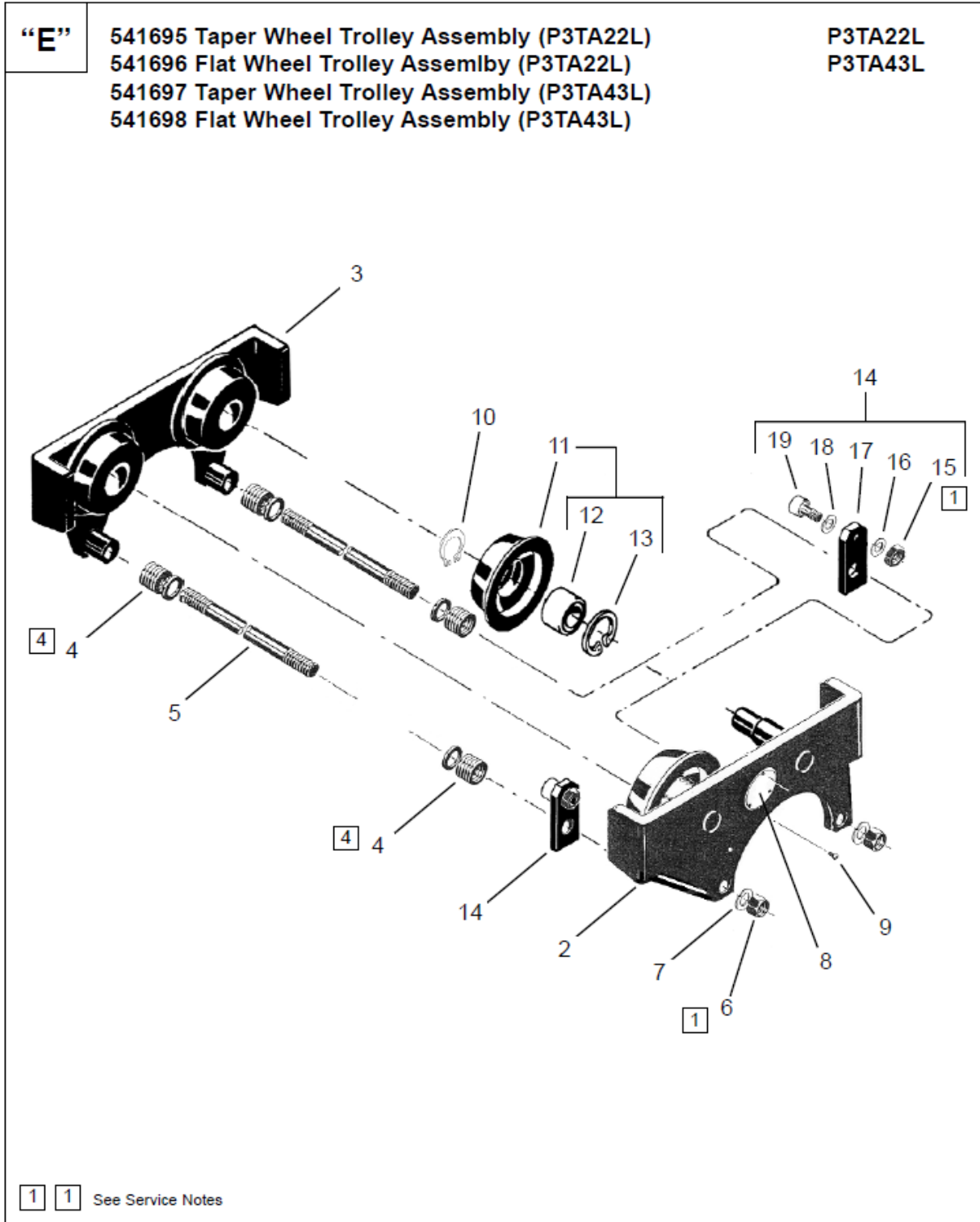
Illustration "D" - Trolley Mounted Hoists

| Index | Number | # | - | EN | DE | FR | ES | IT |
|------------------------------|--------|---|---|-------------------------------------|-----------------|-------------------|-----------------|--------------------|
| | | | | Description | Benennung | Designation | Descripción | Descrizione |
| P3TA22L Series Hoists | | | | | | | | |
| 1 | 541695 | 1 | | Trolley Assembly (Taper 3.38-6.25) | Wagen (Konisch) | Trolley (Conique) | Trole (Cónico) | Carrello (Conico) |
| | 541696 | 1 | | Trolley Assembly (Flat 3.38-6.25) | Wagen (Flach) | Trolley (Plat) | Trole (Plano) | Carrello (Piatto) |
| P3TA43L Series Hoists | | | | | | | | |
| 1 | 541697 | 1 | | Trolley Assembly (Taper 3.38-6.25) | Wagen (Konisch) | Trolley (Conique) | Trole (Cónico) | Carrello (Conico) |
| | 541698 | 1 | | Trolley Assembly (Flat 3.38-6.25) | Wagen (Flach) | Trolley (Plat) | Trole (Plano) | Carrello (Piatto) |
| P3TA80L Series Hoists | | | | | | | | |
| 2 | 543541 | 1 | | Trolley Assembly (Taper 4-6.25) | Wagen (Konisch) | Trolley (Conique) | Trole (Cónico) | Carrello (Conico) |
| 2 | 543542 | 1 | | Trolley Assembly (Flat 4-6.25) | Wagen (Flach) | Trolley (Plat) | Trole (Plano) | Carrello (Piatto) |
| 2 | 517470 | 1 | | Trolley Assembly (Narrow 3.25-3.33) | Wagen (Schmal) | Trolley (Etroit) | Trole (Angosto) | Carrello (Stretto) |

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Trolley Assembly A



Trolley Assembly A (parts)

Illustration "E" - Trolley Assembly

| Index | Number | # | - | EN | DE | FR | ES | IT |
|-------|-----------|----|---|---------------------|-------------------|---------------------|---------------------|------------------------|
| | | | | Description | Benennung | Designation | Descripción | Descrizione |
| 1 | Table "E" | 1 | | Trolley Assembly | Wagen | Trolley | Trole | Carrello |
| 2 | 539234 | 1 | | Side Plate (Right) | seitliche Platte | Plaque de serrage | Placa lateral | Piastra laterale |
| 3 | 539235 | 1 | | Side Plate (Left) | seitliche Platte | Plaque de serrage | Placa lateral | Piastra laterale |
| 4 | W196 | 52 | | Washer | Scheibe | Rondelle | Arandela | Rondella |
| 5 | 512400 | 2 | | Stud | Bolzen | Goujon | Espárrago | Perno sporgente |
| 6 | C110S | 4 | | Nut | Mutter | Ecrou | Tuerca | Dado |
| 7 | W231 | 4 | | Lock Washer | Sicherungsscheibe | Rondelle frein | Arandela de presión | Rondella di bloccaggio |
| 8 | Table "E" | 2 | | Capacity Plate | Kapazitaetsschild | Plaque signalétique | Placa de capacidad | Piattello capacitivo |
| 9 | 534820 | 6 | | Screw | Schraube | Vis | Tornillo | Vite |
| 10 | 800141 | 4 | | Retaining Ring | Sicherungsring | Anneau de fixation | Anillo de retención | Anello di fissaggio |
| 11 | Table "E" | 4 | | Wheel Assembly | Radbaugruppe | Assemblage de roue | Ensamblaje de rueda | Gruppo mole |
| 12 | 526529 | 4 | | Bearing | Lager | Coussinet | Cojinete | Cuscinetto |
| 13 | 503406 | 4 | | Retaining Ring | Sicherungsring | Anneau de fixation | Anillo de retención | Anello di fissaggio |
| 14 | 526659 | 2 | | Roller Bracket Asm. | Rolle | Rouleau | Cilindro | Rullo |
| 15 | C101J | 2 | | Nut | Mutter | Ecrou | Tuerca | Dado |
| 16 | W194 | 2 | | Lock Washer | Sicherungsscheibe | Rondelle frein | Arandela de presión | Rondella di bloccaggio |
| 17 | 526323 | 2 | | Bracket | Klammer | Support | Soporte | Staffa |
| 18 | W198 | 2 | | Spacer Washer | Scheibe | Rondelle | Arandela | Rondella |
| 19 | 807702 | 2 | | Cam Follower | Nocken | Came | Leva | Camma |

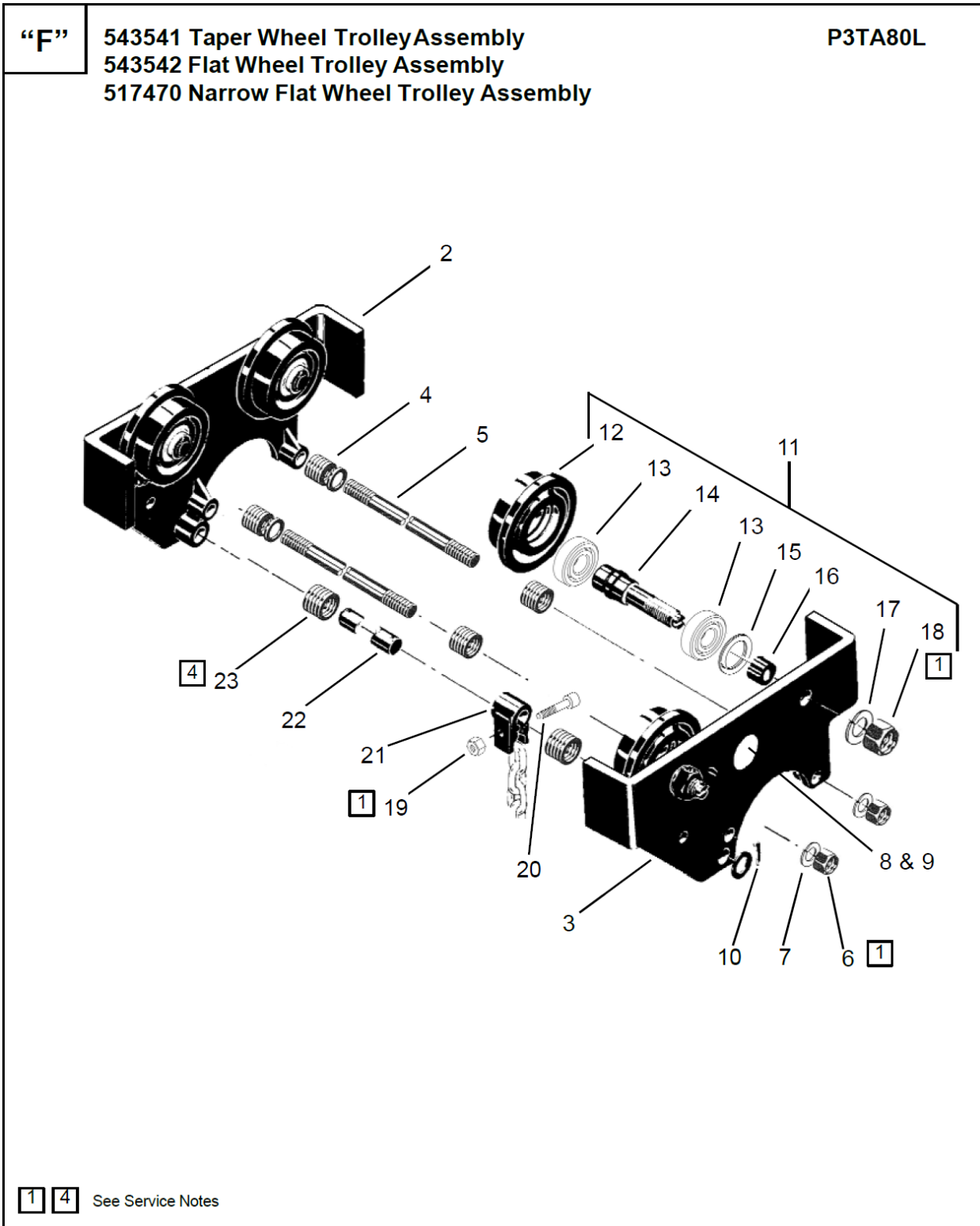
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Table "E"

| Index # | Description | Qty. | P3TA22L | | Qty. | P3TA43L | |
|---------|------------------|------|---------|--------|------|---------|--------|
| | | | Taper | Flat | | Taper | Flat |
| 1 | Trolley Assembly | 1 | 541695 | 541696 | 1 | 541697 | 541698 |
| 8 | Capacity Plate | 2 | 528259 | 528259 | 2 | 526545 | 526545 |
| 11 | Wheel Assembly | 4 | 526519 | 534387 | 4 | 526519 | 534387 |

