

Stir-Ator Parts Book

Models:
1965 to Present

Owner's Manual

PNEG-2136
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DMC

GSI



PNEG-2136

All information, illustrations, photos, and specifications in this manual are based on the latest information available at the time of publication. The right is reserved to make changes at any time without notice.

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Safety Guidelines

Safety guidelines are general-to-specific safety rules that must be followed at all times. This manual is written to help you understand safe operating procedures and problems that can be encountered by the operator and other personnel when using this equipment. Read and save these instructions.

As owner or operator, you are responsible for understanding the requirements, hazards, and precautions that exist and to inform others as required. Unqualified persons must stay out of the work area at all times.

Alterations must not be made to the equipment. Alterations can produce dangerous situations resulting in **SERIOUS INJURY or DEATH**.

This equipment must be installed in accordance with the current installation codes and applicable regulations, which must be carefully followed in all cases. Authorities having jurisdiction must be consulted before installations are made.

When necessary, you must consider the installation location relative to electrical, fuel and water utilities.

Personnel operating or working around equipment must read this manual. This manual must be delivered with equipment to its owner. Failure to read this manual and its safety instructions is a misuse of the equipment.

ST-0001-4

Cautionary Symbols Definitions

Cautionary symbols appear in this manual and on product decals. The symbols alert the user of potential safety hazards, prohibited activities and mandatory actions. To help you recognize this information, we use the symbols that are defined below.



This symbol indicates an imminently hazardous situation which, if not avoided, **will result in serious injury or death.**



This symbol indicates a potentially hazardous situation which, if not avoided, **can result in serious injury or death.**



This symbol indicates a potentially hazardous situation which, if not avoided, **can result in minor or moderate injury.**



This symbol is used to address practices not related to personal injury.



This symbol indicates a general hazard.



This symbol indicates a prohibited activity.



This symbol indicates a mandatory action.

ST-0005-2

Safety Cautions

Use Personal Protective Equipment

- Use appropriate personal protective equipment:

**Eye
Protection**



**Respiratory
Protection**



**Foot
Protection**



**Hearing
Protection**



**Head
Protection**



**Fall
Protection**



**Hand
Protection**



- Wear clothing appropriate to the job.
- Remove all jewelry.
- Tie long hair up and back.

ST-0004-1

Follow Safety Instructions

- Carefully read all safety messages in this manual and safety signs on your machine. Keep signs in good condition. Replace missing or damaged safety signs. Be sure new equipment components and repair parts include the current safety signs. Replacement safety signs are available from the manufacturer.
- Learn how to operate the machine and how to use controls properly. Do not let anyone operate without instruction.
- If you do not understand any part of this manual or need assistance, contact your dealer.



ST-0002-1

Follow Safe Operating Procedures

- Do not operate Stir-Ator unless shut off chain has been properly installed and adjusted.
- Exercise care when starting Stir-Ator in a full bin of grain. Augers can be stuck in the grain causing damage to the Stir-Ator or bin.
- Operating the Stir-Ator during bin unloading can be beneficial to the unloading process as well as prevent auger damage.
- Do not bury the Stir-Ator. Burying the Stir-Ator will damage the bin and will void the warranty.
- Do not operate the Stir-Ator in an empty bin. Damage to the Stir-Ator and bin can result.
- When not operating the Stir-Ator for extended periods of time or in some cases while emptying the bin, it is the best to position the trolley at the bin wall to eliminate possible damage to the Stir-Ator or bin.



ST-0011-2

Stay Clear of Rotating Parts

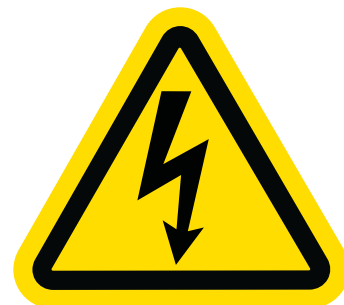
- Do not enter the bin while the equipment is in operation.
- Entanglement in rotating augers will cause serious injury or death.
- Keep all guards and covers in place at all times.
- Lock-out power source before making adjustments, cleaning, or maintaining equipment.



ST-0008-2

Operate Motor Properly

- All electrical connections must be made in accordance with applicable local codes (National Electrical Code for the US, Canadian Electric Code, or EN60204 along with applicable European Directives for Europe). Make sure equipment and bins are properly grounded.
- Lock-out power before resetting motor overloads.
- Do not repetitively stop and start the drive in order to free a plugged condition. Jogging the drive in this manner can damage the equipment and drive components.



ST-0009-3

1. Safety

Maintain Equipment and Work Area

- Understand service procedures before doing work. Keep area clean and dry.
- Never service equipment while it is operating. Keep hands, feet, and clothing away from moving parts.
- Keep your equipment in proper working condition. Replace worn or broken parts immediately.



ST-0003-1

Avoid Falls During Service and Installation

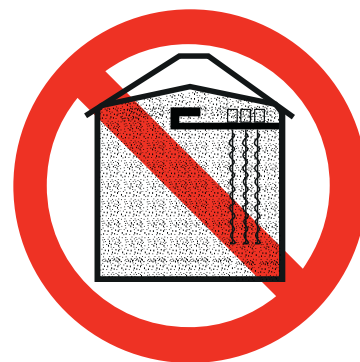
- Use proper fall protection equipment.
- Anchor the bottom of any ladder being used in a bin or silo to prevent it from slipping.
- Use rubber pads or other anti-slip devices to prevent the ladder from slipping on the bin floor.
- Exercise caution when using a ladder to perform work in a partially filled grain bin. The ladder can sink into the grain and cause a fall.
- Because the equipment is suspended from chains in the center, be cautious of positioning the ladder against the equipment. The equipment can move or swing from the weight of a person climbing on the ladder.
- When setting a ladder against the equipment, a vise grip or other type of tie down must be used in the front and back of the track drive unit. This keeps the equipment from rolling or sliding around the bin while service work is being performed.
- During heavy service work, such as removing the auger drive, electric motors, or replacing electrical swivel, tying the ladder to the main frame or other solid component is advised.
- Never climb out on the main beam or augers from the ladder or roof manhole. The equipment can swing, causing a fall.
- Do not climb Stir-Ator down augers to make adjustments or repairs. Slipping can cause falling, bodily injury, or both.
- If an unusual amount of service work needs to be performed, consider lowering the unit onto sawhorses.



ST-0010-2

Use Stir-Ator Equipment Properly

- Exercise care when starting the Stir-Ator in a full bin. Augers can be stuck in the grain which can cause damage to the Stir-Ator or the bin.
- Burying the unit will damage the bin and will void the warranty.
- Do not operate the Stir-Ator in an empty bin.
- To test the unit in an empty bin:
 - Make sure no one is inside the bin.
 - Turn power “on” and “off” immediately.
- Letting the Stir-Ator operate in an empty bin will cause damage to the unit and the bin.



ST-0054-1

Below is a sign-off sheet that can be used to verify that all personnel have read and understood the safety instructions. This sign-off sheet is provided for your convenience and personal record keeping.

[illegible]

ST-0007



If you have a DMC Stir-Ator, Model 165 or 171, produced from 1965 to 1978, please carefully read the following warning.

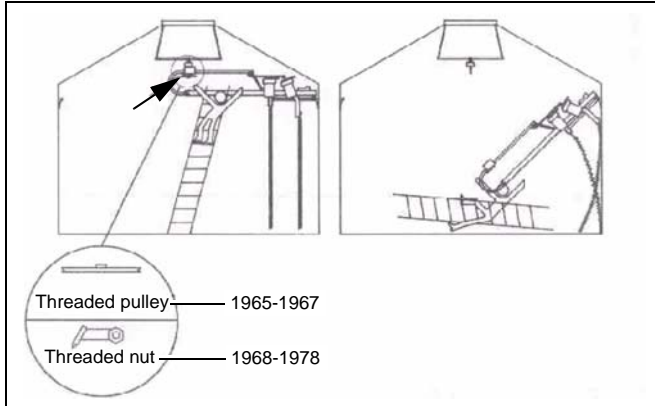


Figure 2A

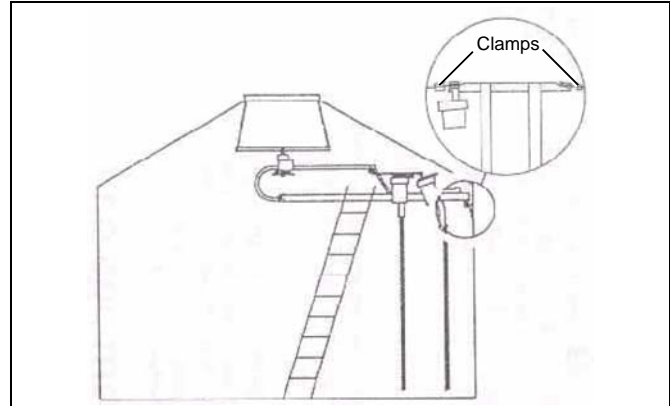


Figure 2B

To all stirring machine owners:



Never remove the retaining nut or pulley shown (see arrows) when the machine is hanging in the grain bin. The lower portion of the machine will fall, which can cause a serious or fatal injury. (See Figure 2A.)



Never lean a ladder against a Stir-Ator frame without first blocking (securing) the track wheels to prevent movement on the track. One way to do this is to clamp a vise-grip plier firmly to the track on each side of the frame as explained in the owners manual. (See Figure 2B.)



Never enter a grain bin when equipment is operating inside. Contact with operating equipment can cause serious and/or fatal injury.



Always check that all safety decals are in place and legible (see owners manual).

If safety decals are missing or not legible, please contact your DMC dealer or DMC at the following address for replacement:

GSI Decals

1004 E. Illinois St.
Assumption, IL. 62510
Phone: 1-217-226-4421

3. Switch Box

Switch Boxes and Braces

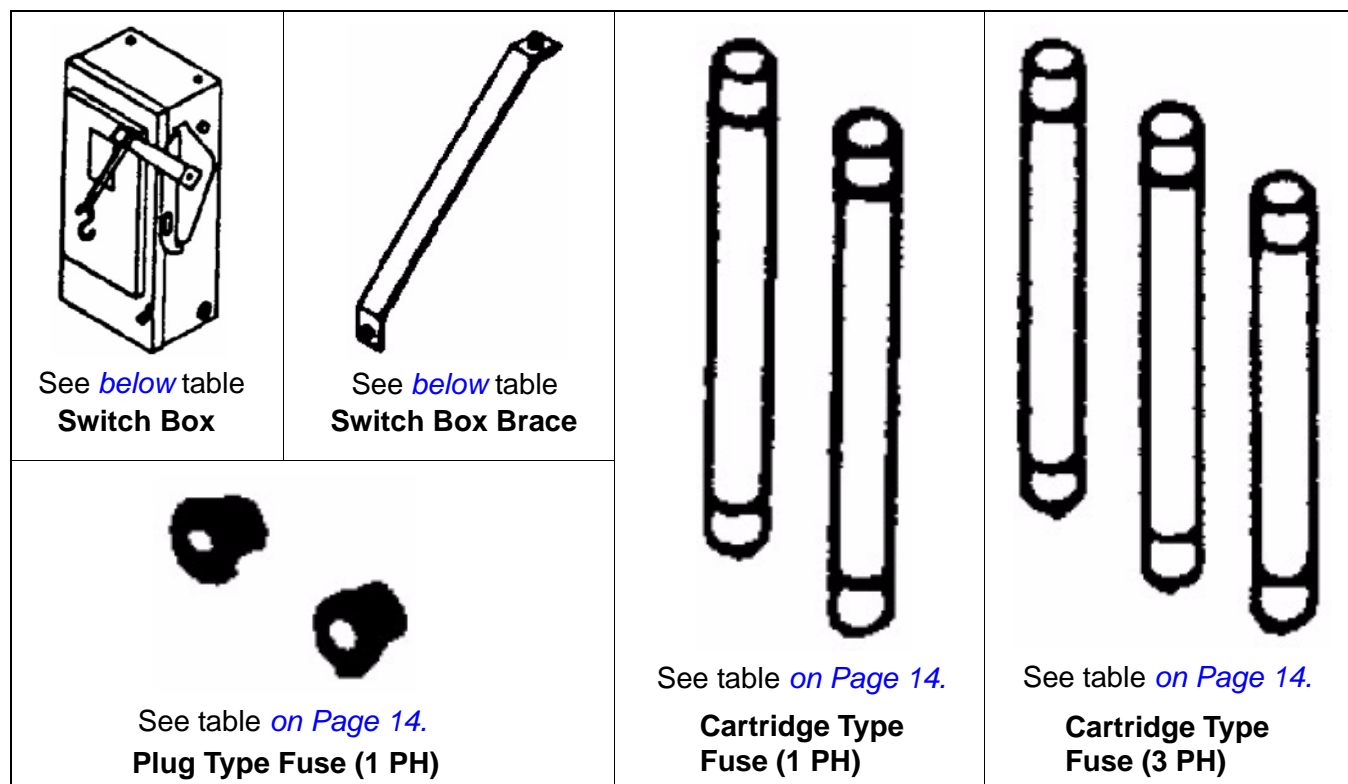


Figure 3A

| Ref # | Part # | | Description |
|-------|-------------|------------|---------------------------------------|
| | Replaced by | Original # | |
| A | 103E0004 | 110-SDT | Switch Box Assembly (D-211N) |
| B | 103E0006 | 111-SDT | Switch Box Assembly (D-321N) |
| C | 104E0026 | G-3086 | Switch Box Assembly (H361) |
| D | 104E2002 | B-815 | Switch Box Assembly (D-322N) |
| E | 106E083 | 103E0007 | Switch Box Assembly (D-222N) |
| | 106E083 | B-816 | Switch Box Assembly (D-222N) |
| F | - | 106E077 | CSA Switch Box Assembly (H221 - NAWK) |
| G | - | 106E078 | CSA Switch Box Assembly (H222 - NAWK) |
| H | - | 106E079 | CSA Switch Box Assembly (H321 - NAWK) |
| J | 103E0009 | 112-SDT | Switch Box Brace (12") |
| K | 103E0010 | G-3089 | Switch Box Brace (15") |
| L | 103E0011 | G-3090 | Switch Box Brace (17-3/4") |
| M | - | 106E080 | CSA Switch Box Brace (25-3/4") |

NOTE: Replace with 106E083 and 103E0011.

NOTE: It was used with switch boxes 103E0007 and B-816 from 1968 to 1990.

Switch Boxes and Braces (Continued)

| Auger, HP, Volt, PH | 1965-1967 Stir-Ator | 1968-1971 Stir-Ator | 1972-1975 Stir-Ator | 1976-1978 Stir-Ator | 1979-1982 # 179 | 1983-Present DIII | 1988-Present DIII-CSA |
|------------------------|------------------------|------------------------|------------------------|------------------------|--------------------|----------------------|--------------------------|
| SA, 1-1/2, 230, 1 | A/J | A/J | A/J | A/J | A/J | A/J | F/M |
| SA, 1-1/2, 230, 3 | B/J | B/J | B/J | B/J | B/J | B/J | H/M |
| SA, 1-1/2, 440, 3 | - | C/L | C/L | C/L | C/L | C/L | - |
| SA, 2, 230, 1 | A/J | A/J | A/J | A/J | A/J | A/J | F/M |
| SA, 2, 230, 3 | B/J | B/J | B/J | B/J | B/J | B/J | H/M |
| SA, 2, 440, 3 | - | C/L | C/L | C/L | C/L | C/L | - |
| DA, 1-1/2, 230, 1 | A/J | A/J | A/J | A/J | A/J | A/J | F/M |
| DA, 1-1/2, 230, 3 | B/J | B/J | B/J | B/J | B/J | B/J | H/M |
| DA, 1-1/2, 440, 3 | - | C/L | C/L | C/L | C/L | C/L | - |
| DA, 2, 230, 1 | A/J | A/J | A/J | A/J | A/J | A/J | G/M |
| DA, 2, 230, 3 | B/J | B/J | B/J | B/J | B/J | B/J | H/M |
| DA, 2, 440, 3 | - | C/L | C/L | C/L | C/L | C/L | - |
| TA, 1-1/2, 230, 1 | - | E/L | E/L | E/L | E/L | E/L | G/M |
| TA, 1-1/2, 230, 3 | - | D/K | D/K | D/K | B/J | B/J | H/M |
| TA, 1-1/2, 440, 3 | - | C/L | C/L | C/L | C/L | C/L | - |
| TA, 2, 230, 1 | - | E/L | E/L | E/L | E/L | E/L | G/M |
| TA, 2, 230, 3 | - | D/K | D/K | D/K | B/J | B/J | H/M |
| TA, 2, 440, 3 | - | C/L | C/L | C/L | C/L | C/L | - |

3. Switch Box

Switch Box Fuses

| Ref # | Part # | | Buss # | Description |
|-------|-------------|------------|------------|---|
| | Replaced by | Original # | | |
| A | 1EL0724 | 113-SDT | T-20 | 20 Amp, 125V, T, Plug Type |
| B | - | 1EL0725 | T-30 | 30 Amp, 125V, T, Plug Type |
| C | - | 1EL0728 | FRN-15 | 15 Amp, 250V, FRN, Fusetron, Cartridge Type |
| D | - | 1EL0729 | FRN-20 | 20 Amp, 250V, FRN, Fusetron, Cartridge Type |
| E | - | 1EL0730 | FRN-30 | 30 Amp, 250V, FRN, Fusetron, Cartridge Type |
| F | - | 1EL0731 | FRN-35 | 35 Amp, 250V, FRN, Fusetron, Cartridge Type |
| G | - | 1EL0732 | FRN-40 | 40 Amp, 250V, FRN, Fusetron, Cartridge Type |
| H | - | B-814 | FRN-45 | 45 Amp, 250V, FRN, Fusetron, Cartridge Type |
| J | - | 1EL0734 | FRN-50 | 50 Amp, 250V, FRN, Fusetron, Cartridge Type |
| K | - | 1EL0736 | FRN-10 | 10 Amp, 250V, FRN, Fusetron, Cartridge Type |
| L | - | 1EL0737 | FRS-5 | 5 Amp, 600V, FRS, Fusetron, Cartridge Type |
| M | - | 1EL0738 | FRS-10 | 10 Amp, 600V, FRS, Fusetron, Cartridge Type |
| N | - | 1EL0740 | FRS-15 | 15 Amp, 600V, FRS, Fusetron, Cartridge Type |
| P | - | 1EL0741 | FRS-20 | 20 Amp, 600V, FRS, Fusetron, Cartridge Type |
| Q | - | 1EL0744 | T-15 | 15 Amp, 125V, T, Plug Type |
| R | - | 1EL0747 | FRN-17-1/2 | 17-1/2 Amp, 250V, FRN, Fusetron, Cartridge Type |

| Auger, HP, Volt, PH | 1965-1967 Stir-Ator | 1968-1971 Stir-Ator | 1972-1975 Stir-Ator | 1976-1978 Stir-Ator | 1979-1982 # 179 | 1983-Present DIII | 1988-Present DIII-CSA |
|---------------------|---------------------|---------------------|---------------------|---------------------|-----------------|-------------------|-----------------------|
| SA, 1-1/2, 230, 1 | A | A | A | A | A | Q | C |
| SA, 1-1/2, 230, 3 | C | C | C | C | K | K | K |
| SA, 1-1/2, 440, 3 | - | - | - | N | L | L | - |
| SA, 2, 230, 1 | - | - | - | - | - | Q | R |
| SA, 2, 230, 3 | - | - | - | - | - | K | K |
| SA, 2, 440, 3 | - | - | - | - | - | L | - |
| DA, 1-1/2, 230, 1 | B | B | B | B | B | B | E |
| DA, 1-1/2, 230, 3 | D | D | D | D | D | D | D |
| DA, 1-1/2, 440, 3 | - | - | - | N | M | M | - |
| DA, 2, 230, 1 | - | - | G | G | G | B | F |
| DA, 2, 230, 3 | - | - | D | D | D | D | D |
| DA, 2, 440, 3 | - | - | N | N | M | M | - |
| TA, 1-1/2, 230, 1 | - | H | H | H | J | J | J |
| TA, 1-1/2, 230, 3 | - | E | E | E | E | E | E |
| TA, 1-1/2, 440, 3 | - | - | - | P | N | N | - |
| TA, 2, 230, 1 | - | - | H | H | J | J | J |
| TA, 2, 230, 3 | - | - | E | E | E | E | E |
| TA, 2, 440, 3 | - | - | P | P | N | N | - |

Switch Box to Swivel Wires

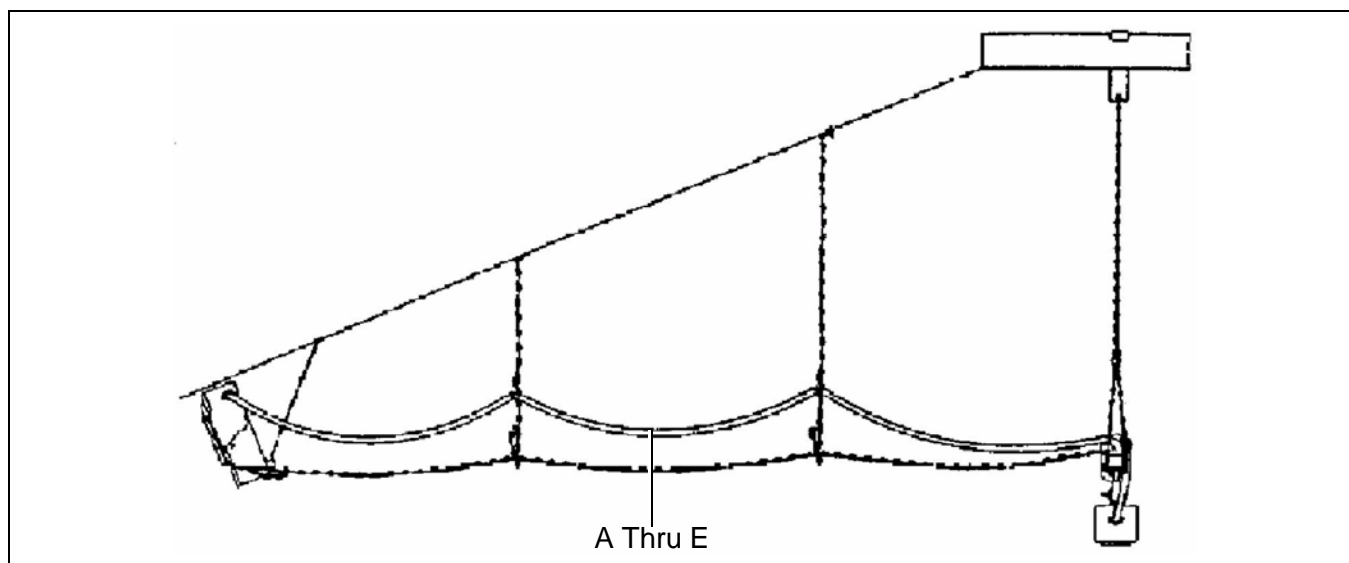


Figure 3B

| Auger, HP, Volt, PH | 1965-Present DIII | 1988-Present DIII-CSA |
|------------------------|----------------------|--------------------------|
| SA, 1-1/2, 230, 1 | A | A |
| SA, 1-1/2, 230, 3 | B | B |
| SA, 1-1/2, 440, 3 | B | B |
| SA, 2, 230, 1 | A | A |
| SA, 2, 230, 3 | B | B |
| SA, 2, 440, 3 | B | B |
| DA, 1-1/2, 230, 1 | A | A |
| DA, 1-1/2, 230, 3 | B | B |
| DA, 1-1/2, 440, 3 | B | B |
| DA, 2, 230, 1 | C | C |
| DA, 2, 230, 3 | D | D |
| DA, 2, 440, 3 | D | D |
| TA, 1-1/2, 230, 1 | E | F |
| TA, 1-1/2, 230, 3 | D | D |
| TA, 1-1/2, 440, 3 | B | B |
| TA, 2, 230, 1 | E | F |
| TA, 2, 230, 3 | D | D |
| TA, 2, 440, 3 | B | B |

| Bin Diameter | Wire Length |
|--------------|-------------|
| 14' | 8'-6" |
| 15' | 9'-0" |
| 16' | 9'-0" |
| 18' | 10'-6" |
| 18'-1" - 21' | 12'-6" |
| 21'-1" - 24' | 14'-0" |
| 24'-1" - 27' | 15'-6" |
| 27'-1" - 30' | 17'-0" |
| 30'-1" - 33' | 18'-6" |
| 33'-1" - 36' | 20'-0" |
| 36'-1" - 39' | 21'-0" |
| 39'-1" - 42' | 23'-0" |
| 46' | 26'-0" |

| Ref # | Part # | | Description |
|-------|-------------|------------|--------------------------------------|
| | Replaced by | Original # | |
| A | 1EL3050* | 103E0044 | Switch Box to Swivel Wire (12/3, SO) |
| B | N/A | - | - |
| C | 1EL3047* | 103E0044 | Switch Box to Swivel Wire (10/3, SO) |
| D | 1EL3048 | 103E0044 | Switch Box to Swivel Wire (10/4, SO) |
| E | 1EL3058 | 103E0044 | Switch Box to Swivel Wire (8/3, SO) |

* **NOTE:** If ordering bulk wire, use this part # and amount desired in feet. Order wire cord per foot.

