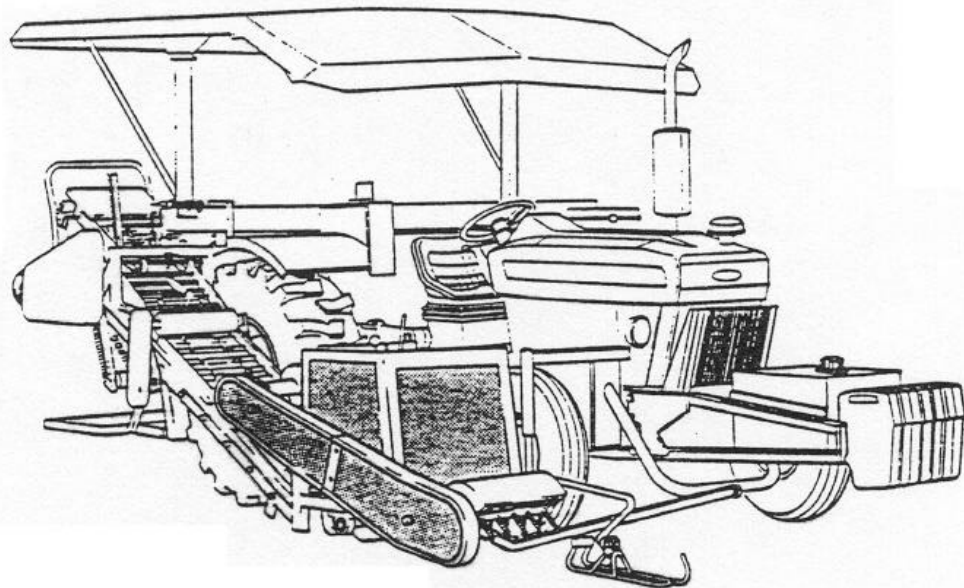


# SOD HARVESTER

MODEL 1550

ILLUSTRATED PARTS LIST



016205  
SERIAL NO.  
2468, 2469  
2475, 2476  
2478 & UP

**BROUWER**  
**TURF EQUIPMENT LIMITED**  
A RANSOMES COMPANY

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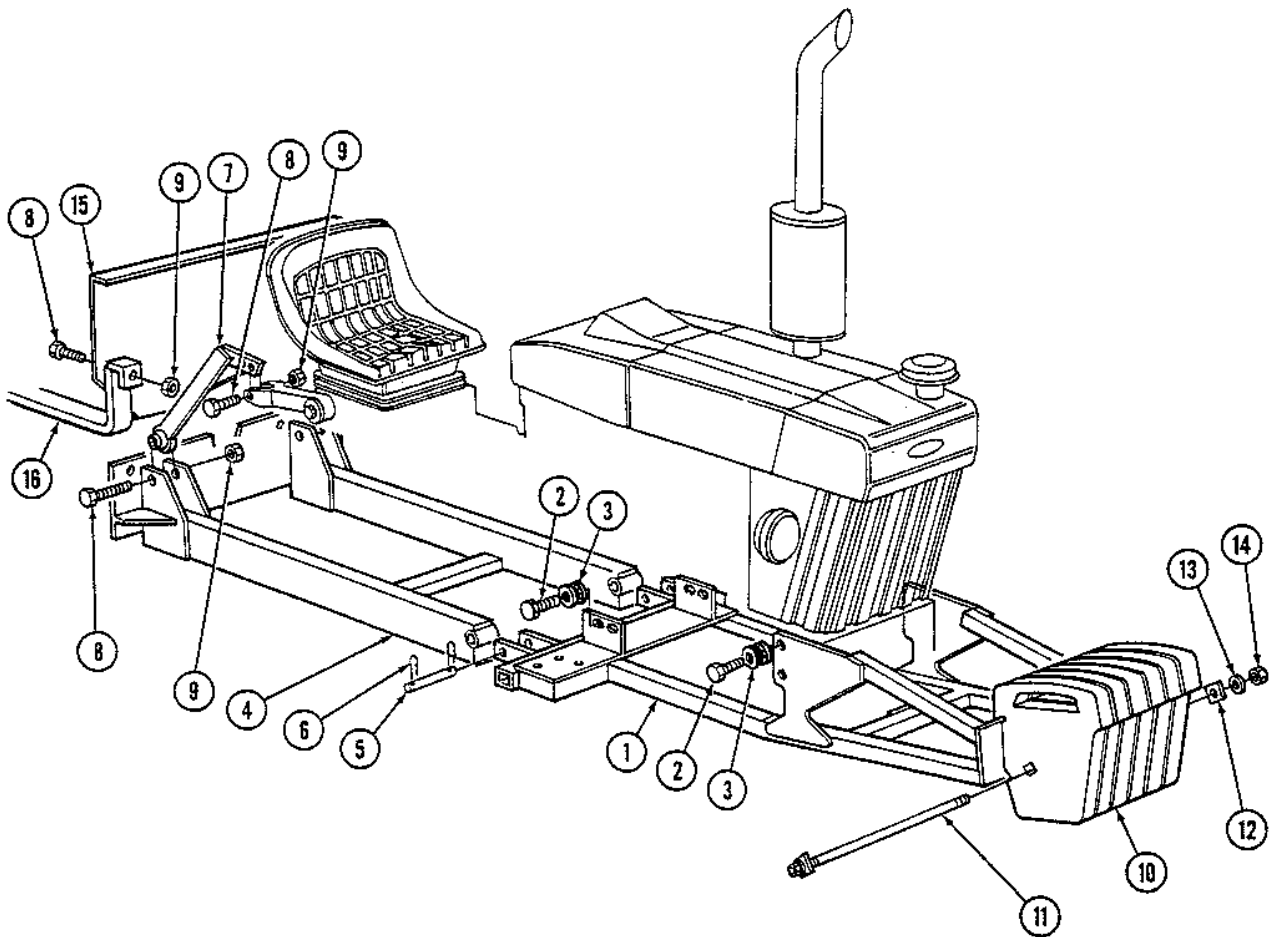
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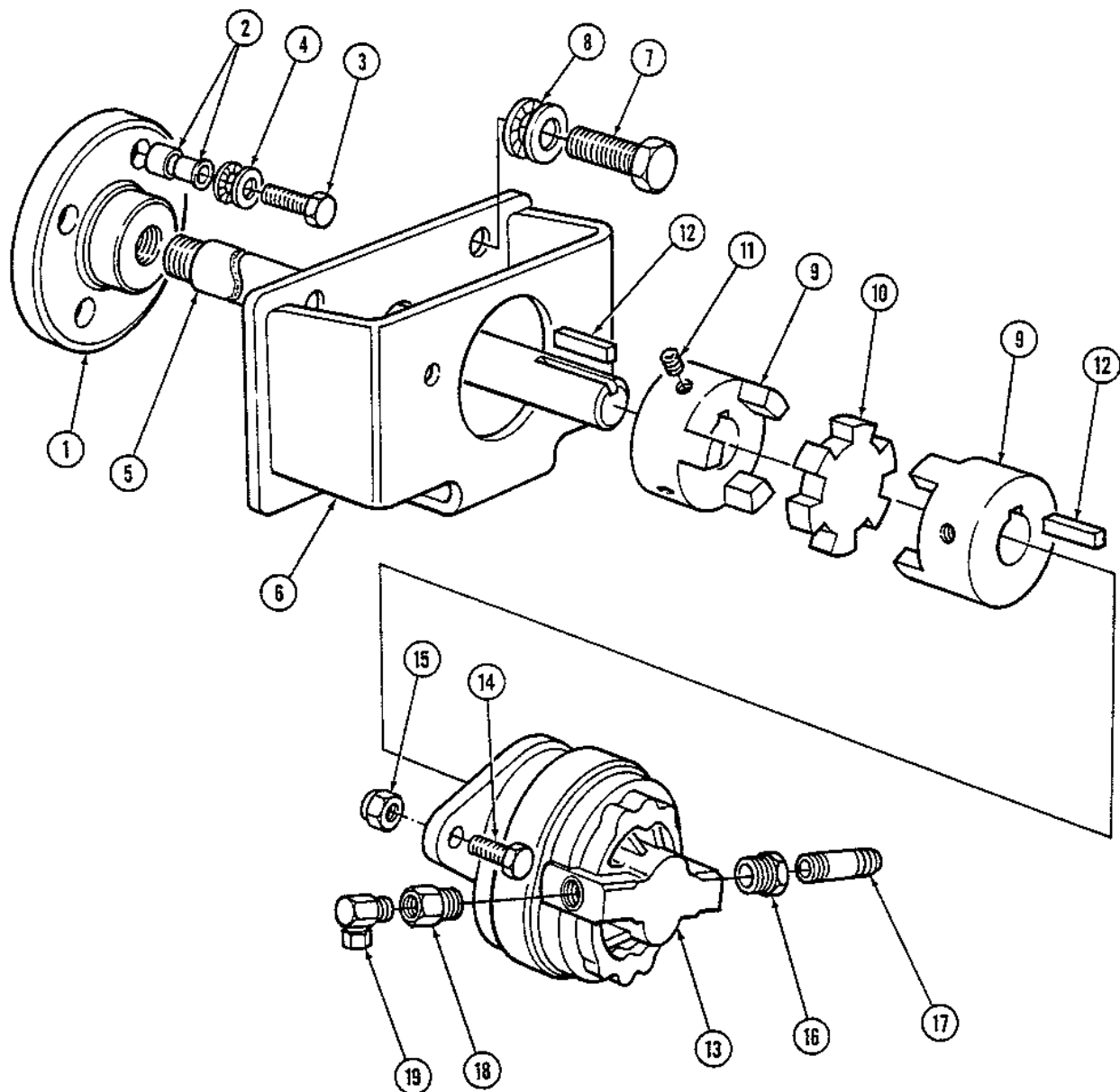
| <b>Ref</b> | <b>Part no.</b> | <b>Description</b>             | <b>Quantity</b> |
|------------|-----------------|--------------------------------|-----------------|
| 1          | 016025          | FRAME, TANK W/A                | 1               |
| 2          | 90-1212         | BOLT, 3/4 X 1-1/2              | 8               |
| 3          | F7076           | WASHER,DISC LOCK 3/4           | 8               |
| 4          | 006123          | FRAME, FORK MOUNTING 48"PALLET | 1               |
|            | 001441          | FRAME, FORK MOUNTING 54"PALLET | 1               |
| 5          | 001797          | PIN, PIVOT 1 X 5-1/2           | 2               |
| 6          | G2501           | PIN, HITCH CLIP #8             | 4               |
| 7          | 015204          | LIFT ARM RH                    | 1               |
|            | 015203          | LIFT ARM LH                    | 1               |
| 8          | 90-1232         | BOLT, 3/4 X 4                  | 6               |
| 9          | 92-12           | NUT, 3/4                       | 6               |
| 10         | M5015           | WEIGHT, TRACTOR                | 7               |
| 11         | 009531          | ROD W/A                        | 1               |
| 12         | 502214          | LUG                            | 2               |
| 13         | 95-08           | FLAT WASHER, 1/2 SAE           | 2               |
| 14         | 99-E41          | LOCKNUT, NYLON 1/2             | 1               |
| 15         | 6109114         | SHIELD, FORK LIFT 48" PALLET   | 1               |
|            | 014092          | SHIELD, FORK LIFT 54" PALLET   | 1               |
|            | 014093          | SHIELD, FORK LIFT- 56" PALLET  | 1               |
| 16         | 014055          | FORK, HARVESTER W/ ANGLE HOOK  | 2               |

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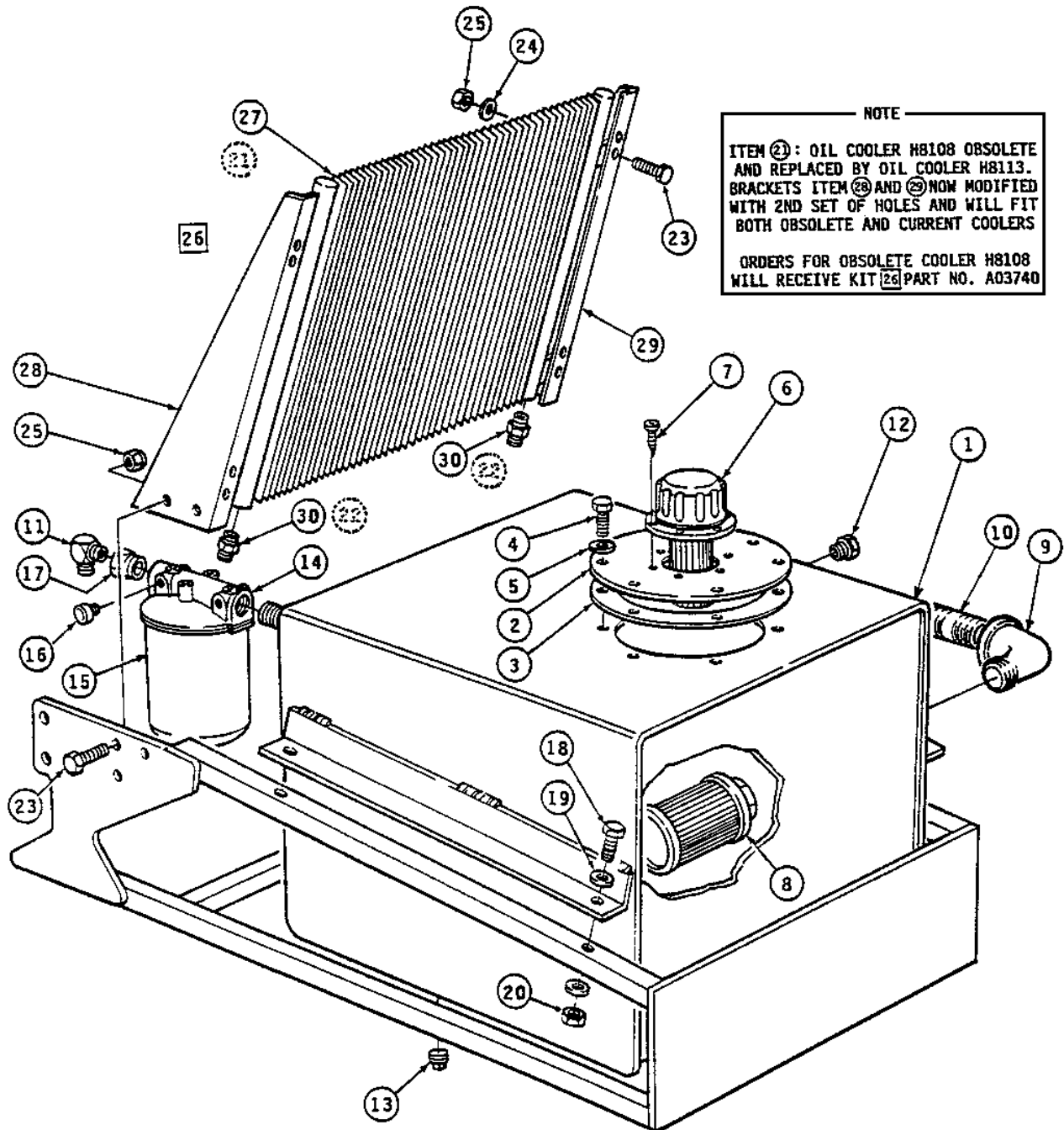
| <b>Ref</b> | <b>Part no.</b> | <b>Description</b>             | <b>Quantity</b> |
|------------|-----------------|--------------------------------|-----------------|
| 1          | 001682          | PUMP FLANGE                    | 1               |
| 2          | 001425          | BUSHING, PUMP FLANGE           | 4               |
| 3          | 90-0712         | BOLT, 7/16 X 1-1/2             | 4               |
| 4          | F4076           | WASHER, DISC LOCK              | 4               |
| 5          | 016022          | SHAFT, PUMP DRIVE -FORD 3930   | 1               |
| 6          | 016065          | MOUNT, HYDRAULIC PUMP          | 1               |
| 7          | 90-1208         | BOLT, 3/4 X 1                  | 4               |
| 8          | F7076           | WASHER, DISC LOCK              | 4               |
| 9          | 001341          | PUMP COUPLING                  | 2               |
| 10         | D4002           | INSERT, COUPLING JS5U          | 1               |
| 11         | 85-SS14         | SET SCREW, 3/8 X 3/8           | 4               |
| 12         | 85-K0408        | KEY, 1/4 X 1                   | 2               |
| 13         | H0401           | PUMP, HYDRAULIC                | 1               |
| 13A        | E3004           | SEAL, SHAFT FOR WEBSTER YDB    | 1               |
| 14         | 90-0814         | BOLT, 1/2 X 1-3/4              | 2               |
| 15         | 99-E41          | LOCKNUT, NYLON 1/2             | 2               |
| 16         | H2025           | FITTING,STR -20 M ORB/-16 FPT  | 1               |
|            | E0067           | O-RING, 20-1 FOR ORB FITTING   | 1               |
| 17         | H9101           | FITTING, 1"MPT X 1-1/4 HOSE ID | 1               |
| 18         | H2011           | FITTING, STR -16 M ORB/-12 FPT | 1               |
|            | E0066           | O-RING, 16-1 FOR ORB FITTING   | 1               |
| 19         | H1525           | FITTING, 90 -12 MPT/-12 F SWIV | 1               |