Trolley Assembly B



1 4 See Service Notes



Trolley Assembly B (parts)

Illustration "F" - Trolley Assembly

| Index | Number | # | - | EN | DE | FR | ES | IT |
|-------|-----------|----|---|--------------------|-------------------|----------------------|---------------------|------------------------|
| | | | | Description | Benennung | Designation | Descripción | Descrizione |
| 1 | Table "F" | 1 | | Trolley Assembly | Wagen | Trolley | Trole | Carrello |
| 2 | Table "F" | 1 | | Side Plate (Right) | seitliche Platte | Plaque de serrage | Placa lateral | Piastra laterale |
| 3 | Table "F" | 1 | | Side Plate (Left) | seitliche Platte | Plaque de serrage | Placa lateral | Piastra laterale |
| 4 | Table "F" | -- | | Washer | Scheibe | Rondelle | Arandela | Rondella |
| 5 | 512420 | 2 | | Stud | Bolzen | Goujon | Espárrago | Perno sporgente |
| 6 | C110S | 4 | | Nut | Mutter | Ecrou | Tuerca | Dado |
| 7 | W231 | 4 | | Lock Washer | Sicherungsscheibe | Rondelle frein | Arandela de presión | Rondella di bloccaggio |
| 8 | 513100 | 2 | | Capacity Plate | Kapazitaetsschild | Plaque signalétique | Placa de capacidad | Piattello capacitivo |
| 9 | B018E | 6 | | Screw | Schraube | Vis | Tornillo | Vite |
| 10 | P101G | 2 | | Cotter Pin | Stift | Goupille cylindrique | Pasador | Spina |
| 11 | Table "F" | 4 | | Wheel Assembly | Radbaugruppe | Assemblage de roue | Ensamblaje de rueda | Gruppo mole |
| 12 | Table "F" | 4 | | Wheel | Rad | Roue | Rueda | Mola |
| 13 | 526576 | 8 | | Bearing | Lager | Coussinet | Cojinete | Cuscinetto |
| 14 | Table "F" | 4 | | Axle | Achse | Axe | El eje | Asse |
| 15 | 65W24 | 4 | | Retaining Ring | Sicherungsring | Anneau de fixation | Anillo de retención | Anello di fissaggio |
| 16 | 515363 | 4 | | Spacer | Distanzstück | Entretoise | Espaciador | Distanziale |
| 17 | W205 | 4 | | Washer | Scheibe | Rondelle | Arandela | Rondella |
| 18 | C110T | 4 | | Nut | Mutter | Ecrou | Tuerca | Dado |
| 19 | C107D | 1 | | Nut | Mutter | Ecrou | Tuerca | Dado |
| 20 | 535482 | 1 | | Bolt | Bolzen | Boulon | Perno | Dado |
| 21 | 512410 | 1 | | Chain Adapter | Zwischenstück | Adaptateur | Adaptador | Adattatore |
| 22 | 512421 | 1 | | Load Bar | Stab | Barre | La barra | La sbarra |
| 23 | Table "F" | -- | | Washer | Scheibe | Rondelle | Arandela | Rondella |

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Table "F"

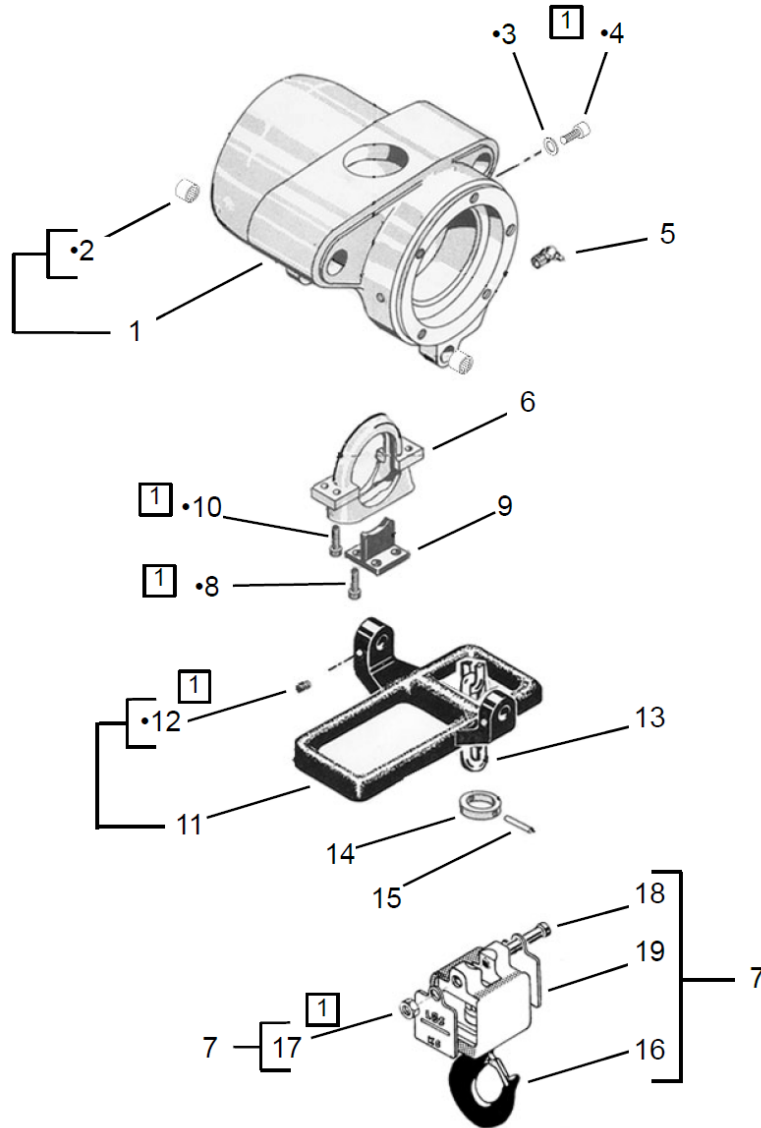
| Index # | Description | Trolley Assembly | | | | | |
|---------|------------------|------------------|---------|------|---------|------|---------|
| | | Qty. | Taper | Qty. | Flat | Qty. | Narrow |
| 1 | Trolley Assembly | 1 | 543541 | 1 | 543542 | 1 | 517470 |
| 2 | Right Side Plate | 1 | 531018 | 1 | 531018 | 1 | 517459 |
| 3 | Left Side Plate | 1 | 531017 | 1 | 531017 | 1 | 517458 |
| 4 | Washer | 60 | W196 | 60 | W196 | 68 | W196 |
| 11 | Wheel Assembly | 4 | 526577 | 4 | 536469 | 4 | 526579 |
| 12 | Wheel | 4 | 526558 | 4 | 535764 | 4 | 526559 |
| 14 | Axle | 4 | 526574 | 4 | 526574 | 4 | 526575 |
| 23 | Washer | 38 | 512419L | 38 | 512419L | 54 | 512419L |



Lower Hook Assembly A

“G”

P3()22L
P3()43L



1 See Service Notes



Lower Hook Assembly A (parts)

Illustration "G" - Lower Hook Assembly

| Index | Number | # | - | EN | DE | FR | ES | IT |
|-------|-----------|---|---|---------------------|-------------------|-----------------------------|---------------------|----------------------|
| | | | | Description | Benennung | Designation | Descripción | Descrizione |
| 1 | 513111 | 1 | | Housing | Gehäuse | Corps | Caja | Corpo |
| 2 | 11700 | 2 | 4 | Bearing | Lager | Coussinet | Cojinete | Cuscinetto |
| 3 | 515454 | 1 | 2 | Washer | Scheibe | Rondelle | Arandela | Rondella |
| 4 | B112A | 1 | 2 | Screw | Schraube | Vis | Tornillo | Vite |
| 5 | RG78 | 2 | | Grease Fitting | Schmiernippel | Monture de graisse | Accesorio de grasa | Ingrassatore |
| 6 | 513107 | 1 | | Chain Guide | Kettenführung | Guide-chaîne | Guía de cadena | Guida della catena |
| 7 | Table "G" | 1 | | Lower Hook Asm. | Unterer Haken | Crochet inférieur | Gancho inferior | Gancio inferiore |
| 8 | B115N | 4 | 8 | Screw | Schraube | Vis | Tornillo | Vite |
| 9 | 513103 | 1 | | Chain Stripper | Kettenstripper | Outil à dénuder des chaînes | Separador de cadena | Estrattore catena |
| 10 | B109M | 4 | 8 | Screw | Schraube | Vis | Tornillo | Vite |
| 11 | 513109 | 1 | | Control Lever | Steuerhebel | Levier de commande | Palanca de control | Leva di comando |
| 12 | B148X | 2 | 4 | Screw | Schraube | Vis | Tornillo | Vite |
| 13 | Table "G" | 1 | | Chain (specify ft.) | Kette | Chaîne | Cadena | Catena |
| 14 | 513123 | 1 | | Chain Stop | Kettenstopp | Arrêt de chaîne | Fiador de cadena | Fermo catena |
| 15 | E104X | 1 | | Pin | Stift | Goupille cylindrique | Pasador | Spina |
| 16 | Table "G" | 1 | * | Lower Hook | Unterer Haken | Crochet inférieur | Gancho inferior | Gancio inferiore |
| 17 | C110W | 1 | | Nut | Mutter | Ecrou | Tuerca | Dado |
| 18 | 530387 | 1 | | Bolt | Bolzen | Boulon | Perno | Dado |
| 19 | Table "G" | 2 | | Capacity Plate | Kapazitaetsschild | Plaque signalétique | Placa de capacidad | Piattello capacitivo |

#) Quantity / Stückzahl / Quantité / Cantidad / Quantità

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

* Note: Hook Repair Kits (includes snap ring, lever, spring and pin) Bullard latch is not replaceable.