4. Suspension

Suspension Chains

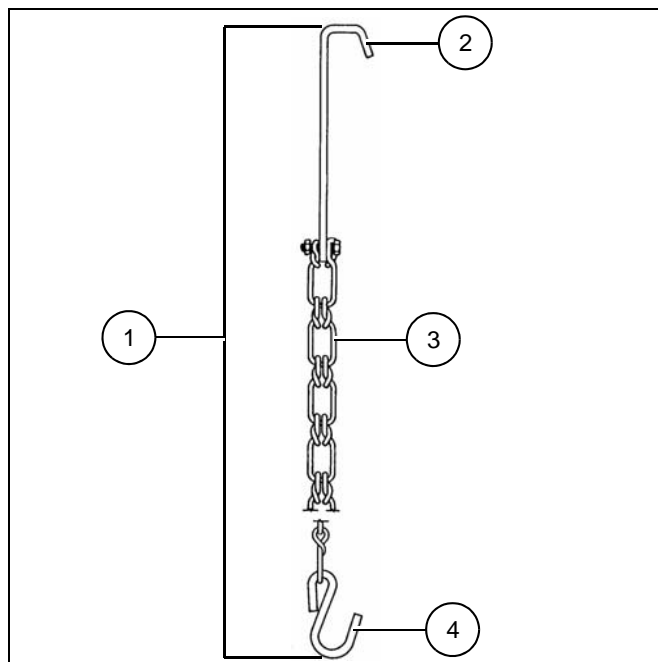


Figure 4A

| Bin Diameter | Chain Length | | |
|--------------|--------------|-----|-----|
| | SA | DA | TA |
| 14' - 21' | 7' | 7' | - |
| 21' - 24' | 7' | 7' | 8' |
| 24'-1" - 30' | 9' | 9' | 10' |
| 30'-1" - 39' | 12' | 12' | 13' |
| 39'-1" - 48' | 15' | 15' | 16' |

| Ref # | Bin Diameter | Part # | | Description |
|-------|--------------|-------------|------------|--|
| | | Replaced by | Original # | |
| 1 | 18' | GSI0862 | 105A0014 | Suspension Hook Assembly Single Auger and Double Auger (Replacement Assembly on 1965 to 1978 Stir-Ators and Sold 1979 to Present) |
| | 21' | | | |
| | 24' | | | |
| | 27' | GSI0863 | | |
| | 30' | | | |
| | 33' | | | |
| | 36' | GSI0864 | | |
| | 42' | | | |
| | 48' | | | |
| | 24' | GSI0888 | 105A0067 | Suspension Hook Assembly Triple Auger and 176 Red Giant (Replacement Assembly on 1969 to 1978 Stir-Ators and Sold 1979 to Present) |
| | 27' | GSI0889 | | |
| | 30' | GSI0889 | | |
| | 33' | GSI0890 | | |
| | 36' | GSI0890 | | |
| | 42' | GSI0891 | | |
| 2 | - | 106A077-Y | 120-SD | Suspension Hook (Uses 3/16" Material) Single Auger and Double Auger (Sold 1965 to Present Stir-Ators) |
| | | - | 106A077-Y | Suspension Hook (Uses 1/4" Material) Triple Auger and 176 Red Giant (Sold 1979 to Present Stir-Ators) |
| 3 | - | 5FH0115 | - | Suspension Chain - Per Foot (#4/0 Straight Link Chain - See above Chart) Triple Auger and 176 Red Giant (Sold 1979 to Present Stir-Autors) If Ordering Bulk Chain, Use Part # "5FH0115" and Amount Desired in Feet. |
| 4 | - | - | 5FH0081 | #17 S-Hook (Sold 1065 to Present Stir-Ators) |

Shut Off and Support Chains

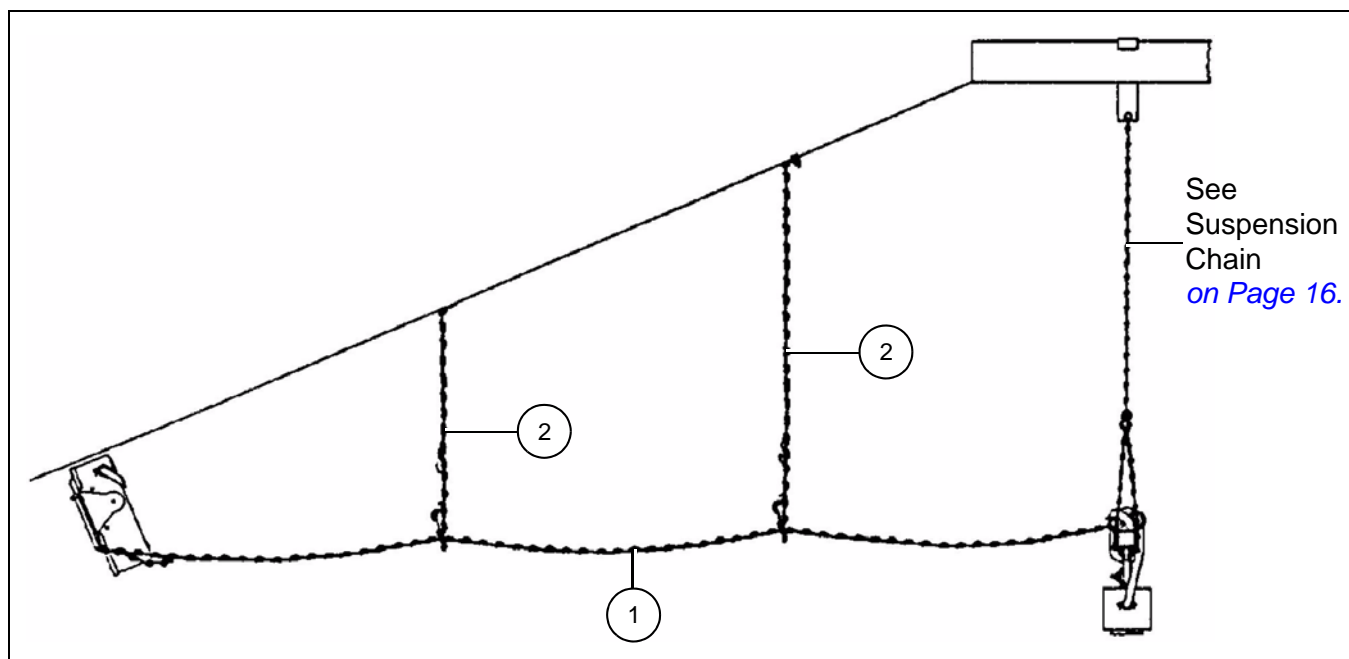


Figure 4B

| Shut Off Chains (1) | | |
|---------------------|--------------|----------|
| Part # | Bin Diameter | Length |
| DAVID100877 | 14' - 18' | 7' |
| DAVID100878 | 18'-1" - 21' | 8'-1/2" |
| DAVID100879 | 21'-1" - 24' | 10' |
| DAVID100880 | 24'-1" - 27' | 11'-1/2" |
| DAVID100881 | 27'-1" - 30' | 13' |
| DAVID100882 | 30'-1" - 33' | 14'-1/2" |
| DAVID100883 | 33'-1" - 36' | 16' |
| DAVID100884 | 36'-1" - 39' | 17'-1/2" |
| DAVID100885 | 39'-1" - 42' | 19' |
| DAVID100886 | 42'-1" - 45' | 20'-1/2" |
| DAVID100887 | 45'-1" - 48' | 22' |

| Support Chains (2) | | | |
|--------------------|-------------|-------------|-------------|
| Bin Diameter | Part # | | |
| | 105A0066-3' | 105A0066-6' | 105A0066-9' |
| 14' - 24' | 1 | 0 | 0 |
| 24'-1" - 33' | 0 | 1 | 0 |
| 33'-1" - 48' | 0 | 1 | 1 |

4. Suspension

Suspension Bars

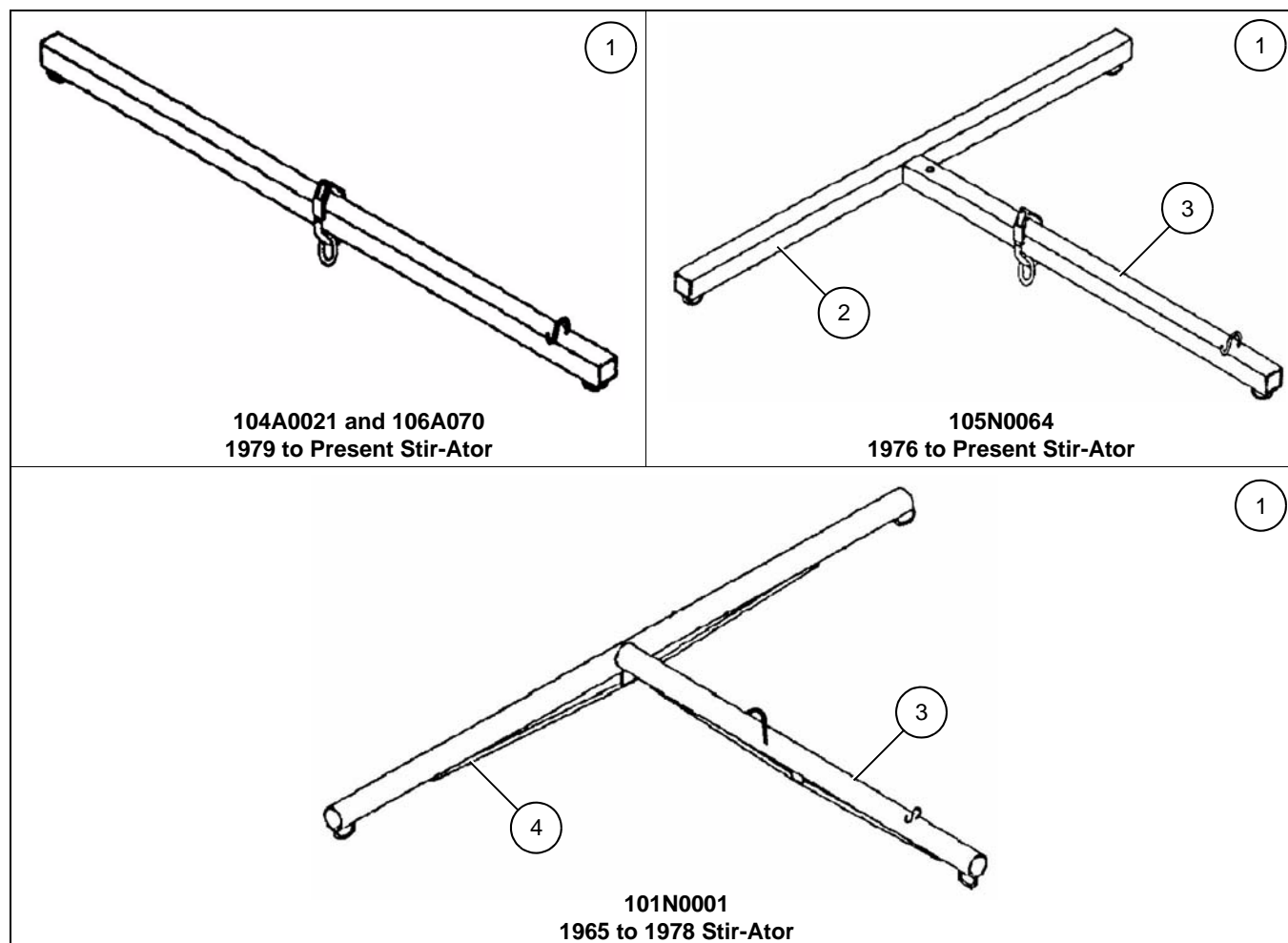


Figure 4C

| Ref # | Part # | | Description |
|-------|-------------|------------|---|
| | Replaced by | Original # | |
| 1 | 104G0021 | 104A0021 | Center Suspension Bar Weldment Single Auger and Double Auger (Used on 1979 to Present Stir-Ators) (18' and Larger Diameter Bins) |
| 2 | - | 105A0052 | Cross Bar Suspension Weldment Triple Auger and 176 Red Giant (Used on 1979 to Present Stir-Ators) |
| 3 | - | 105G0051 | Center Suspension Bar Weldment Triple Auger and 176 Red Giant (Used on 1979 to Present Stir-Ators) |
| 4 | N/A | N/A | Cross Bar Suspension Weldment Triple Auger and 176 Red Giant (Used on 1979 to Present Stir-Ators) |

Center Yoke Pivot Assemblies

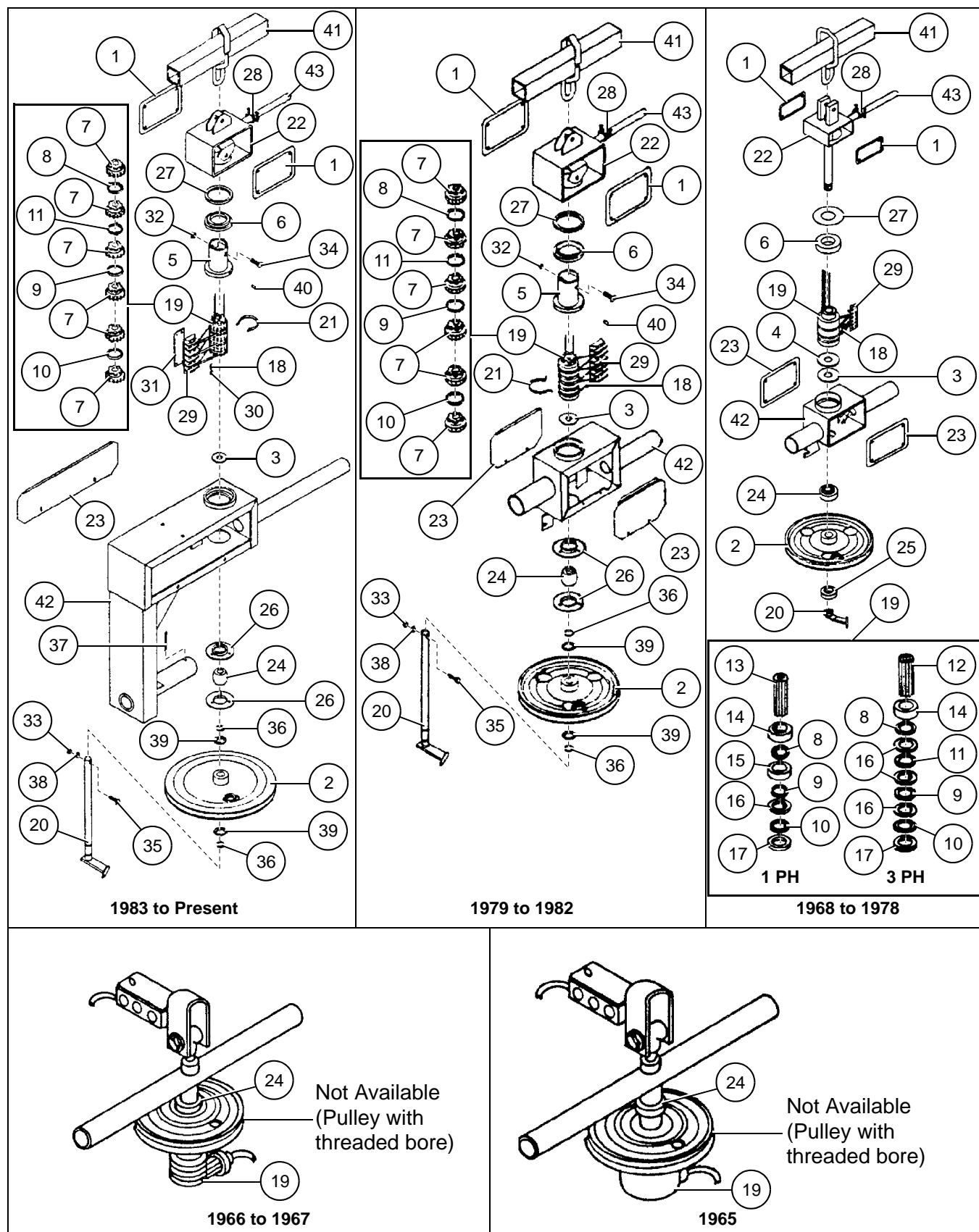


Figure 5A

Center Yoke Pivot Assemblies (Continued)

| Ref # | Part # | | Description |
|-------|-------------|------------|---|
| | Replaced by | Original # | |
| 1 | - | 103A0003 | Junction Box Cover (1979 to Present Stir-Ators) |
| | 103A0095 | H-351-SDT | Junction Box Cover (Right) (1968 to 1978 Stir-Ators) |
| | 103A0096 | H-351-SDT | Junction Box Cover (Left) (1968 to 1978 Stir-Ators) |
| 2 | 103A0048 | - | 10" Pulley with Drive Link* |
| | 103A0049 | - | 12" Pulley with Drive Link* |
| | 103A0050 | - | 14" Pulley with Drive Link* |
| | 105A0101 | - | 14" Pulley with Drive Link* |
| 3 | - | 103E0012 | Insulating Washer, 1/16" (1968 to Present Stir-Ators) |
| 4 | 103E0012 | 103E0003 | Insulating Washer, 1/8" (1968 to 1978 Stir-Ators) (Replace with Two 103E0012) |
| 5 | - | 104A0014 | Center Pivot Flanged Bushing (1979 to Present Stir-Ators) |
| 6 | - | 104A0015 | Center Pivot Thrust Bearing (1979 to Present Stir-Ators) |
| | 103A0141 | H-375-SD | Thrust Bearing, 1-5/8" (Nice #520-1/2") (1968 to 1978 Stir-Ators) |
| 7 | - | 104E0001 | Electric Swivel Insulating Block (1979 to Present Stir-Ators) |
| 8 | - | 104E0007 | Ring and Wire (White) (1979 to Present Stir-Ators) |
| | 104E0007 | 103E0030 | Ring and Wire (White) (1968 to 1978 Stir-Ators) |
| 9 | - | 104E0010 | Ring and Wire (Black) (1979 to Present Stir-Ators) |
| | 104E0010 | 103E0032 | Ring and Wire (Black) (1968 to 1978 Stir-Ators) |
| 10 | - | 104E0012 | Ring and Wire (Green) (1979 to Present Stir-Ators) |
| | 104E0012 | 103E0033 | Ring and Wire (Green) (1968 to 1978 Stir-Ators) |
| 11 | - | 104E0015 | Ring and Wire (Red) 3 Phase Only (1979 to Present Stir-Ators) |
| | 104E0015 | 103E0031 | Ring and Wire (Red) 3 Phase Only (1968 to 1978 Stir-Ators) |
| 12 | - | H-380-SD | Swivel Center Core 3 Phase (1968 to 1978 Stir-Ators) |
| 13 | - | 103E0021 | Swivel Center Core 1 Phase (1968 to 1978 Stir-Ators) |
| 14 | 103E0038 | H-385-SD | Insulation Spacer Ring, 1-1/16" (1968 to 1978 Stir-Ators) |
| 15 | 103E0039 | H-386-SD | Insulation Spacer Ring, 7/8" (1968 to 1978 Stir-Ators) |
| 16 | 103E0040 | H-387-SD | Insulation Spacer Ring, 5/16" (1968 to 1978 Stir-Ators) |
| 17 | 103E0041 | H-388-SDT | Insulation Spacer Ring, 1/2" (1968 to 1978 Stir-Ators) |
| 18 | - | 104E0020 | Electric Swivel Contact Strap, 9-3/8" Long (1979 to Present Stir-Ators) |
| | 103E0018 | H-396-SDT | Electric Swivel Contact Strap, 7-3/4" Long (1968 to 1978 Stir-Ators) |

Center Yoke Pivot Assemblies (Continued)

| Ref # | Part # | | Description |
|-------|-------------|--------------------------|--|
| | Replaced by | Original # | |
| 19 | - | 104E2005 | Electric Swivel Assembly 230V, 3 Phase (1979 to Present Stir-Ators) |
| | - | 105E0004 | Electric Swivel Assembly 200V, 1 Phase (1979 to Present Stir-Ators) |
| | 103E0015 | B-706 | Electric Swivel Assembly 3 Phase, #10 Wire (1968 to 1978 Stir-Ators) |
| | 103E0016 | B-705 | Electric Swivel Assembly 1 Phase, #10 Wire (1968 to 1978 Stir-Ators) |
| | N/A | 142-SD | Electric Swivel, Plastic (Behlen) (1966 to 1967 Stir-Ators) (Replaced by Gooseneck Conversion #103A0126) |
| | N/A | 143-SD | Electric Swivel, Metal (Appleton) (1965 Stir-Ators) (Replaced by Gooseneck Conversion #103A0126) |
| 20 | - | 105A0030 | Center Drive Arm and Shaft (Short)* |
| | - | 105A0031 | Center Drive Arm and Shaft (Long)* |
| | 103A0056 | - | Drive Arm with Nut (Short)* |
| | 103A0073 | - | Drive Arm with Nut (Long)* |
| 21 | - | 105A0097 | Swivel Spring Clip (1979 to Present Stir-Ators) |
| 22 | - | 105A0105 | Center Pivot Junction Box (1983 to Present Stir-Ators) |
| | - | 105A0105 | Center Pivot Junction Box (1979 to 1982 Stir-Ators) |
| | - | H-350-SDT | Center Pivot Shaft (1968 to 1978 Stir-Ators) |
| 23 | - | 106A052 | Swivel Box Cover (1983 to Present Stir-Ators) |
| | - | 105A0048 | Swivel Box Cover - 15-1/2" Long (1980 to 1982 Stir-Ators) |
| | - | 105A0003 | Swivel Box Cover - 7" Long (1979 Stir-Ators) |
| | 103A0003 | H-370-SD and H-371-SD | Swivel Box Cover with Gasket (1968 to 1978 Stir-Ators) |
| 24 | - | PT0235 | Ball Bushing, 7/8" (Triangle #E14P) (1979 to Present Stir-Ators) |
| | PT0211 | H-402-SDT | Bearing, 7/8" I.D. x 2-1/16" O.D. (NTN #UCS-205-014DIN) (1968 to 1978 Stir-Ators) |
| | N/A | None | Bearing, 7/8" I.D. x 2-7/16" O.D. (PT0242 with 7/8" I.D. Bushing) (Early 1968 Stir-Ators) |
| | PT0242 | 166-D | Bearing, 1-1/6" I.D. x 2-7/16" O.D. (NTN #UCS 206-101DIN) (1966 to 1967 DA Stir-Ators) |
| | N/A | 137-D | Thrust Bearing, 1-1/8" I.D. x 2-3/16" O.D. (NICE #5136) (1965 to 1967 Stir-Ators) |
| | PT0217 | 136-SDT | Thrust Bearing, 15/16" I.D. x 1-27/32" O.D. (AETNA #E-8 was: NICE #6564) (1965 to 1967 Stir-Ators) |
| 25 | PT0217 | 136-SDT | Thrust Bearing, 15/16" I.D. x 1-27/32" O.D. (AETNA #E-8 was: NICE #6564) (1968 to 1978 Stir-Ators) |
| 26 | - | PT0421 | 3-Hole Stamped Flange Housing (1979 to Present Stir-Ators) |
| 27 | - | PT0808 | Single Lip Seal, 2-1/4" (1979 to Present Stir-Ators) |
| | N/A | 103A0111 | Stamped Plastic Washer, 1-17/32" (1968 to 1978 Stir-Ators) |

Center Yoke Pivot Assemblies (Continued)

| Ref # | Part # | | Description |
|-------|-------------|------------|--|
| | Replaced by | Original # | |
| 28 | - | 1EL0403 | Cord Connector, 3/4" (1983 to Present and 1968 to 1978 Stir-Ators) |
| | - | 1EL0404 | Cord Connector, 1" (1979 to 1982 Stir-Ators) |
| 29 | - | 1EL0885 | Terminal Block, 5 Post, Double Row (1979 to Present Stir-Ators) |
| | - | H-398-SDT | Terminal Block, 4 Post, Double Row (1968 to 1978 Stir-Ators) |
| 30 | - | 1EL0895 | Line Jump Strap (1983 to Present Stir-Ators) |
| 31 | - | 1EL0897 | Terminal Block Insulating Strip 440V Only (1983 to 1990 Stir-Ators) |
| 32 | - | 1FH0728 | Hex Lock Nut, Nylon Insert, 1/2" (1979 to Present Stir-Ators) |
| 33 | - | 1FH0764 | Hex Nut, 5/16" (1979 to Present Stir-Ators) |
| 34 | - | 2FH0435 | Knurled Shoulder Bolt, 1/2" x 1" (1979 to Present Stir-Ators) |
| 35 | - | 2FH1083 | Hex Bolt, Grade 5, 5/16" x 1-3/4" (1979 to Present Stir-Ators) |
| 36 | - | 3FH0568 | External Retaining Ring, 7/8" (1979 to Present Stir-Ators) |
| 37 | - | 3FH0745 | Cotter Pin, 1/4" x 2-1/2" (1983 to Present Stir-Ators) |
| 38 | - | 3FH0790 | Lock washer, 5/16" (1979 to Present Stir-Ators) |
| 39 | - | 3FH0837 | Machinery Bushing, 18 Gauge (1983 to Present Stir-Ators) |
| | - | 3FH0829 | Machinery Bushing, 14 Gauge (1979 to 1982 Stir-Ators) |
| 40 | - | 3FH0900 | Spring Pin, 1/4" x 7/8" (1979 to Present Stir-Ators) |
| 41 | - | - | See Suspension Bars on Page 18 |
| 42 | - | - | See Center Yoke Pivot Assemblies on Pages 19-22 |
| 43 | - | - | See Switch Box to Swivel Wires on Page 15 |

* NOTE: See pulley/drive arm specification chart [below](#).