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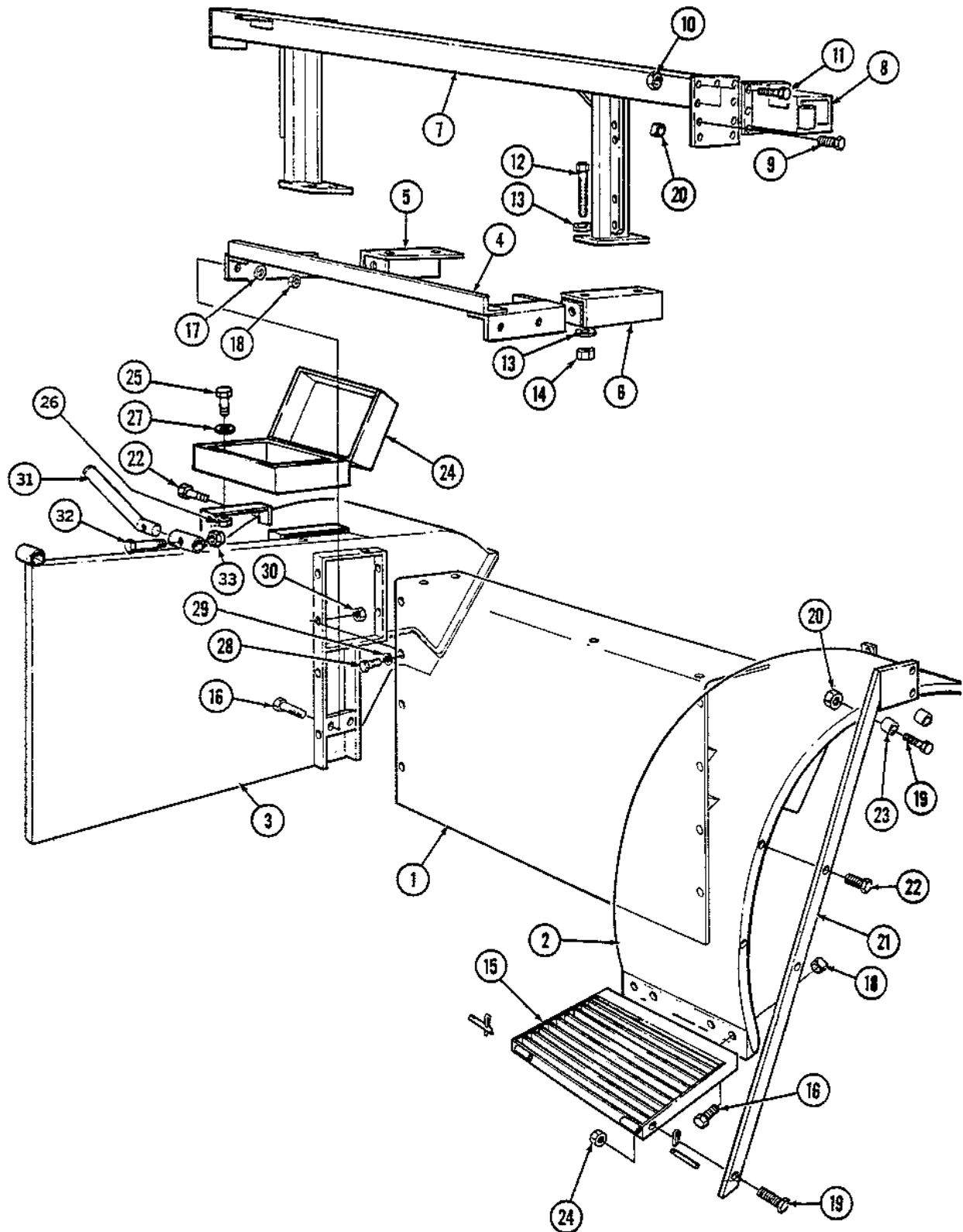
| <b>Ref</b> | <b>Part no.</b> | <b>Description</b>               | <b>Quantity</b> |
|------------|-----------------|----------------------------------|-----------------|
| 1          | 016068          | TANK, HYDRAULIC                  | 1               |
| 2          | 016075          | COVER, HYDRAULIC TANK            | 1               |
| 3          | 202662          | GASKET, 6 BOLT HYD. TANK COVER   | 1               |
| 4          | 90-0408         | BOLT, 1/4 X 1                    | 6               |
| 5          | 94-04           | FLAT WASHER, 1/4                 | 6               |
| 6          | H8074           | PRESSURE FILLER BREATHER         | 1               |
|            | E5013           | GASKET, 6 HOLE FOR H8074         | 1               |
|            | E8023           | SEAL, FOR CAP H8074              | 1               |
| 7          | F0314           | SCREW, SELF-TAPPING #10 X 3/4"   | 6               |
| 8          | H5018           | STRAINER, SUCTION                | 1               |
| 9          | H1074           | FITTING, ELBOW- 1" 90 STREET     | 1               |
| 10         | H9101           | FITTING, 1" MPT X 1-1/4 HOSE ID  | 1               |
| 11         | H6023           | FITTING, 90 -12 MPT X -12 M JIC  | 1               |
| 12         | H9103           | FITTING, SIGHT GLASS             | 1               |
| 13         | H8011           | PLUG, MAGNETIC                   | 1               |
| 14         | H5019           | FILTER: HEAD & ELEMENT & GAUGE   | 1               |
| 15         | H5020           | FILTER, OIL ELEMENT FOR H5019    | 1               |
| 16         | H9105           | FITTING, GAUGE 0-25 PSI X 1/8"   | 1               |
| 17         | H2024           | FITTING, REDUCER -20 MPT/-12 FPT | 1               |
| 18         | 90-0624         | BOLT, 3/8 X 3                    | 4               |
| 19         | 94-06           | FLAT WASHER, 3/8                 | 8               |
| 20         | 99-E40          | LOCKNUT, NYLON 3/8               | 4               |
| 21         | A03740          | SEE REF. 26                      | 1               |
| 22         | H6102           | FITTING, ADAPTER 16ORB -12JIC ST | 2               |
| 23         | 90-0608         | BOLT, 3/8 X 1                    | 8               |
| 24         | 94-06           | FLAT WASHER, 3/8                 | 4               |
| 25         | 99-E40          | LOCKNUT, NYLON 3/8               | 8               |
| 26         | A03740          | KIT, OIL COOLER                  | 1               |
| 27         | H8113           | COOLER, OIL                      | 1               |
| 28         | 016028          | BRACKET, R.H. COOLER MTG.        | 1               |
| 29         | 016027          | BRACKET, L.H. COOLER MTG.        | 1               |
| 30         | H6193           | FITTING, STR -16 MPT X -12 M JIC | 2               |

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Main Beam & Fenders

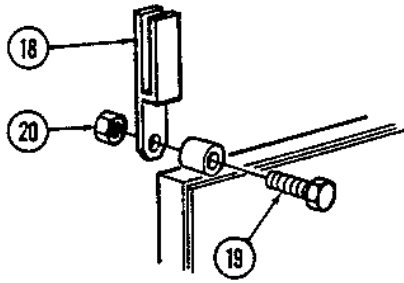
4-2



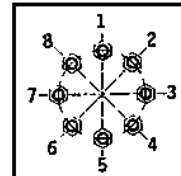
| <b>Ref</b> | <b>Part no.</b> | <b>Description</b>            | <b>Quantity</b> |
|------------|-----------------|-------------------------------|-----------------|
| 1          | 001335          | PANEL, REAR SOD -48" PALLET   | 1               |
|            | 001336          | PANEL, REAR SOD -54" PALLET   | 1               |
| 2          | 001694          | KIT, FENDER R.H.              | 1               |
| 3          | 001693          | FENDER, LH                    | 1               |
| 4          | 015602          | BRACKET, FENDER MOUNTING -48" | 1               |
|            | 015608          | BRACKET, FENDER MOUNTING -54" | 1               |
| 5          | 015597          | BRACKET, FENDER MOUNTING LH   | 1               |
| 6          | 015598          | BRACKET, FENDER MOUNTING RH   | 1               |
| 7          | 006118          | MAIN BEAM - 48" PALLET W/A    | 1               |
|            | 015985          | MAIN BEAM - 54" PALLET W/A    | 1               |
| 8          | 015422          | BEAM EXTENSION - 16/18"       | 1               |
|            | 015993          | BEAM EXTENSION - 24"          | 1               |
| 9          | 90-0610         | BOLT, 3/8 X 1-1/4             | 5               |
| 10         | 99-E40          | LOCKNUT, NYLON 3/8            | 7               |
| 11         | 90-0612         | BOLT, 3/8 X 1-1/2             | 2               |
| 12         | 90-1064         | BOLT, 5/8 X 8                 | 4               |
| 13         | F6057           | WASHER, FLAT 5/8 SAE *L9*     | 3               |
| 14         | 99-E42          | LOCKNUT, NYLON 5/8            | 4               |
| 15         | 001712          | PLATFORM, MAIN                | 1               |
| 16         | 90-0814         | BOLT, 1/2 X 1-3/4             | 10              |
| 17         | F5052           | WASHER, FLAT 1/2" SAE GR.9    | 4               |
| 18         | 99-E41          | LOCKNUT, NYLON 1/2            | 10              |
| 19         | 90-0716         | BOLT, 7/16 X 2                | 3               |
| 20         | F4003           | LOCKNUT, NYLON 7/16           | 7               |
| 21         | 001711          | BRACE, PLATFORM MOUNT         | 1               |
| 22         | 90-0712         | BOLT, 7/16 X 1-1/2            | 4               |
| 23         | 015632          | SPACER, FENDER                | 2               |
| 24         | M5280           | TOOL BOX                      | 1               |
| 25         | 90-0407         | BOLT, 1/4 X 7/8               | 2               |
| 26         | 99-E39          | LOCKNUT, NYLON 1/4            | 4               |
| 27         | 94-04           | FLAT WASHER, 1/4              | 2               |
| 28         | 90-0508         | BOLT, 5/16 X 1                | 17              |
| 29         | 94-05           | FLAT WASHER, 5/16             | 17              |
| 30         | 99-E38          | LOCKNUT, NYLON 5/16           | 17              |
| 31         | 015863          | HANGER, PALLET                | 2               |
| 32         | 90-0618         | BOLT, 3/8 X 2-1/4             | 2               |
| 33         | 99-E40          | LOCKNUT, NYLON 3/8            | 2               |

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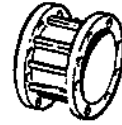
# SOD PANEL EXTENSIONS & PLATFORMS section 5