Crosby Hook Repair Kit = 542386

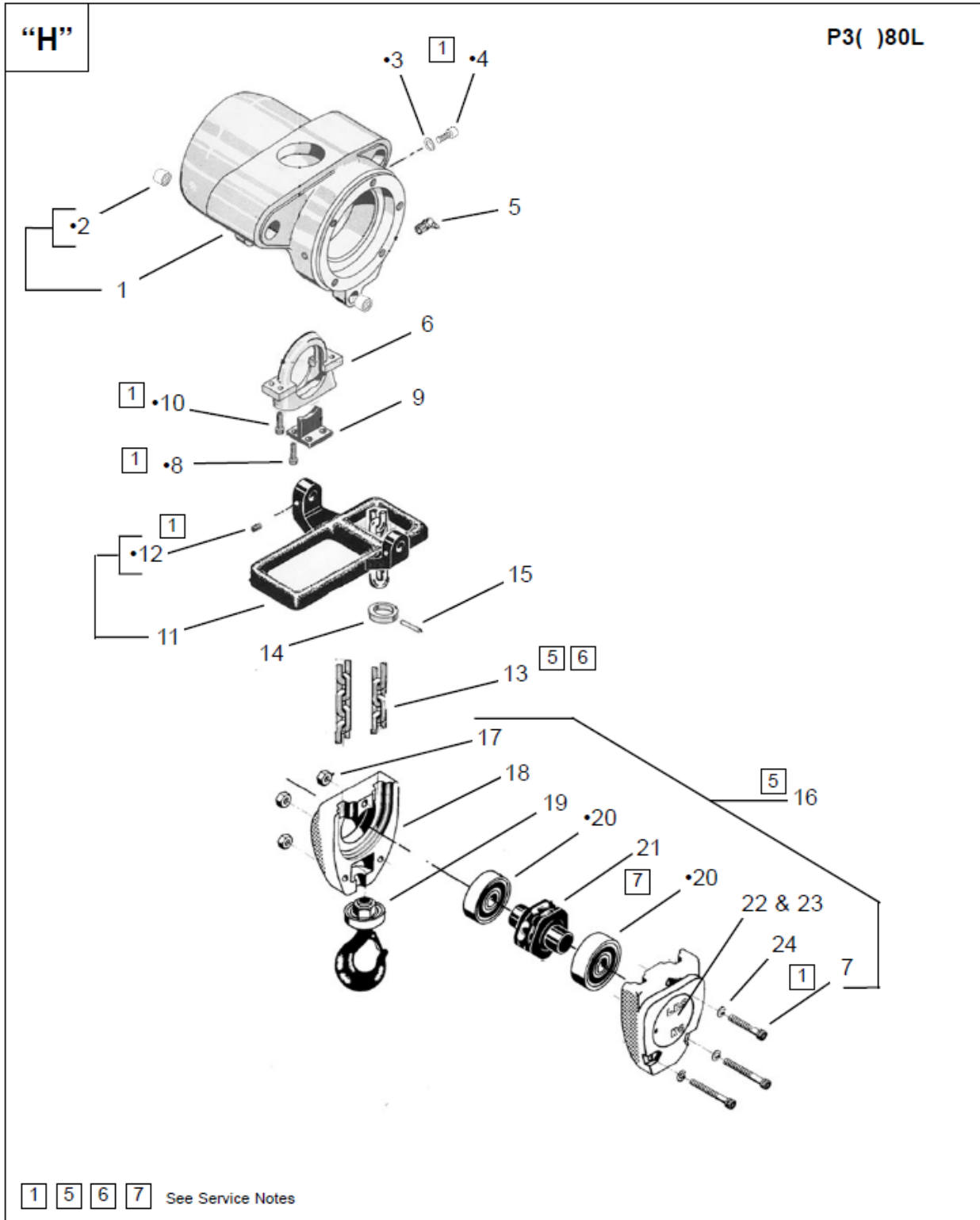
Bullard Hook Repair Kit = 528618

Table "G"

| Index # | Description | Qty. | P3()22L | | Qty. | P3()43L | |
|---------|---------------------|------|----------|---------|------|----------|---------|
| | | | Standard | Bullard | | Standard | Bullard |
| 7 | Lower Hook Asm. | 1 | 531852 | 531768 | 1 | 531852 | 531768 |
| 13 | Chain (Standard) | -- | 542040 | 542040 | -- | 542040 | 542040 |
| | Chain (Zinc Plated) | -- | 513131 | 513131 | -- | 513131 | 513131 |
| 16 | Lower Hook | 1 | 531008 | 531766 | 1 | 531008 | 531766 |
| 19 | Capacity Plate | 1 | 531012 | 531012 | 1 | 531772 | 531772 |



Lower Hook Assembly B



Lower hook Assembly B (parts)

Illustration "H" - Lower Hook Assembly

| Index | Number | # | - | EN | DE | FR | ES | IT |
|-------|-----------|----|---|---------------------|-------------------|-----------------------------|---------------------|-------------------------------|
| | | | | Description | Benennung | Designation | Descripción | Descrizione |
| 1 | 513111 | 1 | | Housing | Gehäuse | Corps | Caja | Corpo |
| 2 | 11700 | 2 | 4 | Bearing | Lager | Coussinet | Cojinete | Cuscinetto |
| 3 | 515454 | 1 | 2 | Washer | Scheibe | Rondelle | Arandela | Rondella |
| 4 | B112A | 1 | 2 | Screw | Schraube | Vis | Tornillo | Vite |
| 5 | RG78 | 2 | | Grease Fitting | Schmiernippel | Monture de graisse | Accesorio de grasa | Ingrassatore |
| 6 | 513107 | 1 | | Chain Guide | Kettenführung | Guide-chaîne | Guía de cadena | Guida della catena |
| 7 | B137F | 3 | | Screw | Schraube | Vis | Tornillo | Vite |
| 8 | B115N | 4 | 8 | Screw | Schraube | Vis | Tornillo | Vite |
| 9 | 513103 | 1 | | Chain Stripper | Kettenstripper | Outil à dénuder des chaînes | Separador de cadena | Estrattore catena |
| 10 | B109M | 4 | 8 | Screw | Schraube | Vis | Tornillo | Vite |
| 11 | 513109 | 1 | | Control Lever | Steuerhebel | Levier de commande | Palanca de control | Leva di comando |
| 12 | B148X | 2 | 4 | Screw | Schraube | Vis | Tornillo | Vite |
| 13 | Table "H" | -- | | Chain (specify ft.) | Kette | Chaîne | Cadena | Catena |
| 14 | 513123 | 1 | | Chain Stop | Kettenstopp | Arrêt de chaîne | Fiador de cadena | Fermo catena |
| 15 | E104X | 1 | | Pin | Stift | Goupille cylindrique | Pasador | Spina |
| 16 | Table "H" | 1 | | Lower Hook Asm. | Unterer Haken | Crochet inférieur | Gancho inferior | Gancio inferiore |
| 17 | C107C | 3 | | Nut | Mutter | Ecrou | Tuerca | Dado |
| 18 | 537306 | 2 | | Lower Block | Unterer Block | Bloc inférieur | Bloque inferior | Blocco inferiore |
| 19 | Table "H" | 1 | * | Lower Hook | Unterer Haken | Crochet inférieur | Gancho inferior | Gancio inferiore |
| 20 | 531021 | 2 | 4 | Bearing | Lager | Coussinet | Cojinete | Cuscinetto |
| 21 | 531020 | 1 | | Sprocket | Speichen | Dent de pignon | Rueda dentada | Dente di dentatura per catena |
| 22 | 537372 | 2 | | Capacity Plate | Kapazitaetsschild | Plaque signalétique | Placa de capacidad | Piattello capacitivo |
| 23 | B018E | 6 | | Screw | Schraube | Vis | Tornillo | Vite |
| 24 | W227 | 3 | | 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

* Note: Hook Repair Kits (includes snap ring, lever, spring and pin) Bullard latch is not replaceable.

Crosby Hook Repair Kit = 542389

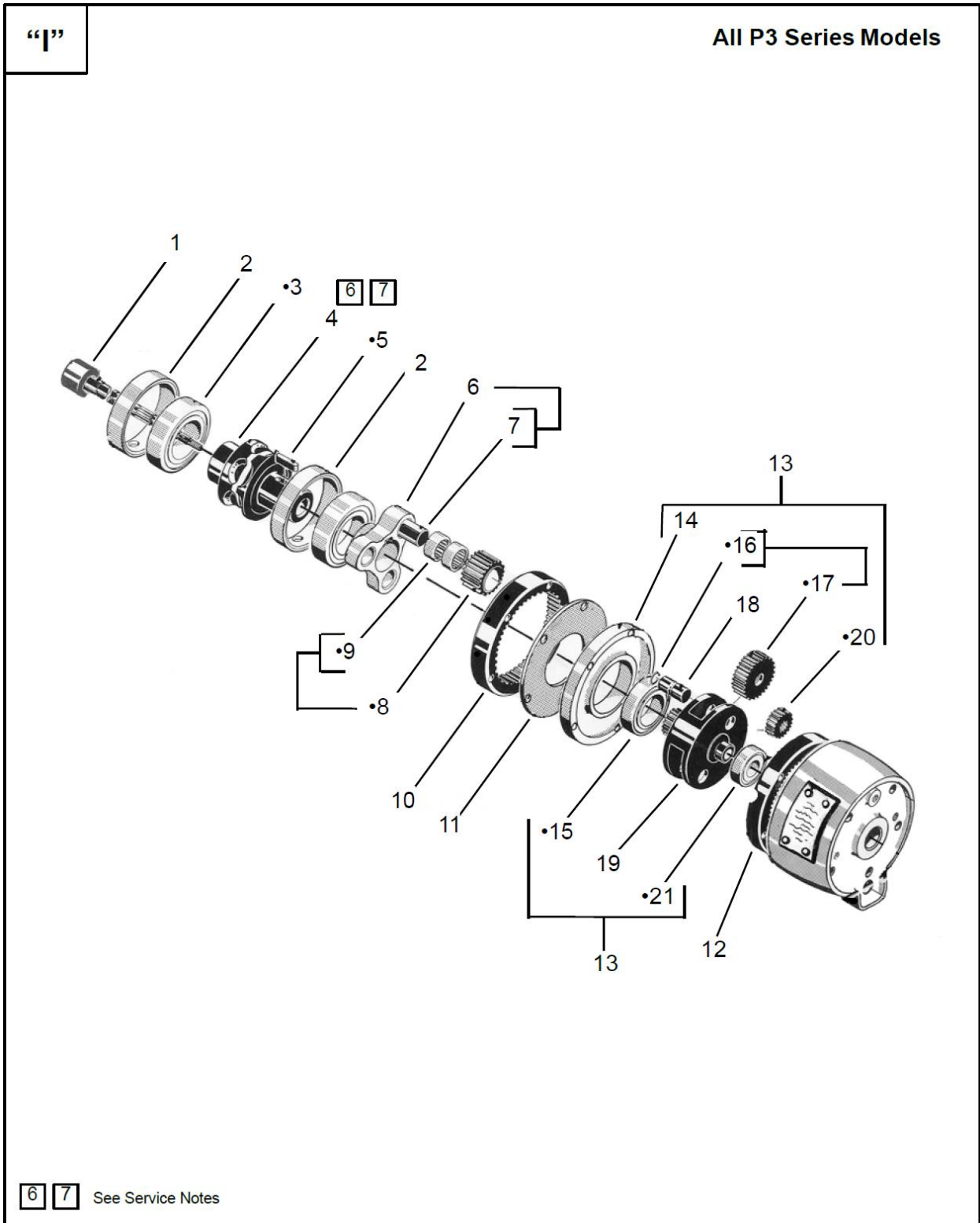
Bullard Hook Repair Kit = 528618

Table "H"

| Index # | Description | Qty. | P3()80L | |
|---------|---------------------|------|----------|---------|
| | | | Standard | Bullard |
| 16 | Lower Hook Asm. | 1 | 531085 | 531775 |
| 13 | Chain (Standard) | -- | 542040 | 542040 |
| | Chain (Zinc Plated) | -- | 513131 | 513131 |
| 19 | Lower Hook | 1 | 530228 | 531767 |



Gearing Assembly



Gearing Assembly (parts)

