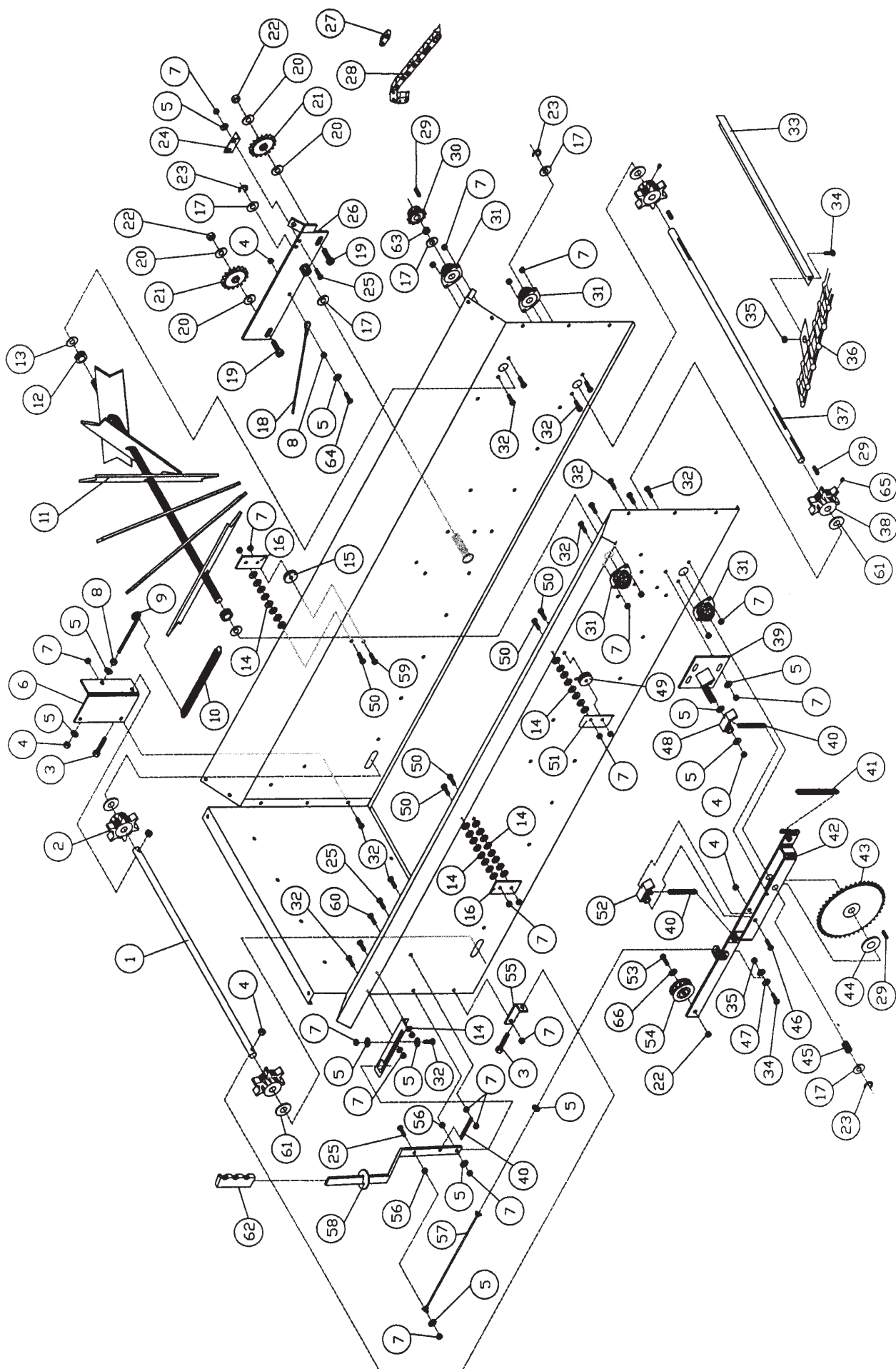


Model MS23B

# DRIVE AND APRON



# Loyal Manure Spreader Parts Manual

## Model MS23B

### DRIVE and APRON

| Key No. | Description                                              | Qty. | Item No.    | Key No. | Description                                              | Qty. | Item No.    |
|---------|----------------------------------------------------------|------|-------------|---------|----------------------------------------------------------|------|-------------|
| 1       | Shaft, Apron (Front)                                     | 1    | 70183       | *34     | Hex Head Cap Screw — 1/4"-20 x 3/4", Grade 5, Plated     | 20   | F1072245    |
| 2       | Sprocket with Bushing — 6-Tooth x No. 55                 | 2    | 70274       | *35     | Nut, Nylon-Insert Lock — 1/4"-20, Grade 2, Plated        | 21   | F356030     |
| *3      | Hex Head Tap Bolt — 3/8"-16 x 6", Grade 5, Plated        | 2    | F108670     | 36      | Chain with Attachment less Flight — No. 55 x 10' Pair    | 1    | T0356       |
| *4      | Nut, Nylon-Insert Lock — 3/8"-16, Grade 2, Plated        | 6    | F356050     | 37      | Shaft, Apron (Rear)                                      | 1    | 70184       |
| *5      | Washer, Standard Flat — 5/16", Plated                    | 19   | F808030     | 38      | Sprocket with Key — 6-Tooth x No. 55                     | 2    | 70265       |
| 6       | Bracket, Chain Tensioner (Right)                         | 1    | 70298       | 39      | Bracket, Latch                                           | 1    | 70255       |
| *7      | Nut, Nylon-Insert Lock — 5/16"-18, Grade 2, Plated       | 32   | F356040     | 40      | Spring, Extension — 7/16" x 3"L, Plated                  | 3    | JN97080     |
| *8      | Nut, Hex — 3/8"-16, Grade 2, Plated                      | 3    | F354050     | 41      | Spring, Extension — 5/8" x 5-1/2"L, UnPlated             | 1    | JN97082     |
| 9       | Bolt, I — 3/8"-16 x 7" Long x 3/8" I.D., Grade 2, Plated | 1    | F103030     | 42      | Arm, Crank                                               | 1    | 71291       |
