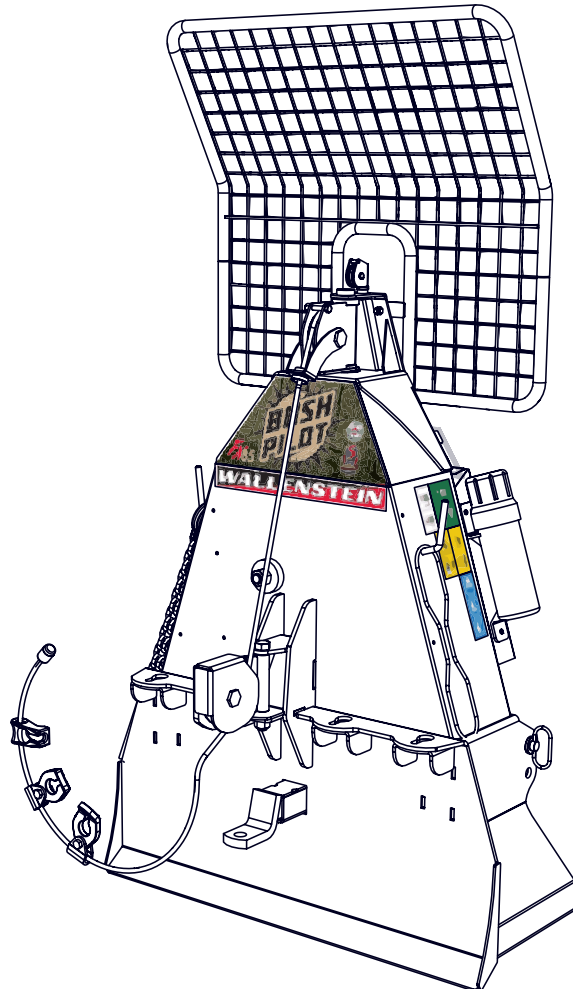




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# FX85 and FX85R Skidding Winch Parts Manual

S/N 5851 & After



Refer to the operators  
manual for safe  
operation and  
maintenance

5011T100 FX85 Rev A Parts Manual  
Rev # 130417

## Foreword

EMB Mfg. has prepared this parts manual to assist customers in ordering quality OEM replacement parts.

Proper and regular service and replacing old, worn or broken parts with the correct Wallenstein parts are essential to prolonging the life of your Wallenstein product. Please refer to this manual before ordering any replacement parts.

All information contained in this parts manual is based on the latest product specification available at the time of printing this manual. If your product differs from the specifications contained within this manual contact EMB Mfg. for information.

EMB reserves the right to alter specifications on their products at any time.

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Maintenance should be performed by  
trained personnel only.



Refer to the operators  
manual for safe  
operation and  
maintenance

**Bolt Torque****CHECKING BOLT TORQUE**

The tables shown below give correct torque values for various bolts and capscrews. Tighten all bolts to the torques specified in chart unless otherwise noted. Check tightness of bolts periodically, using bolt torque chart as a guide. Replace hardware with the same strength bolt.

**ENGLISH TORQUE SPECIFICATIONS**

| Bolt Diameter "A" | Bolt Torque*           |     |                        |     |                        |     |
|-------------------|------------------------|-----|------------------------|-----|------------------------|-----|
|                   | SAE 2<br>(N.m) (lb-ft) |     | SAE 5<br>(N.m) (lb-ft) |     | SAE 8<br>(N.m) (lb-ft) |     |
| 1/4"              | 8                      | 6   | 12                     | 9   | 17                     | 12  |
| 5/16"             | 13                     | 10  | 25                     | 19  | 36                     | 27  |
| 3/8"              | 27                     | 20  | 45                     | 33  | 63                     | 45  |
| 7/16"             | 41                     | 30  | 72                     | 53  | 100                    | 75  |
| 1/2"              | 61                     | 45  | 110                    | 80  | 155                    | 115 |
| 9/16"             | 95                     | 60  | 155                    | 115 | 220                    | 165 |
| 5/8"              | 128                    | 95  | 215                    | 160 | 305                    | 220 |
| 3/4"              | 225                    | 165 | 390                    | 290 | 540                    | 400 |
| 7/8"              | 230                    | 170 | 570                    | 420 | 880                    | 650 |
| 1"                | 345                    | 225 | 850                    | 630 | 1320                   | 970 |

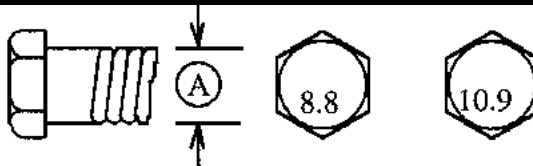
SAE-2

SAE-5

SAE-8

**METRIC TORQUE SPECIFICATIONS**

| Bolt Diameter "A" | Bolt Torque*         |      |                       |      |
|-------------------|----------------------|------|-----------------------|------|
|                   | 8.8<br>(N.m) (lb-ft) |      | 10.9<br>(N.m) (lb-ft) |      |
| M3                | 0.5                  | 0.4  | 1.8                   | 1.3  |
| M4                | 3                    | 2.2  | 4.5                   | 3.3  |
| M5                | 6                    | 4    | 9                     | 7    |
| M6                | 10                   | 7    | 15                    | 11   |
| M8                | 25                   | 18   | 35                    | 26   |
| M10               | 50                   | 37   | 70                    | 52   |
| M12               | 90                   | 66   | 125                   | 92   |
| M14               | 140                  | 103  | 200                   | 148  |
| M16               | 225                  | 166  | 310                   | 229  |
| M20               | 435                  | 321  | 610                   | 450  |
| M24               | 750                  | 553  | 1050                  | 774  |
| M30               | 1495                 | 1103 | 2100                  | 1550 |
| M36               | 2600                 | 1917 | 3675                  | 2710 |



Torque figures indicated above are valid for non-greased or non-oiled threads and heads unless otherwise specified. Therefore, do not grease or oil bolts or capscrews unless otherwise specified in this manual. When using locking elements, increase torque values by 5%.

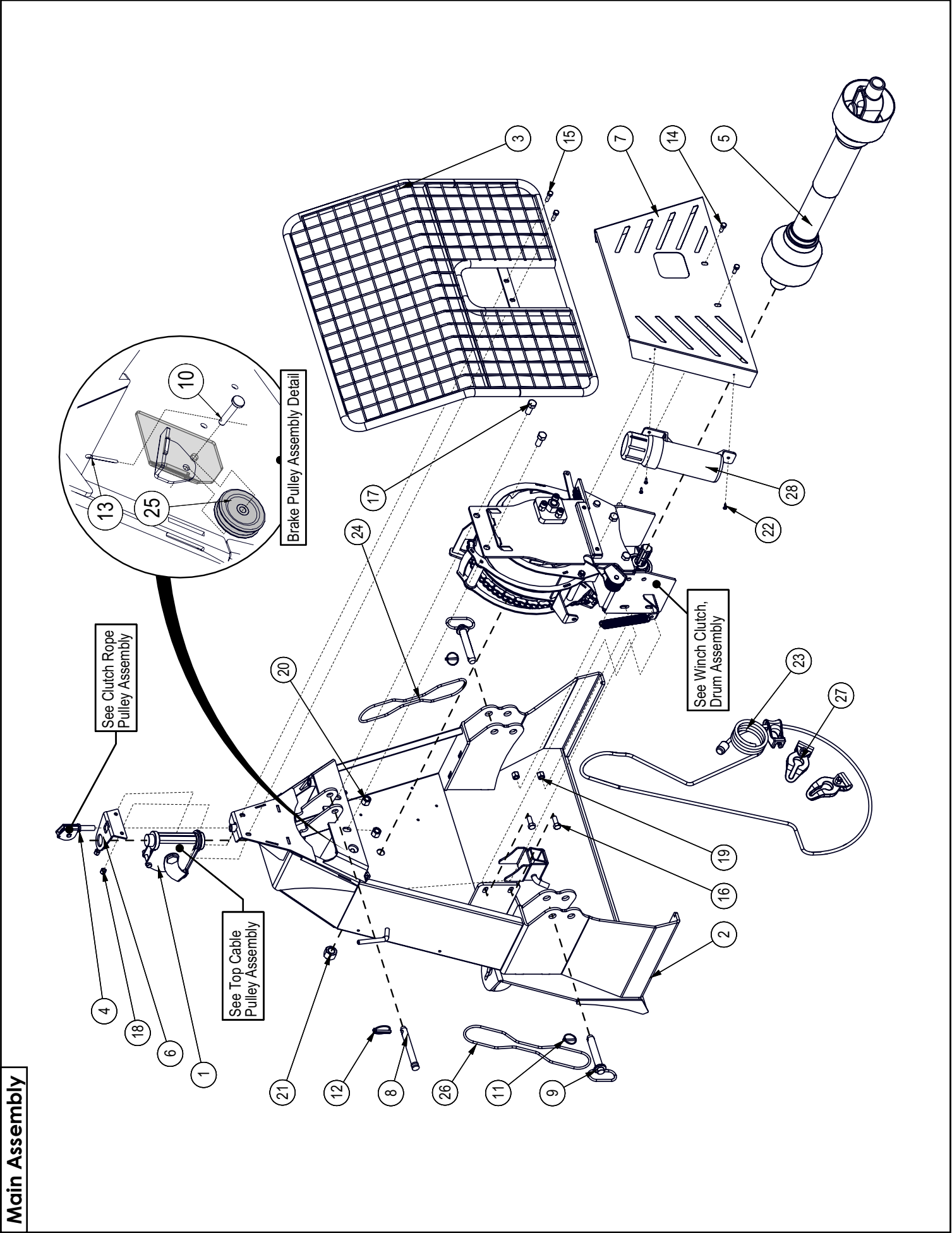
\* Torque value for bolts and capscrews are identified by their head markings.