Illustration "I" - Gearing Assembly

| Index | Number | # | - | EN | DE | FR | ES | IT |
|-------|-----------|---|----|------------------|-------------------------|------------------------------|----------------------------------|-------------------------------|
| | | | | Description | Benennung | Designation | Descripción | Descrizione |
| 1 | 507213 | 1 | | Spindle | Spindel | Arbre | Husillo | Mandrino |
| 2 | 12112 | 2 | | Ring | Ring | Bague | Anillo | Anello |
| 3 | 11554L | 2 | 4 | Bearing | Lager | Coussinet | Cojinete | Cuscinetto |
| 4 | 520065 | 1 | | Sprocket | Speichen | Dent de pignon | Rueda dentada | Dente di dentatura per catena |
| 5 | 507239 | 2 | 4 | Key | Schlüssel | Clavette | Llave | Chiave |
| 6 | 507238 | 1 | | Idler Plate | Zwischenplatte | Plaque de roue intermédiaire | Placa intermedia | Piastra intermedia |
| 7 | 11863 | 3 | | Shaft | Achse | Axe du vérin | Eje | Albero |
| 8 | A11754 | 3 | 6 | Idler Gear | Zwischenzahnrad | Engrenage secondaire | Engranaje secundario | Ingranaggio intermedio |
| 9 | 12047 | 6 | 12 | Bearing | Lager | Coussinet | Cojinete | Cuscinetto |
| 10 | 11744 | 1 | | Ring Gear | Zahnkreis | Couronne dentée | Engranaje de anillos | Guarnizione ingranaggio |
| 11 | 11790 | 1 | | Spacer | Distanzstück | Entretoise | Espaciador | Distanziale |
| 12 | 11745 | 1 | | Ring Gear | Zahnkreis | Couronne dentée | Engranaje de anillos | Guarnizione ingranaggio |
| 13 | Table "I" | 1 | | Pinion Cage Asm. | Ritzelkaefigzusammenbau | Assemblage de cage à pignon | Ensamblaje de la caja de piñones | Gruppo gabbia pignone |
| 14 | 11801 | 1 | | Spacer | Distanzstück | Entretoise | Espaciador | Distanziale |
| 15 | 11656 | 1 | 2 | Bearing | Lager | Coussinet | Cojinete | Cuscinetto |
| 16 | 11789 | 2 | 4 | Retaining Ring | Sicherungsring | Anneau de fixation | Anillo de retención | Anello di fissaggio |
| 17 | Table "I" | 2 | 4 | Idler Gear | Zwischenzahnrad | Engrenage secondaire | Engranaje secundario | Ingranaggio intermedio |
| 18 | 11788 | 2 | | Shaft | Achse | Axe du vérin | Eje | Albero |
| 19 | Table "I" | 1 | | Pinion Cage | Ritzelkaefig | Cage à pignon | Caja de piñones | Gabbia pignone |
| 20 | Table "I" | 1 | 2 | Pinion Gear | Ritzelgetriebe | Pignon d'entraînement | Piñon diferencial | Ingranaggio a pignone |
| 21 | 11655 | 1 | 2 | Bearing | Lager | Coussinet | Cojinete | Cuscinetto |

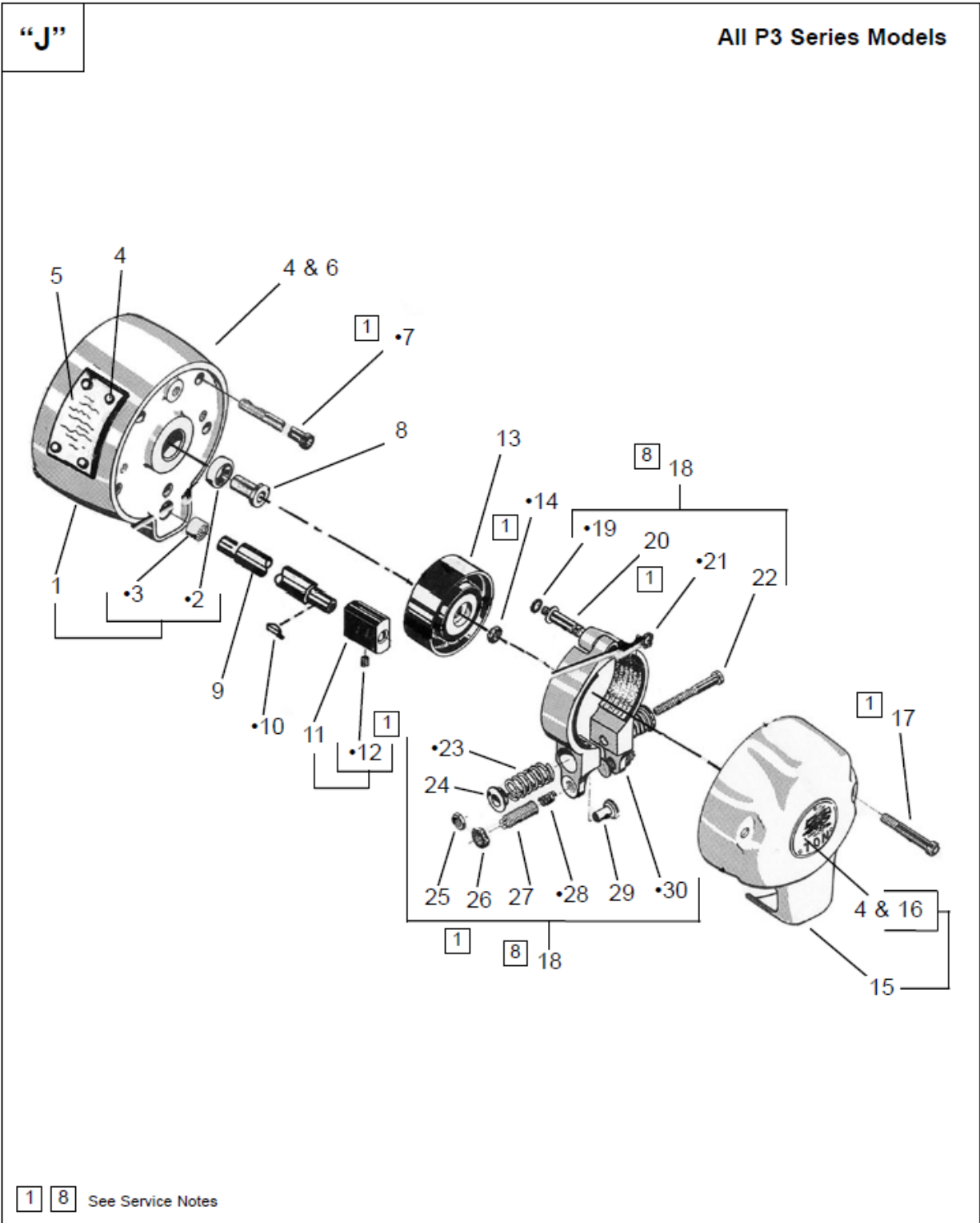
#) Quantity / Stückzahl / Quantité / Cantidad / Quantità

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

Table "I"

| Index # | Description | Qty. | P3()22L | Qty. | P3()43L P3()80L |
|---------|----------------------|------|----------|------|----------------------|
| 13 | Pinion Cage Assembly | 1 | AA20649 | 1 | AA19195 |
| 17 | Idler Gear | 2 | A20648 | 2 | A11755 |
| 19 | Pinion Cage | 1 | A20649 | 1 | A19195 |
| 20 | Pinion Gear | 1 | 20650 | -- | --- |

Brake Assembly



Brake Assembly (parts)

Illustration "J" - Brake Assembly

| Index | Number | # | - | EN | DE | FR | ES | IT |
|-------|-----------|----|----|-----------------|----------------------|------------------------|-------------------------|-----------------------|
| | | | | Description | Benennung | Designation | Descripción | Descrizione |
| 1 | 507218 | 1 | | Clamping Plate | Klemmplatte | Plaque de serrage | Placa de sujeción | Piastra di bloccaggio |
| 2 | 11555 | 1 | 2 | Seal | Dichtung | Sceau | Sello | Guarnizione |
| 3 | 11700 | 1 | 2 | Bearing | Lager | Coussinet | Cojinete | Cuscinetto |
| 4 | 534820 | 11 | | Screw | Schraube | Vis | Tornillo | Vite |
| 5 | 521444 | 1 | | Caution Plate | Achtungsschild | Plaque d'avertissement | Placa de instrucciones | Piastra di protezione |
| 6 | 20659 | 1 | | Name Plate | Namensschild | Plaque | Placa de identificación | Targa |
| 7 | B116L | 5 | 10 | Screw | Schraube | Vis | Tornillo | Vite |
| 8 | 19383 | 1 | | Sleeve | Hülse | Douille | Manguito | Manicotto |
| 9 | 507235 | 1 | | Control Rod | Steuerstange | Barre de commande | Barra de control | Asta di comando |
| 10 | 2N72 | 1 | 2 | Key | Schlüssel | Clavette | Llave | Chiave |
| 11 | 536274 | 1 | | Cam | Nocken | Came | Leva | Camma |
| 12 | B125K | 1 | 2 | Screw | Schraube | Vis | Tornillo | Vite |
| 13 | 507221 | 1 | | Brake Wheel | Bremsrad | Volant de frein à main | Rueda de freno | Volantino del freno |
| 14 | C108A | 1 | 2 | Nut | Mutter | Ecrou | Tuerca | Dado |
| 15 | Table "J" | 1 | | Brake Cover | Abdeckung der Bremse | Couvercle de frein | Cubierta de freno | Calotta del freno |
| 16 | Table "J" | 1 | | Capacity Plate | Kapazitaetsschild | Plaque signalétique | Placa de capacidad | Piattello capacitivo |
| 17 | B155N | 2 | | Screw | Schraube | Vis | Tornillo | Vite |
| 18 | 536292 | 1 | | Brake Assembly | Bremsenbaugruppe | Ensemble de freinage | Ensamblaje de freno | Gruppo freno |
| 19 | W144 | 1 | 2 | Washer | Scheibe | Rondelle | Arandela | Rondella |
| 20 | 507217 | 1 | | Stud | Bolzen | Goujon | Espárrago | Perno sporgente |
| 21 | 800136 | 1 | 2 | Retaining Ring | Sicherungsring | Anneau de fixation | Anillo de retención | Anello di fissaggio |
| 22 | B150N | 1 | | Screw | Schraube | Vis | Tornillo | Vite |
| 23 | 27402 | 2 | 4 | Spring | Druckfeder | Ressort | Resorte | Molla |
| 24 | 26079 | 2 | | Washer | Scheibe | Rondelle | Arandela | Rondella |
| 25 | C101E | 1 | | Washer | Scheibe | Rondelle | Arandela | Rondella |
| 26 | C103D | 2 | | Nut | Mutter | Ecrou | Tuerca | Dado |
| 27 | 19114 | 2 | | Adjusting Screw | Einstellschraube | Vis de réglage | Tornillo de ajuste | Vite di regolazione |
| 28 | 26824 | 2 | 4 | Spring | Druckfeder | Ressort | Resorte | Molla |
| 29 | 19111 | 2 | | Plunger | Plunger | Plongeur | Bomba de émbolo | Pistone |
| 30 | 536276 | 2 | 4 | Brake Shoe | Bremsbacke | Mâchoire de frein | Zapata de freno | Ganascia |

#) 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"