DETAIL A

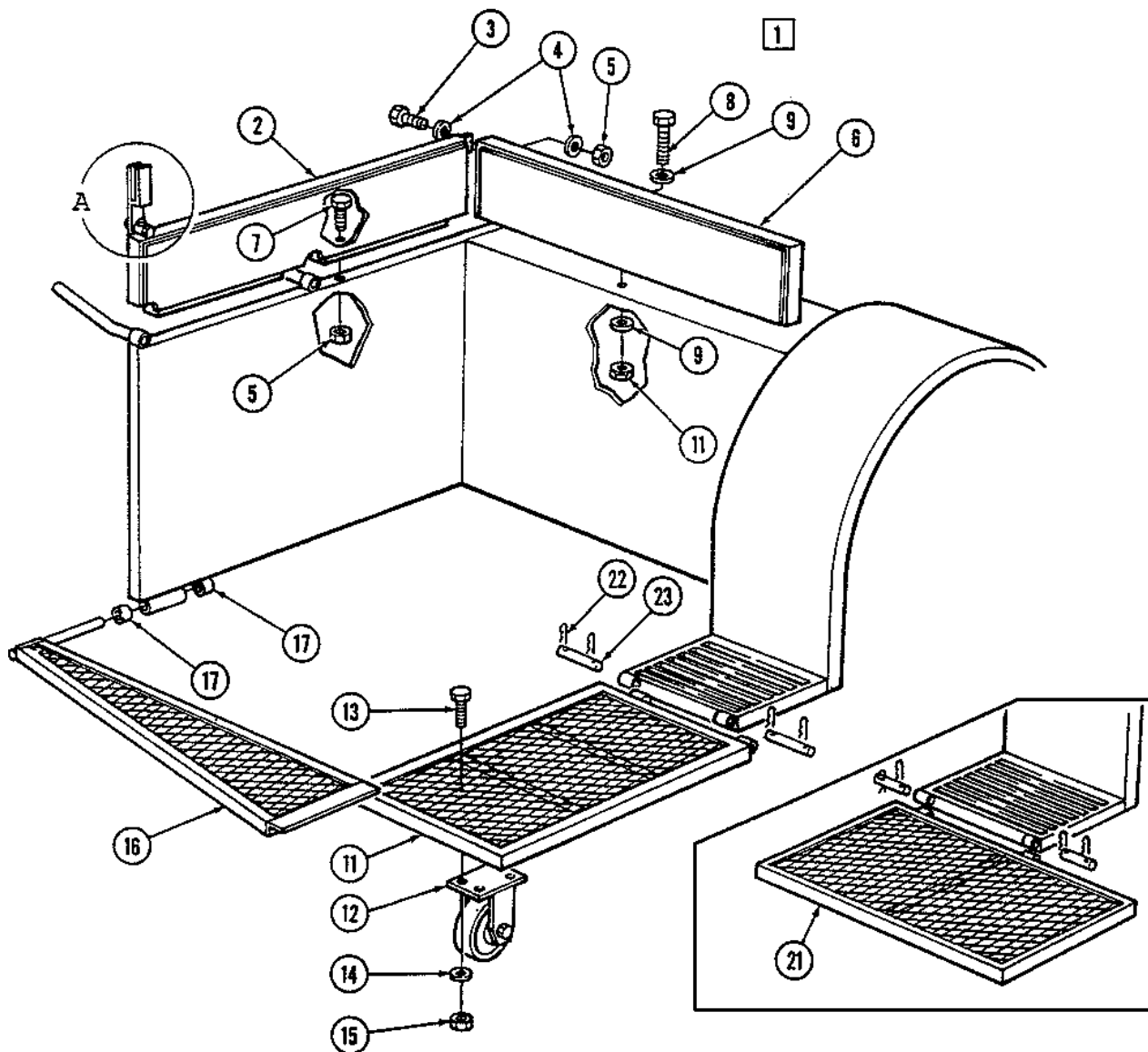


**WHEEL NUT  
TIGHTENING  
SEQUENCE**  
1 AND 5  
3 AND 7  
4 AND 8  
2 AND 6



**4" AXLE EXTENSION  
FOR FORD TRACTORS**

24 ASSEMBLY  
25 EXTENSION  
26 BOLT  
27 NUT



# SOD PANEL EXTENSIONS & PLATFORMS section 5

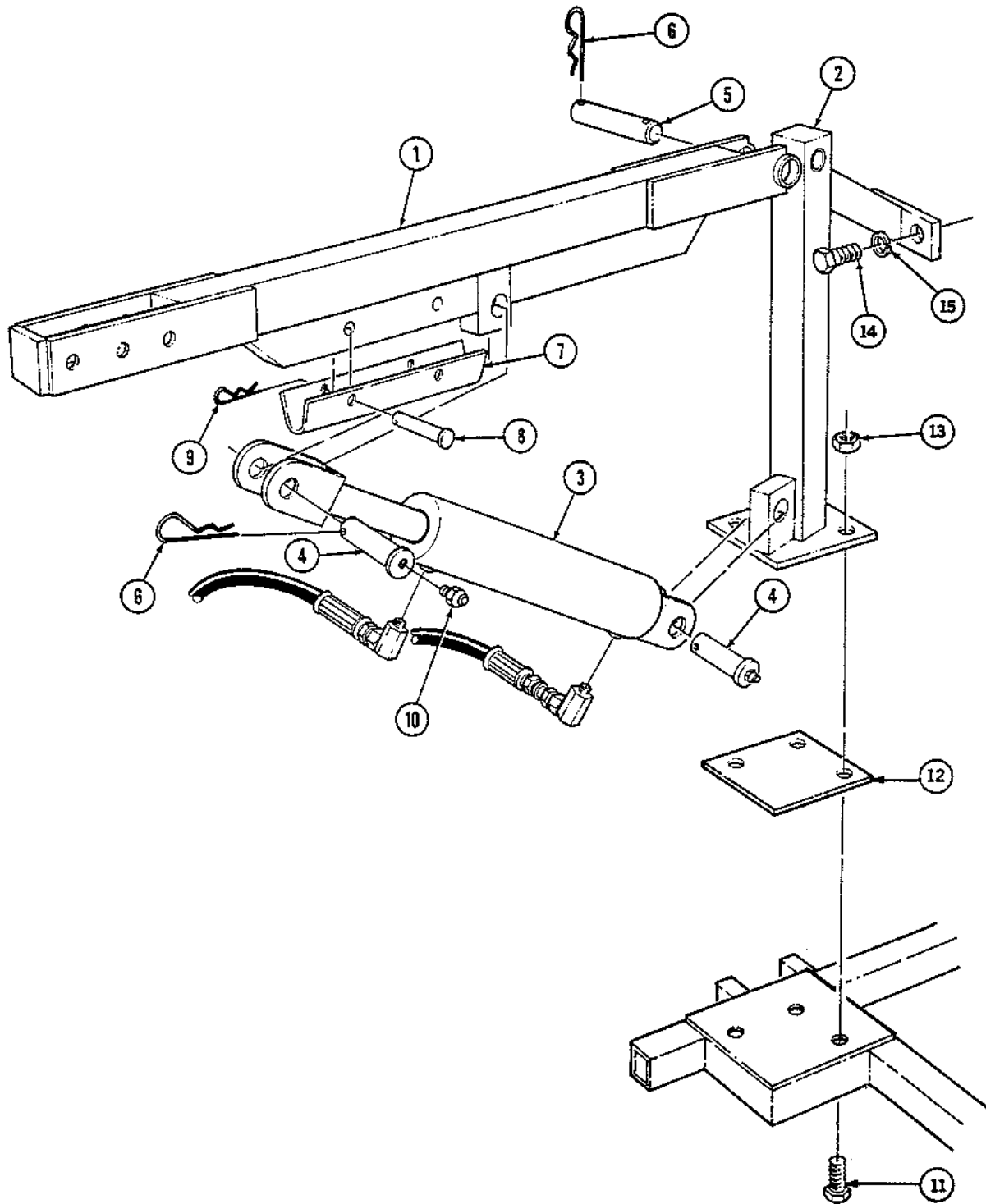
| Ref | Part no. | Description                      | Quantity |
|-----|----------|----------------------------------|----------|
| 1   | A03288   | KIT, SOD PANEL EXT. 48"          | 1        |
|     | A03289   | KIT, SOD PANEL EXT. 54"          | 1        |
| 2   | 6109125  | EXTENSION, SIDE SOD PANEL W/A    | 1        |
| 3   | 90-0616  | BOLT, 3/8 X 2                    | 1        |
| 4   | 94-06    | FLAT WASHER, 3/8                 | 2        |
| 5   | 99-E40   | LOCKNUT, NYLON 3/8               | 5        |
| 6   | 014066   | EXTENSION, REAR SOD PANEL -48"   | 1        |
|     | 014067   | EXTENSION, REAR SOD PANEL -54"   | 1        |
| 7   | 90-0640  | BOLT, 3/8 X 5                    | 4        |
| 8   | 90-0514  | BOLT, 5/16 X 1-3/4               | 3        |
| 9   | 94-05    | FLAT WASHER, 5/16                | 6        |
| 10  | 99-E38   | LOCKNUT, NYLON 5/16              | 3        |
| 11  | 001718   | SLABBING PLATFORM                | 1        |
| 12  | R0001    | CASTER WHEEL, 8" X 2"            | 1        |
|     | B3002    | BEARING, ROLLER                  | 1        |
|     | R0002    | CASTER WHEEL, 10"                | 1        |
|     | B3002    | BEARING, ROLLER                  | 1        |
| 13  | 90-0812  | BOLT, 1/2 X 1-1/2                | 4        |
| 14  | F5052    | WASHER, FLAT 1/2" SAE GR.9       | 4        |
| 15  | 99-E41   | LOCKNUT, NYLON 1/2               | 4        |
| 16  | 001757   | PLATFORM, TAIL -48" PALLET       | 1        |
| 17  | L6008    | SET COLLAR, 1"                   | 2        |
| 18  | 014195   | LATCH, EXTENSION PILING WALL     | 1        |
|     | 014194   | LATCH, STANDARD PILING WALL      | 1        |
| 19  | 90-0824  | BOLT, 1/2 X 3                    | 1        |
| 20  | 99-E41   | LOCKNUT, NYLON 1/2               | 1        |
| 21  | 001717   | PLATFORM, WIDE                   | 1        |
| 22  | 001332   | PIN, HINGE- STANDING PLATFORM    | 2        |
| 23  | G2330    | PIN, SPRING TENSION              | 4        |
| 24  | A03451   | AXLE, 8" FORD EXTENSION          | 1        |
| 25  | R8009    | AXLE EXTENSION, 4"               | 1        |
| 26  | F9055    | BOLT, HEX 3/4" NF SPECIAL (FORD) | 8        |
| 27  | Z0284    | WHEEL NUT (FORD)                 | 8        |

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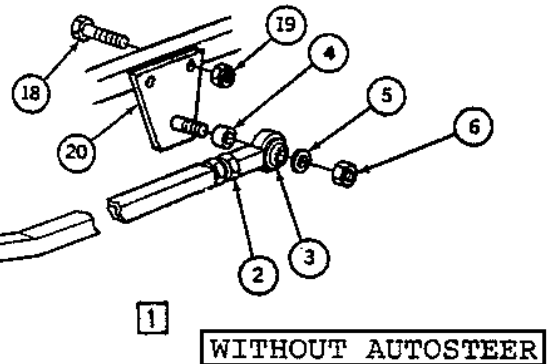
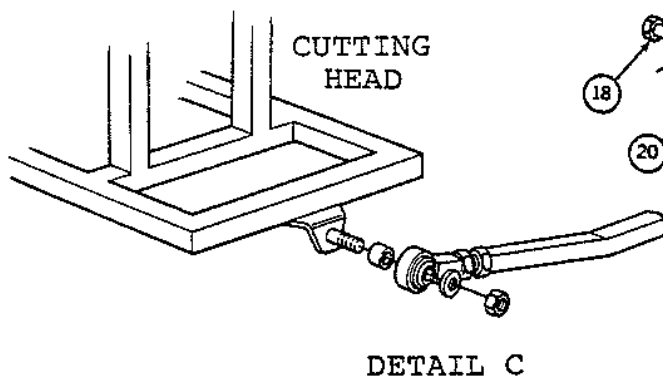
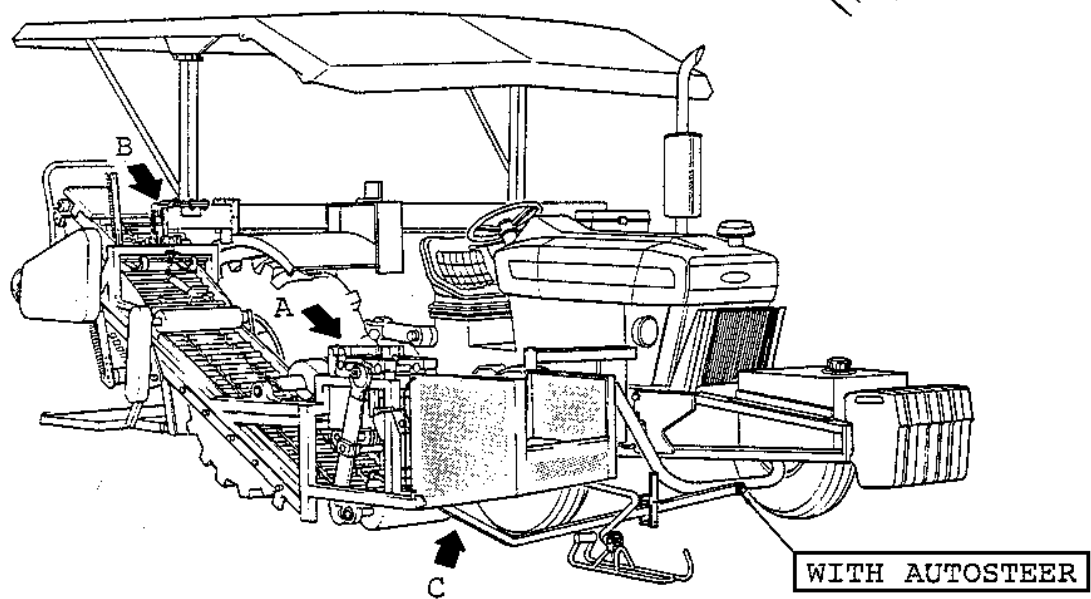
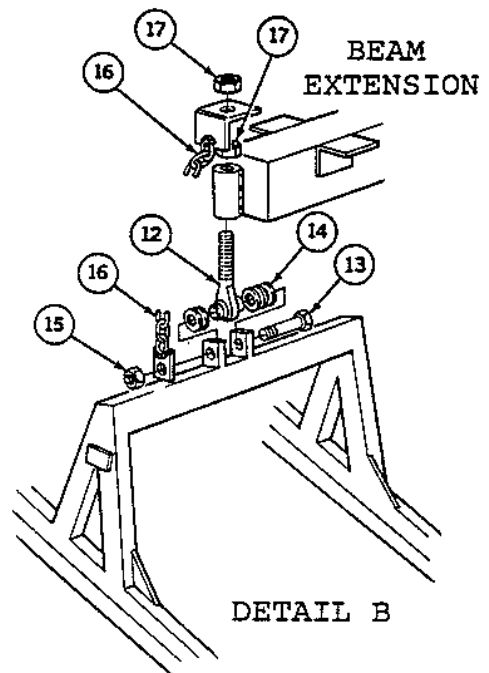
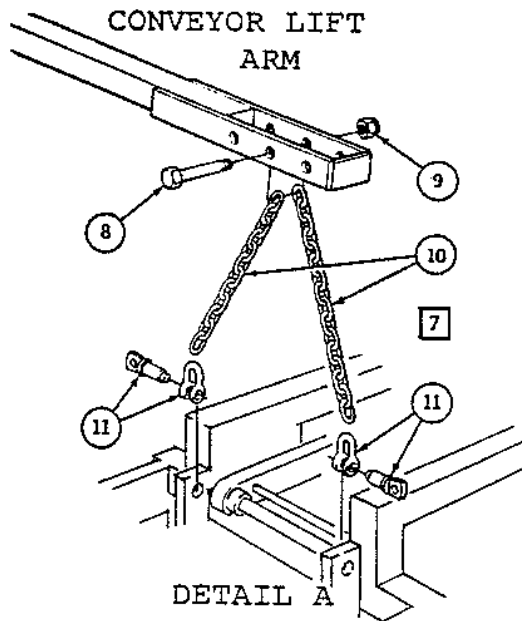
| <b>Ref</b> | <b>Part no.</b> | <b>Description</b>          | <b>Quantity</b> |
|------------|-----------------|-----------------------------|-----------------|
| 1          | 001353          | LIFT ARM                    | 1               |
| 2          | 001352          | CONVEYOR, LIFT STAND        | 1               |
| 3          | 015894          | CYLINDER,DOUBLE ACTING HYD. | 1               |
|            | E3026           | SEAL KIT FOR 201696 C       | 1               |
| 4          | 202370          | PIN, CLEVIS                 | 2               |
| 5          | 001419          | PIN, LIFT ARM               | 1               |
| 6          | G2501           | PIN, HITCH CLIP #8          | 6               |
| 7          | 015283          | SUPPORT, LIFT               | 1               |
| 8          | 03-0522         | CLEVIS PIN, 5/16 X 2-3/4    | 2               |
| 9          | 02-PP0420       | PRESTO PIN, 1/8 X 2-9/16    | 2               |
| 10         | 29-010          | GREASE FITTING, 1/4 SHORT   | 2               |
| 11         | 90-1016         | BOLT, 5/8 X 2               | 3               |
| 12         | 016137          | SHIM, LIFT STAND BASE       | 1               |
| 13         | 99-E42          | LOCKNUT, NYLON 5/8          | 3               |
| 14         | 90-1212         | BOLT, 3/4 X 1-1/2           | 2               |
| 15         | F7076           | WASHER, DISC LOCK           | 2               |