## Hydraulic Fitting Torque

### Tightening Flare Type Tube Fittings \*

1. Check flare and flare seat for defects that might cause leakage.
  2. Align tube with fitting before tightening.
  3. Lubricate connection and hand tighten swivel nut until snug.
  4. To prevent twisting the tube(s), use two wrenches. Place one wrench on the connector body and with the second tighten the swivel nut to the torque shown.
- The torque values shown are based on lubricated connections as in reassembly.

| HYDRAULIC FITTING TORQUE |                             |               |         |                                                                 |        |
|--------------------------|-----------------------------|---------------|---------|-----------------------------------------------------------------|--------|
| Tube Size<br>OD          | Nut Size<br>Across<br>Flats | Torque Value* |         | Recommended<br>Turns To Tighten<br>(After Finger<br>Tightening) |        |
| (in.)                    | (in.)                       | (N.m)         | (lb-ft) | (Flats)                                                         | (Turn) |
| 3/16                     | 7/16                        | 8             | 6       | 1                                                               | 1/6    |
| 1/4                      | 9/16                        | 12            | 9       | 1                                                               | 1/6    |
| 5/16                     | 5/8                         | 16            | 12      | 1                                                               | 1/6    |
| 3/8                      | 11/16                       | 24            | 18      | 1                                                               | 1/6    |
| 1/2                      | 7/8                         | 46            | 34      | 1                                                               | 1/6    |
| 5/8                      | 1                           | 62            | 46      | 1                                                               | 1/6    |
| 3/4                      | 1-1/4                       | 102           | 75      | 3/4                                                             | 1/8    |
| 7/8                      | 1-3/8                       | 122           | 90      | 3/4                                                             | 1/8    |



Main Assembly

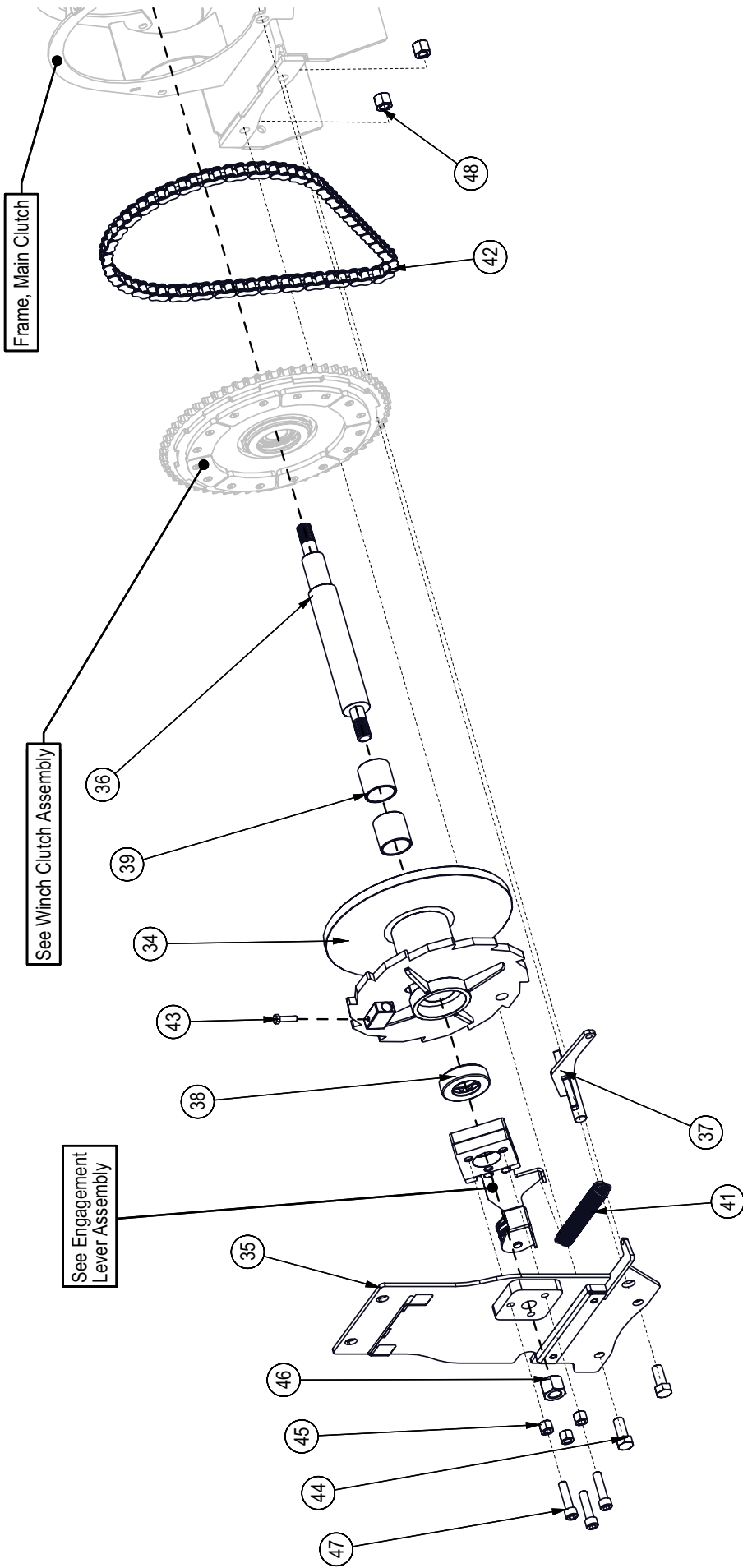
Main Assembly - Parts List.

Clutch Pulley

| BOM ID | Description | Description                | Qty |
|--------|-------------|----------------------------|-----|
| 29     | 5012A207    | Clutch Rope Pulley         | 1   |
| 30     | 5012W215    | Clutch Rope Pulley Housing | 1   |
| 31     | Z11311      | Clevis Pin, 1/4" x 1-1/8"  | 1   |
| 32     | Z12311      | Cotter Pin, 1/8" x 1"      | 1   |
| 33     | Z92203      | 1/4 Groove Pulley 2 Diam.  | 1   |

| BOM ID | Part No. | Description                           | Qty |
|--------|----------|---------------------------------------|-----|
| 1      | 5011A514 | Top Cable Pulley                      | 1   |
| 2      | 5011W020 | Main Frame                            | 1   |
| 3      | 5011W022 | Safety Screen                         | 1   |
| 4      | 5012W215 | Clutch Rope Pulley Housing            | 1   |
| 5      | Z44402   | #4 Global PTO Shaft M8 Shear          | 1   |
| 6      | 5011L636 | Bracket, Top Pulley Capture           | 1   |
| 7      | 5011L686 | Lower Protective Shield               | 1   |
| 8      | Z11123   | Toplink Pin, 3/4" x 4-3/4"            | 1   |
| 9      | Z11251   | Hitch Pin, 7/8" x 4-1/4"              | 2   |
| 10     | Z11311   | Clevis Pin, 1/4" x 1-1/8"             | 2   |
| 11     | Z12110   | Lynch Pin, 3/16"                      | 2   |
| 12     | Z12140   | Lynch Pin, 7/16"                      | 1   |
| 13     | Z12311   | Cotter Pin, 1/8" x 1"                 | 2   |
| 14     | Z76133   | Flange Bolt, 3/8NC x 3/4"             | 2   |
| 15     | Z76137   | Flange Bolt, 3/8NC x 1-1/4"           | 2   |
| 16     | Z76156   | Flange Bolt, 1/2NC x 1-1/2"           | 2   |
| 17     | Z76161   | Flange Bolt, 5/8NC x 1-1/2"           | 2   |
| 18     | Z72231   | Hex Lock Nut, 3/8NC                   | 2   |
| 19     | Z72251   | Hex Lock Nut, 1/2NC                   | 2   |
| 20     | Z72261   | Hex Lock Nut, 5/8NC                   | 2   |
| 21     | Z72281   | Hex Lock Nut, 7/8NC                   | 1   |
| 22     | Z76721   | Self-tapping Screw, 1/4 x 3/4"        | 3   |
| 23     | Z92119   | Winch Cable, 3/8" x 165ft, Forged End | 1   |
| 24     | Z92201   | Clutch Control Rope                   | 1   |
| 25     | Z92203   | 1/4 Groove Pulley 2 Diam.             | 2   |
| 26     | Z92205   | Drum Brake Rope 18'                   | 1   |
| 27     | Z92301   | Keyhole Slider                        | 2   |
| 28     | Z96503   | Manual Tube 3-1/2 Short               | 1   |