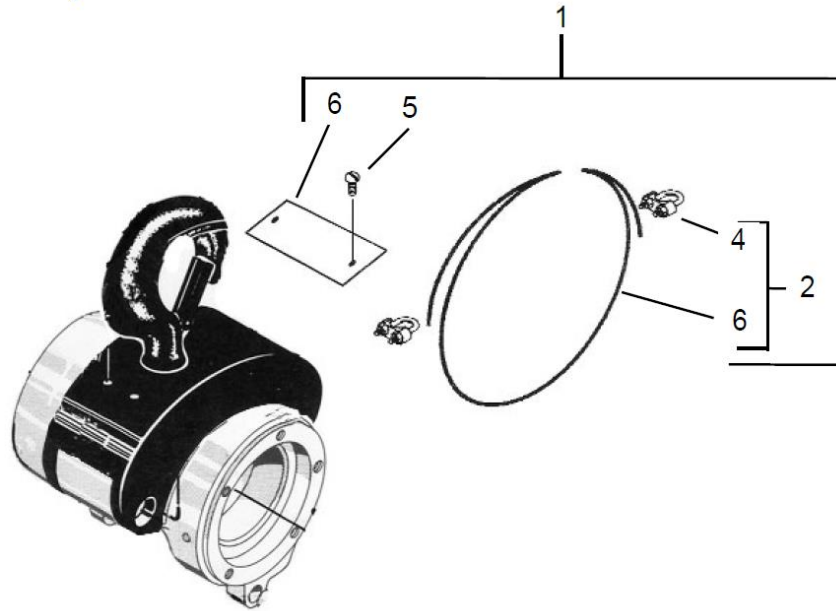
| Index # | Description | Qty. | P3()22L | Qty. | P3()43L | Qty. | P3()80L |
|---------|----------------|------|----------|------|----------|------|----------|
| 15 | Brake Cover | 1 | 543543 | 1 | 543544 | 1 | 516683 |
| 16 | Capacity Plate | 1 | 528259 | 1 | 526545 | 1 | 513100 |



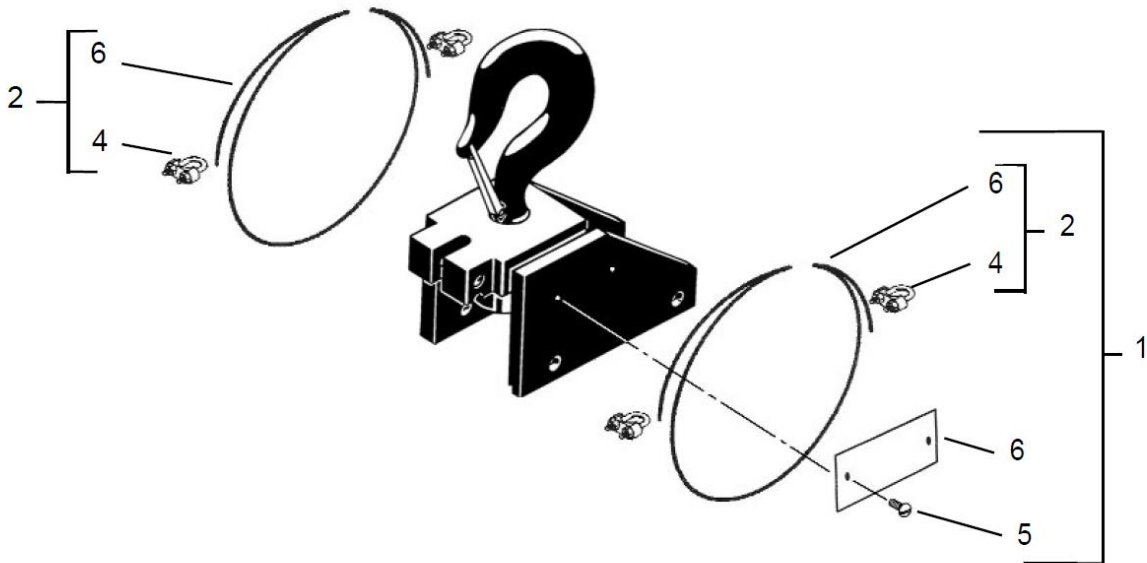
Auxiliary Cable Kit

“K”

P3HA22L: 520277 Auxiliary Cable Kit



P3HA43L & P3HA80L: 520277 Auxiliary Cable Kit and A19791 Auxiliary Cable Asm.



1 See Service Notes



Auxiliary Cable Kit (parts)

Illustration "K" - Auxiliary Cable Kit

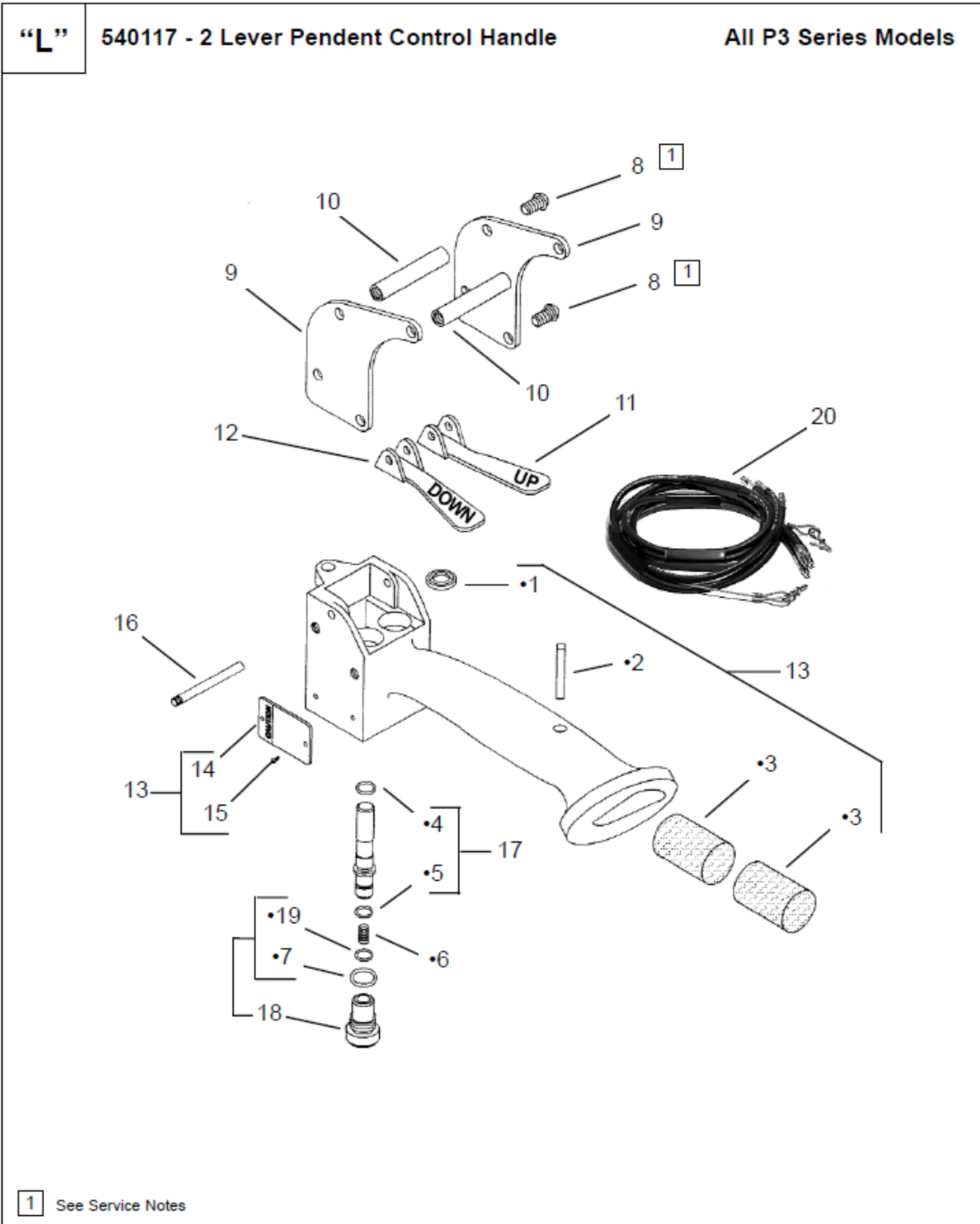
| Index | Number | # | - | EN | DE | FR | ES | IT |
|-------|--------|---|---|----------------------|----------------|------------------------|------------------------|-----------------------|
| | | | | Description | Benennung | Designation | Descripción | Descrizione |
| 1 | 520277 | 1 | | Auxiliary Cable Kit | Kabel | Câble | Cable | Cavo |
| 2 | A19791 | 1 | | Auxiliary Cable Asm. | Kabel | Câble | Cable | Cavo |
| 3 | 19791 | 1 | | Cable (4 ft.) | Kabel | Câble | Cable | Cavo |
| 4 | 19786 | 2 | | Clip | Klipp | Agrafe | Presilla | Graffa |
| 5 | 534820 | 2 | | Screw | Schraube | Vis | Tornillo | Vite |
| 6 | 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



Pendent Control Handle (parts)

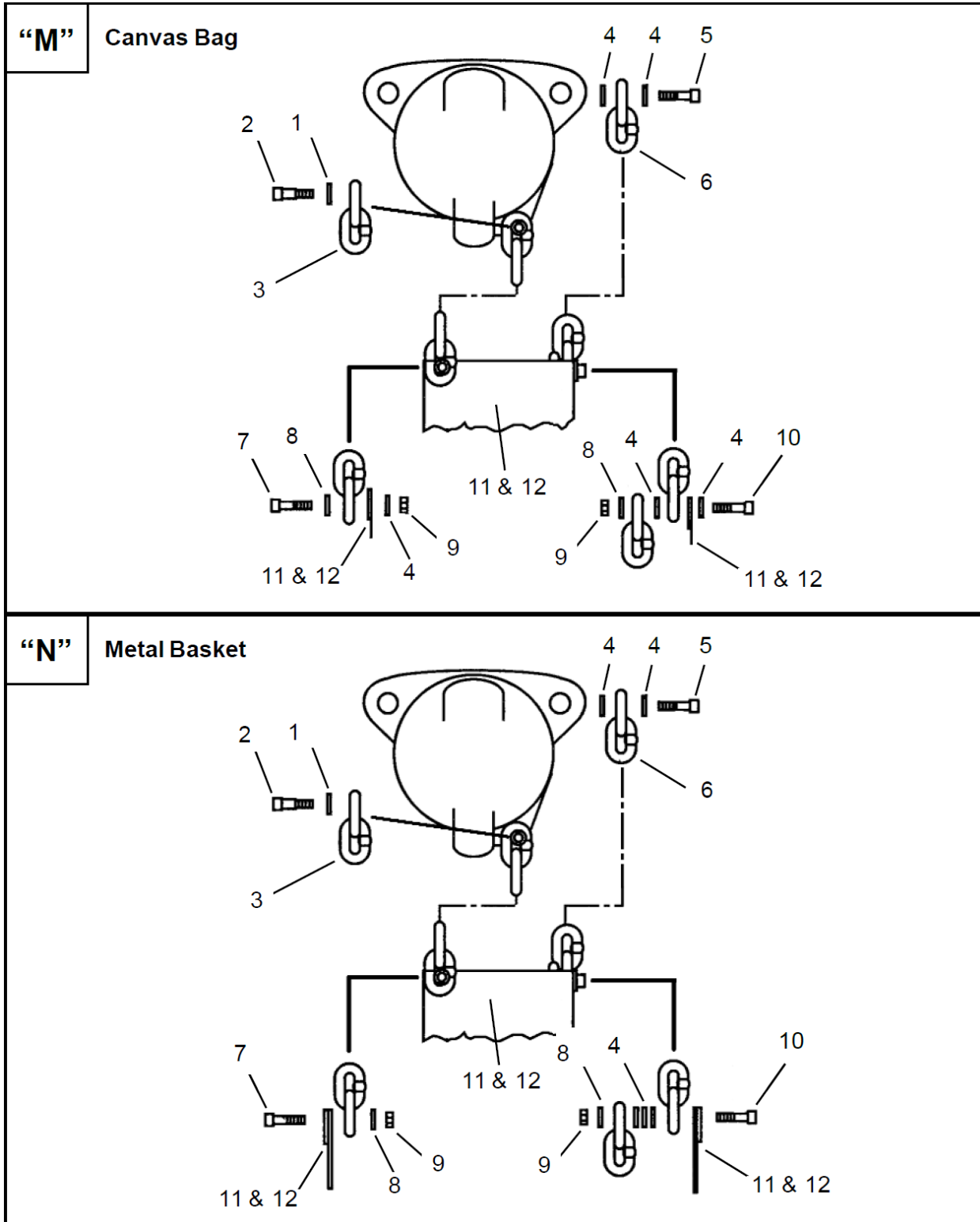
Illustration "L" - Pendent Control Handle