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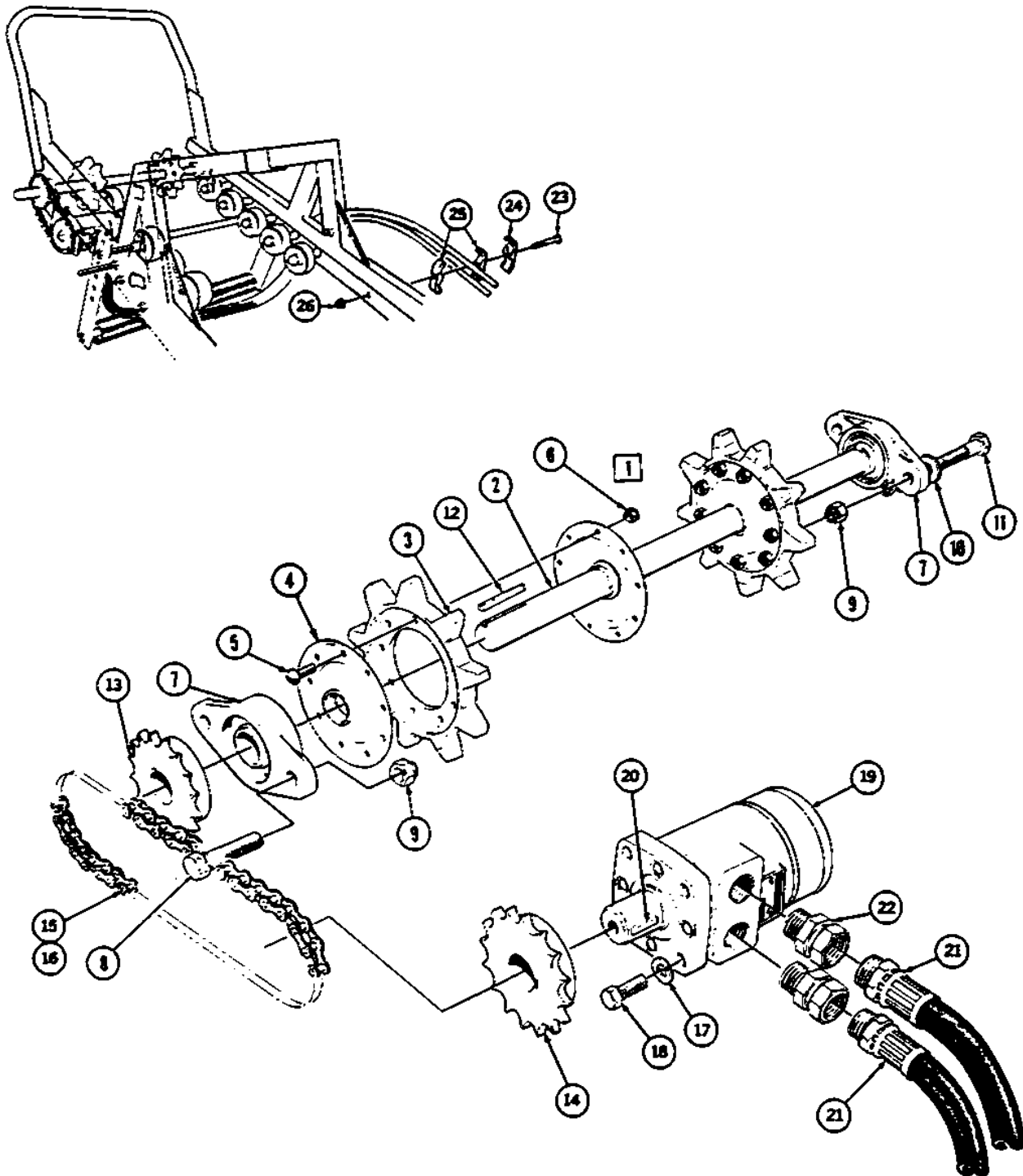
Conveyor Installation

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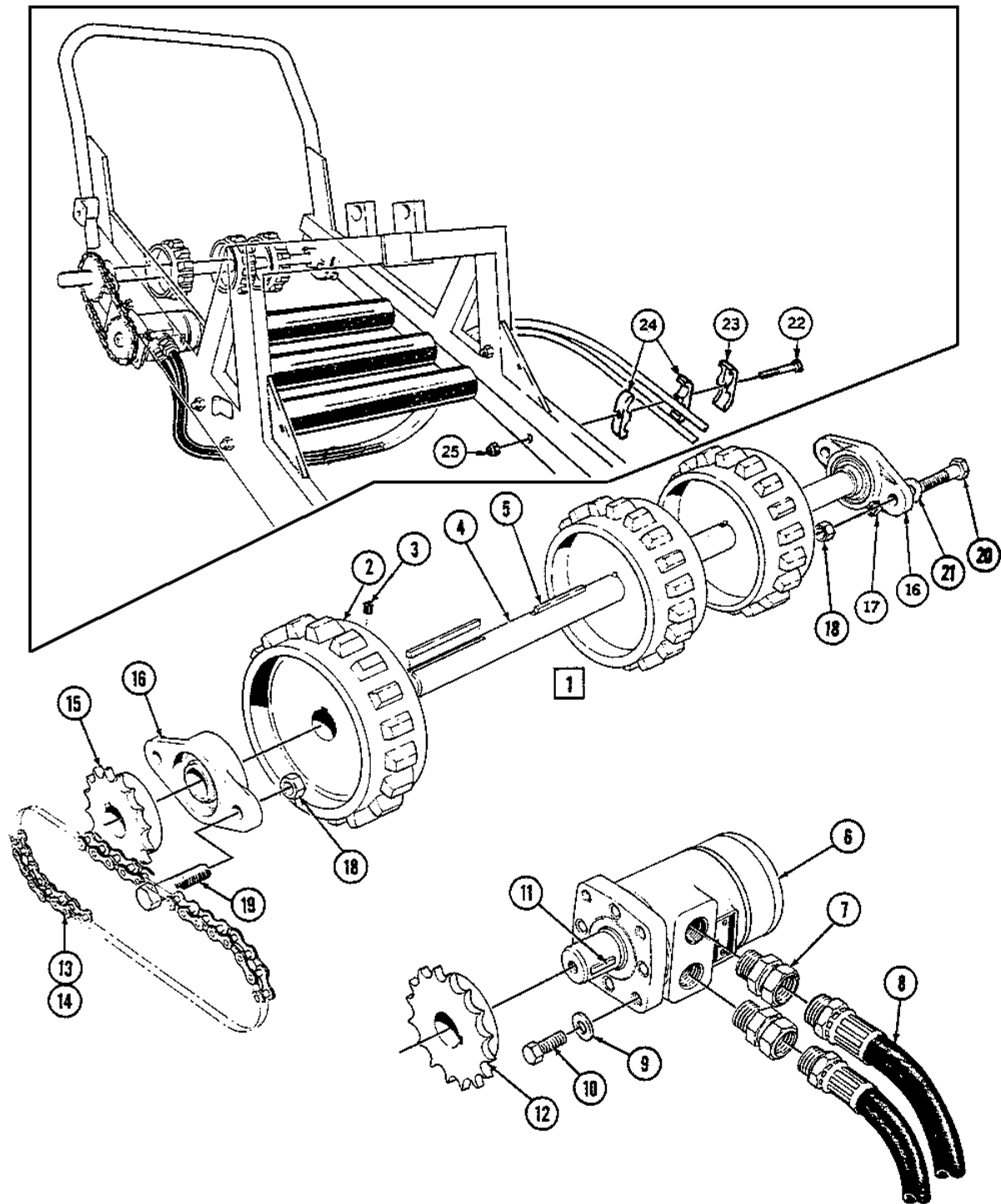


| <b>Ref</b> | <b>Part no.</b> | <b>Description</b>          | <b>Quantity</b> |
|------------|-----------------|-----------------------------|-----------------|
| 1          | A03351          | ASSY, TRACK ROD             | 1               |
|            | A03352          | ASSY, TRACK ROD             | 1               |
| 2          | 99-E27          | JAM NUT, 3/4 NF             | 2               |
| 3          | M0310           | ROD END, 3/4" FEMALE W/ZERC | 2               |
| 4          | 015630          | SPACER, TRACK ROD MOUNTING  | 1               |
| 5          | 95-12           | FLAT WASHER, 3/4 SAE        | 2               |
| 6          | 99-E43          | LOCKNUT, NYLON 3/4          | 2               |
| 8          | 90-0832         | BOLT, 1/2 X 4               | 1               |
| 9          | F5015           | NUT, 1/2" HEX LOCK          | 1               |
| 10         | 001369          | CHAIN, LIFT                 | 2               |
| 11         | G8003           | SHACKEL, ANCHOR 3/8"        | 2               |
| 12         | M0305           | BALL END TOP LINK           | 1               |
| 13         | 90-1248         | BOLT, 3/4 X 6               | 1               |
| 14         | 95-12           | FLAT WASHER, 3/4 SAE        | 7               |
| 15         | 99-E43          | LOCKNUT, NYLON 3/4          | 1               |
| 16         | 014117          | SAFETY CHAIN                | 1               |
| 17         | F8006           | NUT, JAM 1-1/8"             | 2               |
| 18         | 90-0624         | BOLT, 3/8 X 3               | 2               |
| 19         | 99-E40          | LOCKNUT, NYLON 3/8          | 2               |
| 20         | 015984          | PLATE, TRACK ROD MOUNTING   | 1               |

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| <b>Ref</b> | <b>Part no.</b> | <b>Description</b>                  | <b>Quantity</b> |
|------------|-----------------|-------------------------------------|-----------------|
| 1          | A03166          | ASSY, RUBBER CONVEYOR -16"          | 1               |
|            | A03169          | ASSY, RUBBER CONVEYOR -18"          | 1               |
| 2          | 014071          | SHAFT, CONVEYOR DRIVE-16"           | 1               |
|            | 014081          | SHAFT, CONVEYOR DRIVE-18"           | 1               |
| 3          | D1953           | SPROCKET, URETHANE 9 TOOTH          | 2               |
| 4          | D8001           | FLANGE, SPROCKET                    | 2               |
| 5          | 99-K06          | BOLT, 1/4 X 3/4 SL RD HD            | 18              |
| 6          | 99-E39          | LOCKNUT, NYLON 1/4                  | 18              |
| 7          | 55-FB23016      | BEARING, 2-BOLT FLANGE 1"           | 2               |
|            | 29-010          | GREASE FITTING, 1/4 SHORT           | 1               |
| 8          | 90-0716         | BOLT, 7/16 X 2                      | 2               |
| 9          | F4003           | LOCKNUT, NYLON 7/16                 | 4               |
| 10         | F5052           | WASHER,FLAT 1/2" SAE GR.9           | 2               |
| 11         | 90-0712         | BOLT, 7/16 X 1-1/2                  | 2               |
| 12         | 124458          | KEY, 1/4 X 1/4 X 3-5/8              | 1               |
| 13         | D1202           | SPROCKET, FIXED:#50 X 18T X 1" BORE | 1               |
| 14         | D1216           | SPROCKET, FIXED H5016 X 1           | 1               |
| 15         | 115011          | CHAIN, ROLLER: #50 X 22-1/2"        | 1               |
|            | D1005           | HALFLINK, #50                       | 1               |
| 16         | D1006           | CONNECTOR LINK, #50                 | 1               |
| 17         | 94-06           | FLAT WASHER, 3/8                    | 4               |
| 18         | 90-0606         | BOLT, 3/8 X 3/4                     | 4               |
| 19         | H0012           | MOTOR, HYDRAULIC                    | 1               |
|            | E3039           | SEAL KIT                            | 1               |
| 20         | G8019           | KEY, WOODRUFF 1/4 X 1"              | 1               |
| 21         | 001273          | HOSE, 1/2 X 75" 1/2 MPT RIGID       | 2               |
| 22         | H1510           | FITTING, STR -8 MPT X -8 NPSM       | 2               |
| 23         | 90-0424         | BOLT, 1/4 X 3                       | 1               |
| 24         | G8106           | COVER PLATE                         | 1               |
| 25         | F8082           | PIPE CLAMP                          | 1               |
| 26         | 99-E39          | LOCKNUT, NYLON 1/4                  | 1               |