| 10      | Spring, Extension — 1" x 15"L, Plated                    | 1    | JN100907    | 43      | Sprocket, Crank Arm                                      | 1    | 70268       |
| 11      | Agitator                                                 | 1    | 70260       | *44     | Washer, Standard Flat — 3/4", Unplated                   | 1    | F808078     |
| 12      | Collar, Shaft — 3/4" ID, Plated                          | 2    | 12523       | 45      | Spacer, Rear Shaft                                       | 1    | 70310       |
| 13      | Washer, Copper — .125" x .766" x 1.375"                  | 2    | 70291       | *46     | Hex Head Cap Screw — 3/8"-16 x 2-1/2", Grade 5, Plated   | 1    | F1072485    |
| *14     | Washer, SAE Flat — 5/16", Plated                         | 34   | F807040     | *47     | Washer, Standard Flat — 1/4", Plated                     | 2    | F808020     |
| 15      | Pulley, Cable Guide                                      | 1    | 70302       | 48      | Latch, Crank Arm                                         | 1    | 70258       |
| 16      | Plate, Cable Guide                                       | 2    | 70314       | 49      | Guide, Cable                                             | 1    | 70317       |
| 17      | Bushing, Machine — 18 Gauge x 3/4" x 1-1/4", Unplated    | 5    | F806030     | *50     | Hex Head Cap Screw — 5/16"-18 x 1-1/4", Grade 5, Plated  | 5    | F1072350    |
| 18      | Cable, Agitator                                          | 1    | 70245       | 51      | Plate, Cable Guide                                       | 1    | 70318       |
| *19     | Bolt, Carriage — 1/2"-13 x 2", Grade 2, Plated           | 2    | F101060     | 52      | Pawl, Ratchet Crank Arm                                  | 1    | 70257       |
| *20     | Washer, Standard Flat — 1/2", Plated                     | 4    | F808050     | *53     | Hex Head Cap Screw — 1/2"-13 x 2", Grade 5, Plated       | 1    | F1072655    |
| 21      | Sprocket, Idler — 4017 x 1/2" ID                         | 2    | 04017E08    | 54      | Pulley with Bushing and Bearing, Idler, .5" ID x 2.5" OD | 1    | 71288       |