Drive Pulley/Drive Arm Specification Chart

| Part # | | Production Year | Drive Pulley Size | # of Augers |
|----------------------|----------------------|-----------------|-------------------|-------------|
| Drive Pulley | Drive Arm | | | |
| 103A0048 | 103A0056 | 1968-1978 | 10" | 1 |
| 103A0048 | 105A0030 | 1979-1982 | 10" | 1 |
| 103A0049 | 105A0030 | 1983-Present | 12" | 1 |
| 103A0049 or 103A0050 | 103A0056 or 103A0073 | 1968-1969 | 12" or 14" | 2 |
| 103A0049 | 103A0056 | 1970-1978 | 12" | 2 |
| 103A0049 | 105A0030 | 1979-Present | 12" | 2 |
| 103A0050 | 103A0073 | 1970-1978 | 14" | 3 |
| 103A0050 | 105A0031 | 1979-1982 | 14" | 3 |
| 105A0101 | 105A0030 | 1983-Present | 14" | 3 |

Drive Pulley and Drive Arm Part # Cross-Reference Chart

| Drive Pulley Part # | | Drive Arm Part # | |
|---------------------|----------|------------------|----------|
| Current | Old | Current | Old |
| 103A0048 (10") | B-704 | 103A0056 (Short) | B-763 |
| | C-1235 | | C-1240 |
| | H-404-S | | C-1241 |
| 103A0049 (12") | B-762 | | H-408-S |
| | C-1236 | 103A0073 (Long) | B-827 |
| 103A0050 (14") | B-826 | | C-1242 |
| | C-1238 | | H-409-DT |
| | H-405-DT | | |

Gooseneck and Swivel Replacement

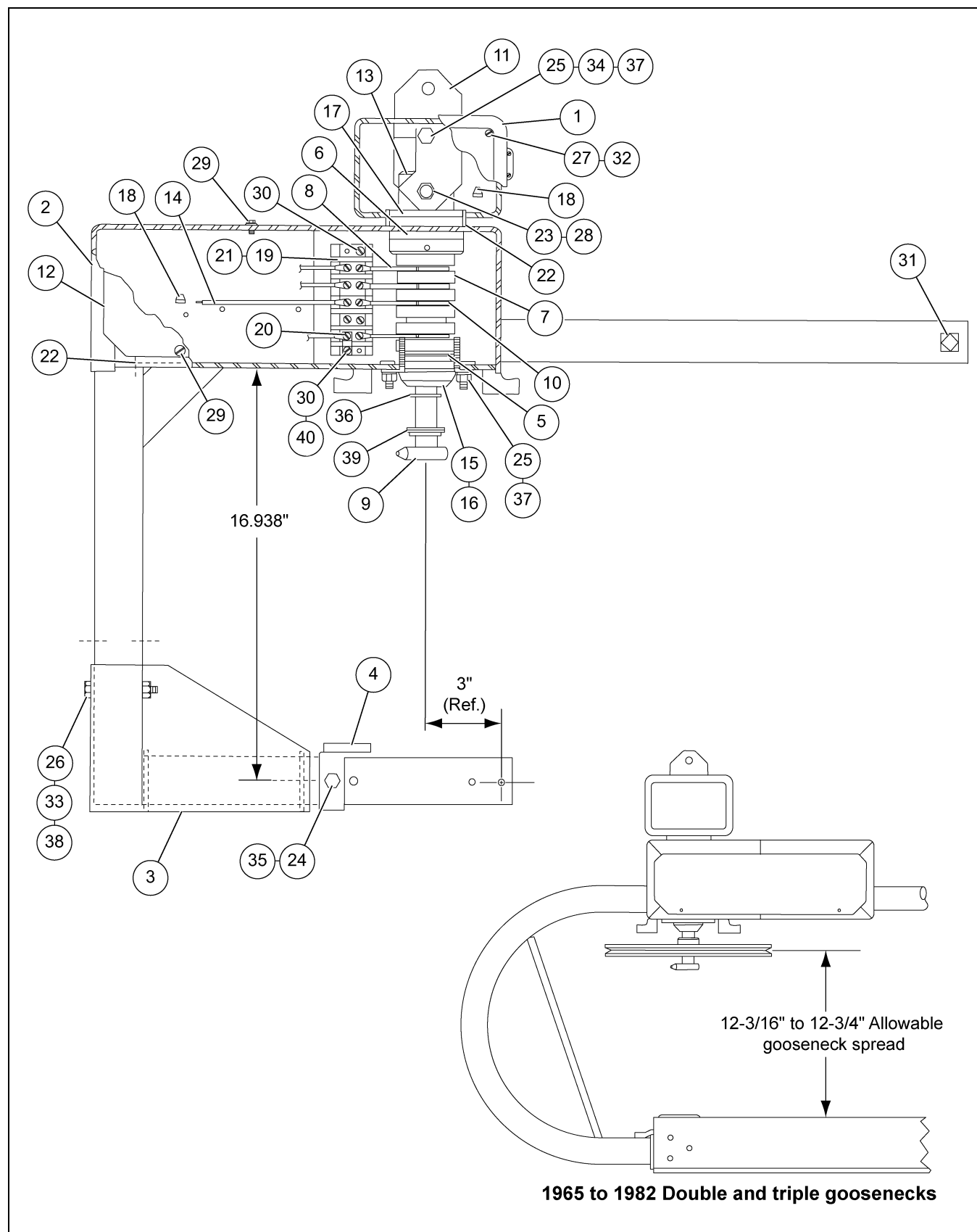


Figure 5B

5. Yoke

| Ref # | Part # | Description | Qty |
|-------|----------|---|-----|
| 1 | 103A0003 | Junction Box Cover | 2 |
| 2 | 103A0127 | Gooseneck and Swivel Convection | 1 |
| 3 | 103A0128 | Gooseneck - Pivot Tube | 1 |
| 4 | 103A0129 | Gooseneck - Pivot Stop | 1 |
| 5 | 103E0012 | Washer - Insulating, 2" O.D. | 2 |
| 6 | 104A0015 | Bearing, Thrust, Swivel | 1 |
| 7 | 104E2005 | Swivel - Electric, 3 PH | 1 |
| 8 | 104E0020 | Strap - Swivel, 9.35" OAL | 4 |
| 9 | 105A0030 | Center Drive Arm and Shaft | 1 |
| 10 | 105A0097 | Swivel Spring Clip | 4 |
| 11 | 105A0099 | Junction Box Assembly | 1 |
| 12 | 106A052 | Cover - Swivel Box | 2 |
| 13 | 106A055 | Bushing - Flanged, Swivel | 1 |
| 14 | 106A032 | Tube - Extension | 4 |
| 15 | PT0235 | Ball, Bearing Bronze 7/8" I.D. x 2" O.D. | 1 |
| 16 | PT0421 | Flange, Three Hole Plated 3-3/4" O.D. | 2 |
| 17 | PT0808 | Seal, for 2-1/4" Shaft | 1 |
| 18 | 1EL0557 | Connector, 3M Scotchlok B/G+ | 8 |
| 19 | 1EL0885 | Connector, Terminal Block 5P 55A 600V | 1 |
| 20 | 1EL0895 | Connector, Terminal Block- Jumper | 1 |
| 21 | 1EL0897 | Terminal Block Insulating Strip | 1 |
| 22 | MS0372 | Silicone Rubber Sealent (RTV 108) (Caulk between welds) | A/R |
| 23 | 1FH0728 | Nylock Nut 1/2"-20 Plated Grade 2 | 2 |
| 24 | 1FH0735 | Hex Lock Nut 5/16" | 1 |
| 25 | 1FH0764 | Hex Nut 5/16" | 4 |
| 26 | 1FH0765 | Hex Nut 3/8" | 2 |
| 27 | 1FH0783 | Hex Machine Screw Nut 10-24 | 4 |
| 28 | 2FH0435 | Bolt, Stud Clinch 1/2"-20 x 1-1/2" ZN Grade 8 | 2 |
| 29 | 2FH0475 | Slotted Hex Washer Head Self-Tapping Screw 10 x 1/2" Type F | 6 |
| 30 | 2FH0478 | Slotted Hex Washer Head Self-Tapping Screw 10 x 1" Type F | 2 |
| 31 | 2FH0617 | Screw, Set 3/8"-16 x 3/4" SKT HD ZN Cup Point | 1 |
| 32 | 2FH0740 | Screw, MS #10-24 x 5" RHS ZN | 4 |
| 33 | 2FH0863 | Hex Bolt 3/8" x 3" | 2 |
| 34 | 2FH1083 | Hex Bolt 5/16" x 1-3/4" Grade 5 | 1 |
| 35 | 2FH1087 | Hex Bolt 5/16" x 2-3/4" Grade 5 | 1 |
| 36 | 3FH0568 | Retaining Ring, 7/8" External E-Type Black | 2 |
| 37 | 3FH0790 | Lock Washer 5/16" | 4 |
| 38 | 3FH0791 | Lock Washer 3/8" | 2 |
| 39 | 3FH0829 | Bushing, Machinery Bushing 1-3/8" x 7/8" x 14 Gauge | 2 |
| 40* | 3FH0962 | Rivet Washer 3/16" | 1 |

* **NOTE:** Put between 1EL0896 and 1EL0885.

Gooseneck and Swivel Replacement Kit Installation Instructions (103A0126)

This conversion will now cover either a conversion of the swivel on the 1965-1967 Stir-Ators or a replacement of damaged goosenecks on 1968-1982 Stir-Ators which were not compatible to the Stir-Guard before. (See your dealer for Stir-Guard information.)

1. **Conversion Assembly:** Be sure the correct size pulley was ordered. To install it, remove the junction box covers and remove the 5/16" bolt. Slide the center drive arm out of the swivel and remove the upper snap ring and one washer. Slide the pulley onto the shaft with the hub up, then replace the washer and snap ring. (See Chart on Page 26.) Carefully slide the shaft up through the swivel so the wires are not pinched or nicked inside the swivel. Secure with the 5/16" hardware. Check the distance between the pivot tube and center of the drive pulley. Adjust it if needed by removing the two bolts in the rectangular tube. (See Chart on Page 26 and See Figure 5C to determine narrow or wide spacing.) Measure the inboard frame pivot, if it is 6" long, bolt the pivot stop in the back hole. If it is 4" long, bolt the pivot stop in the front hole, and cut off 1-1/4" of the pivot tube, leaving about 3/8" past the inside small hole for the cotter pin. (See Figure 5D.)

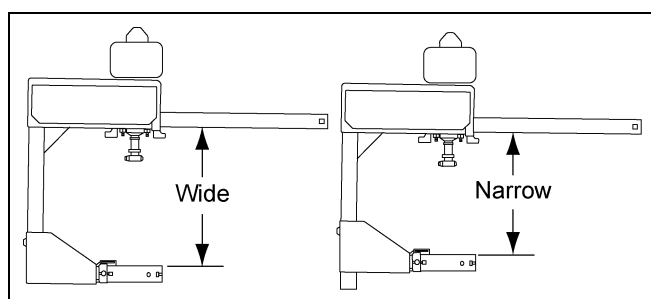


Figure 5C

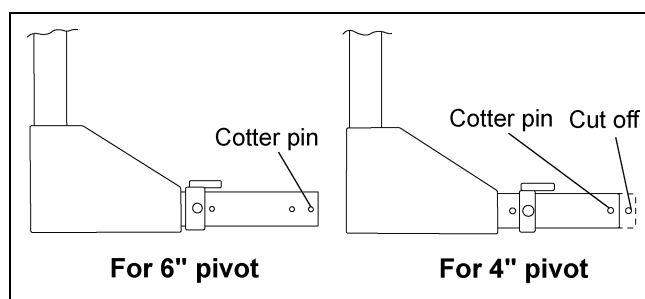


Figure 5D

2. **Assembly of Conversion to Unit:** Disconnect power to the Stir-Ator and make sure it cannot be accidentally turned ON while work is being performed.
3. Support the bridge frame with blocking or other safe support means. This is best done in a full grain bin, otherwise the Stir-Ator may have to be lowered to the bin floor and worked on sitting on sawhorses.
4. Disconnect all wires from the old gooseneck and center pivot junction box.
5. Remove the cable from the center drive pulley.
6. Cut the extension pipe off 14" from the center of the swivel being sure NOT to nick or cut the yoke wire running inside the tube.
7. Remove the main suspension clevis bolt.
8. Remove the old gooseneck by removing the cotter pin at the inboard frame pivot.
9. Slide the new swivel into the inboard frame pivot. Re-install the cotter pin and ring (if necessary) at the inboard frame pivot.
10. Insert the yoke wires and extension pipe into the stub pipe of the swivel (on single auger Stir-Ators, the kick-in stop will have to be modified to fit over the stub pipe).
11. Re-install the main suspension clevis bolt.
12. Adjust the length of the extension in the stub pipe to make the cable idler pulleys level, then tighten the set screw in the stub pipe.

Gooseneck and Swivel Replacement Kit Installation Instructions (103A0126) (Continued)

13. Re-wire the yoke leads to the swivel extension wires and fasten with wire nuts. *(See Figure 5E.)* Rewire the junction box connections following the color coded wires. If you have a single phase unit cap off the red swivel wire.

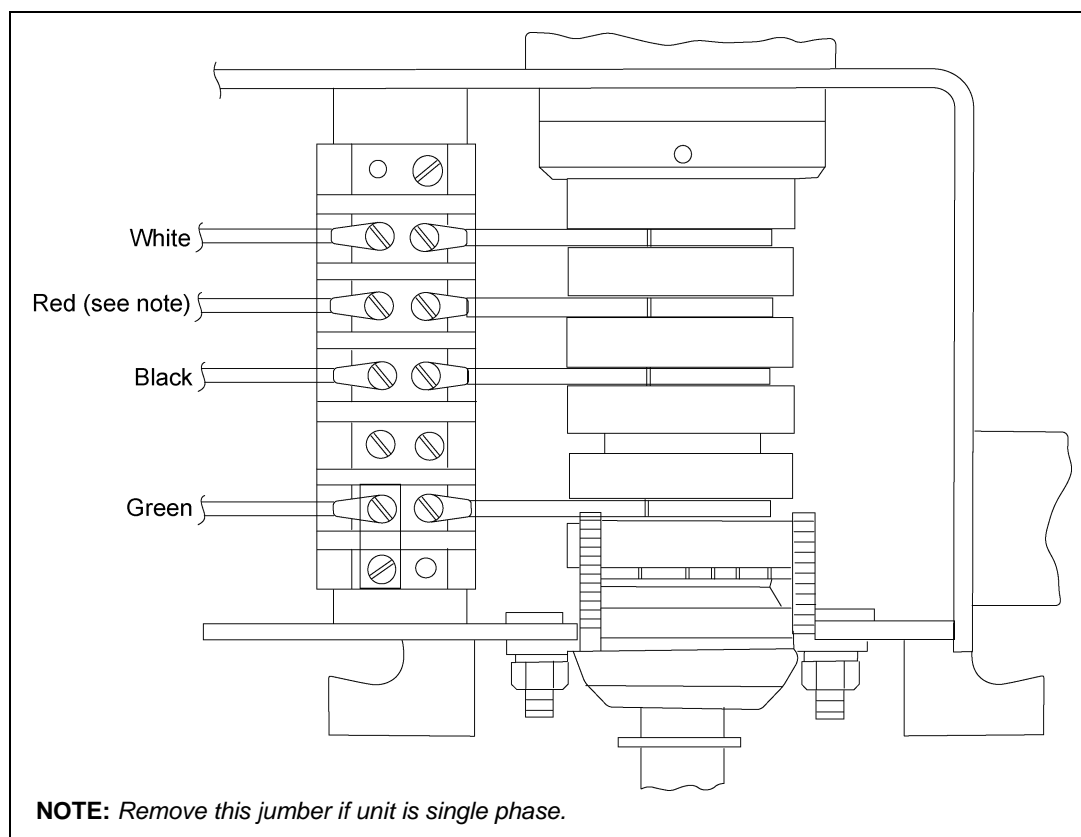


Figure 5E



14. Put the cable back on and tighten to proper tension.
15. Remove the blocking and re-adjust the suspension chains so the bridge frame is 1" to 2" higher at the center of the bin than at the bin wall. Run the trolley in and out a complete cycle to be sure it clears everything. Check the adjustment of the tilt-in and tilt-out stops at this time also.

Drive Pulley Selection Chart

| Part # | Production Year | Drive Pulley | Pulley to Frame space | Pivot Tube Length | # of Augers |
|----------|-----------------|--------------|-----------------------|-------------------|-------------|
| 103A0048 | 1965-1969 | 10" | Narrow | 6" | 1 |
| 103A0048 | 1970-1982 | 10" | Narrow | 4" | 1 |
| 103A0049 | 1965-1966 | 12" | Narrow | 6" | 2 |
| 105A0101 | 1966-1969 | 14" | Wide | 6" | 2 |
| 103A0049 | 1970-1982 | 12" | Wide | 4" | 2 |
| 105A0101 | 1970-1982 | 14" | Wide | 4" | 3 |

Gooseneck - Swivel Conversion

NOTE: 1965, 1966 and 1967 Grain Stir-Ators Only.

1. Support bridge frame by blocking up or chaining up to the suspension tee.
2. Disconnect wires.
3. Disconnect wires.
4. Remove cable.
5. Cut pipe next to weld.
6. Remove the suspension bolt.
7. Remove cotter pin, Remove gooseneck assembly, discard.
8. Change wire in end of pipe from this  to this .
9. Remove the covers from the junction box and swivel. Connect lead in wires at junction box. (Observe Color Code) replace covers.

NOTE: With four wire lead-in connect red lead-in to white, black to black, green to green and white lead-in to greens.

10. Re-install the suspension bolt to hold replacement gooseneck.
11. Start gooseneck into frame pivot.
12. Insert pipe and wire into gooseneck.
13. Adjust length to make idler sheaves level. Tighten set screw.
14. Re-install ring and cotter pin.
15. Connect wires at swivel terminal as shown in terminal diagrams below and replace covers.
16. Install cable.
17. Remove blocking or chain. Operate Stir-Ator to test wiring. Check adjustment of tilt-in and tilt-out stops and check bridge frame for level. Bridge frame should be 1" to 2" higher at center than at bin wall.

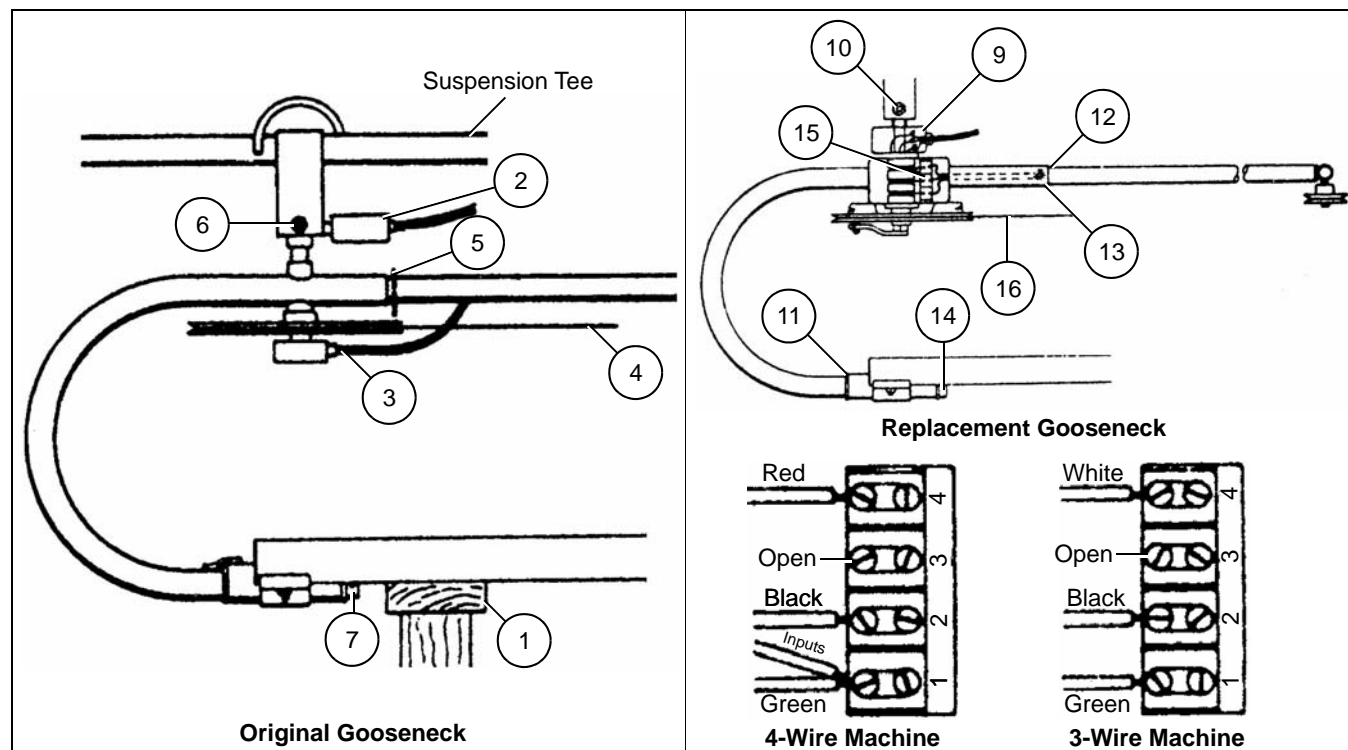


Figure 5F

Yoke Cables and Connectors

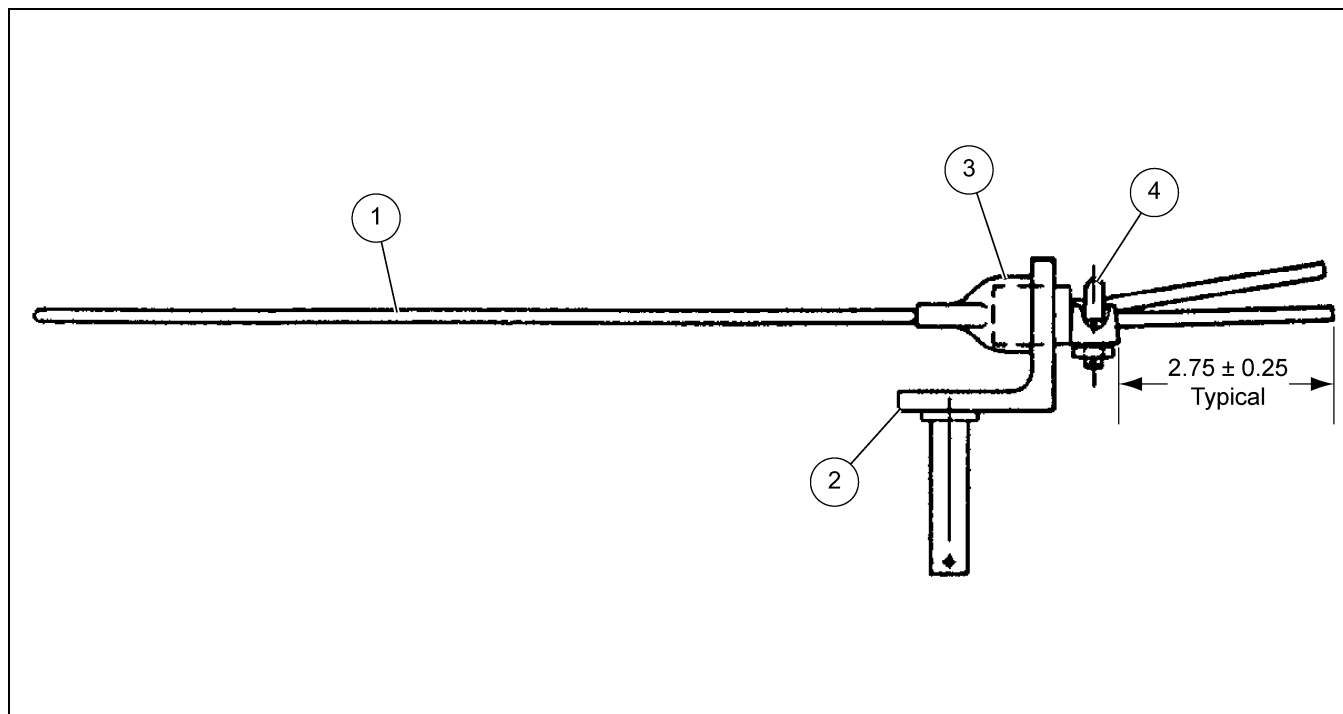


Figure 5G

Yoke Cables and Connectors Parts List

| Ref # | Part # | | Description |
|-------|-------------|------------|--|
| | Replaced by | Original # | |
| 1 | - | DM90008 | 3/16" Aircraft Cable* (1983 to Present Stir-Ators) |
| 2 | N/A | 106A050 | Cable Connector Weldment (1983 to Present Stir-Ators) |
| | 103A0064-Y | 103A0063 | Cable Connector Weldment (1965 to 1982 Stir-Ators) |
| | | B-825 | Cable Connector Weldment |
| | | A-508-T | Cable Connector Weldment |
| | | 160-SD | Cable Connector Weldment |
| 3 | 103A0070 | 162-SDT | Cable Tube (1965 to Present Stir-Ators) |
| 4 | - | 5FH0088 | Cable Clamp (1965 to Present Stir-Ators) |

NOTE: Universal cable package (106A207) 14'-48' machines 43' length.

NOTE: See chart on [Page 34](#) for length of cable required.

* **NOTE:** If ordering bulk cable, use this part # and amount desired in feet.

Yoke Cables and Connectors (Continued)

| Bin Diameter | Cable Lengths | | | | | |
|--------------|----------------------------|---------|---------|-------------------------------|---------|---------|
| | 103A0110 (1965 to 1982) | | | 106A0051 (1983 to Present) | | |
| | SA | DA | TA | SA | DA | TA |
| 14' | 12'-0" | - | - | 11'-8" | - | - |
| 15' | 13'-0" | - | - | 12'-8" | - | - |
| 16' | 14'-0" | - | - | 13'-8" | - | - |
| 18' | 16'-0" | 16'-7" | - | 15'-8" | 15'-8" | - |
| 18'-7" | 16'-7" | 17'-2" | - | 16'-3" | 16'-3" | - |
| 21' | 19'-0" | 19'-7" | 17'-0" | 18'-8" | 18'-8" | 15'-11" |
| 21'-7" | 19'-7" | 20'-2" | 17'-7" | 19'-3" | 19'-3" | 16'-6" |
| 22' | 20'-0" | 20'-7" | 18'-0" | 19'-8" | 19'-8" | 16'-11" |
| 22'-9" | 20'-9" | 21'-4" | 18'-9" | 20'-5" | 20'-5" | 17'-8" |
| 24' | 22'-0" | 22'-7" | 20'-0" | 21'-8" | 21'-8" | 18'-11" |
| 24'-3" | 22'-3" | 22'-10" | 20'-3" | 21'-11" | 21'-11" | 19'-2" |
| 24'-8" | 22'-8" | 23'-3" | 20'-8" | 22'-4" | 22'-4" | 19'-7" |
| 24'-10" | 22'-10" | 23'-5" | 20'-10" | 22'-6" | 22'-6" | 19'-9" |
| 25' | 23'-0" | 23'-7" | 21'-0" | 22'-8" | 22'-8" | 19'-11" |
| 26'-3" | 24'-3" | 24'-10" | 22'-3" | 23'-11" | 23'-11" | 21'-2" |
| 27' | 25'-0" | 25'-7" | 23'-0" | 24'-8" | 24'-8" | 21'-11" |
| 27'-10" | 25'-10" | 26'-5" | 23'-10" | 25'-6" | 25'-6" | 22'-9" |
| 28' | 26'-0" | 26'-7" | 24'-0" | 25'-8" | 25'-8" | 22'-11" |
| 28'-3" | 26'-3" | 26'-10" | 24'-3" | 25'-11" | 25'-11" | 23'-2" |
| 29'-6" | 27'-6" | 28'-1" | 25'-6" | 27'-2" | 27'-2" | 24'-5" |
| 30' | 28'-0" | 28'-7" | 26'-0" | 27'-8" | 27'-8" | 24'-11" |
| 31' | 29'-0" | 29'-7" | 27'-0" | 28'-8" | 28'-8" | 25'-11" |
| 33' | 31'-0" | 31'-7" | 29'-0" | 30'-8" | 30'-8" | 27'-11" |
| 36' | 34'-0" | 34'-7" | 32'-0" | 33'-8" | 33'-8" | 30'-11" |
| 36'-3" | 34'-3" | 34'-10" | 32'-3" | 33'-11" | 33'-11" | 31'-2" |
| 39' | 37'-0" | 37'-7" | 35'-0" | 36'-8" | 36'-8" | 33'-11" |
| 40' | 38'-0" | 38'-7" | 36'-0" | 37'-8" | 37'-8" | 34'-11" |
| 42' | 40'-0" | 40'-7" | 38'-0" | 39'-8" | 39'-8" | 36'-11" |
| 45' | 43'-0" | 43'-7" | 41'-0" | 42'-8" | 42'-8" | 39'-11" |
| 48' | 46'-0" | 46'-7" | 44'-0" | 45'-8" | 45'-8" | 42'-11" |