| <b>Ref</b> | <b>Part no.</b> | <b>Description</b>                  | <b>Quantity</b> |
|------------|-----------------|-------------------------------------|-----------------|
| 1          | A03034          | ASSY., MINTEX CONVEYOR DRIVE 16/18" | 1               |
|            | A03035          | ASSY., MINTEX CONVEYOR DRIVE 24"    | 1               |
| 2          | 001351          | SPROCKET, 6" CAST                   | 3               |
| 3          | 85-SS14         | SET SCREW, 3/8 X 3/8 SKTHD          | 6               |
| 4          | 001349          | SHAFT, CONVEYOR DRIVE 16-18"        | 1               |
|            | 001350          | SHAFT, CONVEYOR DRIVE 24"           | 1               |
| 5          | 124422          | KEY, 1/4 X 1/4 X 1-3/8              | 3               |
| 6          | H0012           | MOTOR, HYDRAULIC                    | 1               |
|            | E3039           | SEAL KIT                            | 1               |
| 7          | H1510           | FITTING, STR -8 MPT X -8 NPSM       | 2               |
| 8          | 001273          | HOSE, 1/2 X 75" 1/2 MPT RIGID       | 2               |
| 9          | 94-06           | FLAT WASHER, 3/8                    | 4               |
| 10         | 90-0606         | BOLT, 3/8 X 3/4                     | 4               |
| 11         | G8019           | KEY, WOODRUFF 1/4 X 1"              | 1               |
| 12         | D1216           | SPROCKET, FIXED H5016 X 1           | 1               |
| 13         | 115011          | CHAIN, ROLLER: #50 X 22-1/2" LONG   | 1               |
|            | 81-055          | HALFLINK, #50                       | 1               |
| 14         | 81-053          | CONNECTOR LINK, #50                 | 1               |
| 15         | D1202           | SPROCKET, FIXED:#50 X 18T X 1" BORE | 1               |
| 16         | 55-FB23016      | BEARING, 2-BOLT FLANGE, 1"          | 2               |
| 17         | 29-010          | GREASE FITTING, 1/4 SHORT           | 2               |
| 18         | F4003           | LOCKNUT, NYLON 7/16                 | 4               |
| 19         | 90-0716         | BOLT, 7/16 X 2                      | 2               |
| 20         | 90-0712         | BOLT, 7/16 X 1-1/2                  | 2               |
| 21         | F5052           | WASHER, FLAT 1/2" SAE GR. 9         | 2               |
| 22         | 90-0424         | BOLT, 1/4 X 3                       | 1               |
| 23         | G8106           | COVER PLATE                         | 1               |
| 25         | 99-E39          | LOCKNUT, NYLON 1/4                  | 1               |

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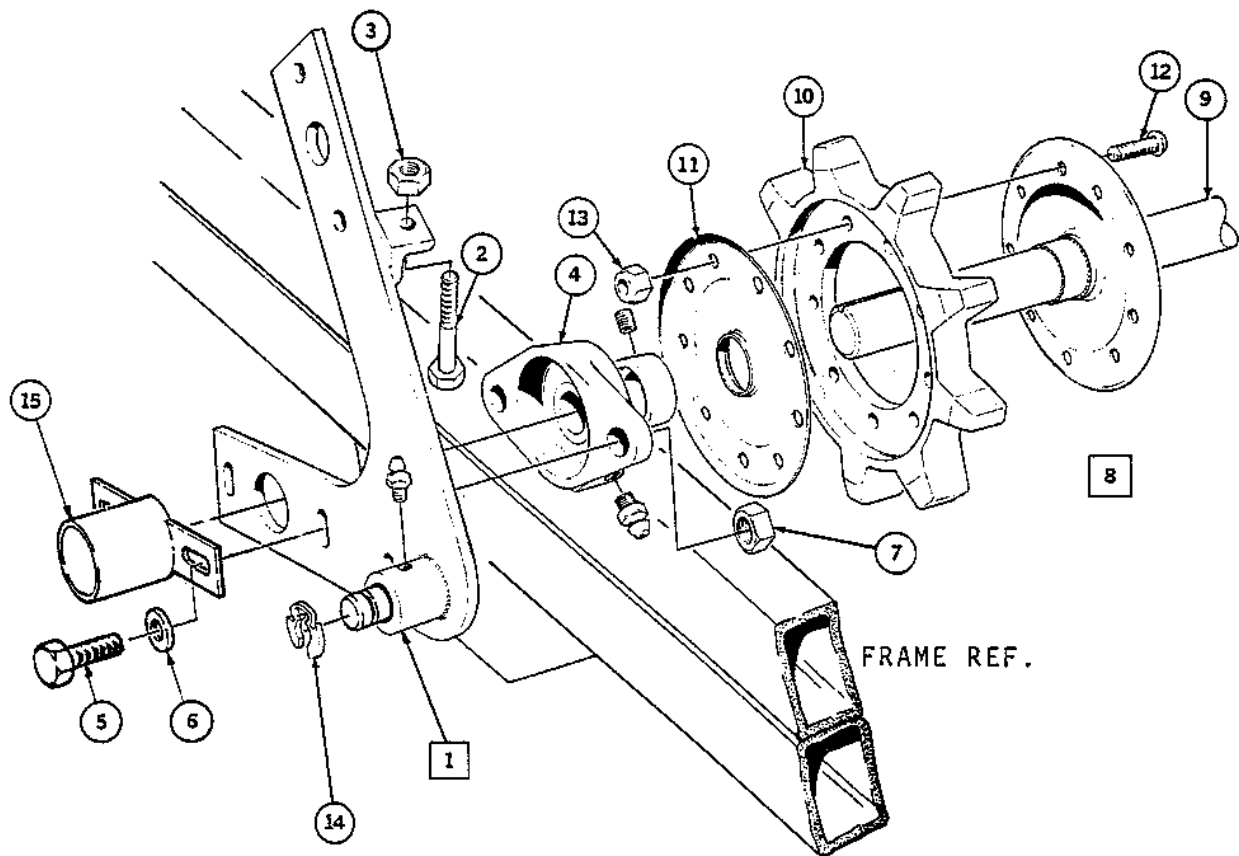
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Mid-Idler Assembly, 16/18" Rubber

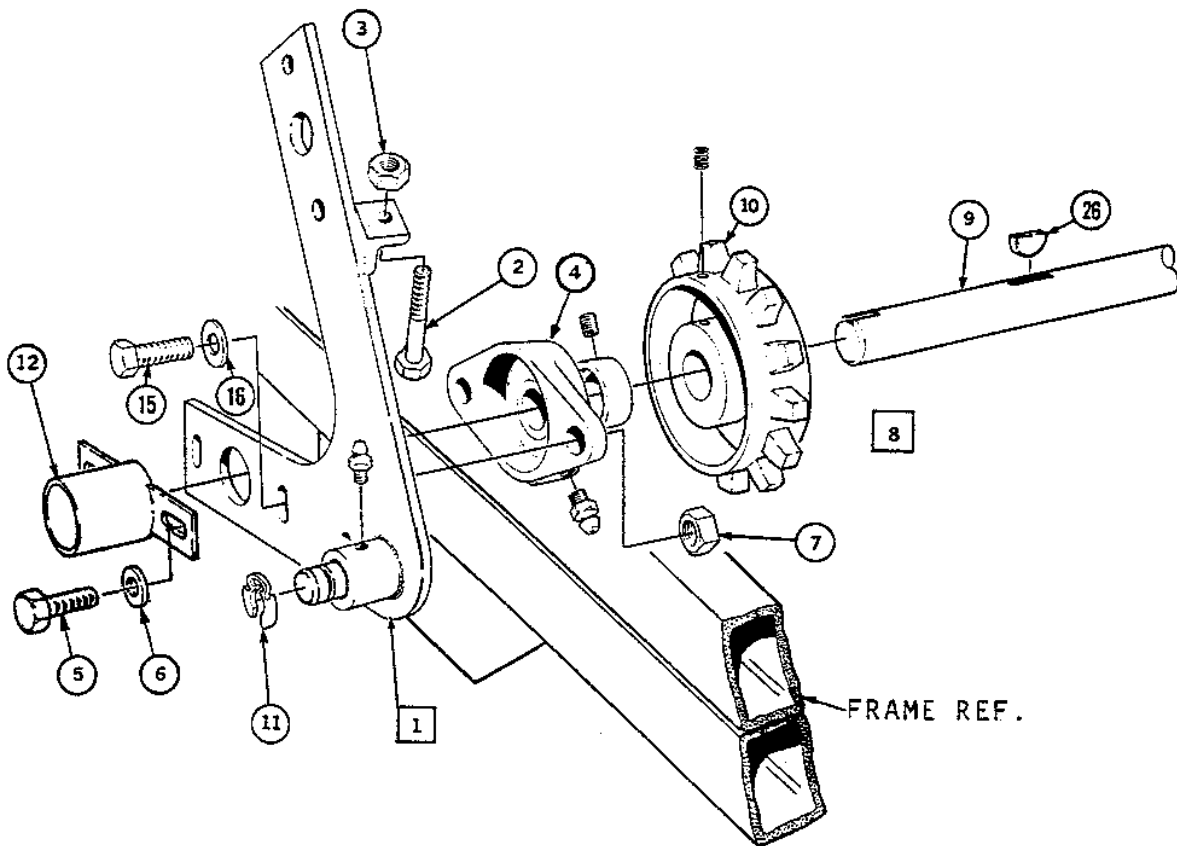
9-2

Mid-Idler Assembly, Mintex

9-4



| <b>Ref</b> | <b>Part no.</b> | <b>Description</b>           | <b>Quantity</b> |
|------------|-----------------|------------------------------|-----------------|
| 1          | A03041          | ASSY., MID IDLER ARM RH      | 1               |
|            | A03042          | ASSY., MID IDLER ARM LH      | 1               |
|            | 29-010          | GREASE FITTING, 1/4 SHORT    | 1               |
| 2          | 90-0620         | BOLT, 3/8 X 2-1/2            | 1               |
| 3          | 92-06           | NUT, 3/8                     | 1               |
| 4          | B0105           | BEARING, 3/4" FLANGE         | 2               |
| 5          | 90-0610         | BOLT, 3/8 X 1-1/4            | 4               |
| 6          | 94-06           | FLAT WASHER, 3/8             | 4               |
| 7          | 99-E40          | LOCKNUT, NYLON 3/8           | 4               |
| 8          | A03109          | ASSY., 4" ROLLER DRIVE/IDLER | 1               |
|            | A03254          | ASSY., 4" ROLLER DRIVE/IDLER | 1               |
| 9          | 014044          | SHAFT, IDLER 16"             | 1               |
|            | 014128          | SHAFT, IDLER 24"             | 1               |
| 10         | D1953           | SPROCKET, URETHANE 9 TOOTH   | 2               |
| 11         | D8001           | FLANGE, SPROCKET             | 2               |
| 12         | 99-K06          | BOLT, 1/4 X 3/4 SL RD HD     | 18              |
| 13         | 99-E39          | LOCKNUT, NYLON 1/4           | 18              |
| 14         | G1520           | SNAP RING, EXTERNAL          | 2               |
| 15         | 015558          | IDLER SHAFT GUARD            | 1               |



| <b>Ref</b> | <b>Part no.</b> | <b>Description</b>                | <b>Quantity</b> |
|------------|-----------------|-----------------------------------|-----------------|
| 1          | A03041          | ASSY., MID IDLER ARM RH           | 1               |
|            | A03042          | ASSY., MID IDLER ARM LH           | 1               |
|            | 29-010          | GREASE FITTING, 1/4 SHORT         | 2               |
| 2          | 90-0620         | BOLT, 3/8 X 2-1/2                 | 1               |
| 3          | 92-06           | NUT, 3/8                          | 1               |
| 4          | B0105           | BEARING, 3/4" FLANGE              | 2               |
| 5          | 90-0612         | BOLT, 3/8 X 1-1/2                 | 4               |
| 6          | 94-06           | FLAT WASHER, 3/8                  | 4               |
| 7          | 99-E40          | LOCKNUT, NYLON 3/8                | 4               |
| 8          | A03012          | ASSY., 4" ROLLER DRIVE            | 1               |
|            | A03013          | SHAFT ASSY., 4" ROLLER DRV./IDLER | 1               |
| 9          | 001406          | SHAFT, IDLER 16-18"               | 1               |
|            | 001407          | SHAFT, DRIVE- 4" ROLLER           | 1               |
| 10         | 001576          | SPROCKET, 4" CAST                 | 2               |
|            | 85-SS14         | SET SCREW, 3/8 X 3/8 SKTHD        | 2               |
| 11         | G1520           | SNAP RING, EXTERNAL F/ 5/8"       | 2               |
| 12         | 015558          | IDLER SHAFT GUARD                 | 1               |

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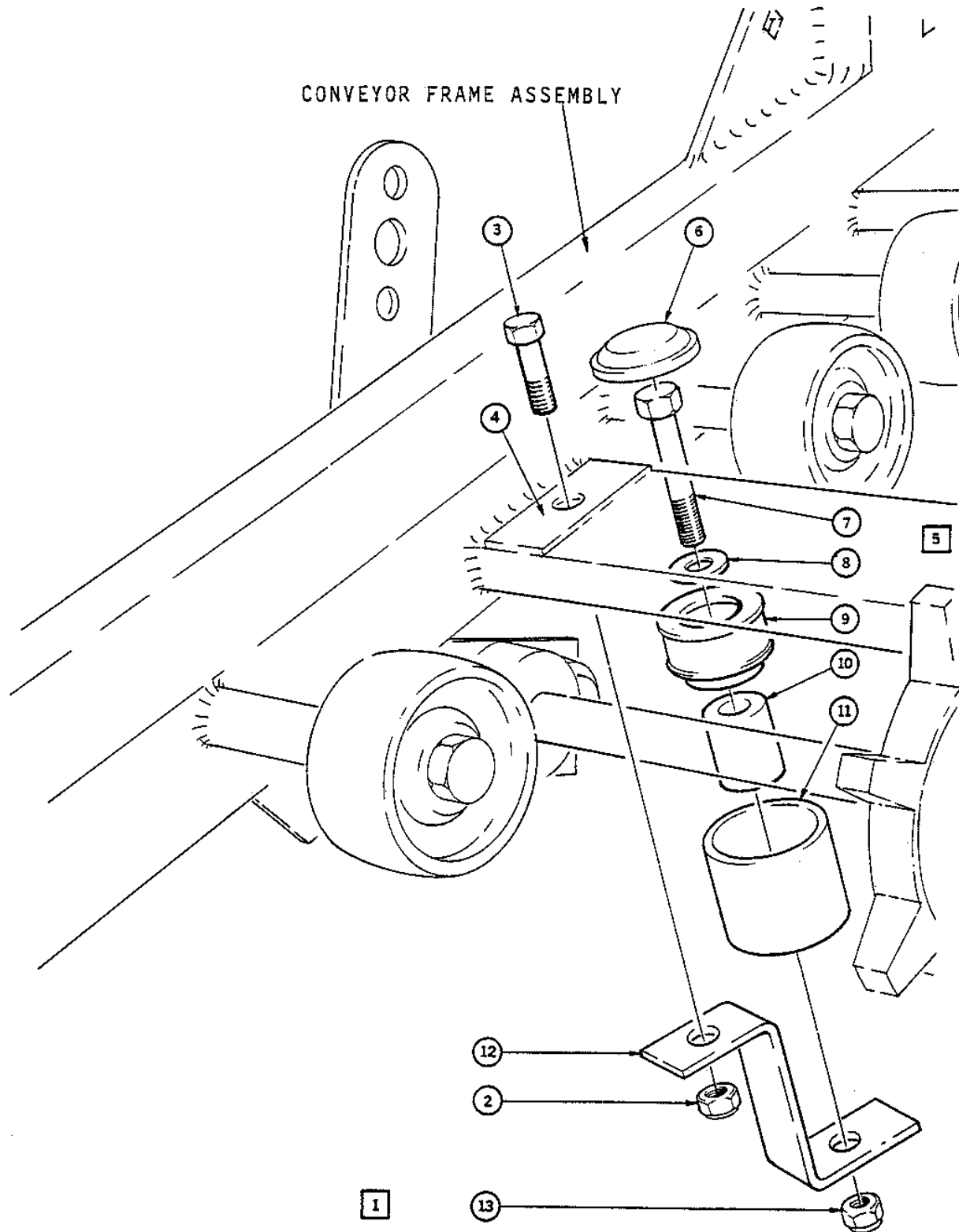
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Side Idler, 16" Rubber