| Index | Number | # | - | EN | DE | FR | ES | IT |
|-------|--------|---|---|---------------|------------------|------------------------|------------------------|-----------------------|
| | | | | Description | Benennung | Designation | Descripción | Descrizione |
| 1 | 30573 | 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 | 12619 | 2 | 4 | O-Ring | O-Ring | Joint torique | Anillo "O" | Anello ad O |
| 5 | 60371 | 2 | 4 | O-Ring | O-Ring | Joint torique | Anillo "O" | Anello ad O |
| 6 | 502715 | 2 | 4 | Spring | Druckfeder | Ressort | Resorte | Molla |
| 7 | 29865 | 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 | 539867 | 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 | 539766 | 1 | | Handle | Handgriff | Poignée | Manija | Impugnatura |
| 14 | 521768 | 1 | | Caution Plate | Achtungsschild | Plaque d'avertissement | Placa de instrucciones | Piastra di protezione |
| 15 | 534820 | 2 | | Screw | Schraube | Vis | Tornillo | Vite |
| 16 | 539837 | 1 | | Pin | Stift | Goupille cylindrique | Pasador | Spina |
| 17 | 539753 | 2 | | Valve | Ventil | Soupape | Válvula | Valvola |
| 18 | 522344 | 2 | | Cap | Kappe | Chapeau | Tapa | Cappello |
| 19 | 24684 | 2 | 4 | O-Ring | O-Ring | Joint torique | Anillo "O" | Anello ad O |
| 20 | 513549 | 1 | | Hose (5 ft.) | Schlauch (1,5 M) | Tuyau (1,5 M) | Manguera (1,5 M) | Tube (1,5 M) |
| | 513550 | 1 | | Hose (10 ft.) | Schlauch (3,0 M) | Tuyau (3,0 M) | Manguera (3,0 M) | Tube (3,0 M) |
| | 513551 | 1 | | Hose (15 ft.) | Schlauch (4,6 M) | Tuyau (4,6 M) | Manguera (4,6 M) | Tube (4,6 M) |
| | 516696 | 1 | | Hose (20 ft.) | Schlauch (6,1 M) | Tuyau (6,1 M) | Manguera (6,1 M) | Tube (6,1 M) |
| | 523360 | 1 | | Hose (25 ft.) | Schlauch (7,6 M) | Tuyau (7,6 M) | Manguera (7,6 M) | Tube (7,6 M) |

#) 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 "M" - Canvas Bag

| Index | Number | # | - | EN | DE | FR | ES | IT |
|-------|-----------|---|---|-----------------------|------------------|-------------------|----------------------|--------------------------------|
| | | | | Description | Benennung | Designation | Descripción | Descrizione |
| 1 | 516712 | 2 | | Washer | Scheibe | Rondelle | Arandela | Rondella |
| 2 | B140W | 2 | | Shoulder Screw | Schulterschraube | Vis à épaulement | Tornill de resalto | Vite a perno |
| 3 | 507245 | 2 | | Chain (specify Links) | Kette | Chaîne | Cadena | Catena |
| 4 | W193 | 6 | | Washer | Scheibe | Rondelle | Arandela | Rondella |
| 5 | B125Z | 1 | | Screw 1/4-20x3/4 | Schraube | Vis | Tornillo | Vite |
| 6 | 31445 | 1 | | Chain (specify Links) | Kette | Chaîne | Cadena | Catena |
| 7 | B129N | 2 | | Screw 1/4-20x1-1/4 | Schraube | Vis | Tornillo | Vite |
| 8 | 515454 | 3 | | Washer | Scheibe | Rondelle | Arandela | Rondella |
| 9 | C105J | 3 | | Nut | Mutter | Ecrou | Tuerca | Dado |
| 10 | B111F | 1 | | Screw 1/4-20x1-3/4 | Schraube | Vis | Tornillo | Vite |
| 11 | Table "M" | 1 | | Chain Bag Asm. | Kettenbehälter | Nacelle à chaînes | Contenedor de cadena | Contentitore catena |
| 12 | Table "M" | 1 | | Chain 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 "M" - Canvas Chain Bag

| Index | Description | Lift | P3()22L P3()43L | Lift | P3()80L |
|-------|----------------|-----------|----------------------|----------|----------|
| 11 | Chain Bag Asm. | 20(6.1M) | 516648 | 10(3.0M) | 516648 |
| | Chain Bag Asm. | 30(9.1M) | 516611 | 15(4.6M) | 516611 |
| | Chain Bag Asm. | 40(12.2M) | 516649 | 20(6.1M) | 516649 |
| 12 | Chain Bag | 20(6.1M) | 516646 | 10(3.0M) | 516646 |
| | Chain Bag | 30(9.1M) | 516607 | 15(4.6M) | 516607 |
| | Chain Bag | 40(12.2M) | 516647 | 20(6.1M) | 516647 |

Illustration "N" - Metal Basket

| Index | Number | # | - | EN | DE | FR | ES | IT |
|-------|-----------|---|---|-----------------------|------------------|-------------------|----------------------|---------------------|
| | | | | Description | Benennung | Designation | Descripción | Descrizione |
| 1 | 516712 | 2 | | Washer | Scheibe | Rondelle | Arandela | Rondella |
| 2 | B140W | 2 | | Shoulder Screw | Schulterschraube | Vis à épaulement | Tornill de resalto | Vite a perno |
| 3 | 507245 | 2 | | Chain (specify Links) | Kette | Chaîne | Cadena | Catena |
| 4 | W193 | 5 | | Washer | Scheibe | Rondelle | Arandela | Rondella |
| 5 | B125Z | 1 | | Screw 1/4-20x3/4 | Schraube | Vis | Tornillo | Vite |
| 6 | 31445 | 1 | | Chain (specify Links) | Kette | Chaîne | Cadena | Catena |
| 7 | B109M | 2 | | Screw 1/4-20x1 | Schraube | Vis | Tornillo | Vite |
| 8 | 515454 | 3 | | Washer | Scheibe | Rondelle | Arandela | Rondella |
| 9 | C105J | 3 | | Nut | Mutter | Ecrou | Tuerca | Dado |
| 10 | B117AL | 1 | | Screw 1/4-20x1-1/2 | Schraube | Vis | Tornillo | Vite |
| 11 | Table "N" | 1 | | Chain Basket Asm. | Kettenbehälter | Nacelle à chaînes | Contenedor de cadena | Contentitore catena |
| 12 | Table "N" | 1 | | Chain Basket | Kettenbehälter | Nacelle à chaînes | Contenedor de cadena | Contentitore catena |

#) 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" - Metal Chain Basket

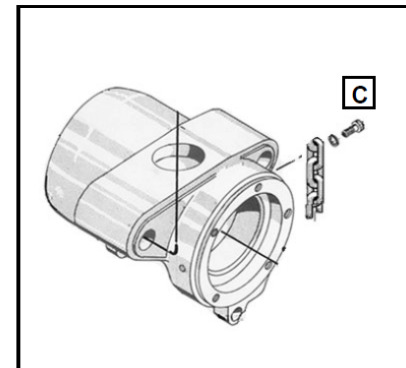
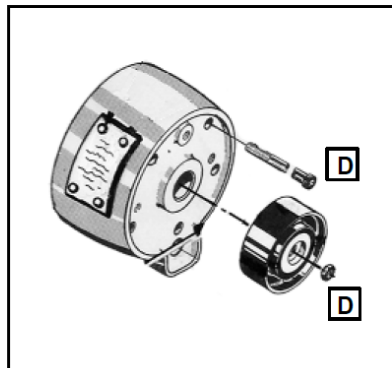
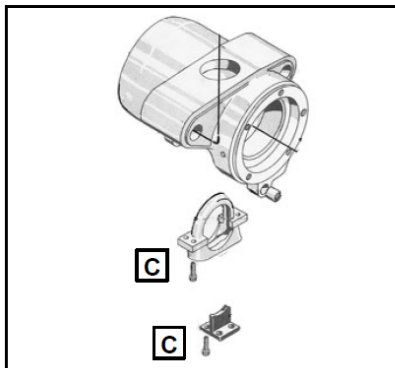
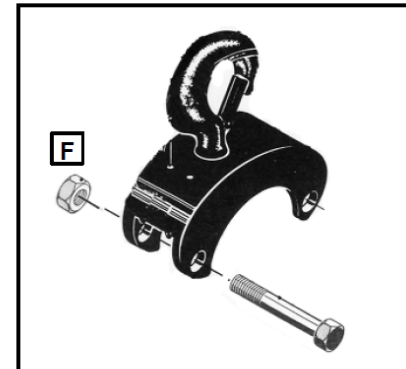
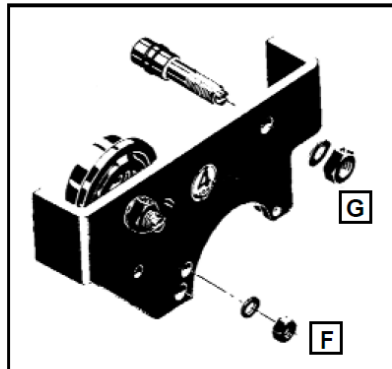
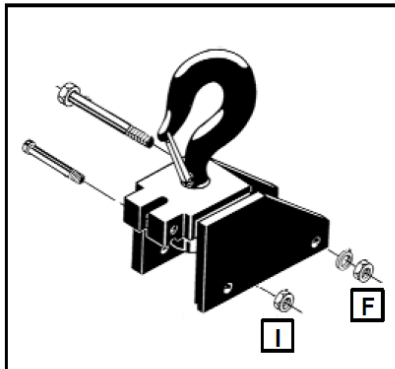
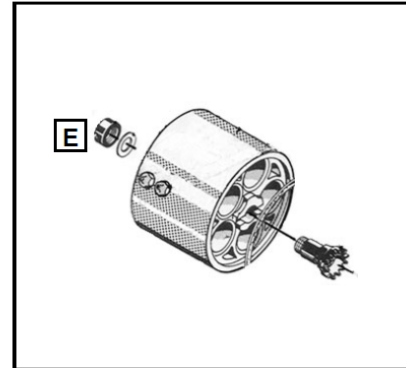
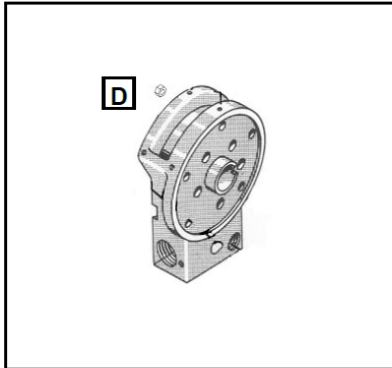
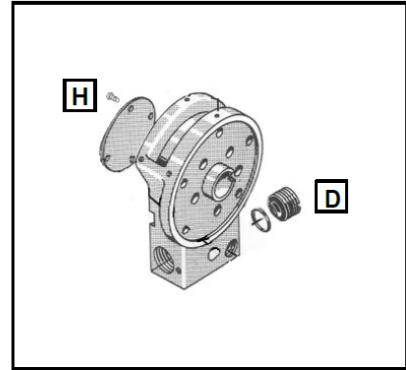
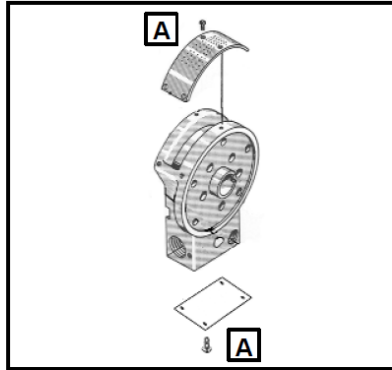
| Index | Description | Lift | P3()22L P3()43L | Lift | P3()80L |
|-------|-------------------|-----------|----------------------|----------|----------|
| 11 | Chain Basket Asm. | 20(6.1M) | 537490 | 10(3.0M) | 537490 |
| | Chain Basket Asm. | 40(12.2M) | 537491 | 20(6.1M) | 537491 |
| | Chain Basket Asm. | 60(18.3M) | 537492 | 30(9.1M) | 537492 |
| 12 | Chain Basket | 20(6.1M) | 539768 | 10(3.0M) | 539768 |
| | Chain Basket | 40(12.2M) | 539769 | 20(6.1M) | 539769 |
| | Chain Basket | 60(18.3M) | 539770 | 30(9.1M) | 539770 |