Support Yokes

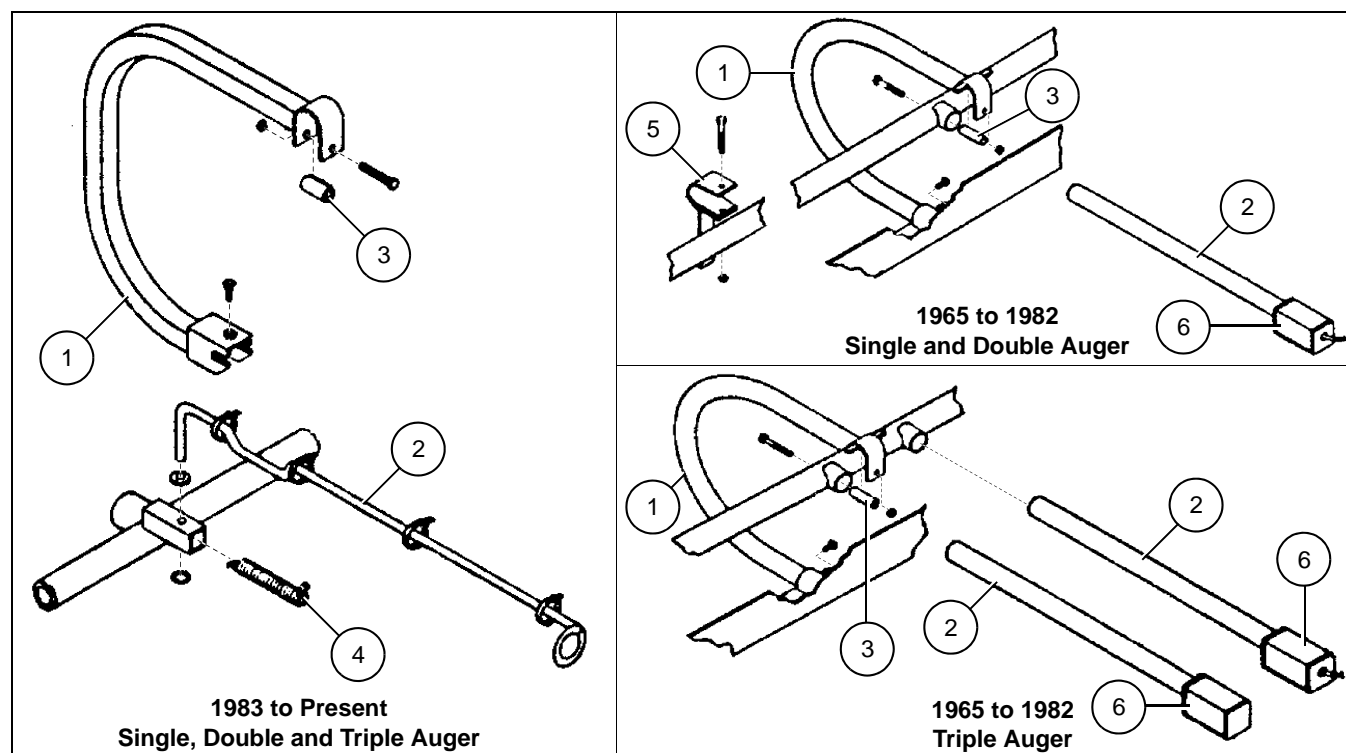


Figure 5H

Support Yokes Part List

| Ref # | Part # | | Description |
|-------|-------------|------------|---|
| | Replaced by | Original # | |
| 1 | - | 106G057 | Support Yoke Single and Double Auger 36' to 48' Diameter Bins (1983 to Present Stir-Ators) |
| | - | 106G058 | Support Yoke Triple Auger 36' to 48' Diameter Bins (1983 to Present Stir-Ators) |
| 2 | - | 106A048-Y | Yoke Wire Support Single, Double and Triple Auger 14' to 39' Diameter Bins (1983 to Present Stir-Ators) |
| | - | 106A064-Y | Yoke Wire Support Single, Double and Triple Auger 39'-1" to 48' Diameter Bins (1983 to Present Stir-Ators) |
| | N/A | 186-SD | Outlet Box with Pipe Extension Single, Double and Triple Auger (1965 to 1982 Stir-Ators) |
| 3 | - | 105G0053-Y | Support Yoke Spacer Tube Single, Double and Triple Auger 36' to 48' Diameter Bins (1979 to Present Stir-Ators) |
| 4 | - | 106A049 | Yoke Wire Support Spring Single, Double and Triple Auger (1983 to Present Stir-Ators) |
| 5 | N/A | 187-S | Center Tilt-In Stop Single Auger (1965 to 1982 Stir-Ators) |
| 6 | - | - | See Trolley Plugs, Connectors, Receptacles, Coil Cards and Wires on Pages 41-43 |

End Yokes

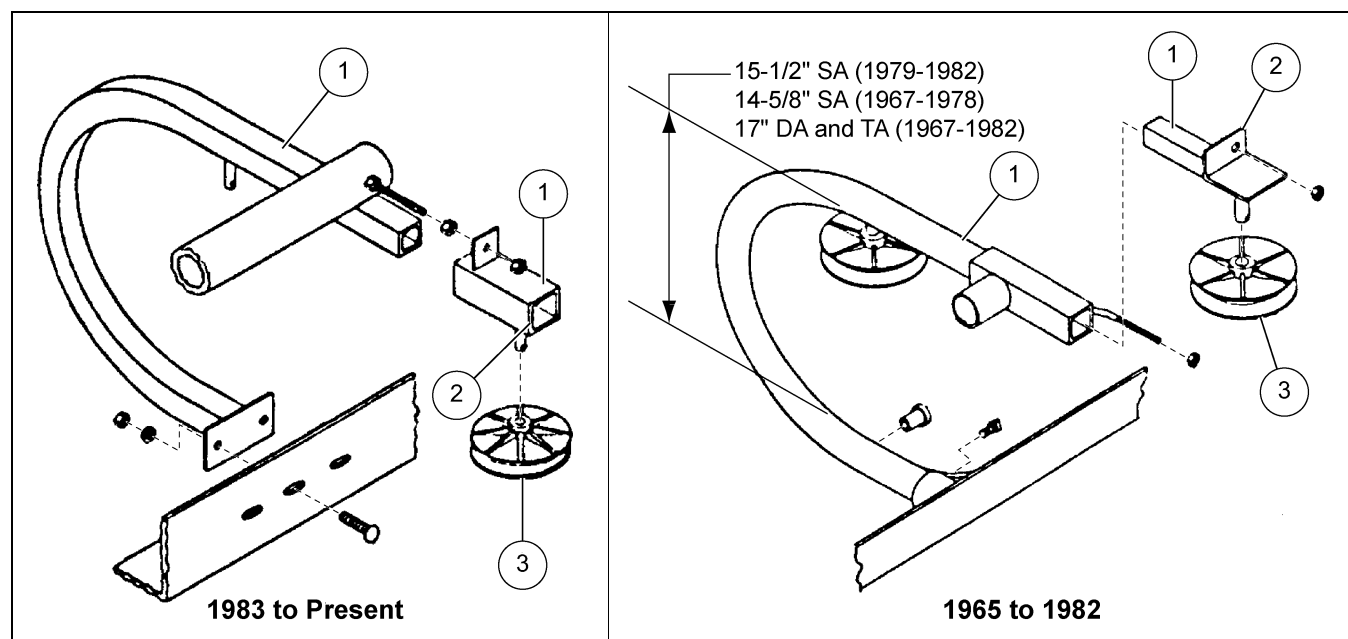


Figure 5I

End Yokes Part List

| Ref # | Part # | | Description |
|-------|-------------|------------|--|
| | Replaced by | Original # | |
| 1 | - | - | End Yoke Assembly |
| 2 | - | 106S042 | Cable Adjustment Weldment Single, Double and Triple Auger (1983 to Present Stir-Ators) |
| | - | 103A0080 | Cable Adjustment Weldment Single Auger (1967 to 1982 Stir-Ators) |
| | - | 103A0081 | Cable Adjustment Weldment Double and Triple Auger (1967 to 1982 Stir-Ators) |
| 3 | 103A0069 | B-703 | End Yoke Idler Single, Double and Triple Auger (1965 to Present Stir-Ators) |

NOTE: In 1965 and 1967 the end yoke's side tube had a smaller bore because of the gooseneck extension tube end stub shaft. A direct replacement for 1965 to 1966 end yokes is not available. Use a 1967 to 1978 end yoke and field modify it for replacements.

Swivel to Trolley Wires and Swivel to Receptacle Wires

NOTE: 1983 to Present for swivel to trolley wires and 1965 to 1982 for swivel to receptacle wires.

| Auger, HP, Volt, PH | 1965 to 1982 Stir-Ator | 1983 to Present DIII | Auger, HP, Volt, PH | 1965 to 1982 Stir-Ator | 1983 to Present DIII | Auger, HP, Volt, PH | 1965 to 1982 Stir-Ator | 1983 to Present DIII |
|------------------------|---------------------------|-------------------------|------------------------|---------------------------|-------------------------|------------------------|---------------------------|-------------------------|
| SA, 1-1/2, 230, 1 | H | A | DA, 1-1/2, 230, 1 | J | A | TA, 1-1/2, 230, 1 | J and L | E |
| SA, 1-1/2, 230, 3 | G | B | DA, 1-1/2, 230, 3 | G | B | TA, 1-1/2, 230, 3 | G and K | D |
| SA, 1-1/2, 440, 3 | G | B | DA, 1-1/2, 440, 3 | G | B | TA, 1-1/2, 440, 3 | G and K | B |
| SA, 2, 230, 1 | H | A | DA, 2, 230, 1 | J | C | TA, 2, 230, 1 | J and L | E |
| SA, 2, 230, 3 | G | B | DA, 2, 230, 3 | G | D | TA, 2, 230, 3 | G and K | D |
| SA, 2, 440, 3 | G | B | DA, 2, 440, 3 | G | D | TA, 2, 440, 3 | G and K | B |

| Bin Diameter | Wire Lengths | | | | | | |
|--------------|------------------------|--------|---------|-------------|----------------------|--------|--------|
| | 1965 to 1982 Stir-Ator | | | | 1983 to Present DIII | | |
| | SA | DA | TA | ADD'L. (TA) | SA | DA | TA |
| 14' | 4'-8" | - | - | - | 10'-2" | - | - |
| 15' | 5'-0" | - | - | - | 10'-3" | - | - |
| 18' | 6'-0" | 6'-0" | - | - | 11'-0" | 11'-0" | - |
| 18'-1" - 21' | 7'-3" | 7'-3" | 5'-9" | 6'-4" | 12'-6" | 12'-6" | 11'-0" |
| 21'-1" - 24' | 8'-9" | 8'-3" | 6'-8" | 7'-3" | 14'-0" | 14'-0" | 12'-6" |
| 24'-1" - 27' | 9'-2" | 9'-0" | 7'-8" | 8'-3" | 15'-6" | 15'-6" | 14'-0" |
| 27'-1" - 30' | 10'-0" | 9'-6" | 8'-5" | 9'-0" | 17'-0" | 17'-0" | 15'-6" |
| 30'-1" - 33' | 10'-6" | 10'-0" | 8'-10" | 9'-5" | 18'-6" | 18'-6" | 17'-0" |
| 33'-1" - 36' | 10'-6" | 10'-6" | 9'-10" | 10'-5" | 20'-0" | 20'-0" | 18'-6" |
| 36'-1" - 39' | 10'-10" | 11'-1" | 10'-10" | 10'-10" | 21'-6" | 21'-6" | 20'-0" |
| 39'-1" - 42' | 11'-8" | 11'-8" | 11'-2" | 11'-9" | 23'-0" | 23'-0" | 21'-6" |
| 48' | 13'-2" | 13'-2" | 13'-0" | 13'-7" | 26'-0" | 26'-0" | 26'-0" |

| Ref # | Part # | | Description |
|-------|-------------|----------------------|---|
| | Replaced by | Original # | |
| A | - | 106E024 or 1EL3050* | Swivel to Trolley Wire (12/3, SO) (Used on 1983 to Present DIII Stir-Ators) |
| B | - | 106E025 or 1EL3052* | Swivel to Trolley Wire (14/4, SO) (Used on 1983 to Present DIII Stir-Ators) |
| C | - | 106E026 or 1EL3047* | Swivel to Trolley Wire (10/3, SO) (Used on 1983 to Present DIII Stir-Ators) |
| D | - | 106E027 or 1EL3048* | Swivel to Trolley Wire (10/4, SO) (Used on 1983 to Present DIII Stir-Ators) |
| E | - | 106E028 or 1EL3058* | Swivel to Trolley Wire (8/3, SO) (Used on 1983 to Present DIII Stir-Ators) |
| F | - | 103E0043 or 1EL3052* | Swivel to Receptacle Wire (14/4, SO) (Used on 1965 to 1982 Stir-Ators) |
| G | - | 103E0043 or 1EL3046* | Swivel to Receptacle Wire (14/3, SO) (Used on 1965 to 1982 Stir-Ators) |
| H | - | 103E0043 or 1EL3050* | Swivel to Receptacle Wire (12/3, SO) (Used on 1965 to 1982 Stir-Ators) |
| I | - | 103E0046 or 1EL3052* | Additional Swivel to Receptacle Wire (14/4, S), 3 PH Triple Augers Only (Used on 1965 to 1982 Stir-Ators) |
| J | - | 103E0046 or 1EL3046* | Additional Swivel to Receptacle Wire (14/3, S), 3 PH Triple Augers Only (Used on 1965 to 1982 Stir-Ators) |

* **NOTE:** If ordering bulk wire, use this part # and amount desired in feet. Order wire by the foot.

Gearmotor Wires and Receptacle to Gearmotor Wires

NOTE: 1983 to Present for gearmotor wires and 1965 to 1982 for receptacle to gearmotor wires.

| Auger, HP, Volt, PH | 1965 to 1982 Stir-Ator | 1983 to Present DIII | 1988 to Present DIII - CSA |
|---------------------|---------------------------|-------------------------|-------------------------------|
| SA, 1-1/2, 230, 1 | D | A | A |
| SA, 1-1/2, 230, 3 | D | C | C |
| SA, 1-1/2, 440, 3 | E | C | C |
| SA, 2, 230, 1 | D | A | A |
| SA, 2, 230, 3 | D | C | C |
| SA, 2, 440, 3 | E | C | C |
| DA, 1-1/2, 230, 1 | D | A | A |
| DA, 1-1/2, 230, 3 | D | C | C |
| DA, 1-1/2, 440, 3 | E | C | C |
| DA, 2, 230, 1 | D | A | A |
| DA, 2, 230, 3 | D | C | C |
| DA, 2, 440, 3 | E | C | C |
| TA, 1-1/2, 230, 1 | D | B | B |
| TA, 1-1/2, 230, 3 | D | A | A |
| TA, 1-1/2, 440, 3 | E | C | C |
| TA, 2, 230, 1 | D | B | B |
| TA, 2, 230, 3 | D | A | A |
| TA, 2, 440, 3 | E | C | C |

| Ref # | Part # | | Description |
|-------|-------------------------|------------------------|--|
| | Replaced by | Original # | |
| A | - | - | Gearmotor Wires (18/3, SJ) |
| B | - | 106E030 or 1EL3019* | Gearmotor Wire (16/3, SJ) (Used on 1983 to Present DIII Stir-Ators) |
| C | - | 106E031 or 1EL3061* | Gearmotor Wire (18/3, SO) (Used on 1983 to Present DIII Stir-Ators) |
| D | N/A | D-3004 | Receptacle to Gearmotor Wire (18/3, SJ) (Used on 1965 to 1982 Stir-Ators) |
| E | 103E0042 or 1EL3061* | D-3004 | Receptacle to Gearmotor Wire (18/3, SO) (Used on 1965 to 1982 Stir-Ators) |

* **NOTE:** If ordering bulk wire, use this part # and amount desired in feet. Order wire by the foot. Refer to wire length chart [on Page 34](#).

5. Yoke

| Bin Diameter | Wire Lengths | | | | | |
|--------------|------------------------|---------|---------|----------------------|---------|---------|
| | 1965 to 1982 Stir-Ator | | | 1983 to Present DIII | | |
| | SA | DA | TA | SA | DA | TA |
| 14' | 8'-5" | - | - | 16'-5" | - | - |
| 15' | 8'-7" | - | - | 16'-9" | - | - |
| 18' | 9'-1" | 9'-5" | - | 17'-6" | 17'-6" | - |
| 18'-7" | 9'-1" | 9'-5" | - | 17'-10" | 17'-10" | - |
| 21' | 9'-4" | 9'-8" | 11'-4" | 19'-0" | 19'-0" | 19'-0" |
| 21'-7" | 9'-4" | 9'-8" | 11'-4" | 19'-4" | 19'-4" | 19'-4" |
| 22' | 9'-4" | 9'-8" | 11'-7" | 19'-6" | 19'-6" | 19'-6" |
| 22'-9" | 9'-4" | 9'-8" | 11'-7" | 19'-11" | 19'-11" | 19'-11" |
| 24' | 9'-4" | 10'-2" | 11'-11" | 20'-6" | 20'-6" | 20'-6" |
| 24'-3" | 9'-4" | 10'-2" | 11'-11" | 20'-8" | 20'-8" | 20'-8" |
| 24'-8" | 9'-4" | 10'-2" | 11'-11" | 20'-10" | 20'-10" | 20'-10" |
| 24'-10" | 9'-4" | 10'-2" | 12'-1" | 20'-11" | 20'-11" | 20'-11" |
| 25' | 9'-4" | 10'-2" | 12'-1" | 21'-0" | 21'-0" | 21'-0" |
| 26'-3" | 10'-1" | 10'-11" | 12'-5" | 21'-8" | 21'-8" | 21'-8" |
| 27' | 10'-1" | 10'-11" | 12'-5" | 22'-0" | 22'-0" | 22'-0" |
| 27'-10" | 10'-7" | 11'-3" | 12'-9" | 22'-5" | 22'-5" | 22'-5" |
| 28' | 10'-7" | 11'-3" | 12'-9" | 22'-6" | 22'-6" | 22'-6" |
| 28'-3" | 10'-7" | 11'-3" | 12'-9" | 22'-8" | 22'-8" | 22'-8" |
| 29'-6" | 10'-11" | 11'-7" | 13'-2" | 23'-3" | 23'-3" | 23'-3" |
| 30' | 10'-11" | 11'-7" | 13'-2" | 23'-6" | 23'-6" | 23'-6" |
| 31' | 11'-2" | 11'-9" | 13'-5" | 24'-0" | 24'-0" | 24'-0" |
| 33' | 12'-0" | 12'-7" | 14'-3" | 25'-0" | 25'-0" | 25'-0" |
| 36' | 13'-7" | 13'-7" | 14'-9" | 26'-6" | 26'-6" | 26'-6" |
| 36'-3" | 13'-7" | 13'-7" | 14'-9" | 26'-8" | 26'-8" | 26'-8" |
| 39' | 14'-7" | 14'-7" | 15'-4" | 28'-0" | 28'-0" | 28'-0" |
| 40' | 14'-11" | 14'-11" | 15'-7" | 28'-6" | 28'-6" | 28'-6" |
| 42' | 15'-5" | 15'-5" | 16'-5" | 29'-6" | 29'-6" | 29'-6" |
| 48' | 16'-11" | 16'-11" | 17'-7" | 32'-6" | 32'-6" | 32'-6" |

Drive Arms and Steer Horns

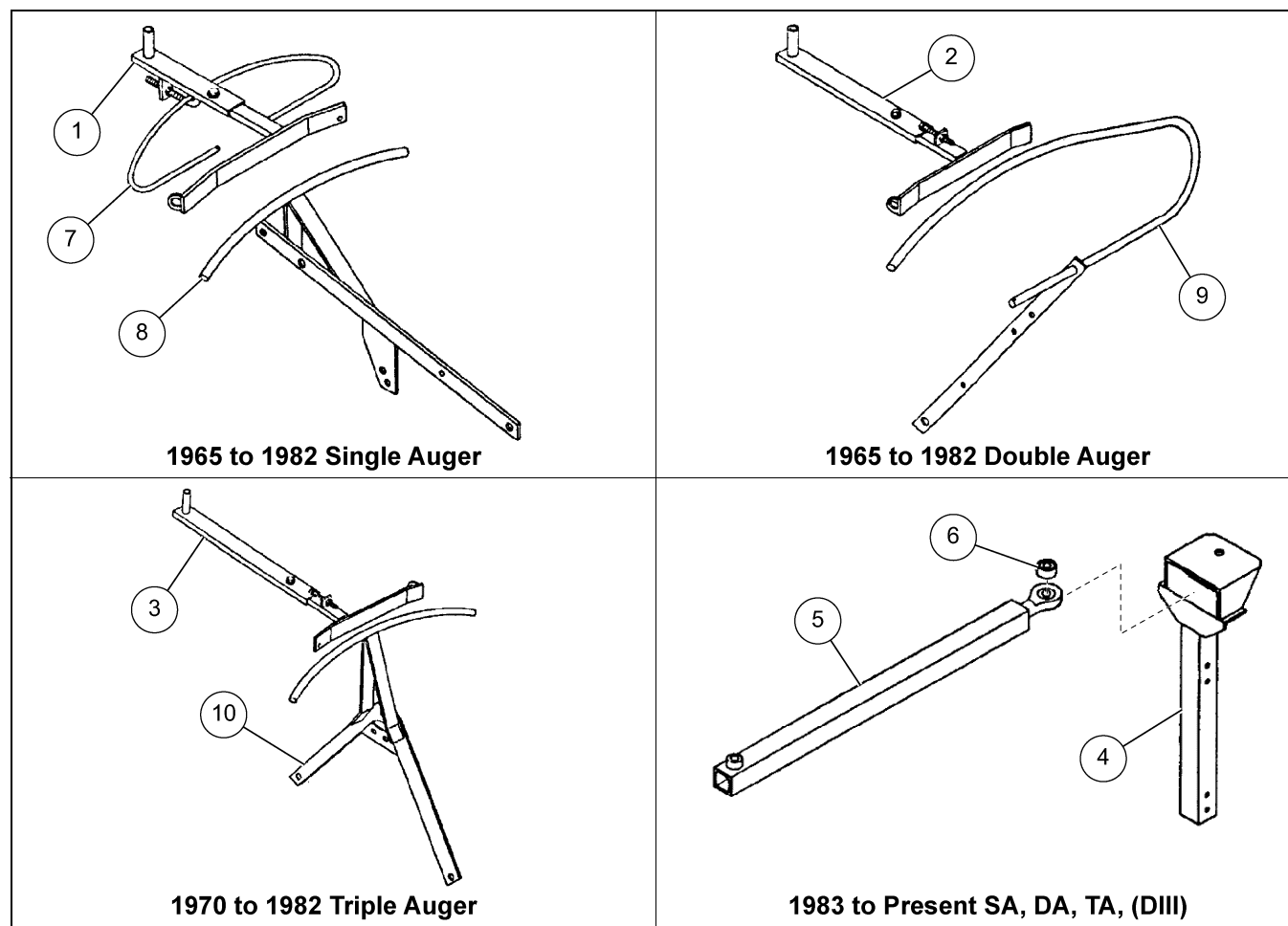


Figure 6A

Drive Arms and Steer Horns Parts List

| Ref # | Part # | | Description |
|-------|-------------|------------|--|
| | Replaced by | Original # | |
| 1 | 103B0013 | A-544-S | Drive Arm - Single Auger (1965 to 1982) (Yoke Pulley Must be 10") |
| | | B-728 | |
| 2 | 103B0028 | B-787 | Drive Arm - Double Auger (1965 to 1982) (Yoke Pulley Must be 12") (1965 to 1969) (Yoke Pulley Must be 14") |
| | | A-554-DT | |
| | 103B0035 | A-554-DT | |
| 3 | 103B0035 | B-862 | Drive Arm - Triple Auger (1970 to 1982) (Yoke Pulley Must be 14") |
| 4 | - | 106B102 | Drive Arm Post (1983 to Present) |
| 5 | - | 106B103 | Drive Arm (1983 to Present) |
| 6 | - | 106B110 | Drive Arm Bushing (1983 to Present) |
| 7 | N/A | N/A | Hold-Down Rod (1965 to 1982, Single Augers) |
| 8 | N/A | N/A | Trolley Side Bar with Steer Horn (Single Augers) |
| 9 | N/A | N/A | Trolley Side Bar with Steer Horn (Double Augers) |
| 10 | N/A | N/A | Trolley Side Bar with Steer Horn (Triple Augers) |

Belt Shields, Pulleys and Belts

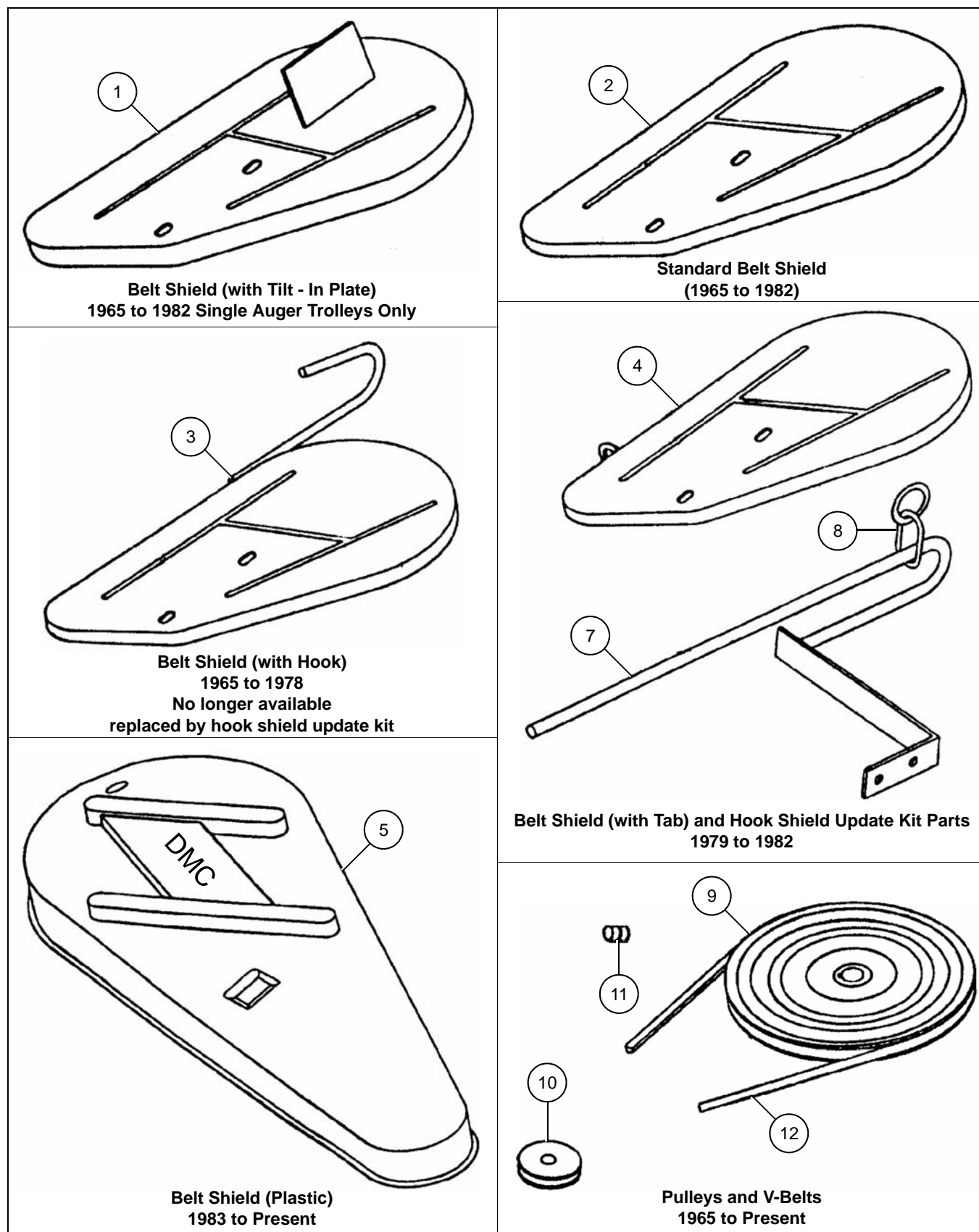


Figure 6B

Belt Shields, Pulleys and Belts Parts List

| Ref # | Part # | | Description |
|-------|-------------|------------|--|
| | Replaced by | Original # | |
| 1 | N/A | N/A | Belt Shield - With Tilt In Plate (SA Trolleys) |
| 2 | 103B0128 | A-551-DT | Belt Shield - Standard (1-1/2 HP) (1965 to 1969 Outside DA Trolleys) (1969 Only Center TA Trolleys) (1970 to 1982 Outside DA Trolleys and Center and Outside TA Trolleys) |
| | | A-549-T | |
| | | B-794 | |
| | - | N/A | Belt Shield - Standard (2 HP) (1971 to 1982 Outside DA Trolleys and Center and Outside TA Trolleys) |
| 3 | *105N0122 | A-550-DT | Belt Shield - with Hook (1-1/2 HP) (1965 to 1969 Inside DA and TA Trolleys) (1970 to 1978 Inside DA and TA Trolleys) (1975 to 1978 Inside DA and TA Trolleys) |
| | | B-795 | |
| | | 103B0133 | |
| | | D-3060 | Belt Shield - with Hook (2 HP) (1971 to 1978 Inside DA and TA Trolleys) (1975 to 1978 Inside DA and TA Trolleys) |
| | | 103B0136 | |
| 4 | - | 105B0051 | Belt Shield - with Tab (1-1/2 HP) (1979 to 1982 Inside DA and TA Trolleys) |
| | - | N/A | Belt Shield - with Tab (2 HP) (1979 to 1982 Inside DA and TA Trolleys) |
| 5 | - | 106B099 | Belt Shield - (1-1/2 and 2 HP) (1983 to Present On All DIII Trolleys) |
| 6 | - | *105N0122 | Hook Shield Update Kit (Not Shown) (When Using this Kit on Stir-Ators Older than 1970 Some Customer Field Modifications May be Required) |
| 7 | - | 105B0072 | Restainer Hook Weldment (Part of Update Kit 105N0122) |
| 8 | - | 105B0071 | Drive Arm Rings (Part of Update Kit 105N0122) |
| 9 | N/A | N/A | Pulley - 12" O.D. x 3/4" Bore - 1A (1964 Only) |
| | PT0689 | 215-SDT | Pulley - 12" O.D. x 7/8" Bore - 1A (1965 to 1969) |
| | PT0680 | B-725 | Pulley - 12" O.D. x 1" Bore - 1A (1970 to 1982, 1-1/2 HP Only) |
| | PT0681 | D-3054 | Pulley - 12" O.D. x 1" Bore - 1B (1971 to 1982, 2 HP Only) |
| | - | PT0670 | Pulley - 10" O.D. x 1-3/8" Bore - 1AB (1983 to Present) |
| 10 | PT0618 | 211-SDT | Pulley - 3-1/4" O.D. x 5/8" Bore - 1A (1965 to 1982, 1-1/2 HP) |
| | - | PT0625 | Pulley - 3" O.D. x 7/8" Bore - 1A (1983 to Present, 1-1/2 HP) |
| | PT0621 | D-3053 | Pulley - 3-1/4" O.D. x 7/8" Bore - 1B (1971 to Present, 2 HP) |
| 11 | - | 105B0076 | Set Screw - 5/16" x 3/8" with Adhesive Lock (1965 to Present) |
| 12 | PT0489 | 213-SDT | V-Belt AX48 (Originally was "A48") (1965 to Present, 1-1/2 HP) |
| | | PT0488 | |
| | GK1952 | D-3052 | V-Belt, B50 (1971 to Present, 2 HP) |

*** NOTE:** 105N0122 (Hook Shield Update Kit) dose not include a belt shield. If the customers old hook shield can not be reworked into the new belt shield with tab as the instructions call out he must also order belt shield 105B0051 (1-1/2 HP) or 105B0052 (2 HP).