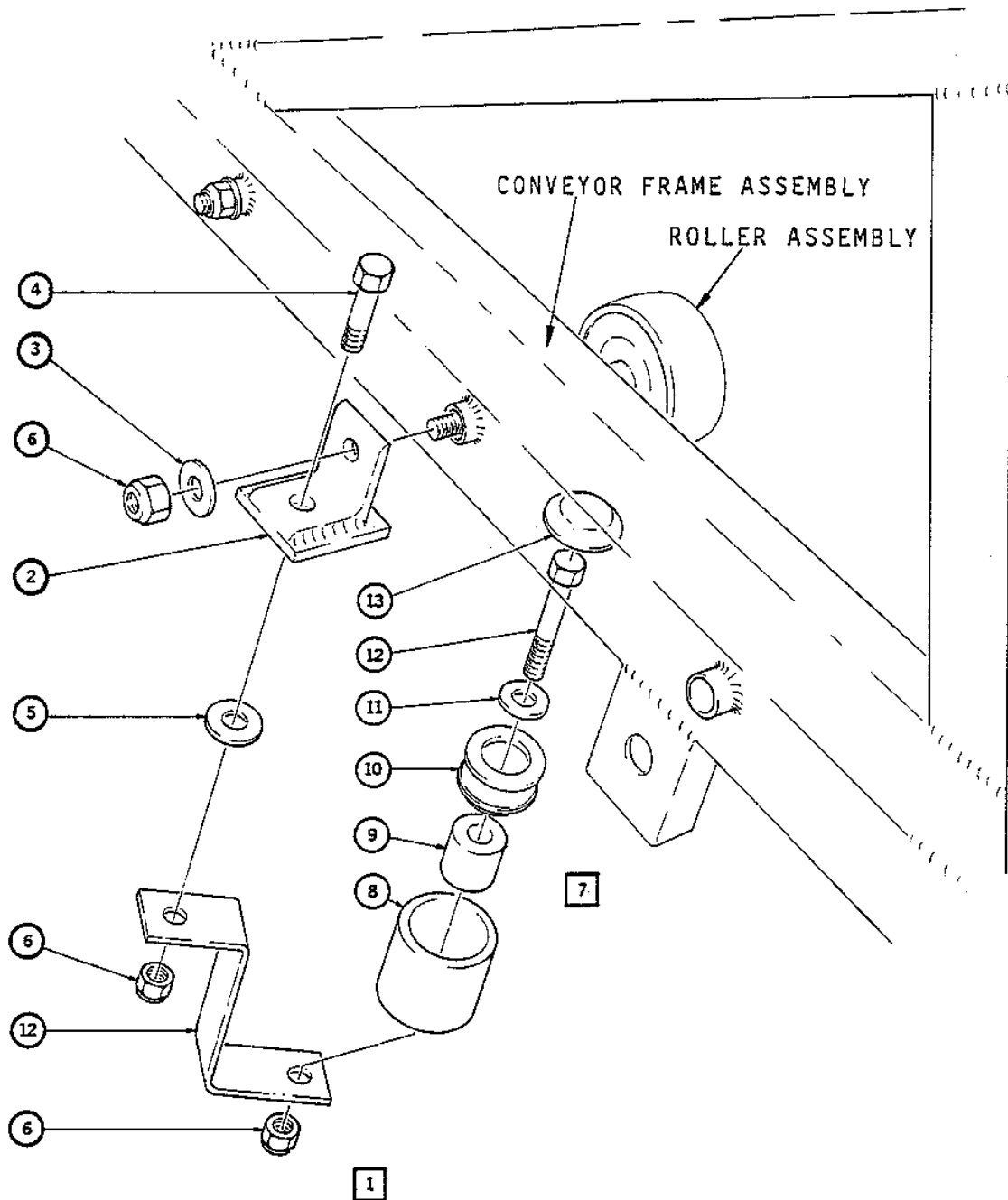
10-2

Side Idler, 18" Rubber

10-4

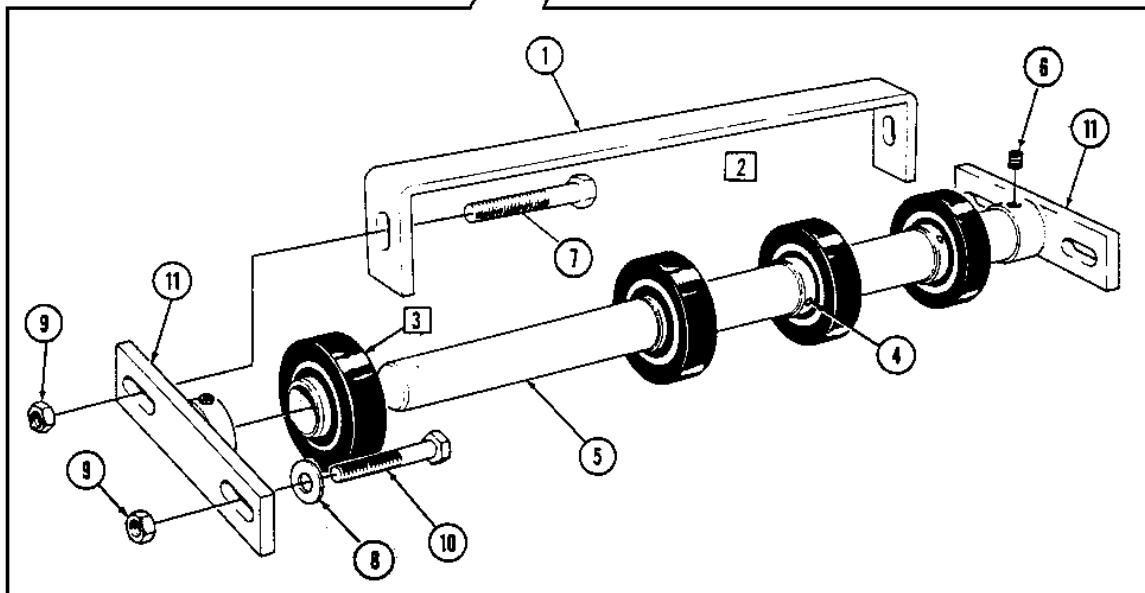
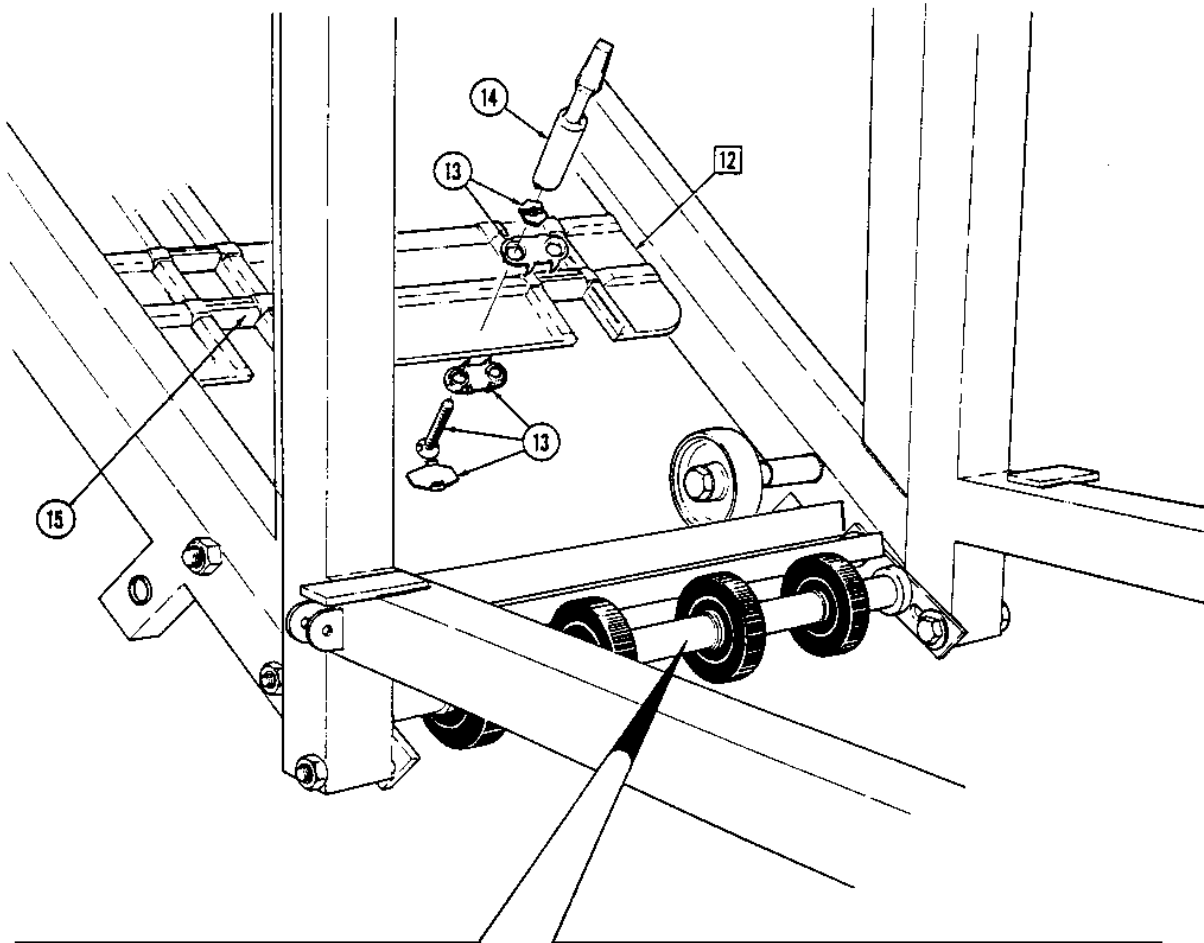


| <b>Ref</b> | <b>Part no.</b> | <b>Description</b>               | <b>Quantity</b> |
|------------|-----------------|----------------------------------|-----------------|
| 1          | REF             | SIDE IDLER ASSEMBLY - 16" RUBBER |                 |
| 2          | 99-E41          | LOCKNUT, NYLON 1/2               | 2               |
| 3          | 90-0820         | BOLT, 1/2 X 2-1/2                | 1               |
| 4          | 014126          | PLATE                            | 1               |
| 5          | A03216          | ASSY., SIDE IDLER                | 1               |
| 6          | 06-043          | CAP, PLUG 2"                     | 1               |
| 7          | 90-0824         | BOLT, 1/2 X 3                    | 1               |
| 8          | 94-08           | FLAT WASHER, 1/2                 | 1               |
| 9          | B2022           | BEARING, BALL 1" (SETSCREW)      | 1               |
| 10         | 101317          | BUSHING                          | 1               |
| 11         | 101313          | 2-1/2" IDLER SHELL               | 1               |
| 12         | 014124          | BRACKET, BELT GUIDE              | 1               |
| 13         | 99-E41          | LOCKNUT, NYLON 1/2               | 1               |