Cable Drum Assembly

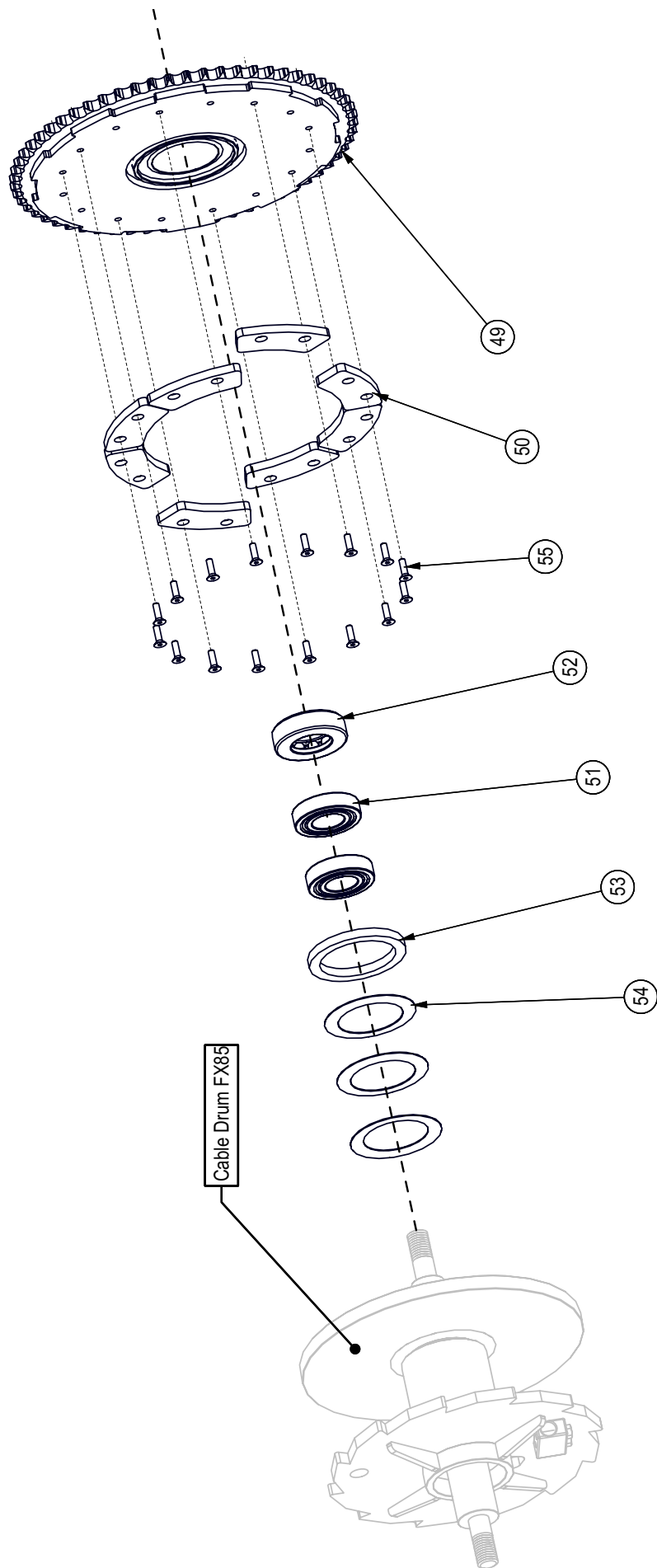


| BOM ID | Part No. | Description                                        | Qty |
|--------|----------|----------------------------------------------------|-----|
| 34     | 5011W006 | FX65 Cable Drum                                    | 1   |
| 35     | 5011W016 | Clutch Back Plate                                  | 1   |
| 36     | 5012M214 | Main Drum Shaft                                    | 1   |
| 37     | 5012W206 | Lock Dog                                           | 1   |
| 38     | Z22101   | 1-3/4 Bore Shielded Thrust Bearing                 | 1   |
| 39     | Z27101   | Fiberglide Bearing 1-3/4" ID x 2" long x 1/8" wall | 2   |
| 41     | Z31405   | Ext Spring, 7/8" OD x 7" x 0.125"                  | 1   |

| BOM ID | Part No. | Description                 | Qty |
|--------|----------|-----------------------------|-----|
| 42     | Z42152   | Roller Chain, #60x74 links  | 1   |
| 43     | Z71212   | Hex Bolt, 5/16NC x 1-1/4"   | 1   |
| 44     | Z76161   | Flange Bolt, 5/8NC x 1-1/2" | 2   |
| 45     | Z72352   | Jam Nut, 1/2NF              | 3   |
| 46     | Z72281   | Hex Lock Nut, 7/8NC         | 1   |
| 47     | Z75151   | SHCS, 1/2NF x 2"            | 3   |
| 48     | Z72261   | Hex Lock Nut, 5/8NC         | 2   |



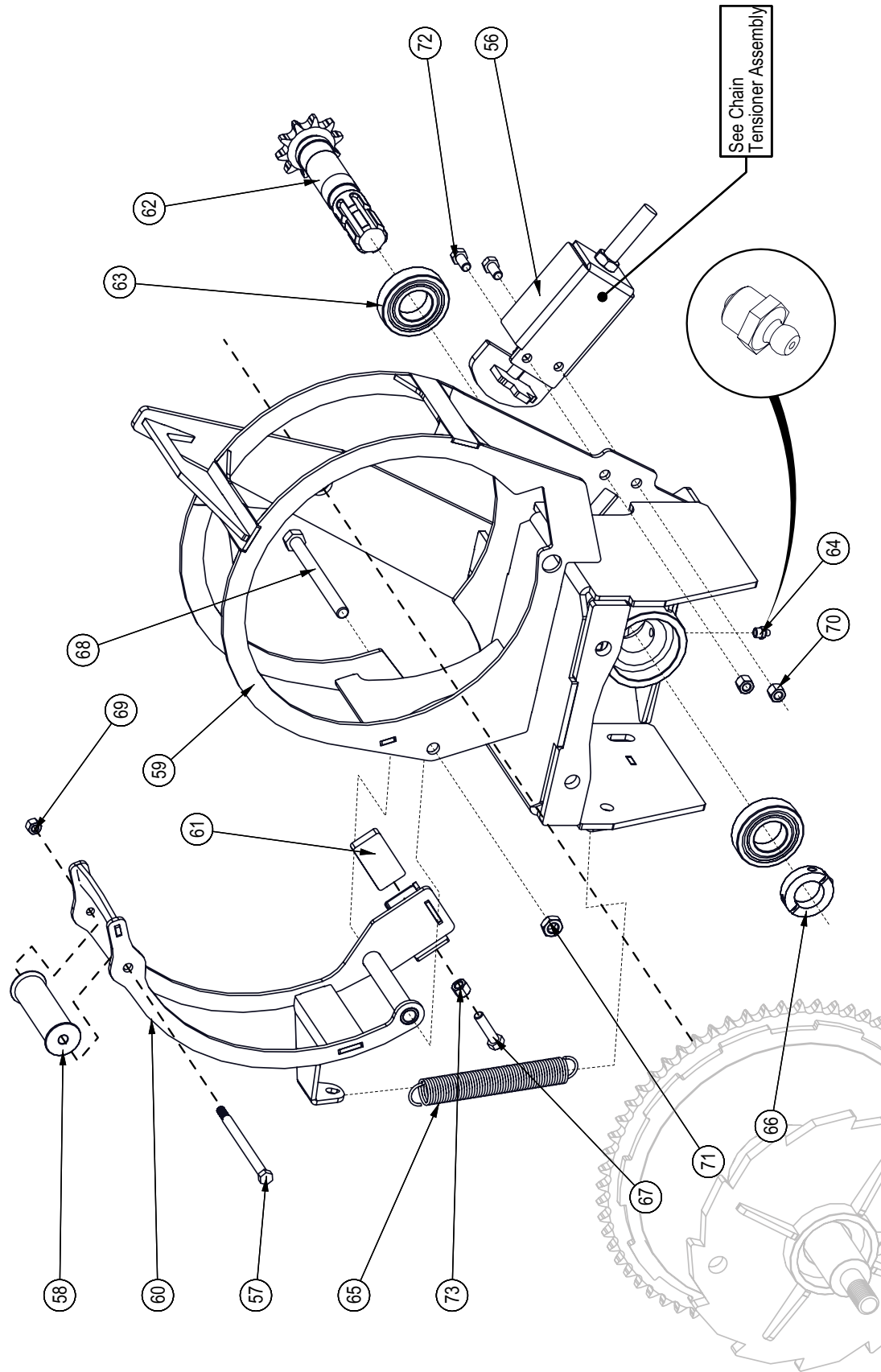
Clutch Assembly



| BOM ID | Part No. | Description                         | Qty |
|--------|----------|-------------------------------------|-----|
| 53     | 5012M228 | Nylon Bearing Washer                | 1   |
| 54     | Z34101   | Cup Spring, 2-3/4" ID x 4" OD x 1mm | 3   |
| 55     | Z75211   | FHCS, 1/4NC x 7/8"                  | 16  |

| BOM ID | Part No. | Description                        | Qty |
|--------|----------|------------------------------------|-----|
| 49     | 5012W209 | 60 Tooth Sprocket                  | 1   |
| 50     | 5011S152 | Pad, Sprocket                      | 8   |
| 51     | Z21202   | Ball Bearing 6207-2RS              | 2   |
| 52     | Z22101   | 1-3/4 Bore Shielded Thrust Bearing | 1   |

Cable Frame Assembly



| BOM ID | Part No. | Description               | Qty |
|--------|----------|---------------------------|-----|
| 56     | 5011A520 | Assembly, Chain Tightener | 1   |
| 57     | 5011M824 | Pin, Cable Roller         | 1   |
| 58     | 5011S155 | Roller, Brake Arm         | 1   |
| 59     | 5011W002 | Frame, Main Clutch        | 1   |
| 60     | 5011W007 | Arm Frame, Anti-Tangle    | 1   |
| 61     | 5012M204 | Block, Drum Brake         | 1   |

| BOM ID | Part No. | Description                          | Qty |
|--------|----------|--------------------------------------|-----|
| 62     | 5012W208 | PTO Spine Shaft w/ Sprocket          | 1   |
| 63     | Z21202   | Ball Bearing 6207-2RS                | 2   |
| 64     | Z29201   | Grease Fitting, 1/8NPT               | 1   |
| 65     | Z31403   | Ext Spring, 27mm OD x 178mm x 0.105" | 1   |
| 66     | Z46311   | Clamp-on Shaft Collar                | 1   |
| 67     | Z71320   | Hex Bolt, 3/8NC x 2"                 | 1   |

| BOM ID | Part No. | Description                    | Qty |
|--------|----------|--------------------------------|-----|
| 68     | Z71555   | Hex Bolt, 1/2NC x 5-1/2"       | 1   |
| 69     | Z72221   | Hex Lock Nut, 5/16NC           | 1   |
| 70     | Z72231   | Hex Lock Nut, 3/8NC            | 2   |
| 71     | Z72351   | Jam Nut, 1/2NC                 | 1   |
| 72     | Z71307   | Hex Bolt, 3/8NC x 3/4"         | 2   |
| 73     | Z72531   | Serrated Flange Locknut, 3/8NC | 1   |