Stub Shafts, Bearings, Couplers, Clamps and Universal Joints

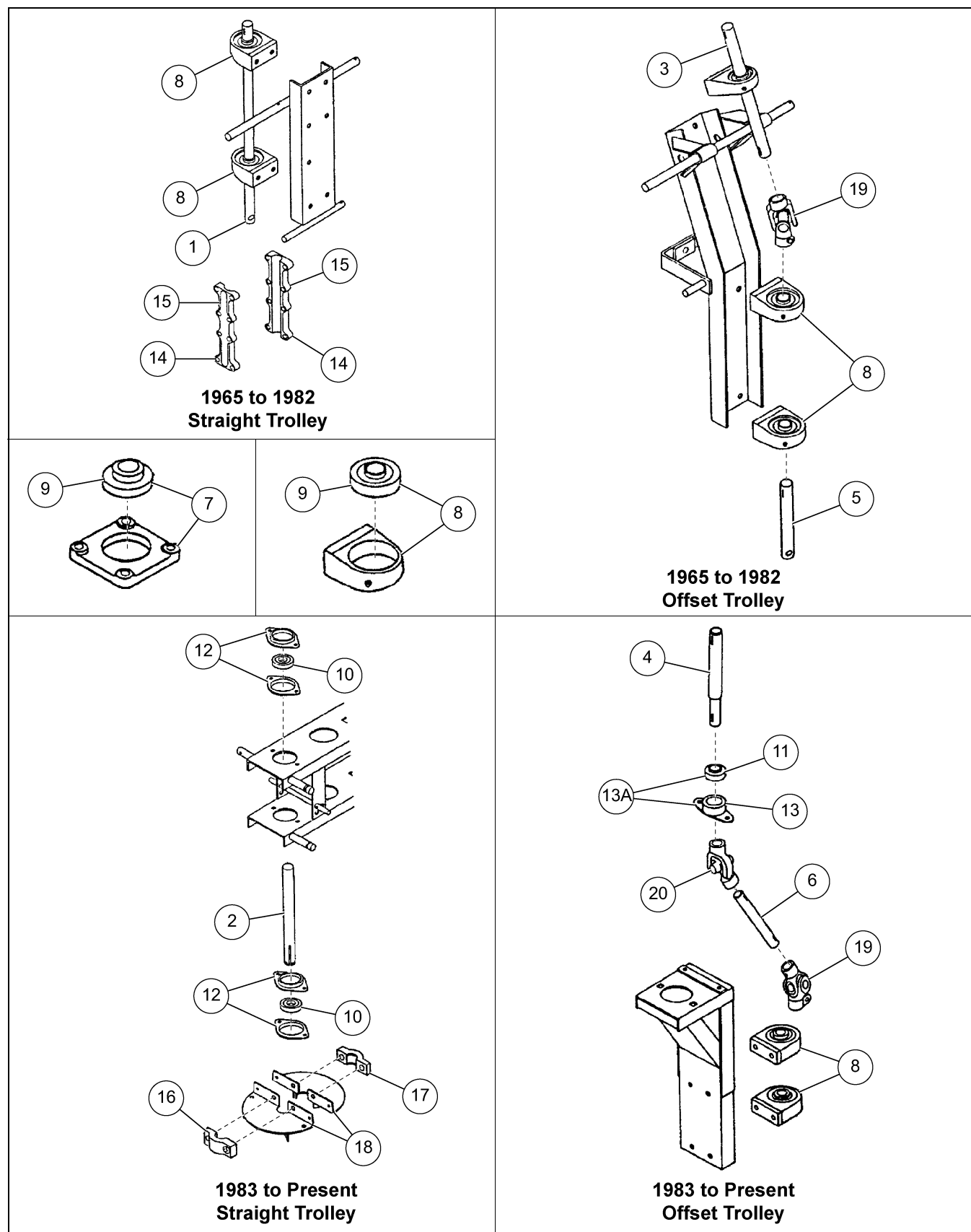


Figure 6C

Stub Shafts, Bearings, Couplers, Clamps and Universal Joints Parts List

| Ref # | Part # | | Description |
|-------|-------------|------------|--|
| | Replaced by | Original # | |
| 1 | 101B0005 | 216-SD | Stub Shaft - for Straight Trolley 3/4" Dia. x 20-3/4" (1964 Only) |
| | 101B0006 | 217-SD | Stub Shaft - for Straight Trolley 3/4" Dia. x 7/8" Dia. x 20-3/4" (Used to replace the 3/4" stub shaft "101B0006/217-SD" when a 7/8" Dia. auger is needed) |
| | 101B0007 | 218-SDT | Stub Shaft - for Straight Trolley 7/8" Dia. x 20-3/4" (1965 to 1969) |
| | 103B0144 | B-792 | Stub Shaft - for Straight Trolley 1" Dia. x 20-3/4" (1970 to 1982) |
| 2 | - | 106B081 | Stub Shaft - for Straight Trolley 1-3/8" Dia. x 16-1/4" (1983 to Present) |
| 3 | 101B0008 | A-537-SDT | Stub Shaft - Upper, for Offset Trolley 7/8" Dia. x 13-1/4" (1969 Only) |
| | 103B0141 | B -723 | Stub Shaft - Upper, for Offset Trolley 1" Dia. x 13-1/2" (1970 to 1982) |
| 4 | - | 106B135 | Stub Shaft - Upper, for Offset Trolley 1-3/8" Dia. x 9-3/4" (1982 to Present) |
| 5 | 101B0009 | A-538-SDT | Stub Shaft - Lower, for Offset Trolley 7/8" Dia. x 7-1/4" (1969 Only) |
| | - | - | Stub Shaft - Lower, for Offset Trolley (1970 to 1982 - Not Used, Auger Fits Directly Into U-Joint) |
| 6 | - | 106B136 | Stub Shaft - Lower, for Offset Trolley 1" Dia. x 6" (1983 to Present) |
| 7 | N/A | 222-SD | Bearing - 4 Hole Casting with 3/4" Insert (1964 Only) (Must be replaced with 7/8" bearing stub shaft, coupler and auger) |
| | PT0137 | 223-SDT | Bearing - 4 Hole Casting with 7/8" Insert (1965 to 1968) |
| 8 | PT0138 | A-533-SDT | Bearing - Pillow Block with 7/8" Insert (1969 Only) |
| | PT0120 | B-721 | Bearing - Pillow Block with 7/8" Insert (1970 to 1982 Straight Trolleys) (1970 to Present, Offset Trolleys) |
| 9 | PT0209 | G-3076 | Bearing Insert - 7/8", Set Screw Lock (1965 to 1969) |
| | PT0215 | D-3030 | Bearing Insert - 1", with ECC Lock Collar (1970 to 1982, Straight Trolleys) (1970 to Present, Offset Trolleys) |
| 10 | - | PT0222 | Bearing Insert - 1-3/8" with ECC LX Collar (1983 to Present) |
| 11 | - | PT0202 | Bearing Insert - 1" with ECC Lock Collar (1983 to 1992 Present) |
| | - | PT0215 | Bearing Insert - 1" with ECC Lock Collar (1983 to Present, Offset Trolleys) |
| 12 | - | PT0428 | 2 Hole Stamped Flange (1983 to Present) |
| 13 | - | PT0415 | 2 Hole Stamped Housing (1983 to 1992, Offset Trolleys) |
| | - | N/A | 2 Hole Casting (Not Sold without Insert) (1993 to Present, Offset Trolleys) |
| 13A | - | PT0111 | Bearing - 2 Hole Casting with 1" Insert (1993 to Present, Offset Trolleys) |

Stub Shafts, Bearings, Couplers, Clamps and Universal Joints Parts List (Continued)

| Ref # | Part # | | Description |
|-------|-------------|------------|---|
| | Replaced by | Original # | |
| 14 | 101B0010 | 221-A-SDT | Auger Coupler Assembly with Bolts (for 7/8" Stub Shafts and 7/8" Augers) (1965 to 1969) |
| | - | 101B0002 | Auger Coupler Assembly with Bolts (for 7/8" Stub Shafts and 1" Augers) (1965 to 1969) |
| | 103B0025 | B-1001 | Auger Coupler Assembly with Bolts (for 1" Stub Shafts and 1" Augers) (1970 to 1982) |
| 15 | - | 103B0018 | Auger Coupler Half (for 7/8" Stub Shafts and 7/8" Augers) (1965 to 1969) |
| | - | 101B0001 | Auger Coupler Half (for 7/8" Stub Shafts and 1" Augers) (1965 to 1969) |
| | - | 103B0020 | Auger Coupler Half (for 1" Stub Shafts and 7/8" Augers) (1979 to 1982) |
| 16 | - | 106B125 | Auger Clamp, (Plain) (1983 to Present DIII) |
| 17 | - | 106B124 | Auger Clamp, (With Spring Pin) (1984 to Present DIII) |
| | - | 106B142-Y | Auger Clamp, (With Spring Pin Hole) (1984 to Present DIII) |
| 18 | - | 106B115 | Leveling Disc, (Not Used on Offsets) (1983 to Present DIII) |
| 19 | N/A | A-535-SDT | Universal Joint - 7/8" (One End Split for Auger Shaft) (1965 to 1969) |
| | - | N/A | Universal Joint - 7/8" to 1" (One End Split for Auger Shaft) (1965 to 1969) |
| | 103B0142 | B-722 | Universal Joint - 1" (One End Split for Auger Shaft) (1970 to Present) |
| 20 | - | PT0984 | Universal Joint - 1" (Standard) (1983 to Present) |

Trolley Plugs, Connectors, Receptacles, Coil Cards and Wires

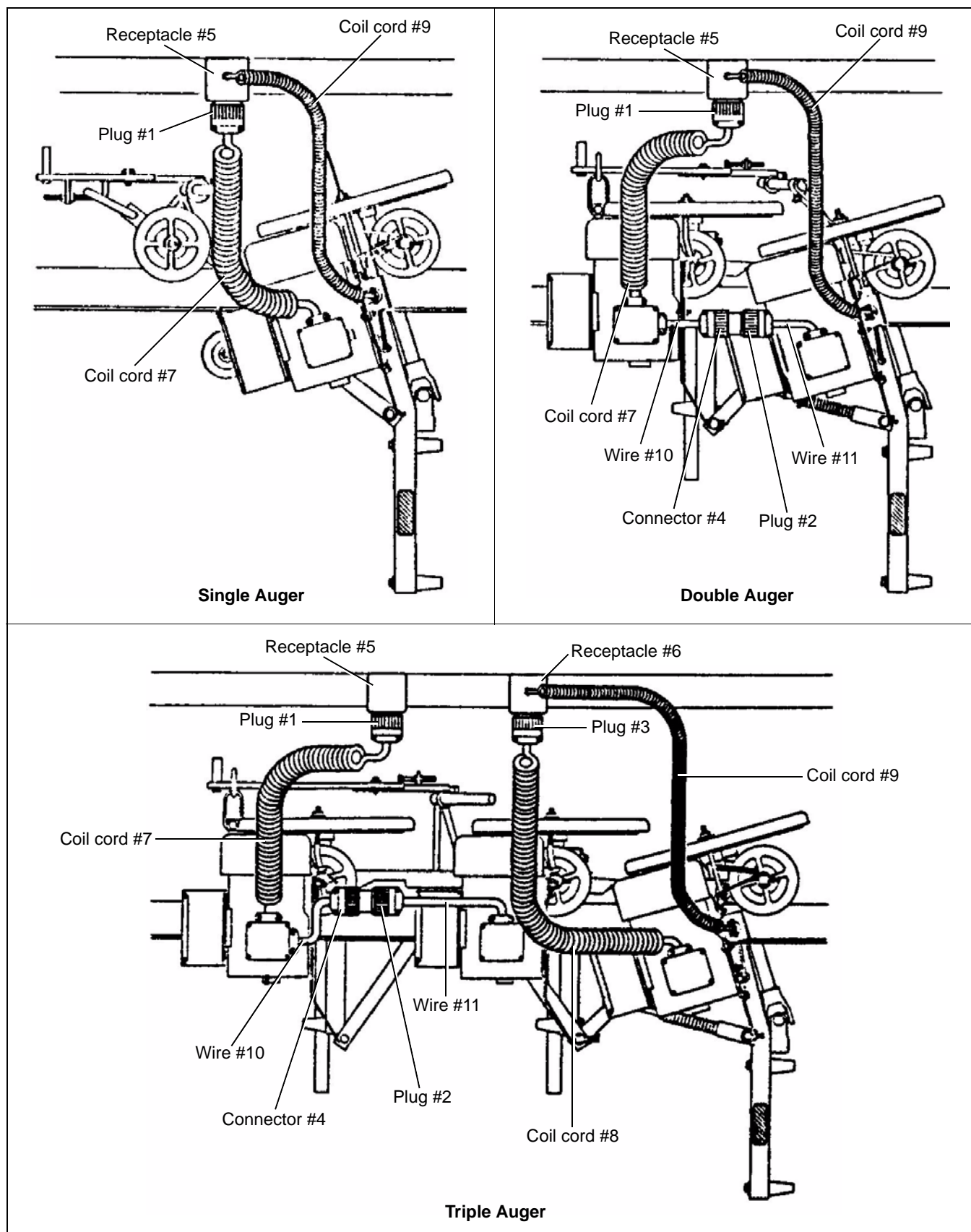


Figure 6D 1965 to 1982

6. Trolley

| Auger, HP, Volt, PH | 1965 to 1978 Stir-Ator | | | | | | | | | | |
|---------------------|------------------------|----|----|-----------|------------|----|------------|----|----|------|-----|
| | Plug | | | Connector | Receptacle | | Coil, Cord | | | Wire | |
| | #1 | #2 | #3 | #4 | #5 | #6 | #7 | #8 | #9 | #10 | #11 |
| SA, 1-1/2, 230, 1 | D | - | - | - | P | - | T | - | S | - | - |
| SA, 1-1/2, 230, 3 | F | - | - | - | R | - | V | - | S | - | - |
| SA, 1-1/2, 440, 3 | C | - | - | - | N | - | V | - | S | - | - |
| SA, 2, 230, 1 | D | - | - | - | P | - | T | - | S | - | - |
| SA, 2, 230, 3 | F | - | - | - | R | - | V | - | S | - | - |
| SA, 2, 440, 3 | C | - | - | - | N | - | V | - | S | - | - |
| DA, 1-1/2, 230, 1 | D | D | D | J | P | - | U | - | S | W | W |
| DA, 1-1/2, 230, 3 | F | F | F | K | R | - | V | - | S | X | X |
| DA, 1-1/2, 440, 3 | C | F | F | H | N | - | V | - | S | X | X |
| DA, 2, 230, 1 | E | D | D | J | Q | - | U | - | S | W | W |
| DA, 2, 230, 3 | F | F | F | K | R | - | V | - | S | X | X |
| DA, 2, 440, 3 | C | F | F | H | N | - | V | - | S | X | X |
| TA, 1-1/2, 230, 1 | D | D | D | J | P | P | U | T | S | W | W |
| TA, 1-1/2, 230, 3 | F | F | F | K | R | R | V | V | S | X | X |
| TA, 1-1/2, 440, 3 | C | F | F | H | N | N | V | V | S | X | X |
| TA, 2, 230, 1 | E | D | D | J | Q | P | U | T | S | W | W |
| TA, 2, 230, 3 | F | F | F | K | R | R | V | V | S | X | X |
| TA, 2, 440, 3 | C | F | F | H | N | N | V | V | S | X | X |

| Auger, HP, Volt, PH | 1979 to 1982 Stir-Ator | | | | | | | | | | |
|---------------------|------------------------|----|----|-----------|------------|----|------------|----|----|------|-----|
| | Plug | | | Connector | Receptacle | | Coil, Cord | | | Wire | |
| | #1 | #2 | #3 | #4 | #5 | #6 | #7 | #8 | #9 | #10 | #11 |
| SA, 1-1/2, 230, 1 | A | - | - | - | L | - | T | - | S | - | - |
| SA, 1-1/2, 230, 3 | C | - | - | - | N | - | V | - | S | - | - |
| SA, 1-1/2, 440, 3 | C | - | - | - | N | - | V | - | S | - | - |
| SA, 2, 230, 1 | A | - | - | - | N | - | T | - | S | - | - |
| SA, 2, 230, 3 | C | - | - | - | N | - | V | - | S | - | - |
| SA, 2, 440, 3 | C | - | - | - | N | - | V | - | S | - | - |
| DA, 1-1/2, 230, 1 | A | A | A | G | L | - | U | - | S | W | W |
| DA, 1-1/2, 230, 3 | C | C | C | H | N | - | V | - | S | X | X |
| DA, 1-1/2, 440, 3 | C | C | C | H | N | - | V | - | S | X | X |
| DA, 2, 230, 1 | B | A | A | G | M | - | U | - | S | W | W |
| DA, 2, 230, 3 | C | C | C | H | N | - | V | - | S | X | X |
| DA, 2, 440, 3 | C | C | C | H | N | - | V | - | S | X | X |
| TA, 1-1/2, 230, 1 | A | A | A | G | L | L | U | T | S | W | W |
| TA, 1-1/2, 230, 3 | C | C | C | H | N | N | V | V | S | X | X |
| TA, 1-1/2, 440, 3 | C | C | C | H | N | N | V | V | S | X | X |
| TA, 2, 230, 1 | B | A | A | H | M | L | U | T | S | W | W |
| TA, 2, 230, 3 | C | C | C | H | N | N | V | V | S | X | X |
| TA, 2, 440, 3 | C | C | C | H | N | N | V | V | S | X | X |

| Bin Diameter | Coil Cord Length | Motor to Motor Wire Length |
|--------------|------------------|----------------------------|
| 14' - 36' | 24" | 14" |
| 36'-1" - 48' | 32" | 14" |

Trolley Plugs, Connectors, Receptacles, Coil Cards and Wires Parts List

| Ref # | Part # | | Description |
|-------|----------------|------------|---|
| | Replaced by | Original # | |
| A | - | N/A | Plug (#L6-20P) (Used on 1979 to 1982 Stir-Ators) |
| B | - | N/A | Plug (#L6-30P) (Used on 1979 to 1982 Stir-Ators) |
| C | - | N/A | Plug (#L16-20P) (Used on 1979 to 1982 Stir-Ators) |
| D | 1EL0659 | N/A | Plug (20 Amp, 3 Wire)* (Used on 1965 to 1978 Stir-Ators) |
| E | - | N/A | Plug (30 Amp, 3 Wire)* (Used on 1965 to 1978 Stir-Ators) |
| F | 1EL0661 | N/A | Plug (20 Amp, 4 Wire)* (Used on 1965 to 1978 Stir-Ators) |
| G | - | N/A | Connector Body (#L6-20C) (Used on 1979 to 1982 Stir-Ators) |
| H | - | N/A | Connector Body (#L16-20C) (Used on 1979 to 1982 Stir-Ators) |
| J | - | N/A | Connector Body (20 Amp, 3 Wire)* (Used on 1965 to 1978 Stir-Ators) |
| K | - | N/A | Connector Body (20 Amp, 4 Wire)* (Used on 1965 to 1978 Stir-Ators) |
| L | - | N/A | Receptacle (#L6-20R) (Used on 1979 to 1982 Stir-Ators) |
| M | - | N/A | Receptacle (#L6-30R) (Used on 1979 to 1982 Stir-Ators) |
| N | - | N/A | Receptacle (#L16-20R) (Used on 1965 to 1982 Stir-Ators) |
| P | 1EL0647 | N/A | Receptacle (20 Amp, 3 Wire)* (Used on 1965 to 1978 Stir-Ators) |
| Q | - | N/A | Receptacle (30 Amp, 3 Wire)* (Used on 1965 to 1978 Stir-Ators) |
| R | 1EL0649 | N/A | Receptacle (20 Amp, 4 Wire)* (Used on 1965 to 1978 Stir-Ators) |
| S | 103E0045-24*** | 261-DT | Coil Cord - Small (18/3, SO) (Used on 1965 to 1982 Stir-Ators) |
| | 1EL3009*** | | |
| T | 1EL3055*** | N/A | Coil Cord - Large (14/3, SO) (Used on 1965 to 1982 Stir-Ators) |
| U | - | N/A | Coil Cord - Large (12/3, SO) (Used on 1965 to 1982 Stir-Ators) |
| | 1EL3056*** | N/A | Coil Cord - Large (12/3, SO) |
| | 103E0047 | | |
| V | - | 103E0047 | Coil Cord - Large (14/3, SO) (Used on 1965 to 1982 Stir-Ators) |
| | 1EL3056*** | 210-S | Coil Cord - Large (14/3, SO) |
| | 103E0047 | | |
| W | 1EL3050**** | 103E0048 | Motor to Motor Wire (14/3, SO) (Used on 1965 to 1982 Stir-Ators) |
| X | 1EL3052**** | 1EL3048 | Motor to Motor Wire (14/4, SO) (Used on 1965 to 1982 Stir-Ators) |

* **NOTE:** Not NEMA approved.

** **NOTE:** Only the green and black strands are used. 18/2 not available.

*** **NOTE:** If ordering stock length coil cords (48") use this part # quantity desired.

**** **NOTE:** If ordering bulk wire, use this part # and amount desired in feet.

Stir-Ator Coil Cord Parts Replacement

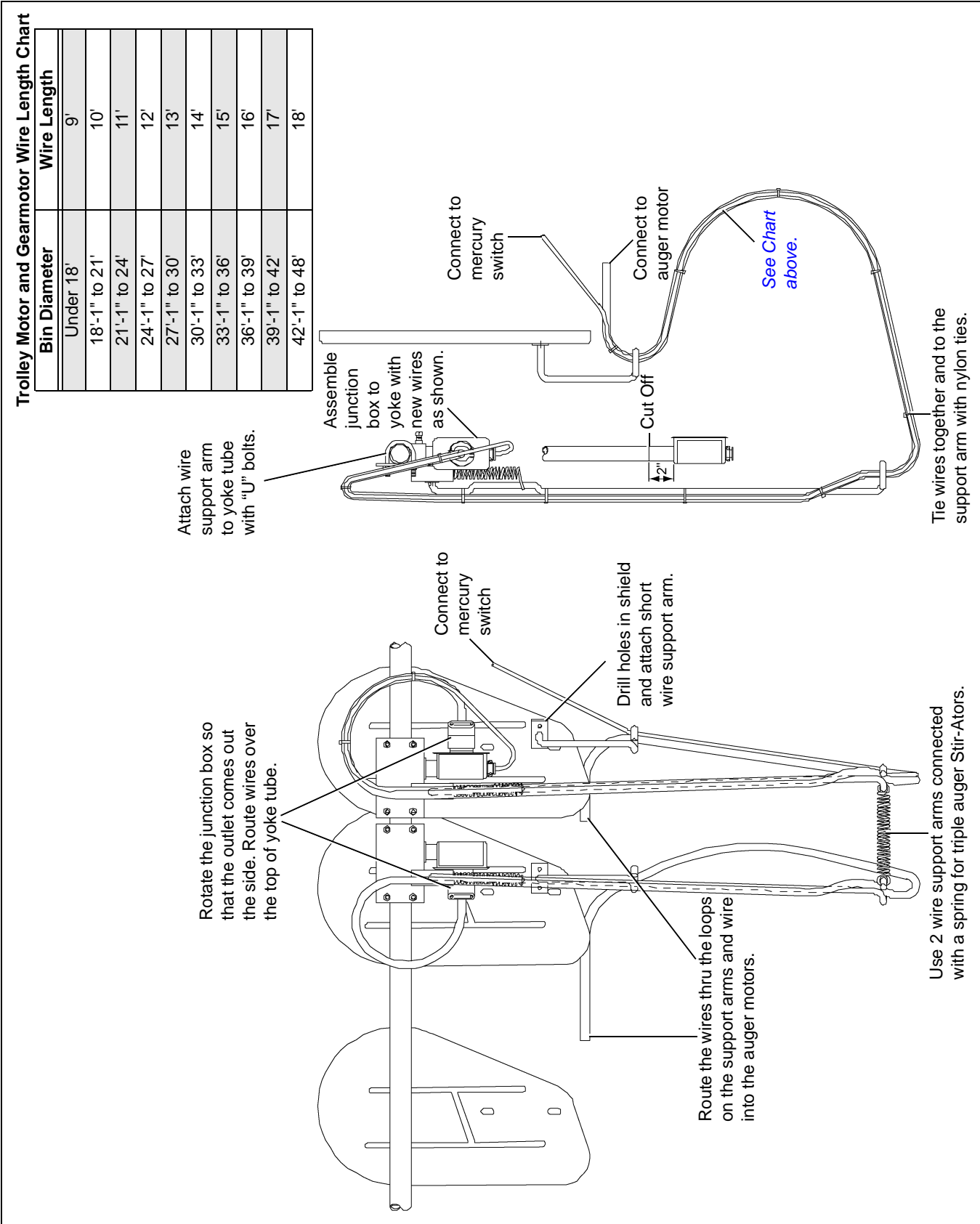


Figure 6E

NOTE: Gearmotor coil cord 103E0045-24" and 1030045-32" will continue to be available. (See your parts price catalog.)