Service Notes

1 Torque Specifications

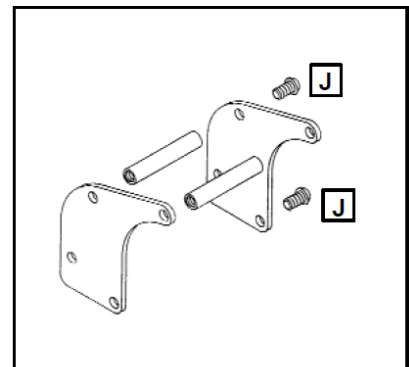
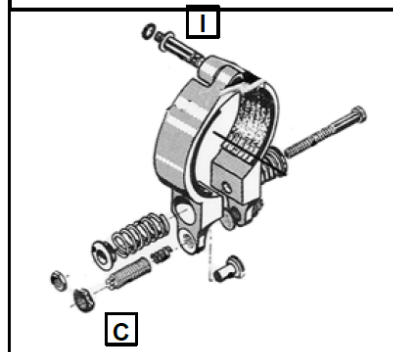
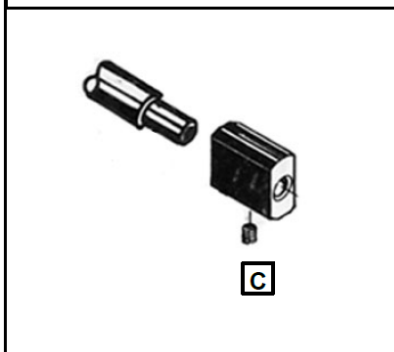
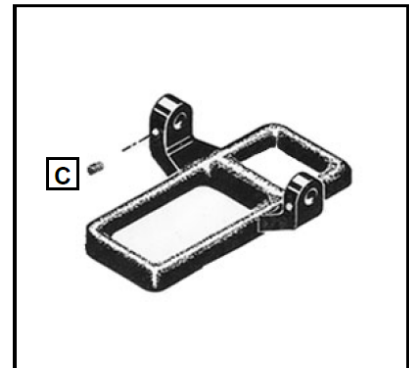
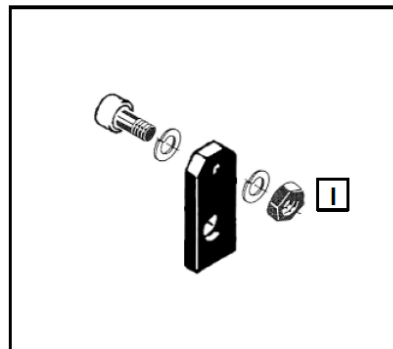
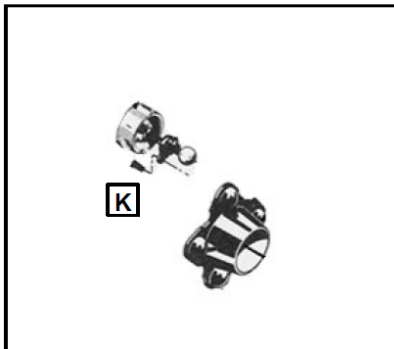
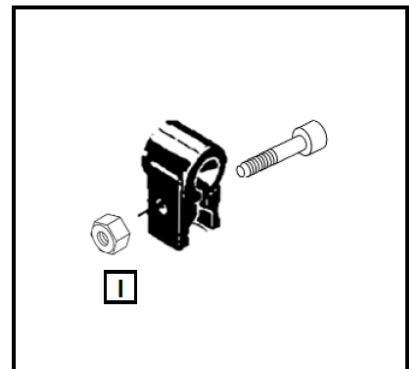
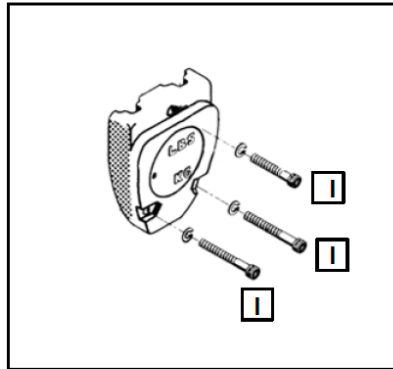
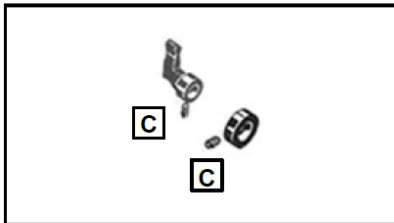
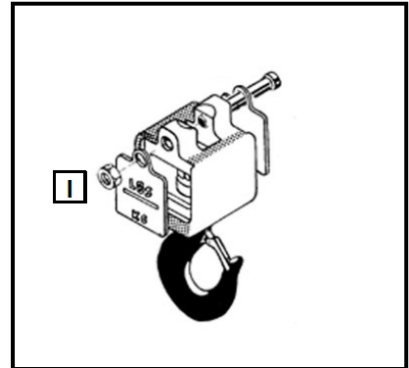
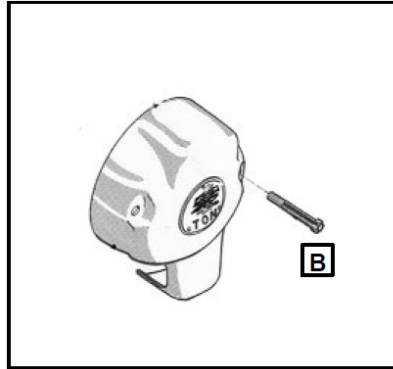
- A** 14-18 In. Lbs. (1.6-2.0 Nm)
- B** 4-5 Ft. Lbs. (5.4-6.8 Nm)
- C** 6-7 Ft. Lbs. (8.1-9.5 Nm)
- D** 11-12 Ft. Lbs. (15-16 Nm)
- E** 60-67 Ft. Lbs. (81-91 Nm)
- F** 120-140 Ft. Lbs. (163-190 Nm)
- G** 200-220 Ft. Lbs. (271-298 Nm)
- H** 5-7 In. Lbs. (0.6-0.8 Nm)
- I** 18-20 Ft. Lbs. (24-27 Nm)
- J** 5-6 Ft. Lbs. (6.8-8.1 Nm)
- K** 9-10 Ft. Lbs. (12-14 Nm)



Service Notes cont'd

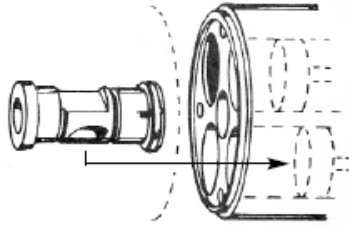
1 Torque Specifications

- A** 14-18 In. Lbs. (1.6-2.0 Nm)
- B** 4-5 Ft. Lbs. (5.4-6.8 Nm)
- C** 6-7 Ft. Lbs. (8.1-9.5 Nm)
- D** 11-12 Ft. Lbs. (15-16 Nm)
- E** 60-67 Ft. Lbs. (81-91 Nm)
- F** 120-140 Ft. Lbs. (163-190 Nm)
- G** 200-220 Ft. Lbs. (271-298 Nm)
- H** 5-7 In. Lbs. (0.6-0.8 Nm)
- I** 18-20 Ft. Lbs. (24-27 Nm)
- J** 5-6 Ft. Lbs. (6.8-8.1 Nm)
- K** 9-10 Ft. Lbs. (12-14 Nm)



Service Notes 2-7

2 Illustrations "A" & "B"



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

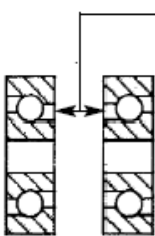
DE: Richten Sie Abluftöffnung mit niedrigstem Kolben aus.

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

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

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

3 Illustration "B"



EN: Small diameters must face each other when assembled.

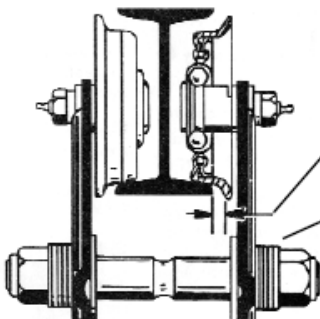
DE: Kleine Durchmesser

FR: Petits diamètres

ES: Diámetros pequeños

IT: Piccoli diametri

4 Illustrations "E" & "F"



1/16" - 3/32"
(1.56-2.34 mm)

EN: Spacer Washers

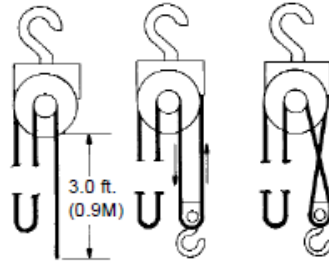
DE: Scheibe

FR: Rondelle

ES: Arandela

IT: Rondella

5 Illustration "H"



EN: Correct

DE: Korrekt

FR: Droite

ES: Correcto

IT: Corretto

EN: Incorrect

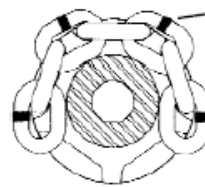
DE: Falsch

FR: mal

ES: incorrecto

IT: errato

6 Illustration "I"



EN: Link chain weld position

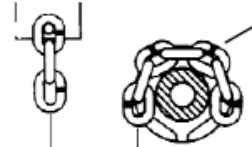
DE: Kettenschweißung

FR: Soudure à chaînes

ES: Autógena de cadena

IT: Saldatura chain

7 Illustrations "H" & "I"



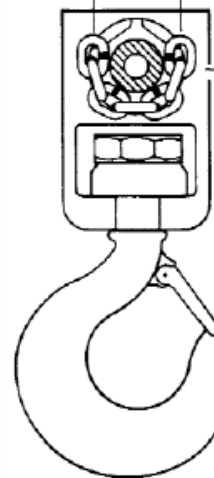
EN: Link chain weld position on hoist sprocket.