| *22     | Nut, Nylon-Insert Lock — 1/2"-13, Grade 2, Plated        | 3    | F356060     | 55      | Bracket, Chain Tensioner (Left)                          | 1    | 70264       |
| *23     | Ring, E-Retaining — .05" x 5/8" x 1.12", Unplated        | 3    | F503020     | *56     | Nut, Hex — 5/16"-18 Grade 2, Plated                      | 4    | F354040     |
| 24      | Guard, Chain Carrier                                     | 1    | 70222       | 57      | Cable, Apron                                             | 1    | 70244       |
| *25     | Hex Head Cap Screw — 5/16"-18 x 1", Grade 5, Plated      | 3    | F1072345    | 58      | Handle, Engagement                                       | 2    | 70263       |
| 26      | Bar, Chain Carrier                                       | 1    | 70256       | *59     | Hex Head Cap Screw — 5/16"-18 x 1-1/2", Grade 5, Plated  | 1    | F1072355    |
| 27      | Link with Pin and Clip, Roller Chain — No. 40            | 1    | N0401       | *60     | Hex Head Tap Bolt — 5/16"-18 x 1-1/2", Grade 5, Plated   | 2    | F108621     |
| 28      | Chain with Link, Roller — No. 40 x 168 Pin               | 1    | 70170       | *61     | Washer, SAE Flat — 12 Gauge x 49/64 I.D. x 1-1/2" O.D.   | 4    | F807030     |
| *29     | Key, Square — 3/16" x 3/16" x 1", Unplated               | 4    | F203020     | 62      | Handle Grip, Red                                         | 2    | 40006250734 |
| 30      | Sprocket with Key and Screw — No. 40 x 12-Tooth x 3/4"   | 1    | 40BS12H-3/4 | 63      | Spacer, Agitator Shaft                                   | 1    | 70320       |
| 31      | Bearing, Flange — 2-Hole, 3/4" ID                        | 4    | FAH12G      | *64     | Hex Head Tap Bolt — 3/8"-16 x 1-1/4", Grade 5, Plated    | 1    | F108630     |
| *32     | Hex Head Cap Screw — 5/16"-18 x 3/4", Grade 5, Plated    | 20   | F1072340    | *65     | Socket Head Set Screw, Knurled Point — 5/16-18 x 5/16"   | 2    | F702035     |
| 33      | Flight, Chain                                            | 10   | 70179       | 66      | Washer, SAE Flat, 1/2", Plated                           | 1    | F807050     |