Trolley Motor Coil Cord

NOTE: The following trolley motor coil cords are replaced by the support kits listed in the chart [below](#).

- 103E0047 - 12/3-24"
- 103E0047 - 12/3-32"
- 103E0047 - 14/3-24"
- 103E0047 - 14/3-32"
- 103E0047 - 14/4-24"
- 103E0047 - 14/4-32"

Trolley Wire and Support Kit

| Replaced by Part # | SA and DA | TA | 1 Phase (Includes) | 3 Phase (Includes) |
|--------------------|-----------|----|--|--|
| 1059328 | 1 | - | 18' 10/3 SO Wire (1EL3047) | - |
| | 1 | - | 18' 18/3 SJ Wire (1EL3017) | - |
| | 1 | - | 107B024 8" Long Wire Support | - |
| | 1 | - | 105A0106 Wire Support Assembly | - |
| | 1 | - | 10590330 Hardware Bag and Instructions | - |
| 1059329 | - | 2 | 18' 10/3 SO Wire (1EL3047) | - |
| | - | 1 | 18' 18/3 SJ Wire (1EL3017) | - |
| | - | 2 | 107B024 8" Long Wire Support | - |
| | - | 2 | 105A0106 Wire Support Assembly | - |
| | - | 1 | 10590331 Hardware Bag and Instructions | - |
| 1059332 | 1 | - | - | 18' 10/4 SO Wire (1EL3048) |
| | 1 | - | - | 18' 18/3 SJ Wire (1EL3017) |
| | 1 | - | - | 107B024 8" Long Wire Support |
| | 1 | - | - | 105A0106 Wire Support Assembly |
| | 1 | - | - | 10590330 Hardware Bag and Instructions |
| 1059333 | - | 2 | - | 18' Long 10/4 SO Wire |
| | - | 1 | - | 18' Long 18/3 SJ Wire |
| | - | 2 | - | 107B024 |
| | - | 2 | - | 105A0106 |
| | - | 1 | - | 10590331 |

6. Trolley

Trolley Motor Wires

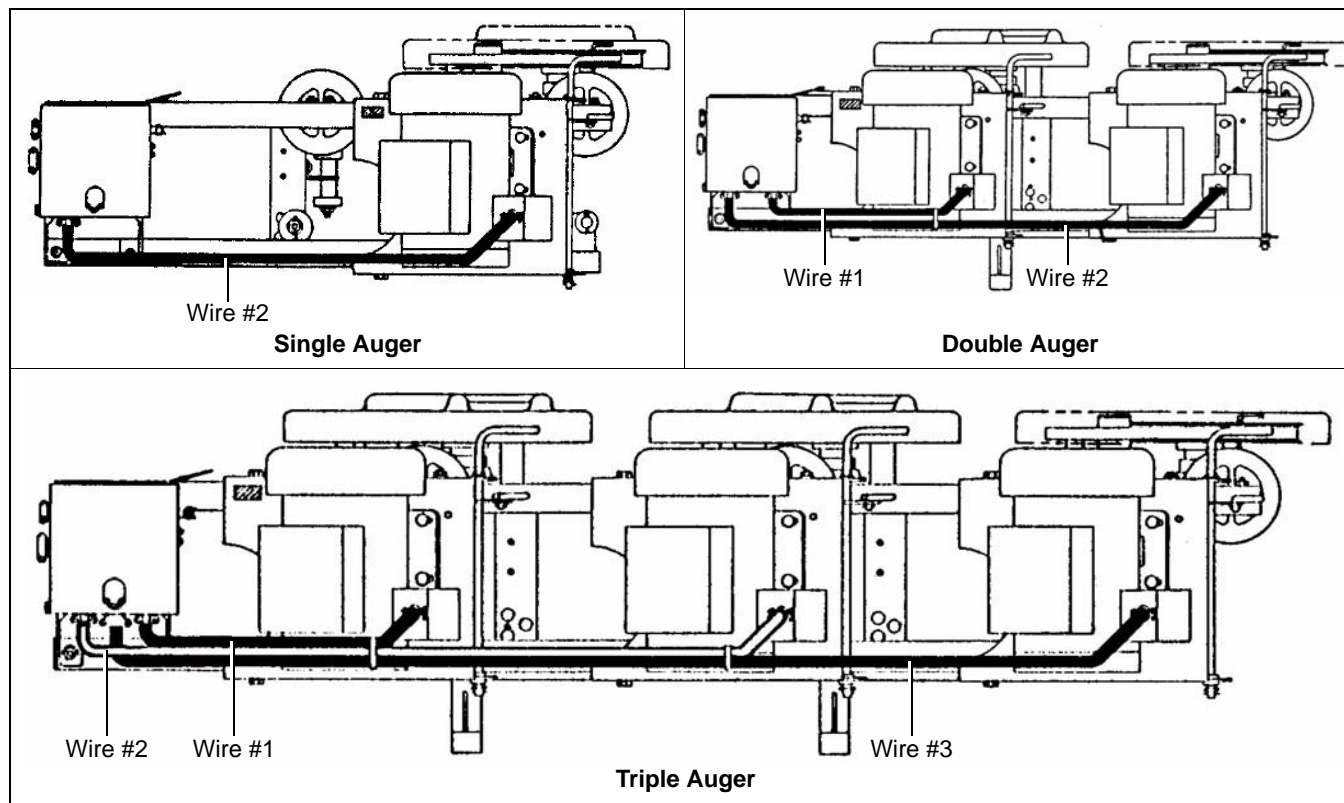


Figure 6F

Trolley Motor Wires Parts List

| Ref # | Part # | | Description |
|-------|-------------|------------|--|
| | Replaced by | Original # | |
| A | - | 1EL3052* | Trolley Motor Wire (14/3, SO) (30" Long) |
| B | - | 1EL3052* | Trolley Motor Wire (14/4, SO) (30" Long) |
| C | - | 1EL3052* | Trolley Motor Wire (14/3, SO) (52" Long) |
| D | - | 1EL3052* | Trolley Motor Wire (14/4, SO) (52" Long) |
| E | - | 1EL3052* | Trolley Motor Wire (14/3, SO) (70" Long) |
| F | - | 1EL3052* | Trolley Motor Wire (14/4, SO) (70" Long) |

* **NOTE:** Used on 1983 to Present DIII Stir-Ators.

NOTE: If ordering bulk wire, use this part # and amount desired in feet.

| Auger, HP, Volt, PH | Wire #1 | Wire #2 | Wire #3 | Auger, HP, Volt, PH | Wire #1 | Wire #2 | Wire #3 | Auger, HP, Volt, PH | Wire #1 | Wire #2 | Wire #3 |
|---------------------|---------|---------|---------|---------------------|---------|---------|---------|---------------------|---------|---------|---------|
| SA, 1-1/2, 230, 1 | - | C | - | DA, 1-1/2, 230, 1 | A | C | - | TA, 1-1/2, 230, 1 | A | C | E |
| SA, 1-1/2, 230, 3 | - | D | - | DA, 1-1/2, 230, 3 | B | D | - | TA, 1-1/2, 230, 3 | B | D | F |
| SA, 1-1/2, 440, 3 | - | D | - | DA, 1-1/2, 440, 3 | B | D | - | TA, 1-1/2, 440, 3 | B | D | F |
| SA, 2, 230, 1 | - | C | - | DA, 2, 230, 1 | A | C | - | TA, 2, 230, 1 | A | C | E |
| SA, 2, 230, 3 | - | D | - | DA, 2, 230, 3 | B | D | - | TA, 2, 230, 3 | B | D | F |
| SA, 2, 440, 3 | - | D | - | DA, 2, 440, 3 | B | D | - | TA, 2, 440, 3 | B | D | F |

Stir-Ator Drive Wheels

DIII Stir-Ator (1983 to Present)

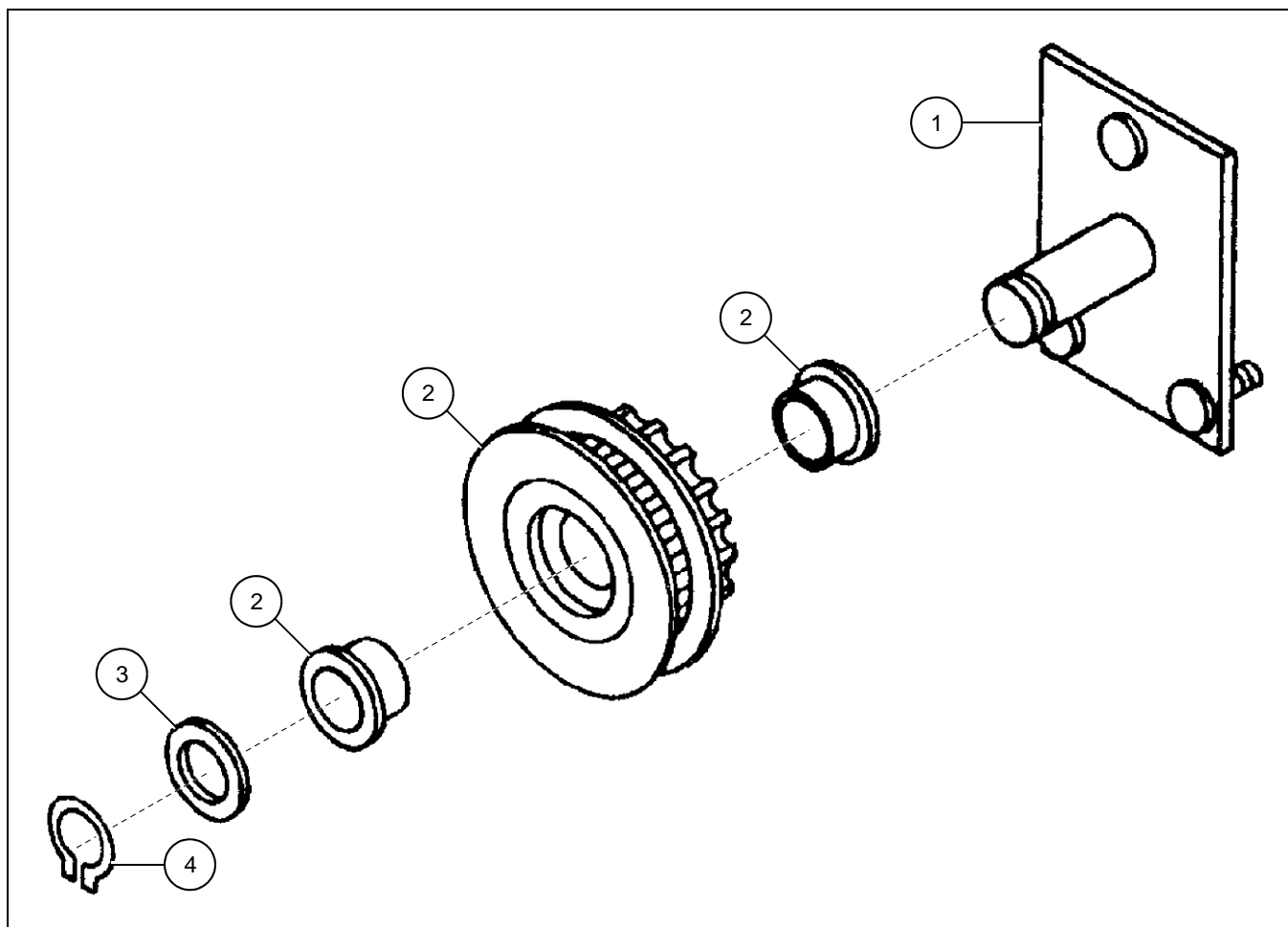


Figure 7A

DIII Stir-Ator (1983 to Present) Parts List

| Ref # | Part # | Description |
|-------|-----------|---|
| 1 | 106G017-Y | Wheel Mounting Bracket Weldment |
| 2 | 104C2037 | Drive Wheel Assembly (with Two Bushings) |
| 3 | GK6328 | Machinery Bushing, 1-1/2" O.D. x 1" I.D. x 14 Gauge |
| 4 | 3FH0574 | 1" Heavy External Retaining Ring |

7. Track Unit

171 and 179 Stir-Ators (1976 to 1982) 171 Stir-Ators (1972 to 1975)

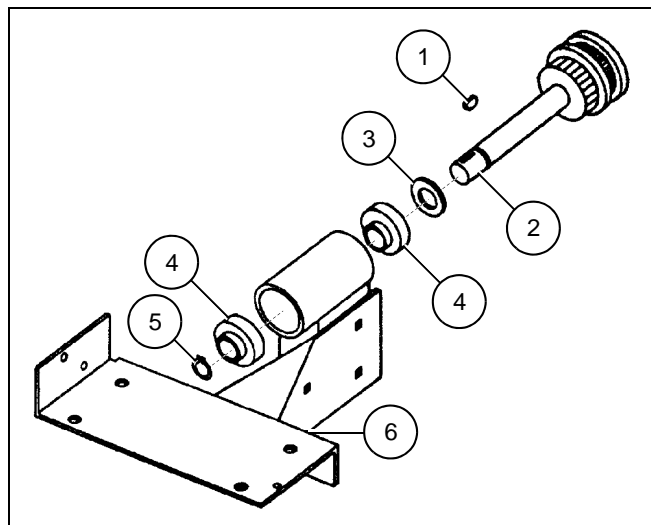


Figure 7B

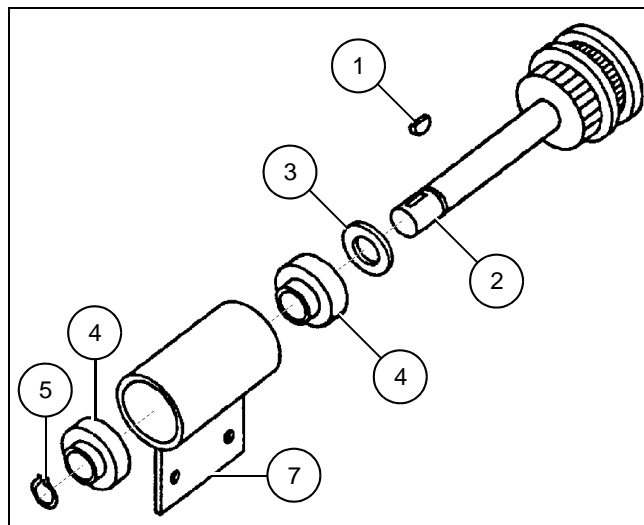


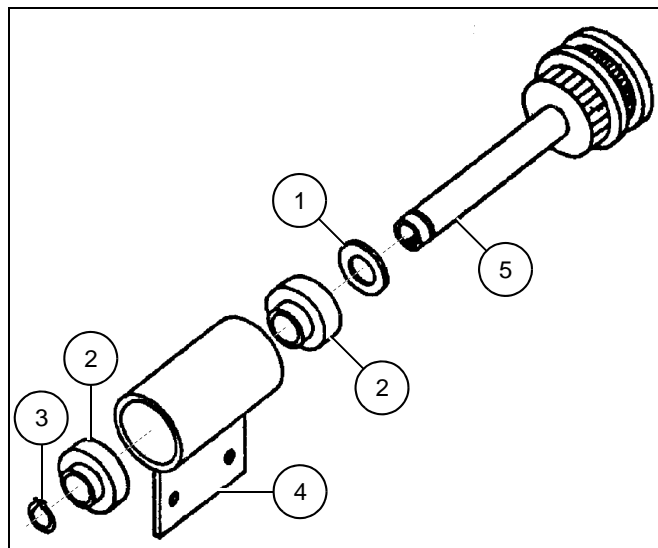
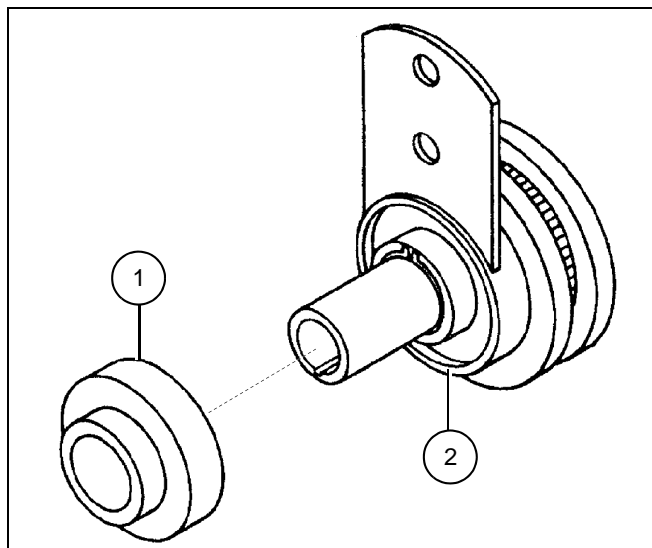
Figure 7C

171 and 179 Stir-Ators (1976 to 1982) and 171 Stir-Ators (1972 to 1975) Parts List

| Ref # | Part # | Description |
|-------|-----------|--|
| 1 | S-8105 | Woodruff Key, 3/16" and 5/6" |
| 2 | 103C0176A | Drive Wheel Weldment 1972 to 1982 (Old # D-3026) |
| | | Drive Wheel Weldment 1972 to 1982 (Old # D-3023) |
| 3 | 3FH0850 | Nylon Flat Washer 1-3/8" O.D. x 25/32" I.D. x 1/8" Thick |
| 4 | 103C0164* | Bearing and Bushing Assembly (Old # B-3028 and PT0213) (2) |
| 5 | 3FH0562 | 3/4" External Retaining Ring (Old # D-3027) |
| 6 | N/A | Track Unit Head Weldment 103C0002, (Front - Shown) 103C0038, (Rear - Not Shown) |
| 7 | N/A | Bearing Housing Weldment (Old # C-1215) |
| N/A | 103C0069 | Front Track Unit Head Assembly (Consists of Shown Parts Mounted to 103C0003) |
| N/A | 103C0070 | Rear Track Unit Head Assembly (Consists of Shown Parts Mounted to 103C0030) |
| N/A | 103C0166 | Drive Wheel Assembly (1975 to 1972) (Consists of Parts Shown Below) (Old # D-3028) |

NOTE: Shaft is 7" long with a 3/4" diameter, with a woodruff keyway and a external snap ring groove.

*** NOTE:** The original bearing had a 3/4" I.D. but is no longer made, so a 1" I.D. bearing with a 3/4" I.D. bushing is supplied.

171 Stir-Ators (1971 Only)**Figure 7D****165 to 170 Stir-Ator (1965 to 1970)****Figure 7E****171 Stir-Ators (1971 Only) Parts List**

| Ref # | Part # | Description |
|-------|---------|--|
| 1 | GK6328 | Machinery Bushing 1-1/2" O.D. x 1" I.D. x 14 Gauge Thick |
| 2 | PT0240 | 1" Bearing, (Old # C-1214) (2) |
| 3 | 3FH0569 | 1" External Retaining Ring (Old # D-3027) |
| 4 | N/A | Bearing Housing Weldment (Old # C-1215) |
| 5 | N/A | Drive Wheel Weldment, 1971 Only (Old # C-1220) |

NOTE: Shaft is 6-3/8" long with a 1" outside diameter, and 5/8" inside diameter, with a keyway on the inside diameter and an external snap ring groove.

165 to 170 Stir-Ator (1965 to 1970) Parts List

| Ref # | Part # | Description |
|-------|----------|--|
| 1 | PT0240 | 1" Bearing Insert Only (Old # C-1214) |
| 2 | 101C0008 | Drive Wheel and Strap Bearing Assembly (Includes 1" Bearing Insert) (1970 to 1965) (Old # 304 SDT and B-871) |

NOTE: Shaft is 4" long with a 1" outside diameter, and 5/8" inside diameter, with a keyway on the inside diameter.

Stir-Ator Idler Wheels

179 Stir-Ators (1981 to 1982)

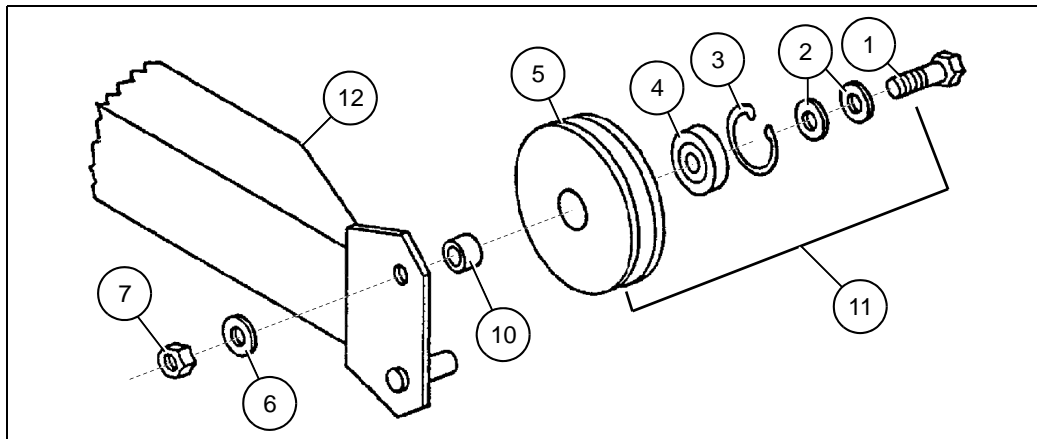


Figure 7F

179 Stir-Ators (1980 Only)

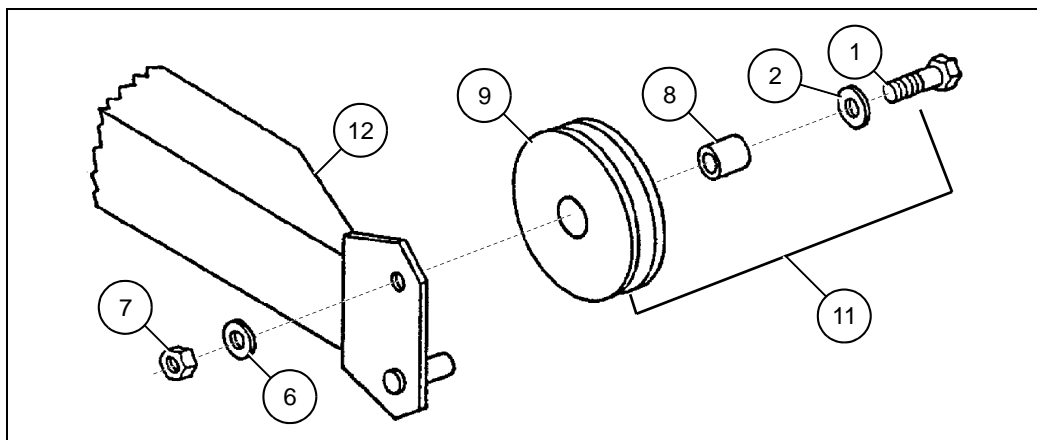


Figure 7G

179 Stir-Ators (1981 to 1982) and 179 Stir-Ators (1980 Only) Parts List

| Ref # | Part # | Description |
|-------|----------|--|
| 1 | 2FH0930 | Hex Bolt, 5/8" x 2-1/2" |
| 2 | 3FH0952 | Flat Washer 5/8" SAE |
| 3 | 3FH0584 | 1-9/16" Internal Retaining Ring |
| 4 | PT0373 | 5/8" I.D. Bearing |
| 5 | 105C0039 | Idler Wheel without Bearing and Internal Retaining Ring (Can Only be Sold as Part of 105N0090) |
| | 105C0043 | Idler Wheel with Bearing and Internal Retaining Ring (Can Only be Sold as Part of 105N0090) |
| 6 | 3FH0795 | Lock Washer 5/8" |
| 7 | 1FH0769 | Hex Nut 5/8" |
| 8 | 105C0040 | Bushing Idler Wheel (1-3/16" Long) (1980 Only) |
| 9 | 105C0041 | Idler Wheel Assembly with Bushing (Replaced by 105N0090) |
| 10 | 105C0042 | Bushing Idler Wheel (5/8" Long) |
| 11 | 105N0090 | Idler Wheel Replacement Kit |
| 12 | | Style of Track Unit Arm (1975 to 1982) |

165 to 171 and 179 Stir-Ators (1965 to 1979)

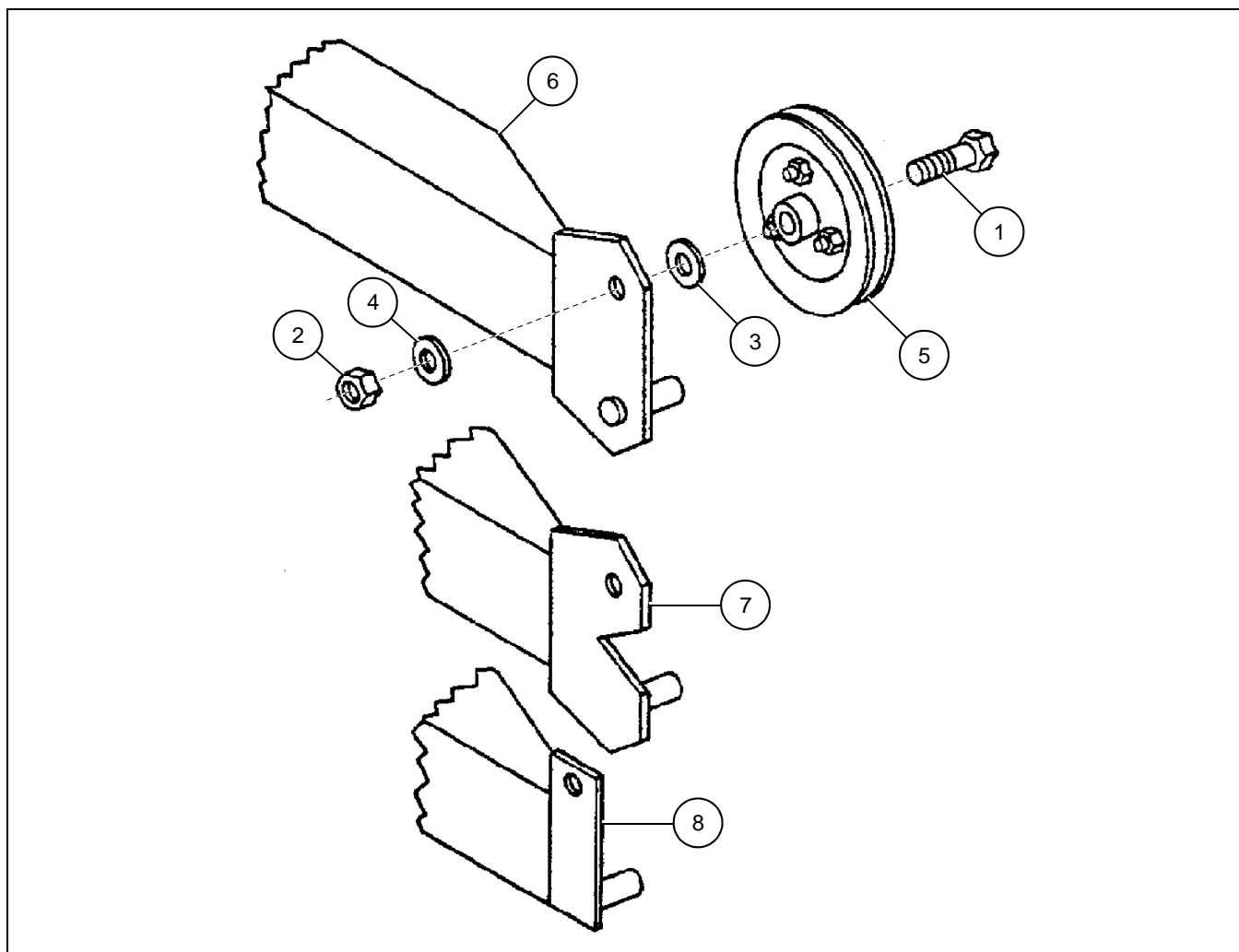


Figure 7H

165 to 171 and 179 Stir-Ators (1965 to 1979) Parts List

| Ref # | Part # | Description |
|-------|----------|--|
| 1 | 2FH0930 | Hex Bolt, 5/8" x 2-1/2" (Old # 309-SDT) |
| 2 | 1FH0769 | Hex Nut, 5/8" |
| 3 | 3FH0952 | Flat Washer, 5/8" SAE |
| 4 | 3FH0795 | Lock Washer, 5/8" |
| 5 | 105N0090 | Idler Wheel Replacement Kit (Old # 308-SDT and PT0633) |
| 6 | | Style of Track Unit Arm (1975 to 1982) |
| 7 | | Style of Track Unit Arm (1970 to 1974) |
| 8 | | Style of Track Unit Arm (1965 to 1969) |

NOTE: From 1965 to 1979, the idler wheel was black with a 5/8" bearing and bolted together.