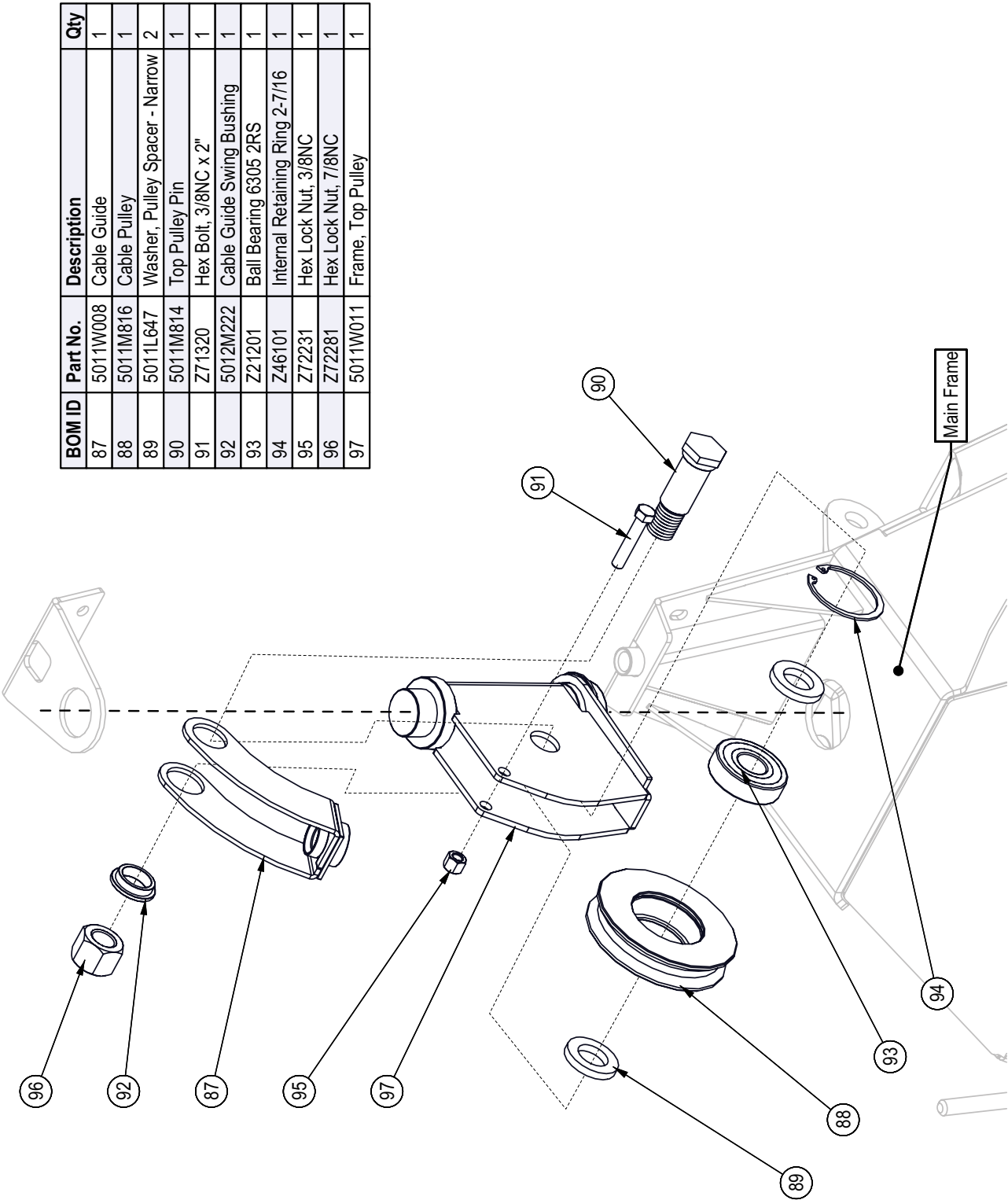
Engagement Lever Assembly

| BOM ID | Part No. | Description                    | Qty |
|--------|----------|--------------------------------|-----|
| 73     | 5012M212 | Clutch Engagmnet Nut           | 1   |
| 74     | Z29101   | Roller Ball, 1/2               | 3   |
| 75     | 5012M213 | Clutch, Engagment Block-Handle | 1   |
| 76     | Z76133   | Flange Bolt, 3/8NC x 3/4"      | 2   |
| 77     | Z11312   | Clevis Pin, 1/4" x 1-5/8"      | 1   |
| 78     | Z12311   | Cotter Pin, 1/8" x 1"          | 1   |
| 79     | Z92203   | 1/4 Groove Pulley 2 Diam.      | 2   |
| 80     | 5011W015 | Arm, Clutch Activator          | 1   |

Chain Tightener Assembly

| BOM ID | Description | Description                      | Qty |
|--------|-------------|----------------------------------|-----|
| 81     | 5012W205    | Chain Tightener Plunger          | 1   |
| 82     | 5011L631    | Base, Auto Chain Tightener       | 1   |
| 83     | Z32401      | Comp Spring, 1" OD x 7" x 0.162" | 1   |
| 84     | Z72531      | Serrated Flange Locknut, 3/8NC   | 2   |
| 85     | Z72261      | Hex Lock Nut, 5/8NC              | 1   |