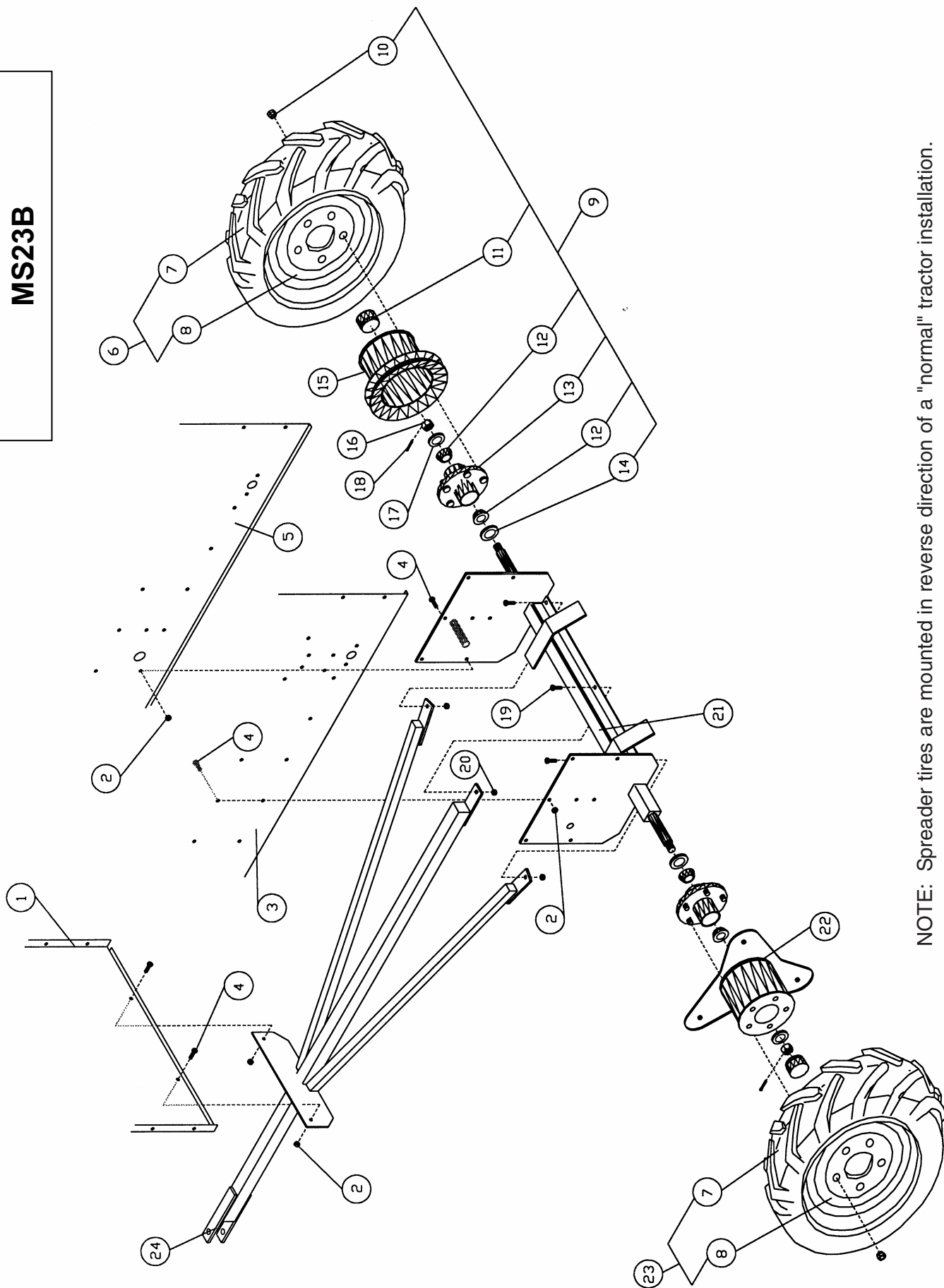
\* Also available from your local hardware store