Idler Wheel Replacement Kit (105N0090) (Replaces 308-SDT, PT0633 and 105C0041)

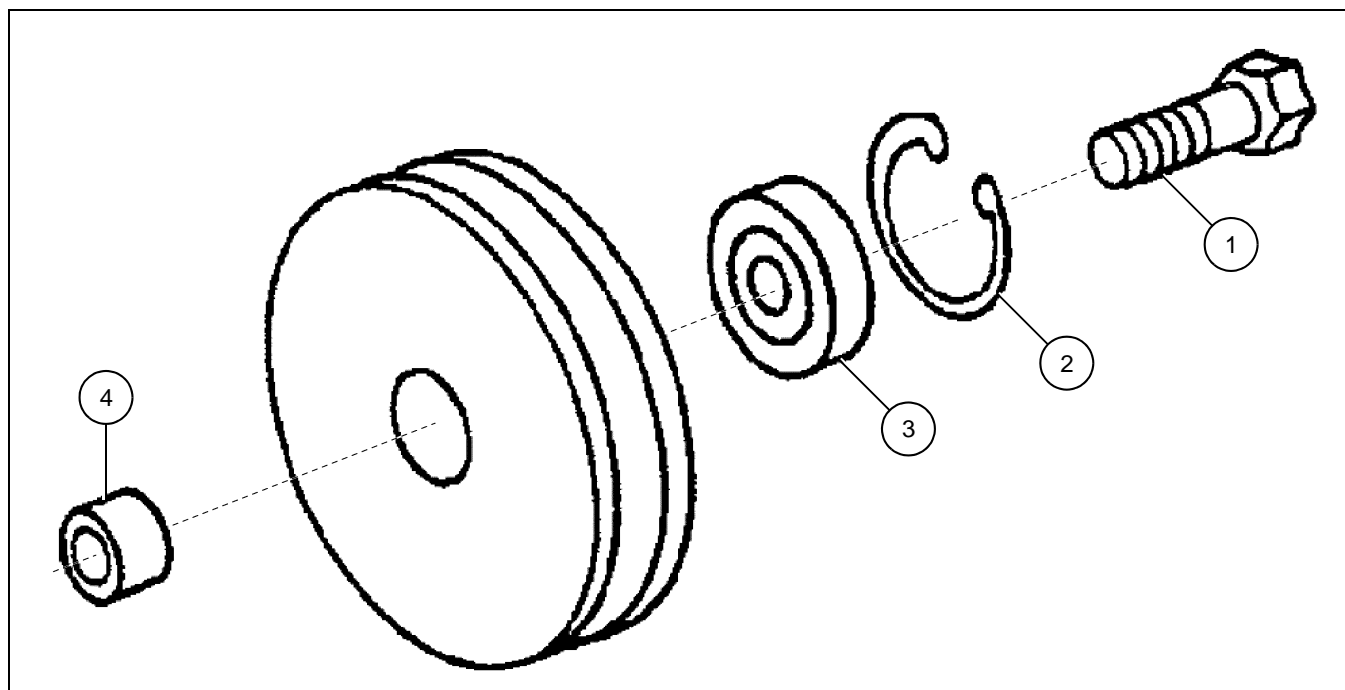


Figure 7I

| Ref # | Part # | Description |
|-------|----------|---------------------------------|
| 1 | 2FH0930 | Hex Bolt, 5/8" x 2-1/2" |
| 2 | 3FH0584 | 1-9/16" Internal Retaining Ring |
| 3 | PT0373 | 5/8" I.D. Bearing |
| 4 | 105C0042 | Bushing Idler Wheel (5/8" Long) |

NOTE: The idler wheel was Black - 1965 to 1979, Red - 1980 to 1990, White - 1991 to present.

Idler Wheel Replacement Kit (105N0090)

| Ref # | Part # | Description |
|-------|----------|--|
| 1 | S-8068 | Hex Bolt, 5/8" x 2-1/2" |
| 2 | 105C0043 | Idler Wheel Assembly with Bearing and Internal Retaining Ring (Can Only be Sold as Part of 105N0090) |
| 4 | 105C0042 | Bushing Idler Wheel (5/8" Long) |

Gearmotor (1972 to Present)

NOTE: See following parts list for order numbers and descriptions.

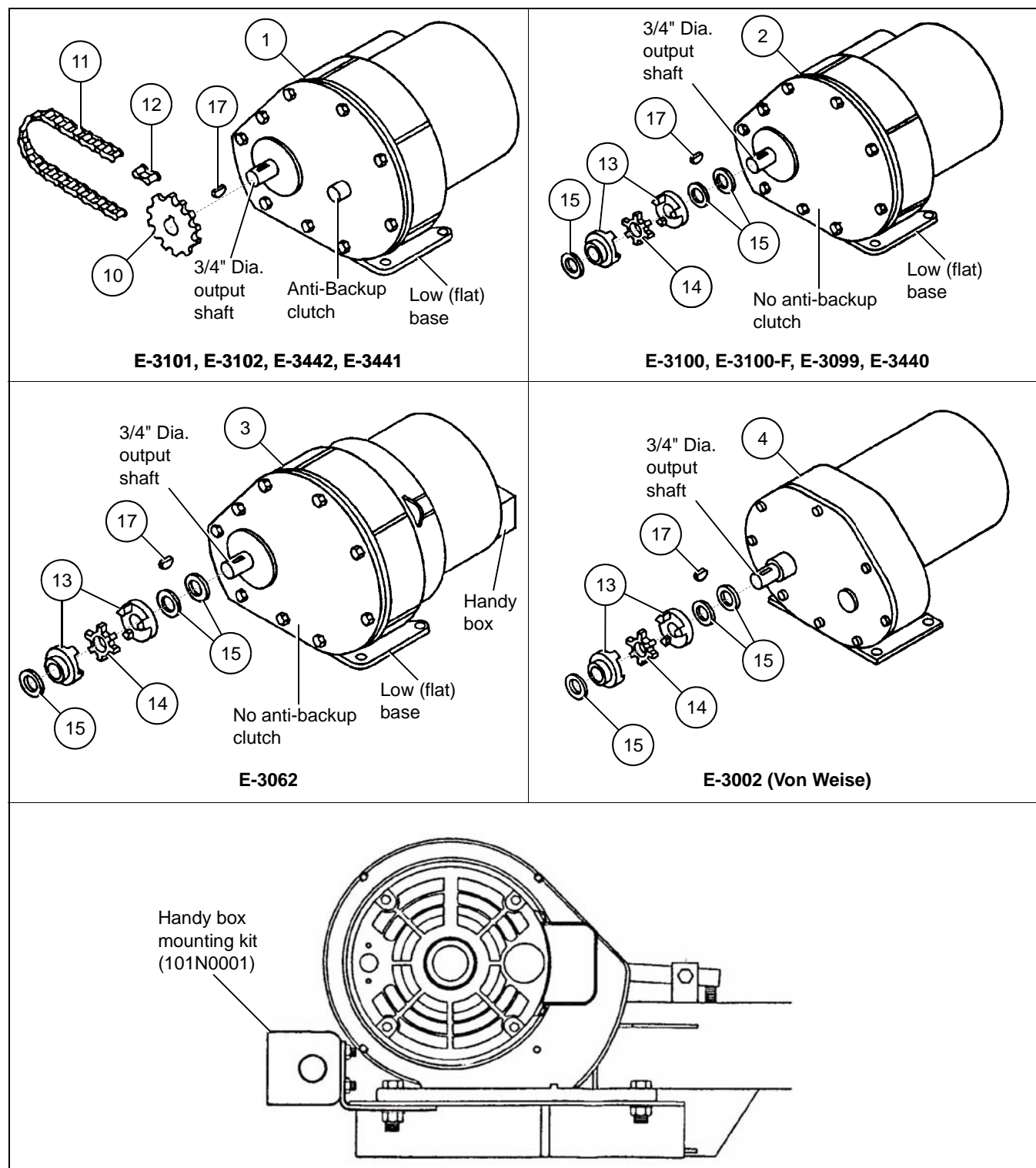


Figure 8A

NOTE: From 1970 to 1982 an anti-backup arm was required on the drive wheel. But when an old gearmotor with anti-backup clutch the old anti-backup arm is not needed. However it can still be used if the clicking noise is wanted.

8. Gearmotor

Gearmotor (1965 to 1971)

NOTE: See following parts list for order numbers and descriptions.

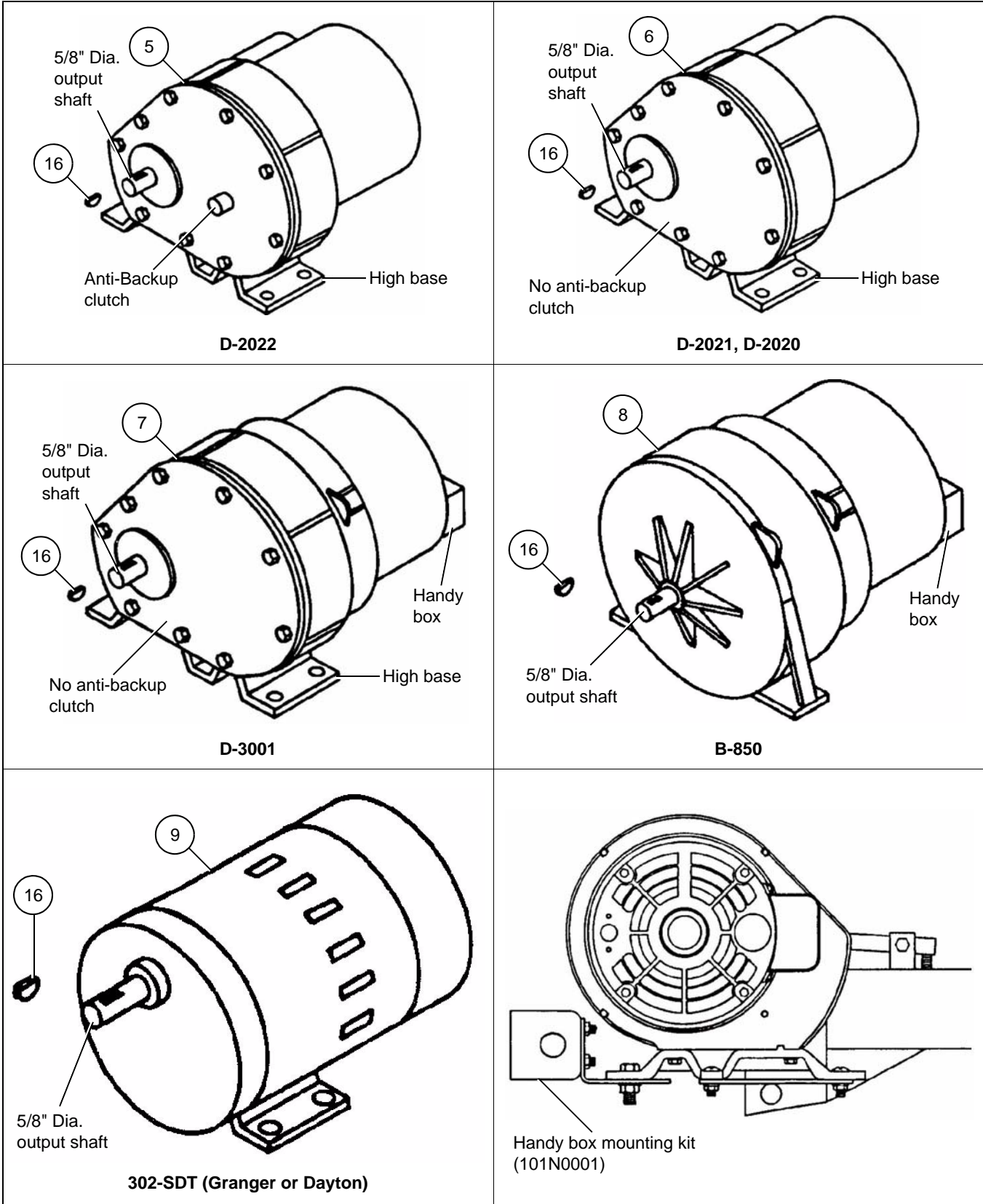


Figure 8B

Gearmotor (1972 to Present) and (1965 to 1971) Parts List

| Ref # | Part # | | Description |
|-------|-------------|------------|--|
| | Replaced by | Original # | |
| 1 | DMC20087 | 502A0040 | E-3101 gearmotor, 230V (Sold 1983 to Present) (Used an replacement gearmotor for all 230V Stir-Ators 1972 to Present) (Features 17 mm pinion shaft) |
| | DMC20087 | 502A0042 | E-3102 gearmotor, 230V (Sold 1988 to Present) (Used only on 230V CSA Stir-Ators 1988 to Present) (Features 17 mm Pinion Shaft and CSA Approved Motor Assembly) |
| | DMC20090 | 502A0045 | E-3442 Gearmotor, 440V (Sold 1990 to Present) (Used as replacement gearmotor for all 440V Stir-Ators 1976 to Present) (Features 17 mm Pinion Shaft) |
| | DMC20090 | 502A0033 | E-3441 Gearmotor, 440V (Sold 1983 to 1989) (was used as replacement gearmotor for all 440V Stir-Ators 1976 to 1989) (Featured 1/2" Pinion Shaft) |
| 2 | DMC20087 | 502A0032 | E-3100 Gearmotor, 230V (Sold 1980 to 1982) (was used as replacement gearmotor for all 230V Stir-Ators 1972 to 1982) (Featured 17 mm Pinion Shaft) |
| | DMC20087 | 502A0034 | E-3100-F Gearmotor, 230V (Sold 1980 Only) (was used as replacement gearmotor for all 230V Stir-Ators 1972 to 1980) (Featured 5/8" Pinion Shaft) |
| | DMC20087 | 502A0024 | E-3099 Gearmotor, 230V (Sold 1974 to 1979) (was used as replacement gearmotor for all 230V Stir-Ators 1972 to 1980) (Featured 1/2" Pinion Shaft) |
| | DMC20090 | 502A0030 | E-3440 Gearmotor, 440V (Sold 1976 to 1982) (was used as replacement gearmotor for all 440V Stir-Ators 1976 to 1982) (Featured 1/2" Pinion Shaft) |
| 3 | DMC20087 | E-3062 | E-3062 Gearmotor, 230V (Sold 1973 to 1978) (was used as replacement gearmotor for all 230V Stir-Ators 1972 to 1978) (Featured open motor with a fuseholder box built-in the back and 1/2" Pinion Shaft) |
| 4 | DMC20087* | E-3002 | E-3002 Gearmotor, 230V (Sold 1972 Only) (was used as replacement gearmotor for all 230V Stir-Ators 1972 to 1973) (Featured "Von Weise" brand gearmotor) |
| 5 | DMC20099 | 501A0033 | D-2022 Gearmotor, 230V (Sold 1983 to Present) (was used as replacement gearmotor for all 230V Stir-Ators 1965 to 1971) (Features 17 mm Pinion Shaft) |
| 6 | DMC20099 | 501A0032 | D-2021 Gearmotor, 230V (Sold 1980 to 1982) (was used as replacement gearmotor for all 230V Stir-Ators 1965 to 1971) (Featured 17 mm Pinion Shaft) |
| | DMC20099 | D-2020 | D-2020 Gearmotor, 230V (Sold 1978 to 1979) (was used as replacement gearmotor for all 230V Stir-Ators 1965 to 1971) (Featured 1/2" Pinion Shaft) |
| 7 | DMC20099 | D-3001 | D-3001 Gearmotor, 230V (Sold 1971 to 1978) (was used as replacement gearmotor for all 230V Stir-Ators 1965 to 1971) (Featured open motor with a fuseholder box built-in the back and 1/2" Pinion Shaft) |
| 8 | DMC20099 | B-850 | B-850 Gearmotor, 230V (Sold 1970 to 1971) (was used as replacement gearmotor for all 230V Stir-Ators 1965 to 1971) (Featured open motor with a fuseholder box built-in the back) |
| 9 | DMC20099 | 302-SDT | 302-SDT Gearmotor, 115/230V (Sold 1965 to 1970) (Used as replacement gearmotor for all 230V Stir-Ators 1965 to 1970) (Featured "Granger" or "Dayton" Motors) |

8. Gearmotor

Gearmotor (1972 to Present) and (1965 to 1971) Parts List (Continued)

| Ref # | Part # | | Description |
|-------|-------------|------------|--|
| | Replaced by | Original # | |
| 10 | - | PT1098 | 10 Tooth Sprocket, # 40, 3/4" Bore, (Used on 1983 to Present DIII Stir-Ator without Offset, Under 36') |
| | - | PT1099 | 12 Tooth Sprocket, # 40, 3/4" Bore, (Used on 1983 to Present DIII Stir-Ator without Offset, 36' and Over, with Offset, Under 36') |
| | - | PT1101 | 14 Tooth Sprocket, # 40, 3/4" Bore, (Used on 1983 to Present DIII Stir-Ator with Offset, 36' and Over) |
| 11 | - | 106C037 | Roller Chain, # 40, 1/2" Pitch, Single Strand, (45 Pitches or 22-1/2" Required) (Used on 1983 to Present DIII Stir-Ator) |
| 12 | - | D02-0031 | Connecting Link, # 40, 1/2" Pitch, (Used on 1983 to Present DIII Stir-Ator) |
| 13 | PT0925 | D-3019 | Flexible Coupler Half, (2 Required) 3/4" Bore, Steel Jaw Type, (Used on 1972 to 1982 Stir-Ators) |
| 14 | PT0926 | D-3020 | Spider Insert, for Flexible Coupler, (Used on 1972 to 1982 Stir-Ators) |
| 15 | - | 3FH0850 | Nylon Flat Washer, 1-3/8" O.D. x 25/32" I.D. x 1/8" Thick (Used on 1972 to 1982 Stir-Ators) |
| 16 | 3FH0985 | B-748 | Woodruff Key, 1/8" x 5/8" (Used on 1965 to 1971 Stir-Ators) |
| 17 | - | S-8105 | Woodruff Key, 3/16" x 5/8" (Used on 1972 to Present Stir-Ators) |

*** NOTE:** *The E-3002 gearmotor was also used in limited quantities in 1970 and 1971 with the aid of a reducing coupler and mounting plate adapter as a replacement gearmotor for 230V Stir-Ators 1965 to 1971. If this was the case the gearmotor should be replaced with 501A0033 which has a 5/8" output shaft and high base.*

Gearmotor (1974 to Present)

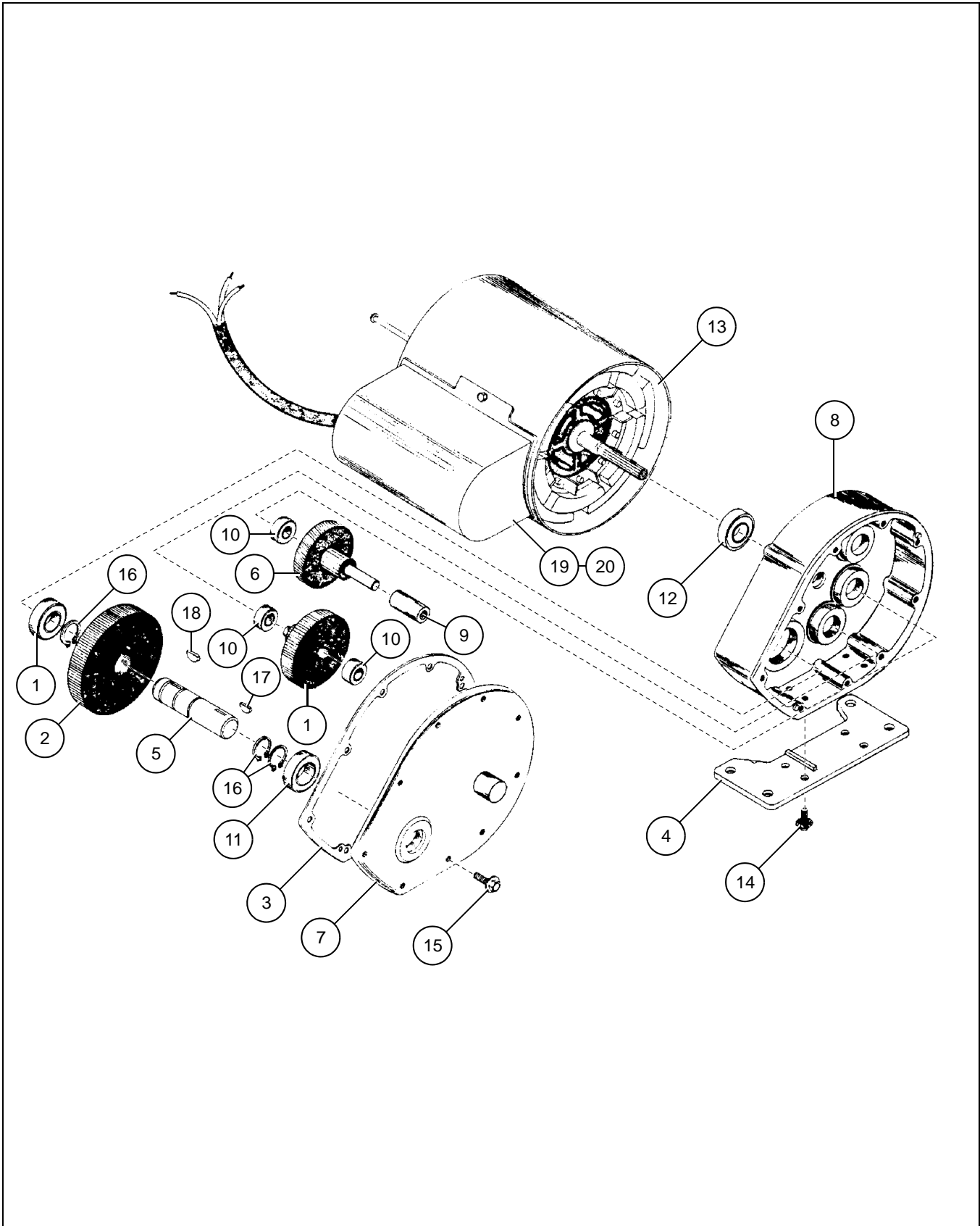


Figure 8C

8. Gearmotor

Gearmotor (1974 to Present) Parts List

| Ref # | Part # | Description | E-3101 (502A0040) 1983 to Present | E-3102 (502A0042) (CSA Only) 1988 to Present | E-3100 (502A0032) 1980 to 1982 (Replaced by E-3101) |
|-------|----------|--|--------------------------------------|--|---|
| 1 | 501A0016 | Gear Assembly, 1B and 60 Tooth (Not Available) | 1 | 1 | 1 |
| 2 | 501A0017 | Gear, 80 Tooth (Not Available) | 1 | 1 | 1 |
| 3 | 501A0018 | Gasket, Cover (Not Available) | 1 | 1 | 1 |
| 4 | 501A0009 | Base (High) (Not Available) | - | - | - |
| | 502A0001 | Base (Low) (Not Available) | 1 | 1 | 1 |
| 5 | 501A0010 | Output Shaft, 3/4" Stepped to 5/8" Dia. (Not Available) | - | - | - |
| | 502A0002 | Output Shaft, 3/4" Dia. (Not Available) | 1 | 1 | 1 |
| 6 | 502A0006 | Fiber Gear Assembly, 15 and 63 Tooth, (Long Pin) (Not Available) | 1 | 1 | - |
| | 502A0009 | Fiber Gear Assembly, 15 and 63 Tooth, (Short Pin) (Not Available) | - | - | 1 |
| 7 | 501A0019 | Cover, Plain (Not Available) | - | - | 1 |
| | 502A0008 | Cover with Roller Clutch and Bearing (Not Available) | 1 | 1 | - |
| 8 | 502A0021 | Transmission Gear Housing, (Not Available) | - | - | - |
| | 502A0035 | Transmission Gear Housing, (for Metric Bearing) (Not Available) | 1 | 1 | 1 |
| 9 | PT0241 | Roller Clutch and Bearing, 3/8" Bore | 1 | 1 | - |
| 10 | PT0361 | Radial Bearing, 3/8" Bore (7R6) | 3 | 3 | 4 |
| 11 | PT0376 | Radial Bearing, 3/4" Bore (16302RS) | 2 | 2 | 2 |
| 12 | PT0370 | Radial Bearing, 1/2" Bore (16162RS) | - | - | - |
| | PT0373 | Radial Bearing, 5/8" Bore (6203-2RS-10) | - | - | - |
| | PT0377 | Radial Bearing, 17 mm Bore (6203-2RS) | 1 | 1 | 1 |
| 13 | 3EL4006 | Motor Assembly, 1/8 HP, 230V (17 mm Pinion Shaft, CCW Rotation) | 1 | - | 1 |
| | 3EL4008 | Motor Assembly, 1/8 HP, 230V (17 mm Pinion Shaft, CCW Rotation) (CSA Only) (Not Available) | - | 1 | - |
| | 3EL4009 | Motor Assembly, 1/8 HP, 440V (17 mm Pinion Shaft, CCW Rotation) (Not Available) | - | - | - |
| | 502A0044 | Motor Assembly, 1/8 HP, 230V (1/2" Pinion Shaft, CCW Rotation) (was 3EL4002) (Not Available) | - | - | - |
| | 3EL4003 | Motor Assembly, 1/8 HP, 440V (1/2" Pinion Shaft, CCW Rotation) (Not Available) | - | - | - |
| | 3EL4004 | Motor Assembly, 1/8 HP, 230V (5/8" Pinion Shaft, CCW Rotation) (Not Available) | - | - | - |
| 14 | S-8057 | Hex Flange Whiz Lock Screw, 1/4" x 1/2" | 4 | 4 | 4 |
| 15 | 2FH0982 | Hex Flange Whiz Lock Screw, 1/4" x 7/8" | 9 | 9 | 9 |
| 16 | 3FH0562 | Retaining Ring, 3/4" | 3 | 3 | 3 |
| 17 | 3FH0985 | Woodruff Key, 1/8" x 5/8" | - | - | - |
| | S-8105 | Woodruff Key, 3/16" x 5/8" | 1 | 1 | 1 |
| 18 | S-8105 | Woodruff Key, 3/16" x 5/8" | 1 | 1 | 1 |
| 19 | 1EL1096 | Capacitor, for 230V FASCO Motors Only | 1 | 1 | 1 |
| | 1EL1099 | Capacitor, for 440V FASCO Motors Only | - | - | - |
| 20 | 1EL1097 | Cover for 1EL1096 or 1EL1099 | 1 | 1 | 1 |