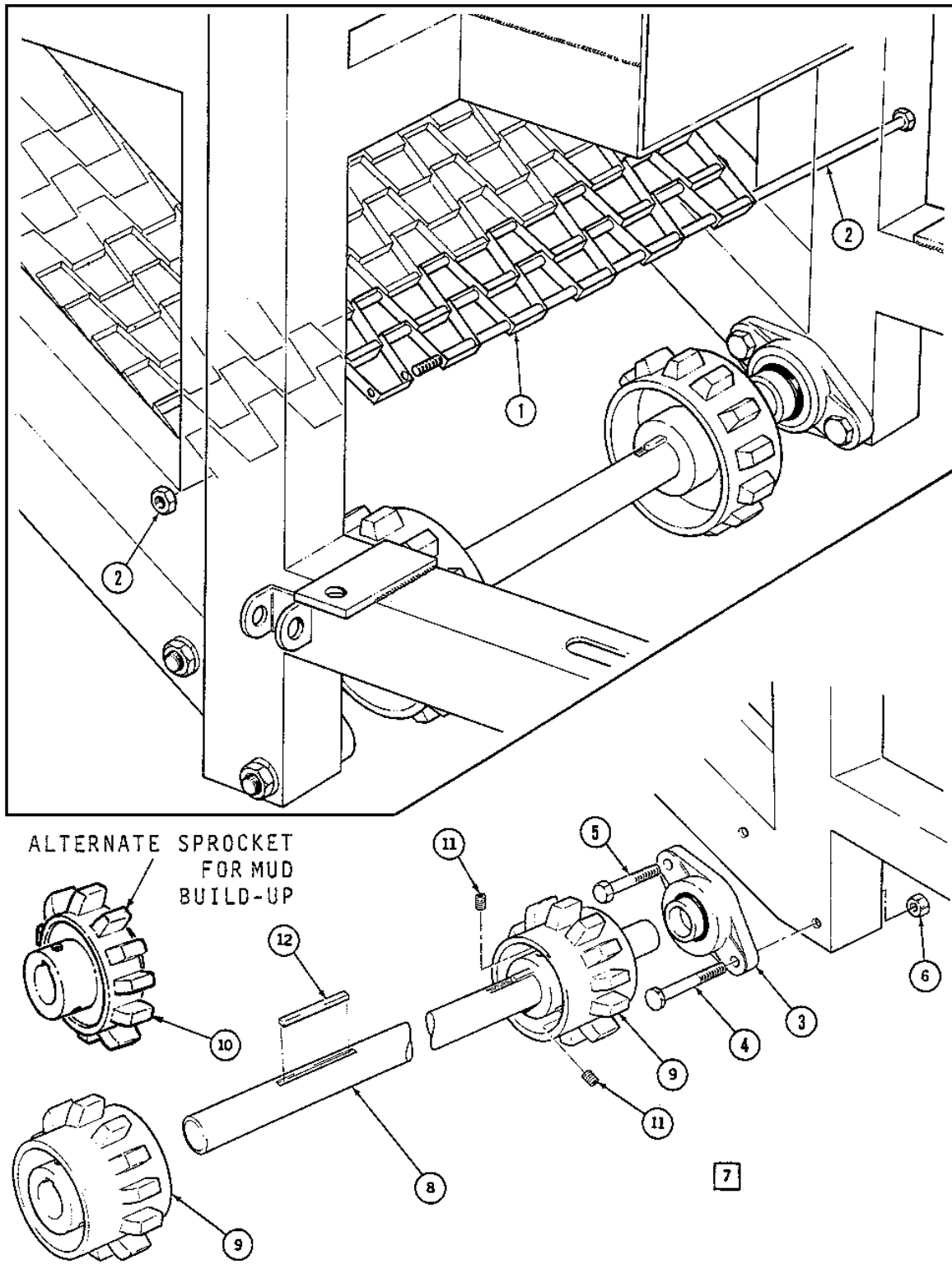
| <b>Ref</b> | <b>Part no.</b> | <b>Description</b>               | <b>Quantity</b> |
|------------|-----------------|----------------------------------|-----------------|
| 1          | REF             | SIDE IDLER ASSEMBLY - 16" RUBBER |                 |
| 2          | 014127          | DRAWING, IDLER BRACKET           | 1               |
| 3          | 015887          | DRAWING, SPACER                  | 1               |
| 4          | 90-0814         | BOLT, 1/2 X 1-3/4                | 1               |
| 5          | F5052           | WASHER, FLAT 1/2" SAE GR.9       | 1               |
| 6          | 99-E41          | LOCKNUT, NYLON 1/2               | 2               |
| 7          | A03216          | ASSY., SIDE IDLER                | 1               |
| 8          | 101313          | 2-1/2" IDLER SHELL               | 1               |
| 9          | 101317          | BUSHING                          | 1               |
| 10         | B2022           | BEARING, BALL 1" (SETSCREW)      | 1               |
| 11         | 94-08           | FLAT WASHER, 1/2                 | 1               |
| 12         | 90-0824         | BOLT, 1/2 X 3                    | 1               |
| 13         | 06-043          | CAP, PLUG 2"                     | 1               |
| 14         | 014124          | BRACKET, BELT GUIDE              | 1               |
| 15         | 99-E41          | LOCKNUT, NYLON 1/2               | 1               |

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| Mintex Conveyor & Idler Shaft                 | 11-4 |



| <b>Ref</b> | <b>Part no.</b> | <b>Description</b>             | <b>Quantity</b> |
|------------|-----------------|--------------------------------|-----------------|
| 1          | 015617          | IDLER, SCRAPER                 | 1               |
| 2          | A03505          | FRONT IDLER ASSY. 16"/18"      | 1               |
| 3          | A03184          | ASSY., IDLER                   | 4               |
| 4          | F1606           | SETSCREW, HEX SOCKET           | 4               |
| 5          | 014072          | SHAFT, FRONT IDLER             | 1               |
| 6          | F2608           | SET SCREW, 5/16 X 5/16         | 2               |
| 7          | 90-0718         | BOLT, 7/16 X 2-1/4             | 2               |
| 8          | 94-07           | FLAT WASHER, 7/16              | 2               |
| 9          | F4003           | LOCKNUT, NYLON 7/16            | 4               |
| 10         | 90-0724         | BOLT, 7/16 X 3                 | 2               |
| 11         | 014073          | BOSS, FLANGED - IDLER SHAFT    | 2               |
| 12         | A03479          | ASSY., RUBBER BELT 16"         | 1               |
|            | A03480          | ASSY., RUBBER BELT -18" X 214" | 1               |
| 13         | G8008           | MAT SPLICER                    | 4               |
| 14         | M5016           | NUT DRIVER - FLEXC0            | 1               |
| 15         | M5103           | CLIP, TRACK (WIDE)             | A/R             |

NOTE: Conversion Kits are available to change from  
Mintex to Rubber Belt  
A03171 - 16" (Slabber)  
A03172 - 18" (Slabber)  
A03239 - 16" (Rolling)  
A03240 - 18" (Rolling)



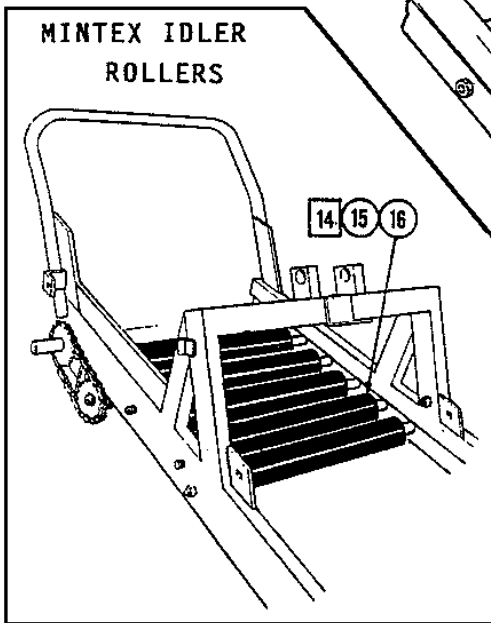
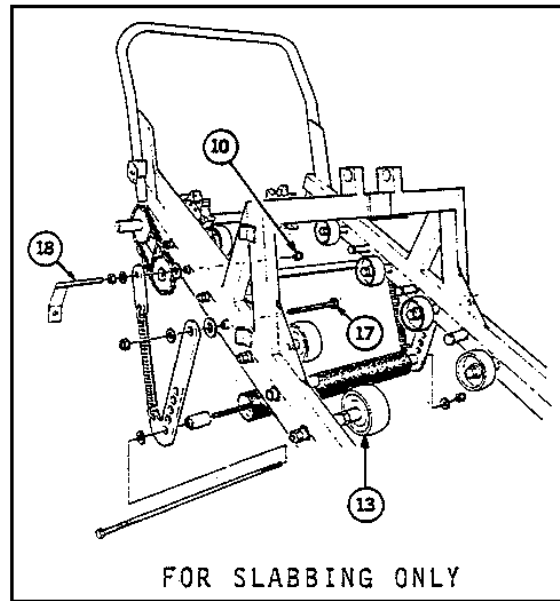
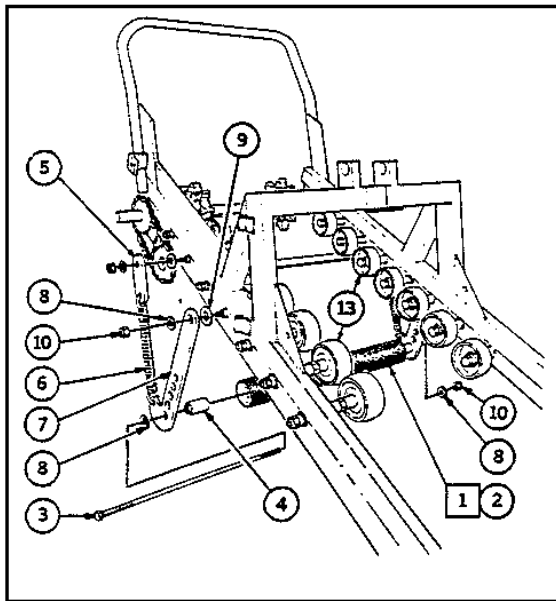
| <b>Ref</b> | <b>Part no.</b> | <b>Description</b>                    | <b>Quantity</b> |
|------------|-----------------|---------------------------------------|-----------------|
| 1          | 001510          | BELT, MINTEX CONVEYOR 16"             | 1               |
|            | 001511          | BELT, MINTEX CONVEYOR 18"             | 1               |
|            | 001512          | BELT, MINTEX CONVEYOR 24"             | 1               |
| 2          | A03485          | ASSY., MAT CONNECTOR - 16"            | 1               |
|            | A03487          | ASSY., MAT CONNECTOR                  | 1               |
|            | A03484          | ASSY., MAT CONNECTOR-24"              | 1               |
| 3          | 55-FB23016      | BEARING, 2-BOLT FLANGE 1"             | 2               |
| 4          | 90-0728         | BOLT, 7/16 X 3-1/2 (16")              | 2               |
|            | 015459          | MOD, BOLT (18/24")                    | 2               |
| 5          | 90-0720         | BOLT, 7/16 X 2-1/2                    | 2               |
| 6          | F4003           | LOCKNUT, NYLON 7/16                   | 4               |
| 7          | A03036          | ASSY., MINTEX CONVEYOR IDLER (16/18") | 1               |
|            | A03038          | ASSY., MINTEX CONVEYOR (24")          | 1               |
| 8          | 001346          | SHAFT, CONVEYOR IDLER                 | 1               |
|            | 001347          | IDLER SHAFT, CONVEYOR 24"             | 1               |
| 9          | 001348          | SPROCKET, CONVEYOR 4" CAST (16/18")   | 2               |
|            | 001348          | SPROCKET, CONVEYOR 4" CAST (24")      | 3               |
| 10         | 014058          | SPROCKET, THIN (16/18")(OPTIONAL)     | 2               |
|            | 014058          | SPROCKET, THIN (24")(OPTIONAL)        | 3               |
| 11         | 85-SS14         | SET SCREW, 3/8 X 3/8 SKTHD (16/18")   | 4               |
|            | 85-SS14         | SET SCREW, 3/8 X 3/8 SKTHD (24")      | 6               |
| 12         | 124422          | KEY, 1/4 X 1/4 X 1-3/8 (16/18")       | 2               |
|            | 124422          | KEY, 1/4 X 1/4 X 1-3/8 (24")          | 3               |

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Sod Guides, Conveyor Tensioner & Rollers

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NOTE:  
WHEN USING  
SOD GUIDES  
6 REGULAR  
LOCKNUTS  
ARE REPLACED  
WITH 6 THIN  
LOCKNUTS.

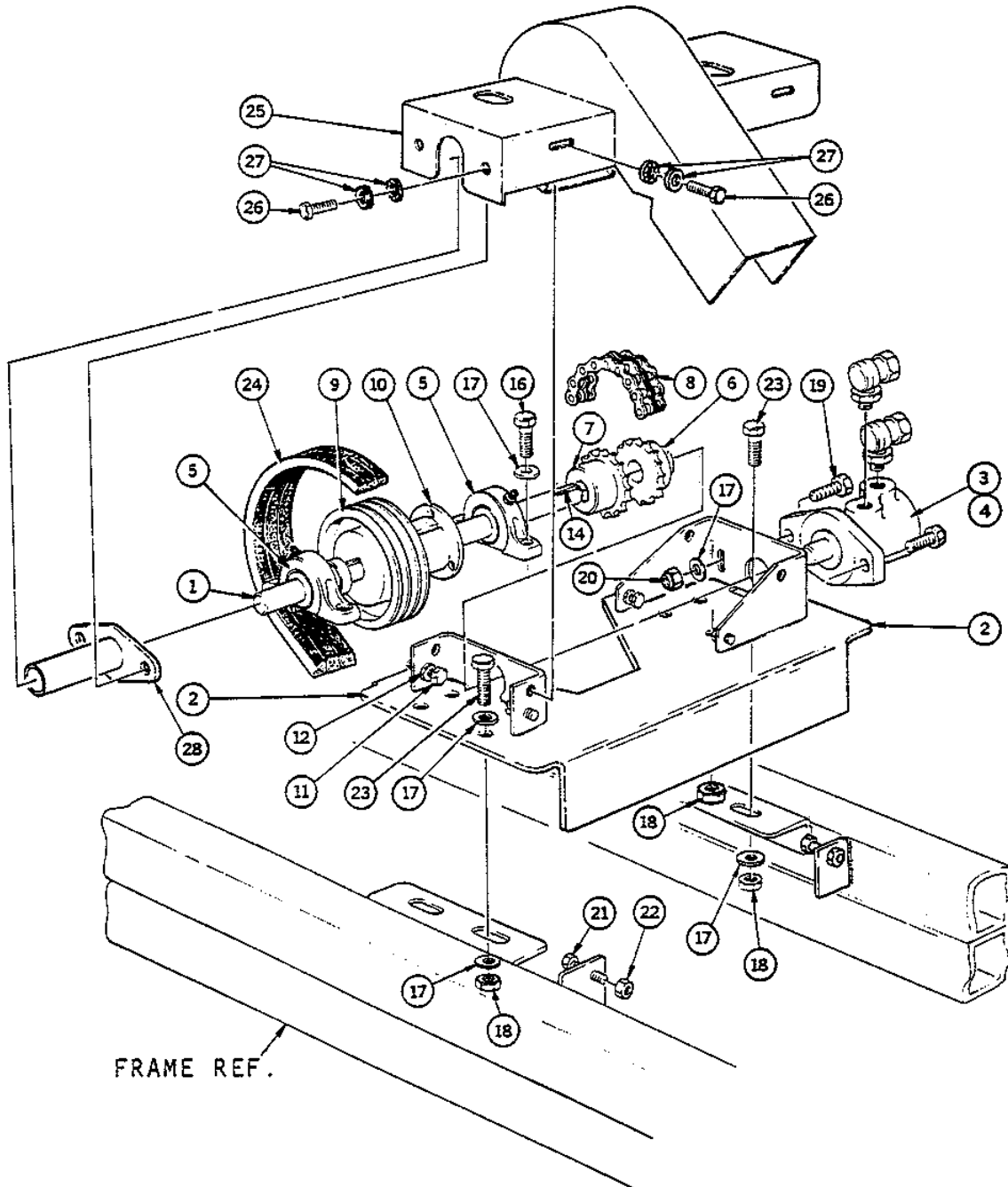
| <b>Ref</b> | <b>Part no.</b> | <b>Description</b>                                            | <b>Quantity</b> |
|------------|-----------------|---------------------------------------------------------------|-----------------|
| 1          | A03014          | ASSY., MINTEX CONVEYOR (16/18")                               | 1               |
|            | A03015          | ROLLER, MINTEX CONVEYOR (24")                                 | 1               |
| 2          | B2025           | BEARING, BALL 7/16 HEX SHAFT                                  | 2               |
| 3          | 014824          | SHAFT, WELDED ASSEMBLY (16/18")                               | 1               |
|            | 015698          | SHAFT, WELDED ASSEMBLY                                        | 1               |
| 4          | 015874          | ROLLER SPACER                                                 | 2               |
| 5          | 015877          | SPRING HOLDER                                                 | 2               |
| 6          | S2003           | SPRING, EXTENSION                                             | 2               |
| 7          | 015873          | IDLER BRACKET                                                 | 2               |
| 8          | F5054           | WASHER, MACH. 1/2 X 7/8 X .032                                | 2               |
| 9          | 102324          | MACH. WASHER 3/4 X 1-1/8                                      | 4               |
| 10         | 99-E41          | LOCKNUT, NYLON 1/2                                            | 30              |
|            | F5012           | NUT, JAM NYLON INSERT (SLABBING)                              | 6               |
| 11         | 014944          | SOD GUIDE LH                                                  | 1               |
| 12         | 014943          | SOD GUIDE RH                                                  | 1               |
| 13         | 014940          | ROLLER, RUBBER BELTED (ROLLING)                               | 26              |
|            | 014940          | ROLLER, RUBBER BELTED (SLABBING)                              | 20              |
| 14         | A03014          | ASSY, MINTEX CONVEYOR (16/18")(ROLLING)                       | 26              |
|            | A03014          | ASSY, MINTEX CONVEYOR (16/18")(SLABBING)                      | 20              |
|            | A03015          | ROLLER, MINTEX CONVEYOR (24")(ROLLING)                        | 26              |
|            | A03015          | ROLLER, MINTEX CONVEYOR (24")(SLABBING)                       | 20              |
| 15         | B2025           | BEARING, BALL 7/16 HEX SHAFT                                  | 2               |
| 16         | 014824          | SHAFT, WELDED ASSEMBLY (16/18")(ROLLING)                      | 26              |
|            | 014824          | SHAFT, WELDED ASSEMBLY (16/18")(SLABBING)                     | 20              |
|            | 015698          | SHAFT, WELDED ASSEMBLY (24")(ROLLING)                         | 26              |
|            | 015698          | SHAFT, WELDED ASSEMBLY (24")(SLABBING)                        | 20              |
| 17         | 90-0832         | BOLT, 1/2 X 4                                                 | 4               |
| 18         | REF             | FRONT GUARD ADJ. MOUNT ASSY.<br>(SEE CURVED CONVEYOR, REF. 8) |                 |