Do not substitute Grade 2 bolts when stronger Grade 5 bolts are specified.

Failure to heed these instructions could result in serious personal injury or death!



# **TONGUE AND AXLE MS23B**



NOTE: Spreader tires are mounted in reverse direction of a "normal" tractor installation.

# Loyal Manure Spreader Parts Manual

## Model MS23B

### TONGUE and AXLE

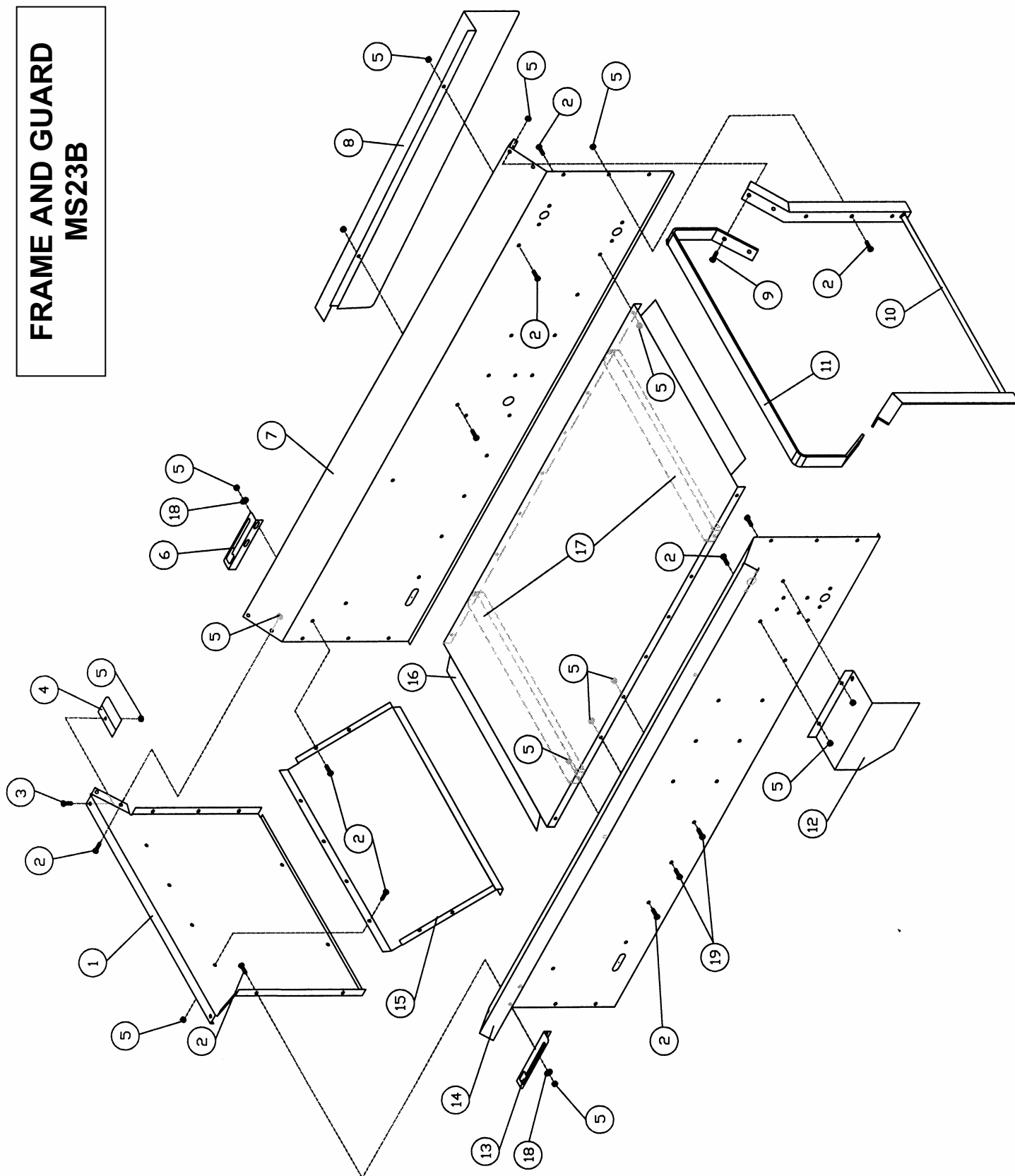
| Key No. | Description                                           | Qty. | Item No.         |
|---------|-------------------------------------------------------|------|------------------|
| 1       | Front with Decals, Box                                | 1    | 70281            |
| *2      | Nut, Nylon Insert Lock — 5/16"-18, Grade 2, Plated    | 14   | F356040          |
| 3       | Side with Decals, Box (Left)                          | 1    | 70283            |
| *4      | Hex Head Cap Screw — 5/16"-18 x 3/4", Grade 5, Plated | 14   | F1072340         |
| 5       | Side with Decals, Box (Right)                         | 1    | 70282            |
| 6       | <b>Wheel with 6" x 12" Tire (Right)</b>               | 1    | 70306            |
| 7       | Tire Only — 6" x 12"                                  | 1    | 70307            |
| 8       | Wheel Only, 12" x 4" Plain                            | 1    | 70308            |
| 9       | <b>Hub with Bearings, Seal, Dust Cap and Nuts</b>     | 2    | Order Components |
| *10     | Nut, Wheel — 1/2"-20                                  | 10   | 1468900          |
| 11      | Cap, Dust — 1-5/32"                                   | 2    | 1428600          |
| 12      | Bearing, Cone — 1" No. L44643                         | 4    | 0801800          |
| 13      | Hub Only, A-Frame — 5 Bolt, 4.5" BC                   | 2    | 1283200CB042     |
| 14      | Seal, Grease — 1.25" ID x 1.983" OD                   | 2    | 0899800          |
| 15      | Hub, Agitator Drive                                   | 1    | 70254            |
| 16      | Nut, Castle                                           | 2    | 10T5             |
| *17     | Washer, SAE Flat — 12 Gauge x 49/64" ID x 1.5" OD     | 2    | F807030          |
| *18     | Pin, Cotter — 5/32" x 1" Plated                       | 2    | F403040          |
| *19     | Hex Head Cap Screw — 3/8"-16 x 1", Grade 5, Plated    | 3    | F1072450         |
| *20     | Nut, Nylon Insert Lock — 3/8"-16, Grade 2, Plated     | 3    | F356050          |
| 21      | Frame, Middle                                         | 1    | 71293            |
| 22      | Hub, Ratchet Cam                                      | 1    | 71294            |
| 23      | <b>Wheel with 6" x 12" Tire (Left)</b>                | 1    | 70305            |
| 7       | Tire Only — 6" x 12"                                  | 1    | 70307            |
| 8       | Wheel Only, 12" x 4" Plain                            | 1    | 70308            |
| 24      | Tongue                                                | 1    | 70259            |