Gearmotor (1974 to Present) Parts List (Continued)

| Ref # | Part # | Description | E-3100-F (502A0034) 1980 Only (Replaced by E-3101) | E-3099 (502A0024) 1974 to 1979 (Replaced by E-3101) | E-3442 (502A0045) 1990 to Present | E-3441 (502A0033) 1983 to 1989 (Replaced by E-3442) |
|-------|----------|--|--|---|---|---|
| 1 | 501A0016 | Gear Assembly, 1B and 60 Tooth (Not Available) | 1 | 1 | 1 | 1 |
| 2 | 501A0017 | Gear, 80 Tooth (Not Available) | 1 | 1 | 1 | 1 |
| 3 | 501A0018 | Gasket, Cover (Not Available) | 1 | 1 | 1 | 1 |
| 4 | 501A0009 | Base (High) (Not Available) | - | - | - | - |
| | 502A0001 | Base (Low) (Not Available) | 1 | 1 | 1 | 1 |
| 5 | 501A0010 | Output Shaft, 3/4" Stepped to 5/8" Dia. (Not Available) | - | - | - | - |
| | 502A0002 | Output Shaft, 3/4" Dia. (Not Available) | 1 | 1 | 1 | 1 |
| 6 | 502A0006 | Fiber Gear Assembly, 15 and 63 Tooth, (Long Pin) (Not Available) | - | - | 1 | 1 |
| | 502A0009 | Fiber Gear Assembly, 15 and 63 Tooth, (Short Pin) (Not Available) | 1 | 1 | - | - |
| 7 | 501A0019 | Cover, Plain (Not Available) | 1 | 1 | - | - |
| | 502A0008 | Cover with Roller Clutch and Bearing (Not Available) | - | - | 1 | 1 |
| 8 | 502A0021 | Transmission Gear Housing, (Not Available) | - | 1 | - | 1 |
| | 502A0035 | Transmission Gear Housing, (for Metric Bearing) (Not Available) | 1 | - | 1 | - |
| 9 | PT0241 | Roller Clutch and Bearing, 3/8" Bore | - | - | 1 | 1 |
| 10 | PT0361 | Radial Bearing, 3/8" Bore (7R6) | 4 | 4 | 3 | 3 |
| 11 | PT0376 | Radial Bearing, 3/4" Bore (16302RS) | 2 | 2 | 2 | 2 |
| 12 | PT0370 | Radial Bearing, 1/2" Bore (16162RS) | - | 1 | - | 1 |
| | PT0373 | Radial Bearing, 5/8" Bore (6203-2RS-10) | 1 | - | - | - |
| | PT0377 | Radial Bearing, 17 mm Bore (6203-2RS) | - | - | 1 | - |
| 13 | 3EL4006 | Motor Assembly, 1/8 HP, 230V (17 mm Pinion Shaft, CCW Rotation) | - | - | - | - |
| | 3EL4008 | Motor Assembly, 1/8 HP, 230V (17 mm Pinion Shaft, CCW Rotation) (CSA Only) (Not Available) | - | - | - | - |
| | 3EL4009 | Motor Assembly, 1/8 HP, 440V (17 mm Pinion Shaft, CCW Rotation) (Not Available) | - | - | 1 | - |
| | 502A0044 | Motor Assembly, 1/8 HP, 230V (1/2" Pinion Shaft, CCW Rotation) (was 3EL4002) (Not Available) | - | 1 | - | - |
| | 3EL4003 | Motor Assembly, 1/8 HP, 440V (1/2" Pinion Shaft, CCW Rotation) (Not Available) | - | - | - | 1 |
| | 3EL4004 | Motor Assembly, 1/8 HP, 230V (5/8" Pinion Shaft, CCW Rotation) (Not Available) | 1 | - | - | - |
| 14 | S-8057 | Hex Flange Whiz Lock Screw, 1/4" x 1/2" | 4 | 4 | 4 | 4 |
| 15 | 2FH0982 | Hex Flange Whiz Lock Screw, 1/4" x 7/8" | 9 | 9 | 9 | 9 |
| 16 | 3FH0562 | Retaining Ring, 3/4" | 3 | 3 | 3 | 3 |
| 17 | 3FH0985 | Woodruff Key, 1/8" x 5/8" | - | - | - | - |
| | S-8105 | Woodruff Key, 3/16" x 5/8" | 1 | 1 | 1 | 1 |
| 18 | S-8105 | Woodruff Key, 3/16" x 5/8" | 1 | 1 | 1 | 1 |
| 19 | 1EL1096 | Capacitor, for 230V FASCO Motors Only | 1 | - | - | - |
| | 1EL1099 | Capacitor, for 440V FASCO Motors Only | - | - | 1 | 1 |
| 20 | 1EL1097 | Cover for 1EL1096 or 1EL1099 | 1 | - | 1 | 1 |

8. Gearmotor

Gearmotor (1974 to Present) Parts List (Continued)

| Ref # | Part # | Description | E-3440 (502A0030) 1976 to 1982 (Replaced by E-3442) | D-2022 (501A0033) 1983 to Present | D-2021 (501A0032) 1980 to 1982 (Replaced by D-2022) | D-2020 1978 to 1979 (Replaced by D-2022) |
|-------|----------|--|---|---|---|--|
| 1 | 501A0016 | Gear Assembly, 1B and 60 Tooth (Not Available) | 1 | 1 | 1 | 1 |
| 2 | 501A0017 | Gear, 80 Tooth (Not Available) | 1 | 1 | 1 | 1 |
| 3 | 501A0018 | Gasket, Cover (Not Available) | 1 | 1 | 1 | 1 |
| 4 | 501A0009 | Base (High) (Not Available) | - | 1 | 1 | 1 |
| | 502A0001 | Base (Low) (Not Available) | 1 | - | - | - |
| 5 | 501A0010 | Output Shaft, 3/4" Stepped to 5/8" Dia. (Not Available) | - | 1 | 1 | 1 |
| | 502A0002 | Output Shaft, 3/4" Dia. (Not Available) | 1 | - | - | - |
| 6 | 502A0006 | Fiber Gear Assembly, 15 and 63 Tooth, (Long Pin) (Not Available) | - | 1 | - | - |
| | 502A0009 | Fiber Gear Assembly, 15 and 63 Tooth, (Short Pin) (Not Available) | 1 | - | 1 | 1 |
| 7 | 501A0019 | Cover, Plain (Not Available) | 1 | - | 1 | 1 |
| | 502A0008 | Cover with Roller Clutch and Bearing (Not Available) | - | 1 | - | - |
| 8 | 502A0021 | Transmission Gear Housing, (Not Available) | 1 | - | - | 1 |
| | 502A0035 | Transmission Gear Housing, (for Metric Bearing) (Not Available) | - | 1 | 1 | - |
| 9 | PT0241 | Roller Clutch and Bearing, 3/8" Bore | - | 1 | - | - |
| 10 | PT0361 | Radial Bearing, 3/8" Bore (7R6) | 4 | 3 | 4 | 4 |
| 11 | PT0376 | Radial Bearing, 3/4" Bore (16302RS) | 2 | 2 | 2 | 2 |
| 12 | PT0370 | Radial Bearing, 1/2" Bore (16162RS) | 1 | - | - | 1 |
| | PT0373 | Radial Bearing, 5/8" Bore (6203-2RS-10) | - | - | - | - |
| | PT0377 | Radial Bearing, 17 mm Bore (6203-2RS) | - | 1 | 1 | - |
| 13 | 3EL4006 | Motor Assembly, 1/8 HP, 230V (17 mm Pinion Shaft, CCW Rotation) | - | 1 | 1 | - |
| | 3EL4008 | Motor Assembly, 1/8 HP, 230V (17 mm Pinion Shaft, CCW Rotation) (CSA Only) (Not Available) | - | - | - | - |
| | 3EL4009 | Motor Assembly, 1/8 HP, 440V (17 mm Pinion Shaft, CCW Rotation) (Not Available) | - | - | - | - |
| | 502A0044 | Motor Assembly, 1/8 HP, 230V (1/2" Pinion Shaft, CCW Rotation) (was 3EL4002) (Not Available) | - | - | - | 1 |
| | 3EL4003 | Motor Assembly, 1/8 HP, 440V (1/2" Pinion Shaft, CCW Rotation) (Not Available) | 1 | - | - | - |
| | 3EL4004 | Motor Assembly, 1/8 HP, 230V (5/8" Pinion Shaft, CCW Rotation) (Not Available) | - | - | - | - |
| 14 | S-8057 | Hex Flange Whiz Lock Screw, 1/4" x 1/2" | 4 | 4 | 4 | 4 |
| 15 | 2FH0982 | Hex Flange Whiz Lock Screw, 1/4" x 7/8" | 9 | 9 | 9 | 9 |
| 16 | 3FH0562 | Retaining Ring, 3/4" | 3 | 3 | 3 | 3 |
| 17 | 3FH0985 | Woodruff Key, 1/8" x 5/8" | - | 1 | 1 | 1 |
| | S-8105 | Woodruff Key, 3/16" x 5/8" | 1 | - | - | - |
| 18 | S-8105 | Woodruff Key, 3/16" x 5/8" | 1 | 1 | 1 | 1 |
| 19 | 1EL1096 | Capacitor, for 230V FASCO Motors Only | - | 1 | 1 | - |
| | 1EL1099 | Capacitor, for 440V FASCO Motors Only | - | - | - | - |
| 20 | 1EL1097 | Cover for 1EL1096 or 1EL1099 | - | 1 | 1 | - |

Gearmotors (1971 to 1978) (E3062 or D-3001)

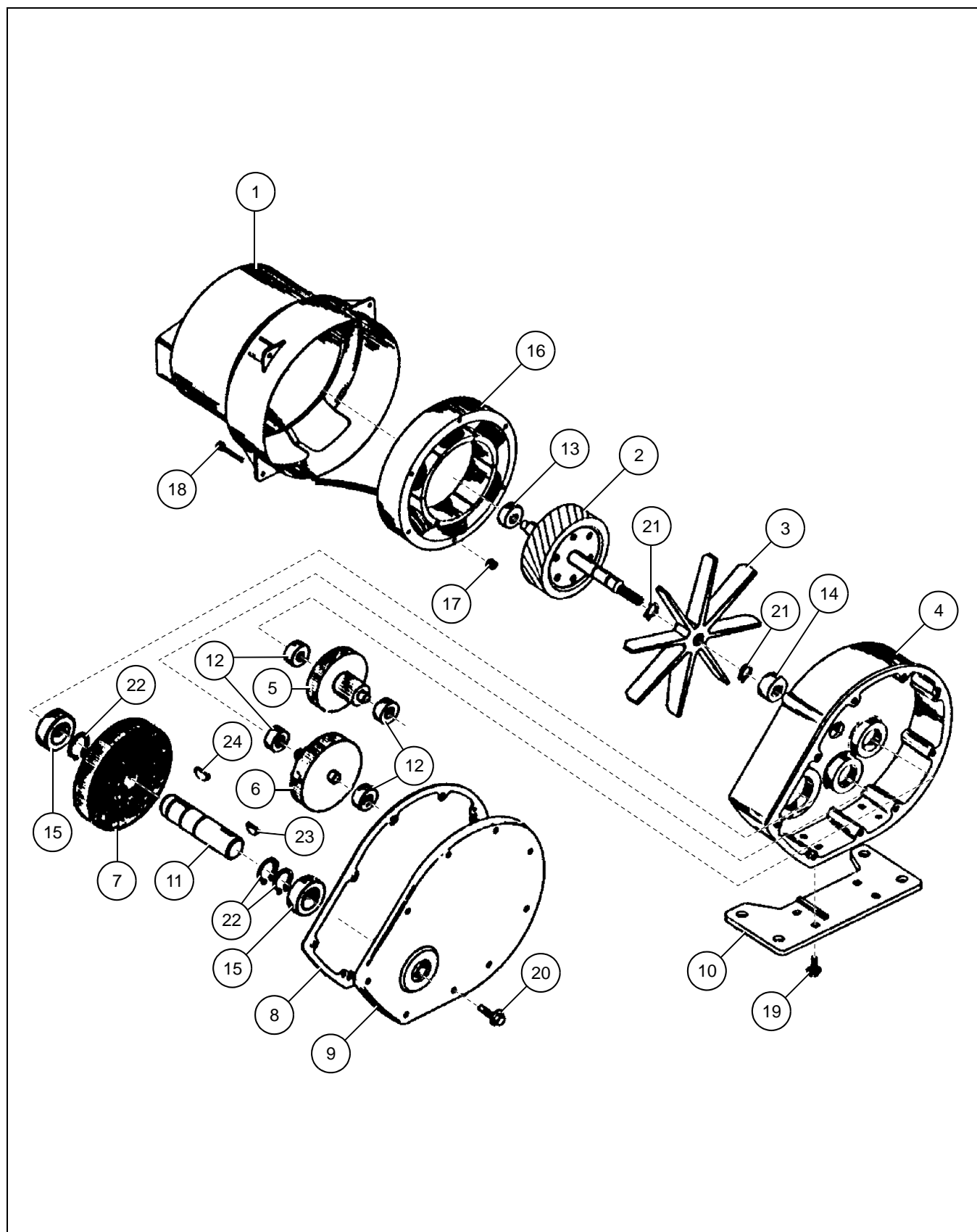


Figure 8D

8. Gearmotor

Gearmotors (1971 to 1978) (E3062 or D-3001) Parts List

| Ref # | Part # | Description | E-3062 1973 to 1978 (Replaced by E-3101) | D-3001 1971 to 1978 (Replaced by D-2022) |
|-------|----------|---|--|--|
| 1 | 501A0011 | Housing, Gearmotor (Not Available) | 1 | 1 |
| 2 | 501A0012 | Rotor and Pinion Assembly (Not Available) | 1 | 1 |
| 3 | 501A0013 | Fan, Motor (Not Available) | 1 | 1 |
| 4 | 501A0014 | Transmission Gear Housing (No Longer Available - Replaced by Complete Motor 501A0033 or 502A0040 with 101N0001) (Not Available) | 1 | 1 |
| 5 | 501A0015 | Gear Assembly, 15 and 64 Tooth (Not Available) | 1 | 1 |
| 6 | 501A0016 | Gear Assembly, 18 and 60 Tooth (Not Available) | 1 | 1 |
| 7 | 501A0017 | Gear, 80 Tooth (Not Available) | 1 | 1 |
| 8 | 501A0018 | Gasket, Cover (Not Available) | 1 | 1 |
| 9 | 501A0019 | Cover, Plain (Not Available) | 1 | 1 |
| 10 | 502A0001 | Base (Low) (Not Available) | 1 | - |
| | 501A0009 | Base (High) (Not Available) | - | 1 |
| 11 | 502A0002 | Output Shaft, 3/4" Dia. (Not Available) | 1 | - |
| | 501A0010 | Output Shaft, 3/4" Stepped to 5/8" Dia. (Not Available) | - | 1 |
| 12 | PT0361 | Radial Bearing, 3/8" Bore (7R6) | 4 | 4 |
| 13 | PT0362 | Radial Bearing, 3/8" Bore with 2 Seals (99R6) (Not Available) | 1 | 1 |
| 14 | PT0370 | Radial Bearing, 1/2" Bore (16162RS) | 1 | 1 |
| 15 | PT0376 | Radial Bearing, 3/4" Bore (16302RS) | 2 | 2 |
| 16 | 3EL0001 | Motor Stator, 230V | 1 | 1 |
| 17 | 2FH0455 | Socket Head Cap Screw, #10 x 1-1/4" | 3 | 3 |
| 18 | 2FH0771 | Phillips Fillister Head Screw, #10 x 1" | 4 | 4 |
| 19 | 2FH0981 | Hex Flange Whiz Lock Screw, 1/4" x 3/4" | 4 | 4 |
| 20 | 2FH0982 | Hex Flange Whiz Lock Screw, 1/4" x 7/8" | 9 | 9 |
| 21 | 3FH0560 | Retaining Ring, 1/2" | 2 | 2 |
| 22 | 3FH0562 | Retaining Ring, 3/4" | 3 | 3 |
| 23 | 3FH0985 | Woodruff Key, 1/8" x 5/8" | - | 1 |
| | S-8105 | Woodruff Key, 3/16" x 5/8" | 1 | - |
| 24 | S-8105 | Woodruff Key, 3/16" x 5/8" | 1 | 1 |

NOTE: Replacement parts for gearmotors made before the E-3062 and D-3001 are not available, but the entire gearmotor can be replaced as shown below.

1. E-3002 replaced by 502A0040 (E-3101).
2. B-850 replaced by 501A0033 (D-2022) with 101N0001.
3. 302-SDT replaced by 501A0033 (D-2022).

Gearmotor Fuses and Fuseholders

NOTE: See following parts list for order numbers and descriptions.

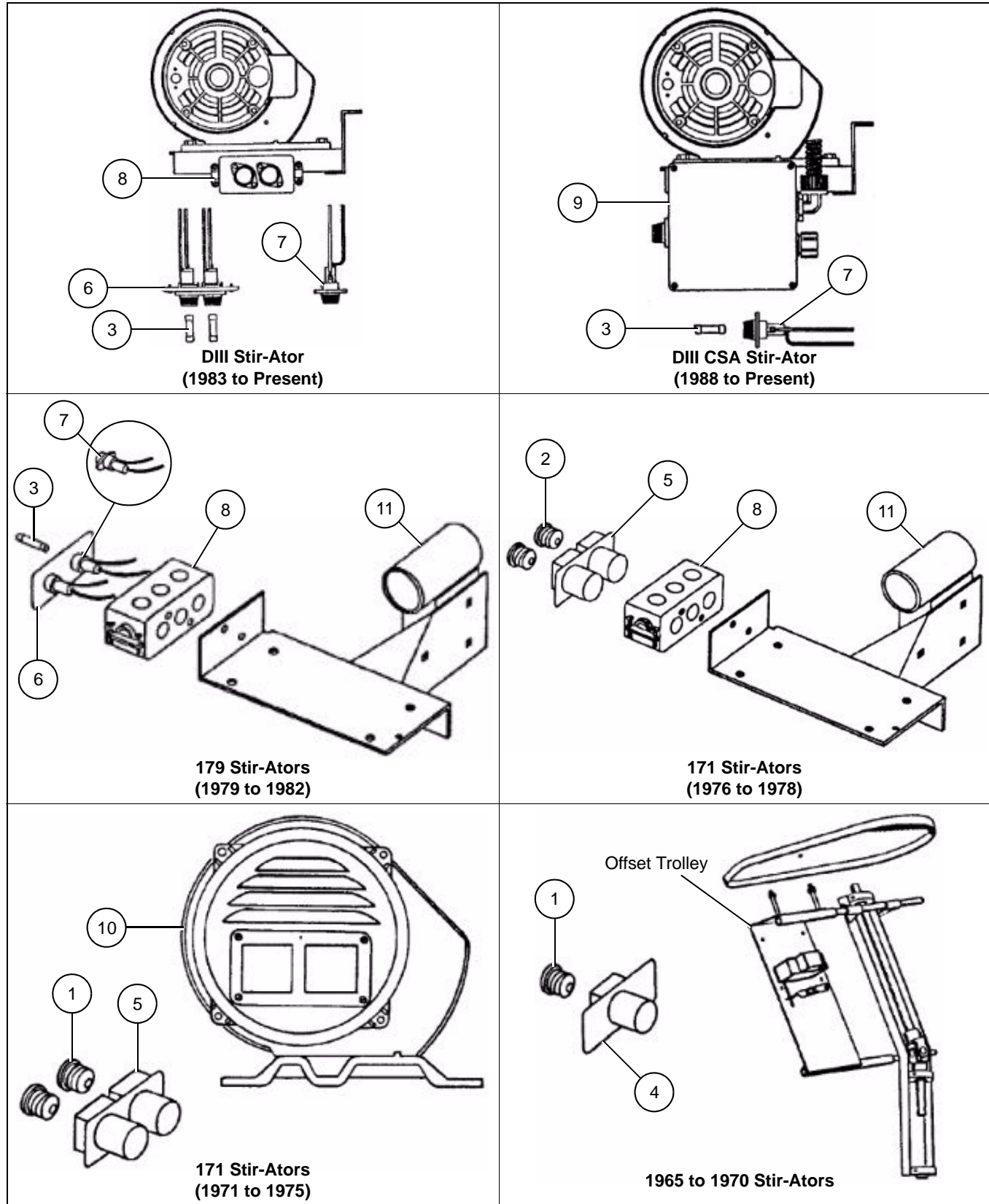


Figure 8E

8. Gearmotor

Gearmotor Fuses and Fuseholders Parts List

| Ref # | Part # | | Description |
|-------|-------------|------------|---|
| | Replaced by | Original # | |
| 1 | 1EL0723 | C-1201 | Fuse, 2-1/2 Amp, Plug Type, (#T-2-1/2) (1965 to 1975 - 230V) (In early years the fuse sizes were 4 and 6 Amp, but should be replaced with a 2-1/2 Amp Fuse) |
| 2 | - | 1EL0722 | Fuse, 1.8 Amp, Plug Type, (#T-1-8/10) (1976 to 1978 - 230V) |
| | - | 1EL0721 | Fuse, 1 Amp, Plug Type, (#T-1) (1976 to 1978 - 440V) |
| 3 | - | 1EL0727 | Fuse, 1.8 Amp, Cartridge Type, (FNM-1.8) (1979 to Present - 230V) |
| | - | 1EL0726 | Fuse, 1 Amp, Cartridge Type, (#FNQ-1) (1979 to Present - 440V) |
| 4 | 1EL0822 | 234-SDT | Single Fuse Holder, (Plug Type Fuse) (1965 to 1970) |
| 5 | 1EL0820 | C-1200 | Double Fuse Holder, (Plug Type Fuse) (1971 to 1975) (After inventory is gone use 105E0003 and appropriate fuses) |
| 6 | - | 105E0003 | Cover with Two Fuseholders Assembly (Without Cartridge Fuses) (1976 to Present) |
| 7 | - | 105E0021 | Fuse Holder with Wires Assembly (1976 to Present) (NOTE: Cap cannot be sold separately.) |
| 8 | - | 106E001 | 2" x 4" Handy Box with Two Romex Connectors Assembly (1976 to Present) |
| 9 | - | 106C065 | CSA Approved Plastic Box with Cover (1988 to Present) |
| 10 | - | - | E-3062, D-3001, B-850, Gearmotors with Handy Box Built-In the Back (No Longer Sold) |
| 11 | - | 103C0002 | Track Unit Head Weldment (Front) |

Limited Warranty - N.A. Grain Products

The GSI Group, LLC. ("GSI") warrants products which it manufactures, to be free of defects in materials and workmanship under normal usage and conditions for a period of 12 months from the date of shipment (or, if shipped by vessel, 14 months from the date of arrival at the port of discharge). If, in GSI's sole judgment, a product is found to have a defect in materials and/or workmanship, GSI will, at its own option and expense, repair or replace the product or refund the purchase price. This Limited Warranty is subject to extension and other terms as set forth below.

Warranty Enhancements:

The warranty period for the following products is enhanced as shown below and is in lieu of (and not in addition to) the above stated warranty period. (Warranty Period is from date of shipment.)

| | Product | Warranty Period |
|-------------------|---|-----------------|
| Storage | Grain Bin Structural Design | 5 Years |
| | • Sidewall, roof, doors, platforms and walkarounds | |
| | • Flooring (when installed using GSI specified floor support system for that floor) | |
| | • Hopper tanks (BFT, GHT, NCHT, and FCHT) | |
| Conditioning | Dryer Structural Design - (Tower, Portable and TopDry) | 5 Years |
| | • Includes (frame, portable dryer screens, ladders, access doors and platforms) | |
| | All other Dryer parts including: | 2 Years |
| | • Electrical (controls, sensors, switches and internal wiring) | |
| | All Non-PTO Driven Centrifugal and Axial Fans | 3 Years |
| Material Handling | Bullseye Controllers | 2 Years |
| | Bucket Elevators Structural Design | 5 Years |
| | Towers Structural Design | 5 Years |
| | Catwalks Structural Design | 5 Years |
| | Accessories (stairs, ladders and platforms) Structural Design | 5 Years |

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The sole and exclusive remedy for any claimant is set forth in this Limited Warranty and shall not exceed the amount paid for the product purchased. This Warranty only covers the value of the warranted parts and equipment, and does not cover labor charges for removing or installing defective parts, shipping charges with respect to such parts, any applicable sales or other taxes, or any other charges or expenses not specified in this Warranty. GSI shall not be liable for any other direct, indirect, incidental or consequential damages, including, without limitation, loss of anticipated profits or benefits. Expenses incurred by or on behalf of a claimant without prior written authorization from the GSI warranty department shall not be reimbursed. This warranty is not transferable and applies only to the original end-user. GSI shall have no obligation or responsibility for any representations or warranties made by or on behalf of any dealer, agent or distributor. Prior to installation, the end-user bears all responsibility to comply with federal, state and local codes which apply to the location and installation of the products.

This Limited Warranty extends solely to products sold by GSI and does not cover any parts, components or materials used in conjunction with the product, that are not sold by GSI. GSI assumes no responsibility for claims resulting from construction defects, unauthorized modifications, corrosion or other cosmetic issues caused by storage, application or environmental conditions. Modifications to products not specifically delineated in the manual accompanying the product at initial sale will void all warranties. This Limited Warranty shall not extend to products or parts which have been damaged by negligent use, misuse, alteration, accident or which have been improperly/inadequately maintained.

Notice Procedure:

In order to make a valid warranty claim a written notice of the claim must be submitted, using the RMA form, within 60 days of discovery of a warrantable nonconformance. The RMA form is found on the OneGSI portal.

Service Parts:

GSI warrants, subject to all other conditions described in this Warranty, Service Parts which it manufactures for a period of 12 months from the date of purchase unless specified in Enhancements above.

(Limited Warranty - N.A. Grain Products_ revised 01 October 2020)

This equipment shall be installed in accordance with the current installation codes and applicable regulations, which should be carefully followed in all cases. Authorities having jurisdiction should be consulted before installations are made.

For more information, contact the DMC Distribution Center closest to you.



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