DE: Kettenschweißung

FR: Soudure à chaînes

ES: Autógena de cadena

IT: Saldatura chain



EN: Link chain weld position on lower hook sprocket.

DE: Kettenschweißung

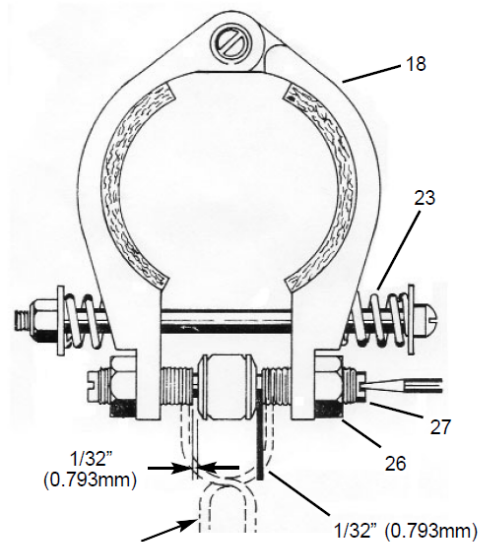
FR: Soudure à chaînes

ES: Autógena de cadena

IT: Saldatura chain

Service Notes 8

8 Illustration "J"



| | |
|---------------------------------------|-------------|
| EN: Valve Spring Compressor | EN: Gauge |
| DE: Ventulfeder-Kompressor | DE: Lehre |
| FR: Compresseur de ressort de valve | FR: Mesure |
| ES: Compresor del resorte de válvula | ES: Galga |
| IT: Compresore della molla di valvola | IT: Calibro |

EN: Brake Adjustment: loosen lock nuts and turn adjusting screws until there is a 1/32" (0.793mm) clearance between the plunger and the threaded end of the adjusting screw.

DE: Justieren Sie Bremse: Lösen Sie die Kontermuttern und drehen Sie die Justierschrauben, um einen 0.793mm Abstand zwischen der Stange und dem Ende der Justierschraube zu erzielen.

FR: Ajustez le frein: Détachez les contre-écrous et tournez les vis d'approche, afin d'obtenir une distance de 0.793mm entre la barre et l'extrémité de la vis d'approche.

ES: Ajuste el freno: Afloje las tuercas de fijación y dé vuelta a los tornillos de ajuste, para obtener una distancia de 0.793mm entre la barra y la punta del tornillo de ajuste.

IT: Registri il freno: Allenti i controdadi e giri le viti di registrazione, per ottenere una distanza di 0.793mm fra la barra e l'estremità della vite di registrazione

Lifting and Lowering Speeds

| P3()22L... | | | | | | | | | | | | |
|--------------|--------|-----------|------------|------|------|------|------|------|------|------|------|------|
| Air Pressure | | Direction | Load | | | | | | | | | |
| | | | lbs. | kg | lbs. | kg | lbs. | kg | lbs. | kg | lbs. | kg |
| | | | 0 | 0 | 500 | 227 | 1000 | 454 | 1500 | 680 | 2200 | 1000 |
| | | | Load Speed | | | | | | | | | |
| PSI | Kg/CM2 | | fpm | mpm | fpm | mpm | fpm | mpm | fpm | mpm | fpm | mpm |
| 90 | 6.3 | Lift | 76 | 23.2 | 68 | 20.7 | 56 | 17.1 | 40 | 12.2 | 34 | 10.4 |
| | | Lower | 78 | 23.8 | 94 | 28.6 | 102 | 31.1 | 116 | 35.4 | 120 | 36.6 |
| 80 | 5.8 | Lift | 72 | 21.9 | 66 | 20.1 | 52 | 15.8 | 38 | 11.6 | 28 | 8.5 |
| | | Lower | 74 | 22.5 | 92 | 28.0 | 100 | 31.5 | 106 | 32.3 | 120 | 36.6 |
| 70 | 4.9 | Lift | 66 | 20.1 | 64 | 19.5 | 48 | 14.6 | 34 | 10.4 | 20 | 6.1 |
| | | Lower | 68 | 20.7 | 90 | 27.4 | 100 | 30.5 | 104 | 31.7 | 110 | 33.5 |
| 60 | 4.2 | Lift | 64 | 19.5 | 60 | 18.3 | 42 | 12.8 | 26 | 7.9 | 16 | 4.9 |
| | | Lower | 65 | 19.8 | 88 | 26.8 | 94 | 28.6 | 102 | 31.1 | 108 | 32.9 |
| 50 | 3.5 | Lift | 52 | 15.8 | 54 | 16.5 | 32 | 9.7 | 20 | 6.1 | -- | -- |
| | | Lower | 52 | 15.8 | 80 | 24.4 | 82 | 25.0 | 94 | 28.6 | -- | -- |
| 40 | 2.8 | Lift | 40 | 12.2 | 40 | 12.2 | 24 | 7.3 | -- | -- | -- | -- |
| | | Lower | 40 | 12.2 | 64 | 19.5 | 66 | 20.1 | -- | -- | -- | -- |

| P3()43L | | | | | | | | | | | | |
|--------------|--------|-----------|------------|------|------|------|------|------|------|------|------|------|
| Air Pressure | | Direction | Load | | | | | | | | | |
| | | | lbs. | kg | lbs. | kg | lbs. | kg | lbs. | kg | lbs. | kg |
| | | | 0 | 0 | 1000 | 454 | 2000 | 907 | 3000 | 1361 | 4300 | 1951 |
| | | | Load Speed | | | | | | | | | |
| PSI | Kg/CM2 | | fpm | mpm | fpm | mpm | fpm | mpm | fpm | mpm | fpm | mpm |
| 90 | 6.3 | Lift | 38 | 11.6 | 34 | 10.4 | 28 | 8.5 | 20 | 6.1 | 17 | 5.2 |
| | | Lower | 39 | 11.9 | 47 | 14.3 | 51 | 15.5 | 58 | 17.6 | 60 | 18.3 |
| 80 | 5.8 | Lift | 36 | 11.0 | 33 | 10.1 | 26 | 7.9 | 19 | 5.8 | 14 | 4.3 |
| | | Lower | 37 | 11.3 | 46 | 14.0 | 50 | 15.2 | 53 | 16.1 | 60 | 18.3 |
| 70 | 4.9 | Lift | 33 | 10.1 | 32 | 9.7 | 24 | 7.3 | 17 | 5.2 | 10 | 3.0 |
| | | Lower | 34 | 10.4 | 45 | 13.7 | 50 | 15.2 | 52 | 15.8 | 55 | 16.8 |
| 60 | 4.2 | Lift | 32 | 9.7 | 30 | 9.1 | 21 | 6.4 | 13 | 3.9 | 8 | 2.4 |
| | | Lower | 32 | 9.7 | 44 | 13.4 | 47 | 14.3 | 51 | 15.5 | 54 | 16.5 |
| 50 | 3.5 | Lift | 26 | 7.9 | 27 | 8.2 | 16 | 4.9 | 10 | 3.0 | -- | -- |
| | | Lower | 26 | 7.9 | 40 | 12.2 | 41 | 12.5 | 47 | 14.3 | -- | -- |
| 40 | 2.8 | Lift | 20 | 6.1 | 20 | 6.1 | 12 | 3.6 | -- | -- | -- | -- |
| | | Lower | 20 | 6.1 | 32 | 9.7 | 33 | 10.1 | -- | -- | -- | -- |



Lifting and Lowering Speeds cont'd

| P3()80L | | | | | | | | | | | | | | | | | | | | |
|--------------|--------|-----------|-----------|-----|------|-----|------|-----|------|------|------|------|------|------|------|------|------|------|------|------|
| Air Pressure | | Direction | Load | | | | | | | | | | | | | | | | | |
| | | | lbs. | kg | lbs. | kg | lbs. | kg | lbs. | kg | lbs. | kg | lbs. | kg | lbs. | kg | lbs. | kg | | |
| | | | 0 | 0 | 1000 | 454 | 2000 | 907 | 3000 | 1361 | 4000 | 1814 | 5000 | 2268 | 6000 | 2722 | 7000 | 3175 | 8000 | 3629 |
| PSI | Kg/CM2 | | LoadSpeed | | | | | | | | | | | | | | | | | |
| | | | fpm | mpm | fpm | mpm | fpm | mpm | fpm | mpm | fpm | mpm | fpm | mpm | fpm | mpm | fpm | mpm | | |
| 90 | 6.3 | Lift | 19 | 5.8 | 18 | 5.5 | 17 | 5.2 | 16 | 4.9 | 14 | 4.3 | 12 | 3.6 | 10 | 3.0 | 9 | 2.7 | 8 | 2.4 |
| | | Lower | 19 | 5.8 | 21 | 6.4 | 23 | 7.0 | 24 | 7.3 | 25 | 7.6 | 27 | 8.2 | 29 | 8.8 | 29 | 8.8 | 30 | 9.1 |
| 80 | 5.8 | Lift | 18 | 5.5 | 17 | 5.2 | 16 | 4.9 | 15 | 4.6 | 13 | 3.9 | 11 | 3.4 | 9 | 2.7 | 8 | 2.4 | 7 | 2.1 |
| | | Lower | 18 | 5.5 | 20 | 6.1 | 23 | 7.0 | 24 | 7.3 | 25 | 7.6 | 25 | 7.6 | 26 | 7.9 | 28 | 8.5 | 30 | 9.1 |
| 70 | 4.9 | Lift | 16 | 4.9 | 16 | 4.9 | 16 | 4.9 | 14 | 4.3 | 12 | 3.6 | 10 | 3.0 | 8 | 2.4 | 6 | 1.8 | 5 | 1.5 |
| | | Lower | 17 | 5.2 | 19 | 5.8 | 22 | 6.7 | 23 | 7.0 | 25 | 7.6 | 25 | 7.6 | 26 | 7.9 | 26 | 7.9 | 27 | 8.2 |
| 60 | 4.2 | Lift | 16 | 4.9 | 15 | 4.6 | 15 | 4.6 | 12 | 3.6 | 10 | 3.0 | 8 | 2.4 | 7 | 2.1 | 6 | 1.8 | 4 | 1.2 |
| | | Lower | 16 | 4.9 | 19 | 5.8 | 22 | 6.7 | 22 | 6.7 | 23 | 7.0 | 24 | 7.3 | 25 | 7.6 | 26 | 7.9 | 27 | 8.2 |
| 50 | 3.5 | Lift | 13 | 3.9 | 13 | 3.9 | 13 | 3.9 | 10 | 3.0 | 8 | 2.4 | 7 | 2.1 | 5 | 1.5 | -- | -- | -- | -- |
| | | Lower | 13 | 3.9 | 16 | 4.9 | 20 | 6.1 | 20 | 6.1 | 20 | 6.1 | 21 | 6.4 | 23 | 7.0 | -- | -- | -- | -- |
| 40 | 2.8 | Lift | 10 | 3.0 | 10 | 3.0 | 10 | 3.0 | 8 | 2.4 | 6 | 1.8 | -- | -- | -- | -- | -- | -- | -- | -- |
| | | Lower | 10 | 3.0 | 14 | 4.3 | 16 | 4.9 | 16 | 4.9 | 16 | 4.9 | -- | -- | -- | -- | -- | -- | -- | -- |





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GD-HOIST

5215 S. Emmer Dr.
New Berlin, WI 53151
Phone: 262-710-4185
Fax: 262-796-1194
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