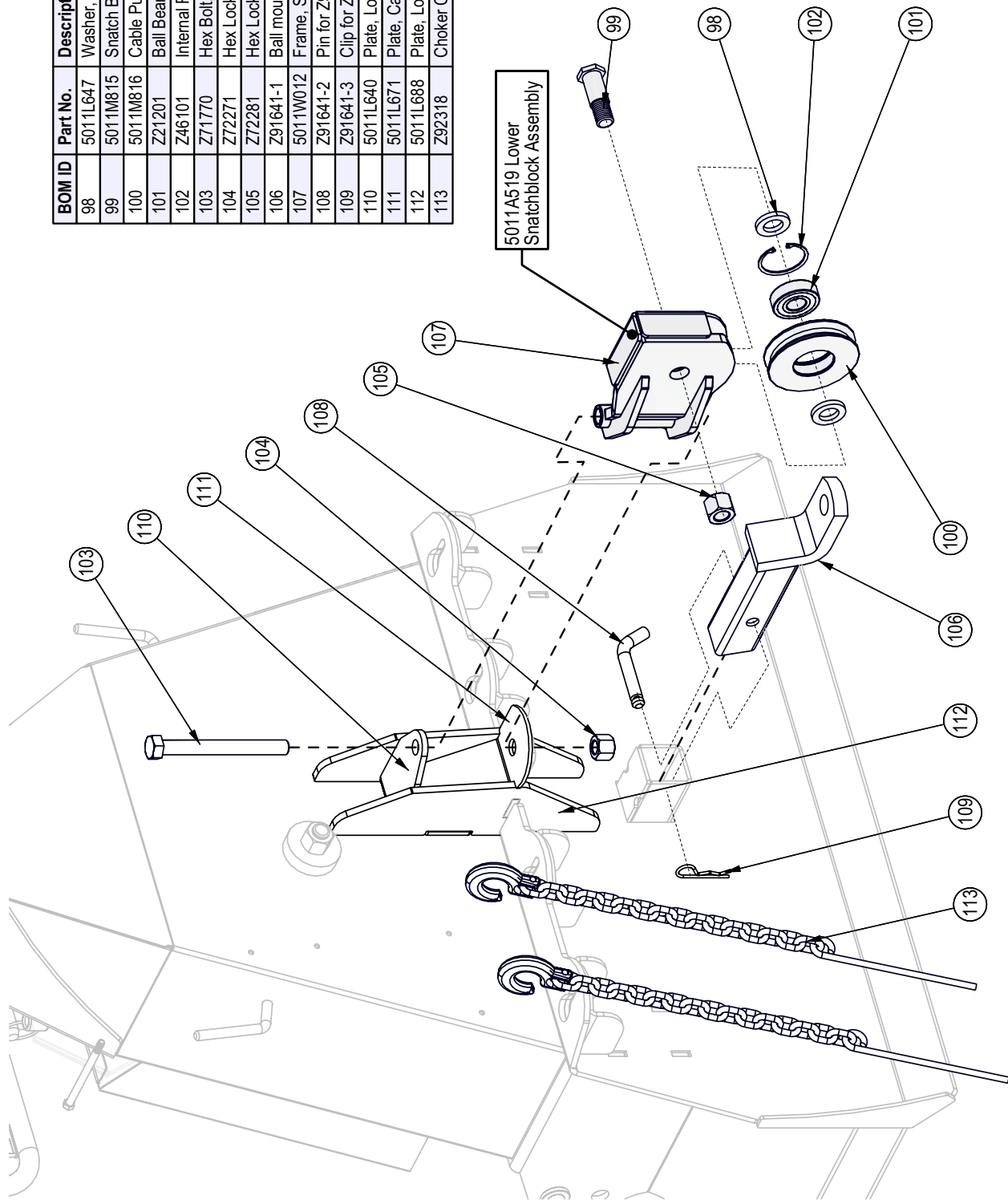
Top Cable Pulley Assembly



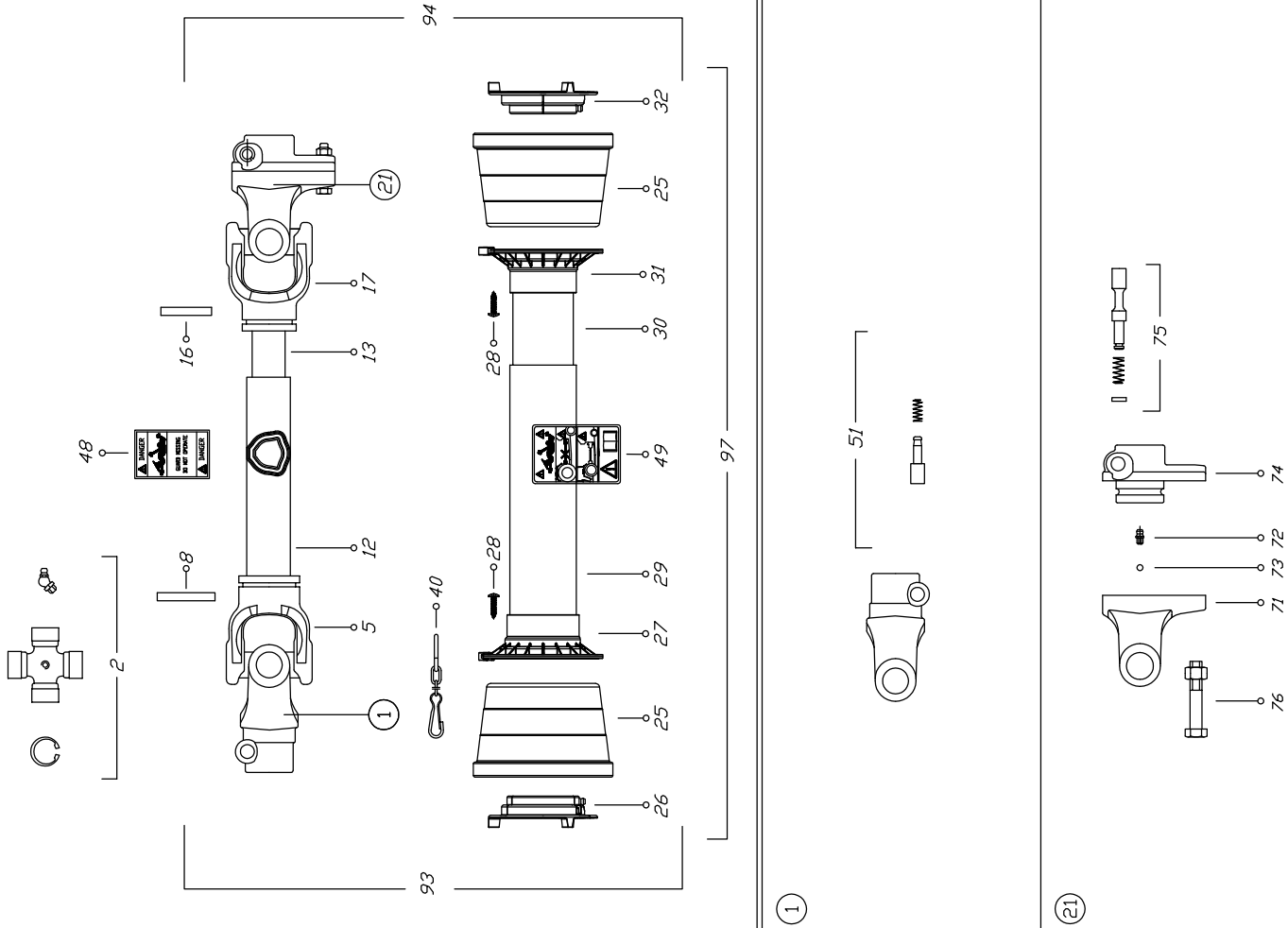
| BOM ID | Part No. | Description                    | Qty |
|--------|----------|--------------------------------|-----|
| 87     | 5011W008 | Cable Guide                    | 1   |
| 88     | 5011M816 | Cable Pulley                   | 1   |
| 89     | 5011L647 | Washer, Pulley Spacer - Narrow | 2   |
| 90     | 5011M814 | Top Pulley Pin                 | 1   |
| 91     | Z71320   | Hex Bolt, 3/8NC x 2"           | 1   |
| 92     | 5012M222 | Cable Guide Swing Bushing      | 1   |
| 93     | Z21201   | Ball Bearing 6305 2RS          | 1   |
| 94     | Z46101   | Internal Retaining Ring 2-7/16 | 1   |
| 95     | Z72231   | Hex Lock Nut, 3/8NC            | 1   |
| 96     | Z72281   | Hex Lock Nut, 7/8NC            | 1   |
| 97     | 5011W011 | Frame, Top Pulley              | 1   |

Snatch Block Assembly

| BOM ID | Part No. | Description                    | Qty |
|--------|----------|--------------------------------|-----|
| 98     | 5011L647 | Washer, Pulley Spacer - Narrow | 2   |
| 99     | 5011M815 | Snatch Block, Pulley Pin       | 1   |
| 100    | 5011M816 | Cable Pulley                   | 1   |
| 101    | Z21201   | Ball Bearing 6305 2RS          | 1   |
| 102    | Z46101   | Internal Retaining Ring 2-7/16 | 1   |
| 103    | Z71770   | Hex Bolt, 3/4NC x 7"           | 1   |
| 104    | Z72271   | Hex Lock Nut, 3/4NC            | 1   |
| 105    | Z72281   | Hex Lock Nut, 7/8NC            | 1   |
| 106    | Z91641-1 | Ball mount for Z91641          | 1   |
| 107    | 5011W012 | Frame, Snatchblock             | 1   |
| 108    | Z91641-2 | Pin for Z91641                 | 1   |
| 109    | Z91641-3 | Clip for Z91641                | 1   |
| 110    | 5011L640 | Plate, Lower Pulley Mount      | 1   |
| 111    | 5011L671 | Plate, Cable Lock              | 1   |
| 112    | 5011L688 | Plate, Lower Pulley            | 2   |
| 113    | Z92318   | Choker Chain, 5/16" x 90"      | 2   |



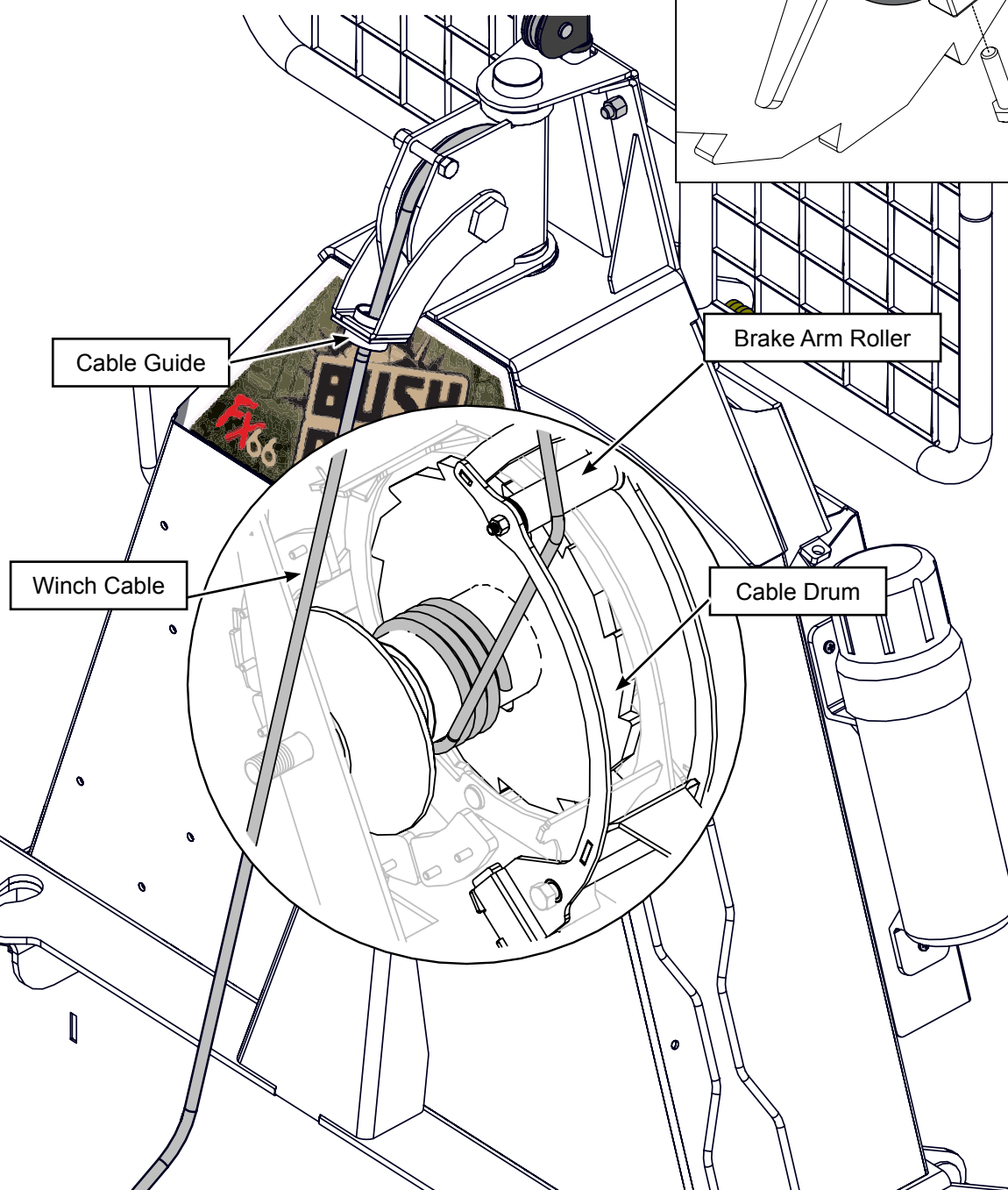
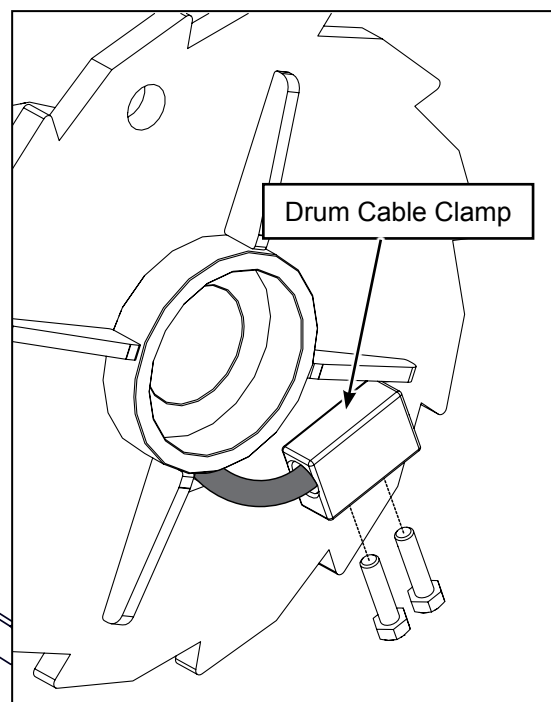
PTO Shaft