\* Also available from your local hardware store



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# FRAME AND GUARD MS23B



# Loyal Manure Spreader Parts Manual

## Model MS23B

### FRAME and GUARD

| Key No. | Description                                           | Qty. | Item No. |
|---------|-------------------------------------------------------|------|----------|
| 1       | Front with Decals, Box                                | 1    | 70281    |
| *2      | Hex Head Cap Screw — 5/16"-18 x 3/4", Grade 5, Plated | 32   | F1072340 |
| *3      | Hex Head Cap Screw — 5/16"-18 x 2", Grade 5, Plated   | 2    | F1072360 |
| 4       | Protector, Front Corner                               | 2    | 70236    |
| *5      | Nut, Nylon-Insert Lock — 5/16"-18, Grade 2, Plated    | 42   | F356040  |
| 6       | Bracket, Engagement Handle (Right)                    | 1    | 70182    |
| 7       | Side with Decals, Box (Right)                         | 1    | 70282    |
| 8       | Guard with Decals, Chain                              | 1    | 70284    |
| *9      | Hex Head Cap Screw — 5/16"-18 x 1", Grade 5, Plated   | 4    | F1072345 |
| 10      | Guard, Agitator ( <i>Bottom</i> )                     | 1    | 70261    |
| 11      | Guard, Agitator ( <i>Top</i> )                        | 1    | 70262    |
| 12      | Guard, Crank Arm                                      | 1    | 70250    |
| 13      | Bracket, Engagement Handle (Left)                     | 1    | 70181    |
| 14      | Side with Decals, Box ( <i>Left</i> )                 | 1    | 70283    |
| 15      | Baffle, Front                                         | 1    | 70176    |
| 16      | Bottom, Box                                           | 1    | 70177    |
| 17      | Support, Box Bottom                                   | 2    | 70178    |
| 18      | Washer, SAE Flat — 5/16", Plated                      | 4    | F807040  |
| 19      | Hex Head Cap Screw — 5/16"-18 x 1/2", Grade 5, Plated | 4    | F1072315 |

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