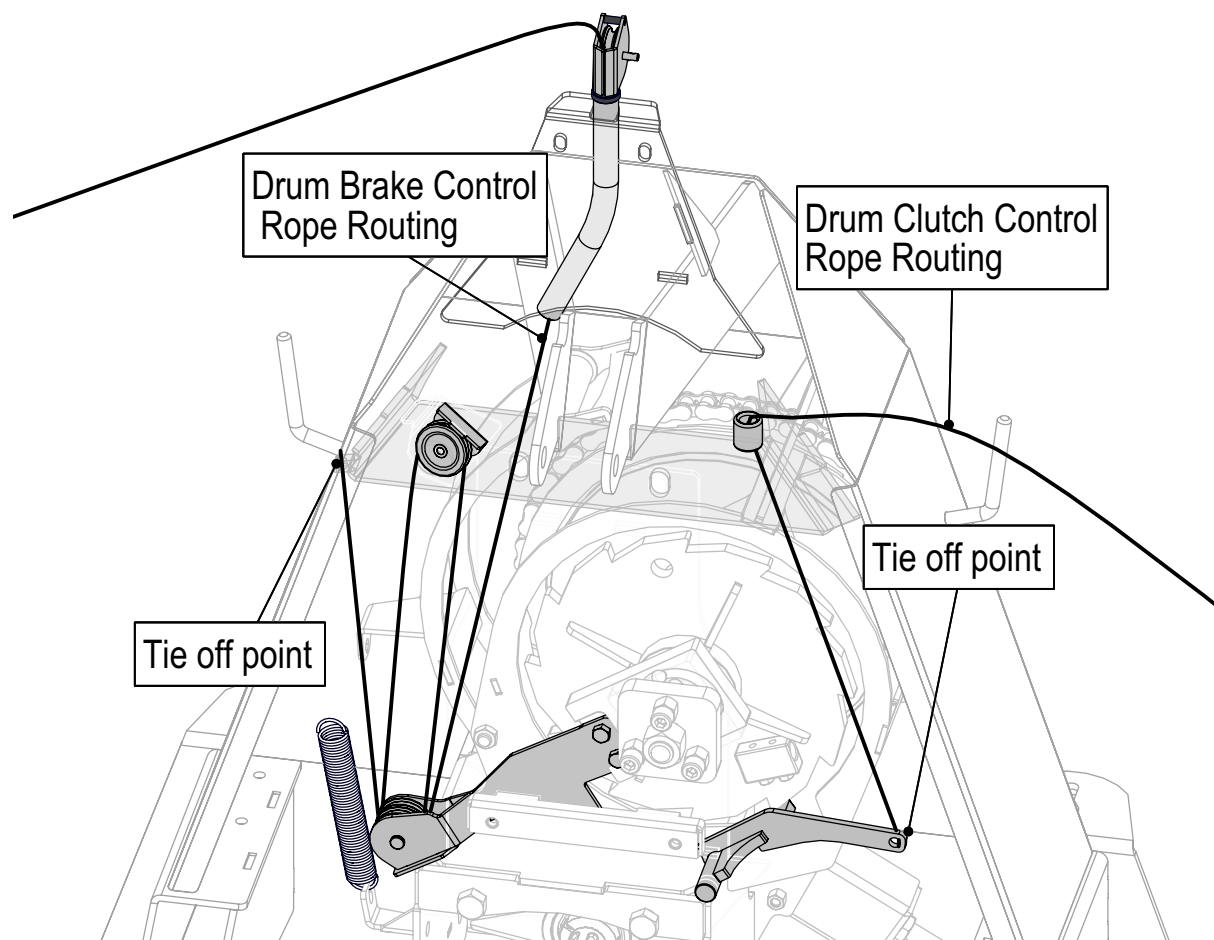
| Binacchi SPARE PARTS LIST : B4N061USA60098 |                                  |    |               |
|--------------------------------------------|----------------------------------|----|---------------|
| POS.                                       | DESCRIPTION                      | Q. | Part #        |
| 01                                         | YOKE                             | 1  | 0800403       |
| 02                                         | CROSS JOURNAL ASS.               | 2  | 08204         |
| 05                                         | OUTER TUBE YOKE                  | 1  | 08004021      |
| 08                                         | FLEXIBLE PIN                     | 1  | 098700860     |
| 12                                         | CM. 100 CARDAN TUBE(*)           | 1  | 09881433100   |
| 13                                         | CM. 100 CARDAN TUBE(*)           | 1  | 09881364100   |
| 16                                         | FLEXIBLE PIN                     | 1  | 098700855     |
| 17                                         | INNER TUBE YOKE                  | 1  | 08004011      |
| 21                                         | SHEAR BOLT M8X1.25X45            | 1  | Z44902        |
| 25                                         | CONE SHIELD BELL 03-04           | 2  | 021904C001    |
| 26                                         | OUTER BEARING 03-04              | 1  | 025504C001    |
| 27                                         | OUTER BASE CONE 03-04            | 1  | 025404C001    |
| 28                                         | SCREW                            | 6  | 0988052242    |
| 29                                         | OUTER SAFETY TUBE                | 1  | 0988966NB4061 |
| 30                                         | INNER SAFETY TUBE                | 1  | 0988961NB4061 |
| 31                                         | INNER BASE CONE 03-04            | 1  | 025404C002    |
| 32                                         | INNER BEARING 03-04              | 1  | 025504C002    |
| 40                                         | CHAIN                            | 1  | 0252000001    |
| 48                                         | LABEL DANGER OUTER DRIVE TUBE    | 1  | 09872006      |
| 49                                         | EXTERNAL SHIELD LABEL            | 1  | 09872003      |
| 51                                         | COMPLETE PUSH BUTTION            | 1  | 0986014047    |
| 71                                         | YOKE FOR LB4                     | 1  | 08896904      |
| 72                                         | GREASE NIPPLE                    | 1  | 0984010150    |
| 73                                         | STEEL BALL                       | 23 | 098680104     |
| 74                                         | HUB                              | 1  | 088964        |
| 75                                         | PUSH PIN SET                     | 1  | 0986014075    |
| 76                                         | NUT AND BOLT M8 x 1.25 x 45 10.9 | 1  | Z44902        |
| 93                                         | OUTER HALF SHAFT                 | 1  | B4N061US2     |
| 94                                         | INNER HALF SHAFT                 | 1  | B4N061US1098  |
| 97                                         | SAFETY GUARD                     | 1  | 083US04061    |

**Cable Install**

Feed cable through the eye of cable guide and over the pulley down into drum. Cable must be routed under brake roller on drum band coiler. Insert cable into hole in drum and tighten clamp.

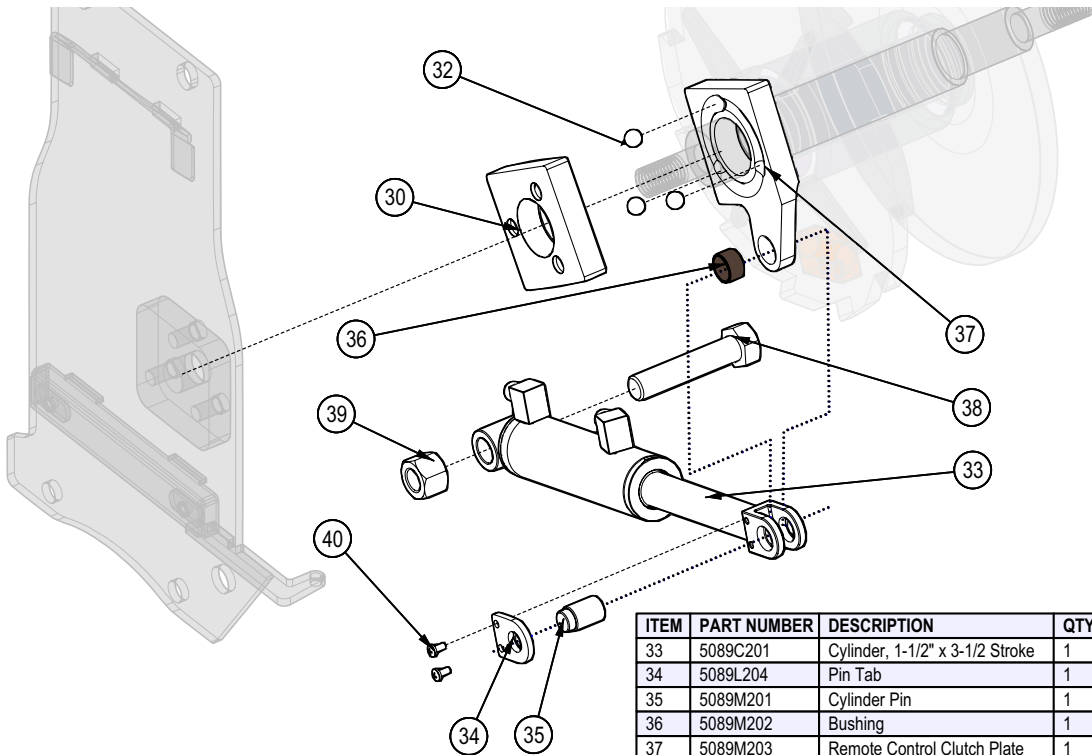




**Brake & Clutch Rope Routing**

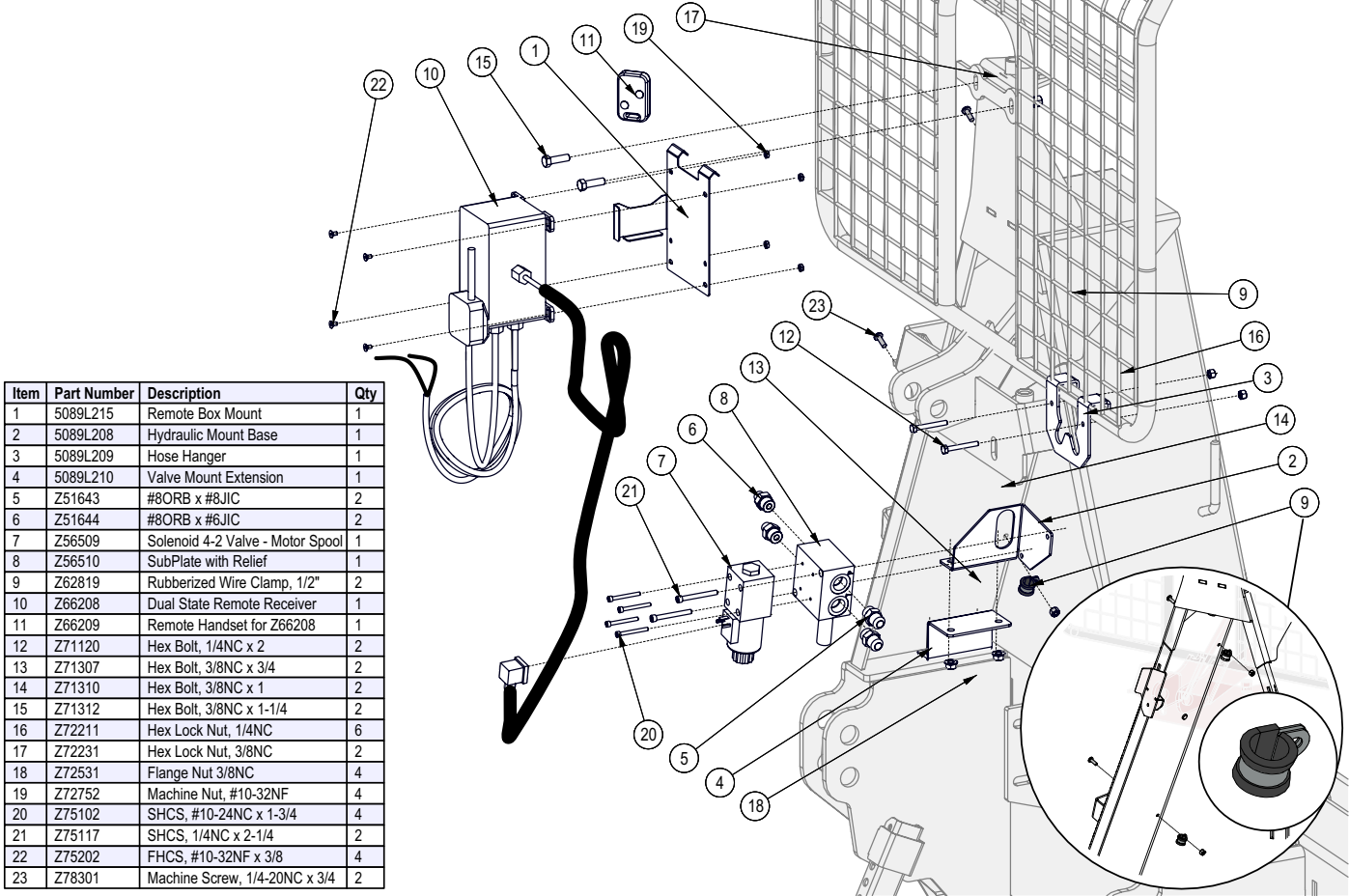


Cylinder / Clutch Plate Assembly - FX85R



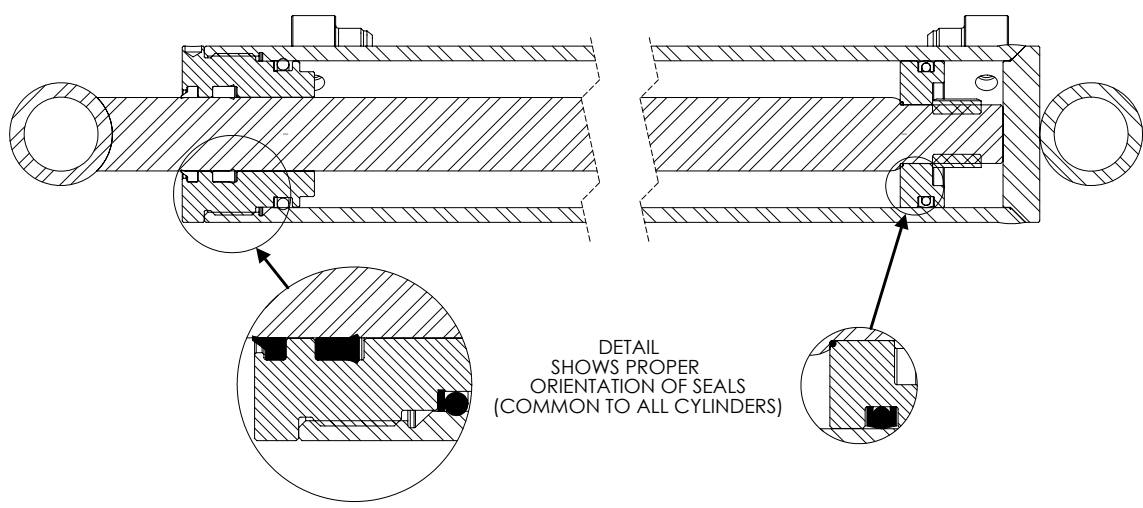
| ITEM | PART NUMBER | DESCRIPTION                     | QTY |
|------|-------------|---------------------------------|-----|
| 33   | 5089C201    | Cylinder, 1-1/2" x 3-1/2 Stroke | 1   |
| 34   | 5089L204    | Pin Tab                         | 1   |
| 35   | 5089M201    | Cylinder Pin                    | 1   |
| 36   | 5089M202    | Bushing                         | 1   |
| 37   | 5089M203    | Remote Control Clutch Plate     | 1   |
| 38   | Z71735      | Hex Bolt, 3/4NC x 3-1/2         | 1   |
| 39   | Z72271      | Hex Lock Nut, 3/4NC             | 1   |
| 40   | Z78302      | Machine Screw, #10-32NF x 3/8   | 2   |

Remote Control Components - FX85R

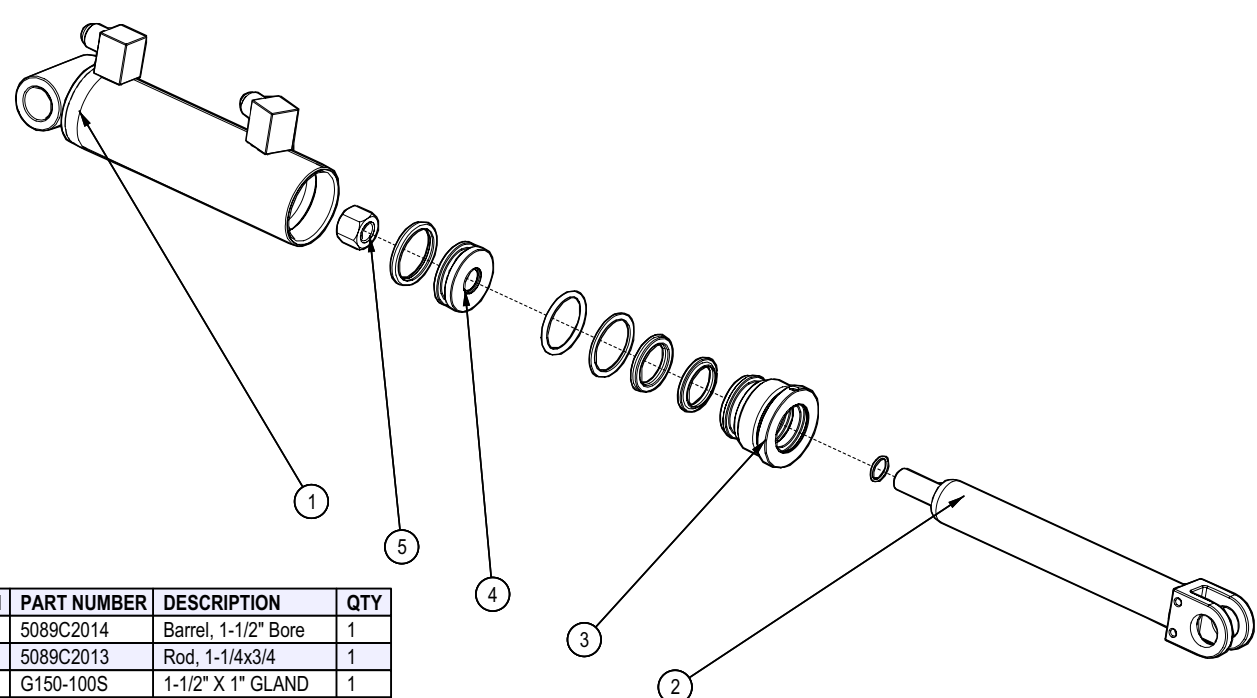


| Item | Part Number | Description                      | Qty |
|------|-------------|----------------------------------|-----|
| 1    | 5089L215    | Remote Box Mount                 | 1   |
| 2    | 5089L208    | Hydraulic Mount Base             | 1   |
| 3    | 5089L209    | Hose Hanger                      | 1   |
| 4    | 5089L210    | Valve Mount Extension            | 1   |
| 5    | Z51643      | #8ORB x #8JIC                    | 2   |
| 6    | Z51644      | #8ORB x #6JIC                    | 2   |
| 7    | Z56509      | Solenoid 4-2 Valve - Motor Spool | 1   |
| 8    | Z56510      | SubPlate with Relief             | 1   |
| 9    | Z62819      | Rubberized Wire Clamp, 1/2"      | 2   |
| 10   | Z66208      | Dual State Remote Receiver       | 1   |
| 11   | Z66209      | Remote Handset for Z66208        | 1   |
| 12   | Z71120      | Hex Bolt, 1/4NC x 2              | 2   |
| 13   | Z71307      | Hex Bolt, 3/8NC x 3/4            | 2   |
| 14   | Z71310      | Hex Bolt, 3/8NC x 1              | 2   |
| 15   | Z71312      | Hex Bolt, 3/8NC x 1-1/4          | 2   |
| 16   | Z72211      | Hex Lock Nut, 1/4NC              | 6   |
| 17   | Z72231      | Hex Lock Nut, 3/8NC              | 2   |
| 18   | Z72531      | Flange Nut 3/8NC                 | 4   |
| 19   | Z72752      | Machine Nut, #10-32NF            | 4   |
| 20   | Z75102      | SHCS, #10-24NC x 1-3/4           | 4   |
| 21   | Z75117      | SHCS, 1/4NC x 2-1/4              | 2   |
| 22   | Z75202      | FHCS, #10-32NF x 3/8             | 4   |
| 23   | Z78301      | Machine Screw, 1/4-20NC x 3/4    | 2   |

Cylinder Seal Installation - FX85R

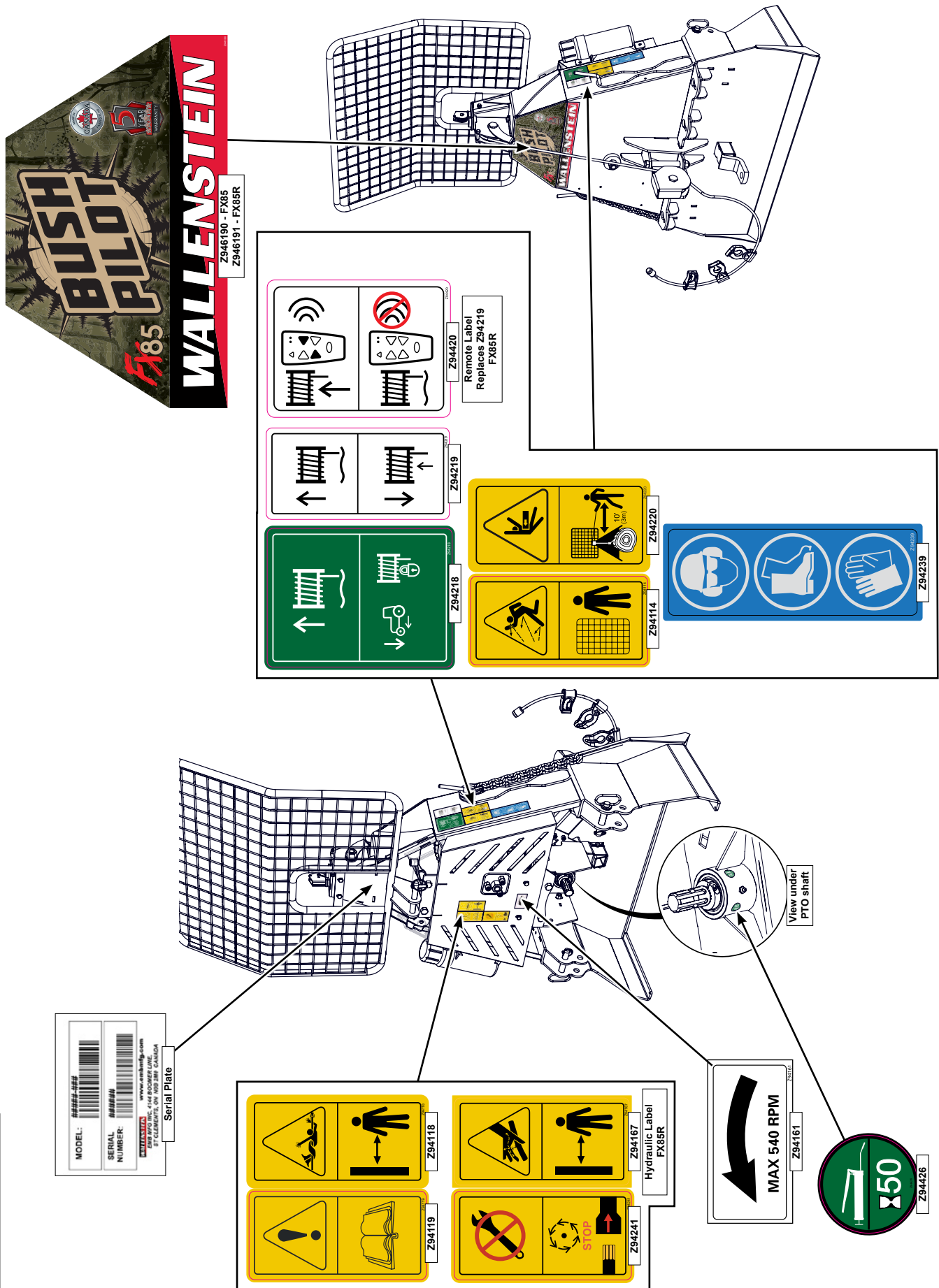


Hydraulic Cylinder Detail - FX85R

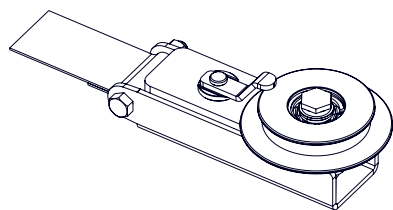


| ITEM | PART NUMBER | DESCRIPTION         | QTY |
|------|-------------|---------------------|-----|
| 1    | 5089C2014   | Barrel, 1-1/2" Bore | 1   |
| 2    | 5089C2013   | Rod, 1-1/4x3/4      | 1   |
| 3    | G150-100S   | 1-1/2" X 1" GLAND   | 1   |
| 4    | P500-150SP  | 1-1/2" BORE PISTON  | 1   |
| 5    | Z72251      | Hex Lock Nut, 1/2NC | 1   |

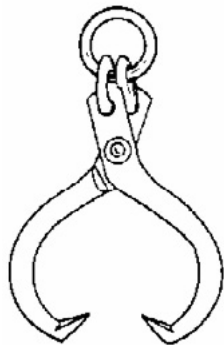
## Label Layout



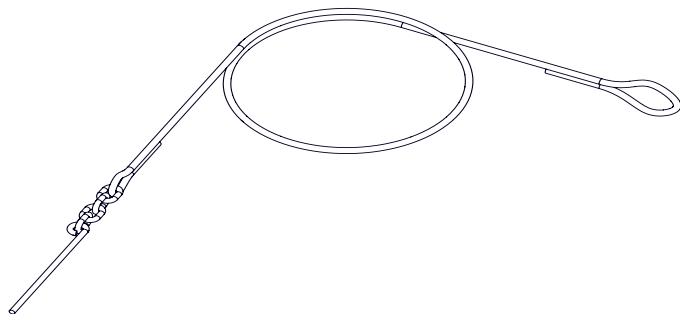
## Accessories



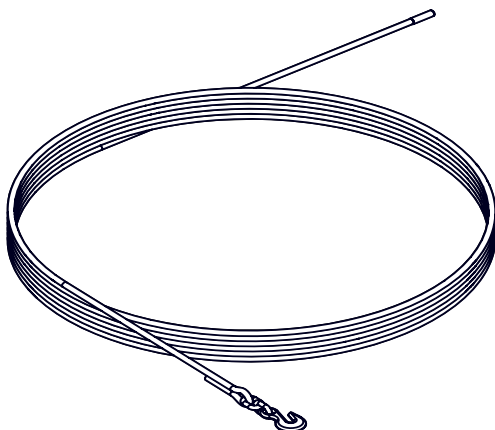
#5089A100 SELF RELEASING SNATCH BLOCK



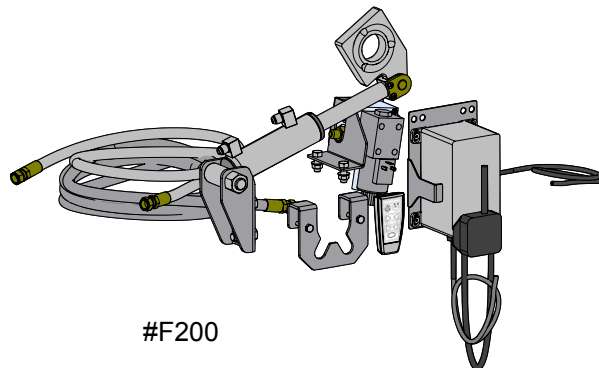
#Z99003 LOGGING TONGS



#Z92125 5 FT SYNTHETIC CHOKER WITH ROD CHAIN END  
#Z92126 7 FT SYNTHETIC CHOKER WITH ROD CHAIN END



#Z92123 200 FT 7/16" SYNTHETIC MAINLINE WITH HOOK



#F200

## #F200 REMOTE CONTROL WINCH KIT

For FX85, FX90, FX110 Skidding Winches

Dealer installed accessory.

F200 Remote Control retrofit kit for existing FX Skidding Winches.

Convenient and easy to use, eliminates the need to make your way back to the FX winch to engage the clutch.



#Z97090 OPERATORS MANUAL

Available as a download at  
[www.wallensteinequipment.com](http://www.wallensteinequipment.com)