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Cutter Drive Assembly, 16" 18"& 24"

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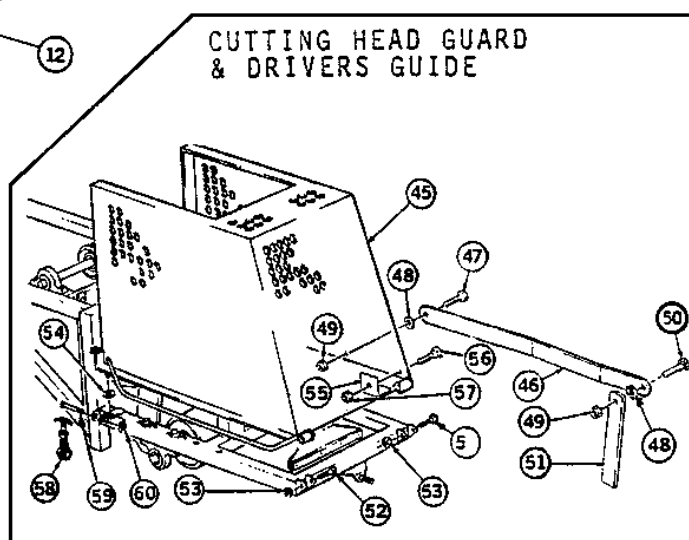
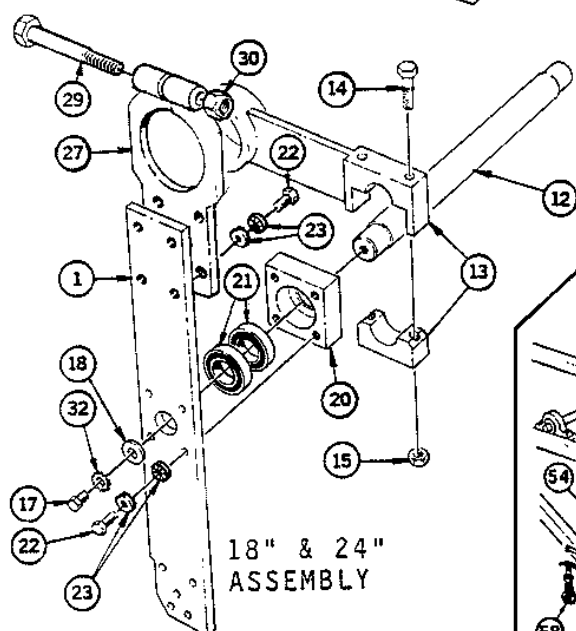
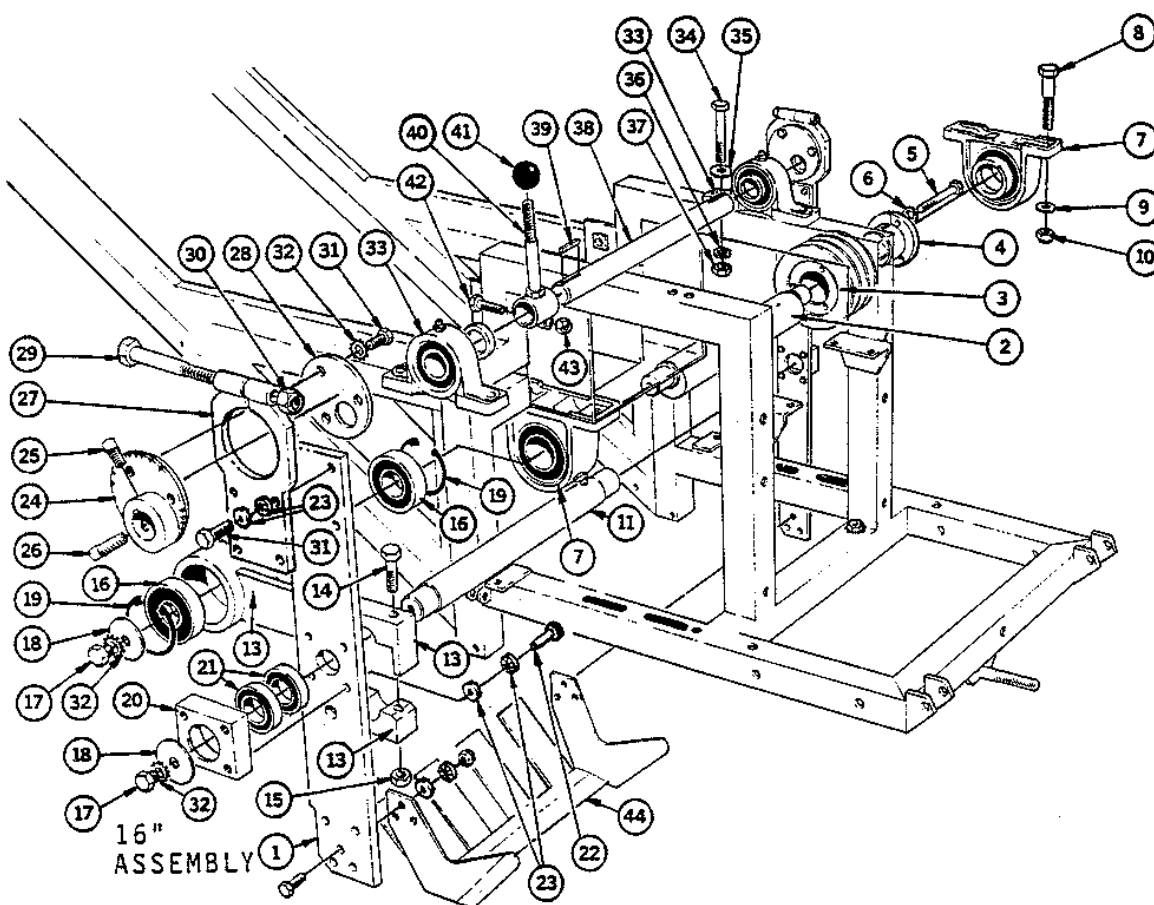


| <b>Ref</b> | <b>Part no.</b> | <b>Description</b>                      | <b>Quantity</b> |
|------------|-----------------|-----------------------------------------|-----------------|
| 1          | 015222          | SHAFT, HYDRAULIC MOTOR (16/18") (Long)  | 1               |
|            | 001574          | SHAFT, HYDRAULIC MOTOR (16/18") (Short) | 1               |
|            | 015525          | SHAFT, HYDRAULIC MOTOR (24") (Long)     | 1               |
|            | 001575          | SHAFT, HYDRAULIC MOTOR (24") (Short)    | 1               |
| 2          | 016076          | FRAME, CRANKSHAFT DRIVE W/A (16/18")    | 1               |
|            | 016077          | FRAME, CRANKSHAFT W/A (24")             | 1               |
| 3          | H0020           | MOTOR, HYDRAULIC                        | 1               |
| 4          | E3038           | KIT, SEAL FOR H0020                     | 1               |
|            | 124418          | KEY, 1/4" X 1/4" X 1-1/8" LG            | 1               |
| 5          | B1003           | BEARING, PILLOW BLOCK; -1-1/8" (16/18") | 2               |
|            | B1004           | BEARING, PILLOW BLOCK 1-1/4" (24")      | 2               |
| 6          | D4006           | COUPLING SPROCKET                       | 1               |
| 7          | D4007           | SPROCKET, COUPLING (16/18")             | 1               |
|            | D4008           | COUPLING SPROCKET (24")                 | 1               |
| 8          | D4004           | COUPLING CHAIN                          | 1               |
|            | D1004           | #40-2 DOUBLE CONNECTING LINK            | 1               |
| 9          | D2721           | SHEAVE, TAPER LOCK 3TB80                | 1               |
| 10         | D3010           | BUSHING, SPLIT TAPER LOCK               | 1               |
| 11         | F3207           | BOLT, 3/8 X 1-1/4                       | 4               |
| 12         | 92-16           | NUT, 3/8                                | 4               |
| 14         | 124422          | KEY, 1/4 X 1/4 X 1-3/8                  | 1               |
| 15         | 124444          | KEY, 1/4" X 1/4" X 2-3/4" LG            | 1               |
| 16         | 90-0714         | BOLT, 7/16 X 1-3/4                      | 4               |
| 17         | F5052           | WASHER, FLAT 1/2" SAE GR.9              | 12              |
| 18         | F4003           | LOCKNUT, NYLON 7/16                     | 8               |
| 19         | F5213           | BOLT, 1/2 X 2                           | 2               |
| 20         | 99-E41          | LOCKNUT, NYLON 1/2                      | 2               |
| 21         | 90-0616         | BOLT, 3/8 X 2                           | 2               |
| 22         | 92-06           | NUT, 3/8-16                             | 2               |
| 23         | 90-0712         | BOLT, 7/16 X 1-1/2                      | 4               |
| 24         | 81-B054         | BELT, B54                               | 3               |
| 25         | 016082          | GUARD, PULLEY - CRANKSHAFT (16/18")     | 1               |
|            | 016083          | GUARD (24")                             | 1               |
| 26         | 90-0606         | BOLT, 3/8 X 3/4                         | 6               |
| 27         | F3078           | WASHER, DISC LOCK 3/8                   | 6               |
| 28         | 016096          | GUARD, SHAFT EXTENSION                  | 1               |

NOTE: NOT REQUIRED WITH ROTARY BRUSH

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| Crankshaft & Cutting Head Assy.                 | 14-2        |
| Crankshaft & Cutting Head Assy. (Rosta Con Rod) | 14-2        |

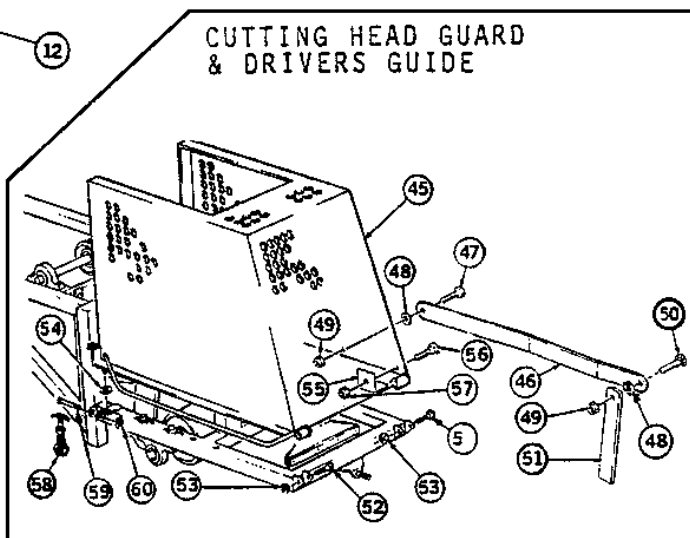
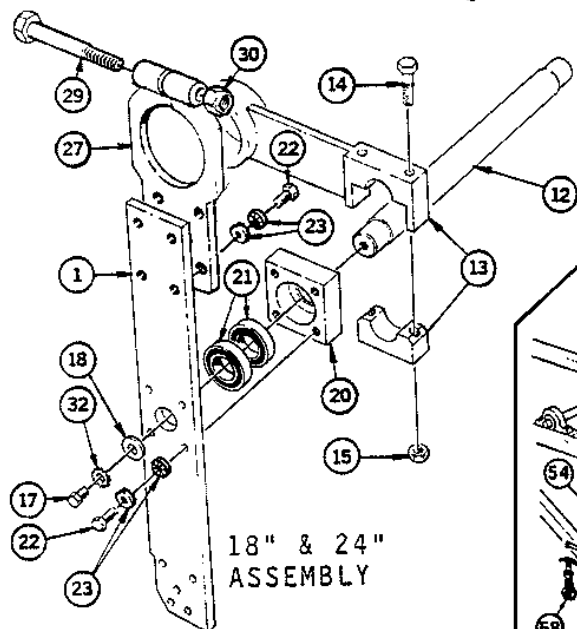
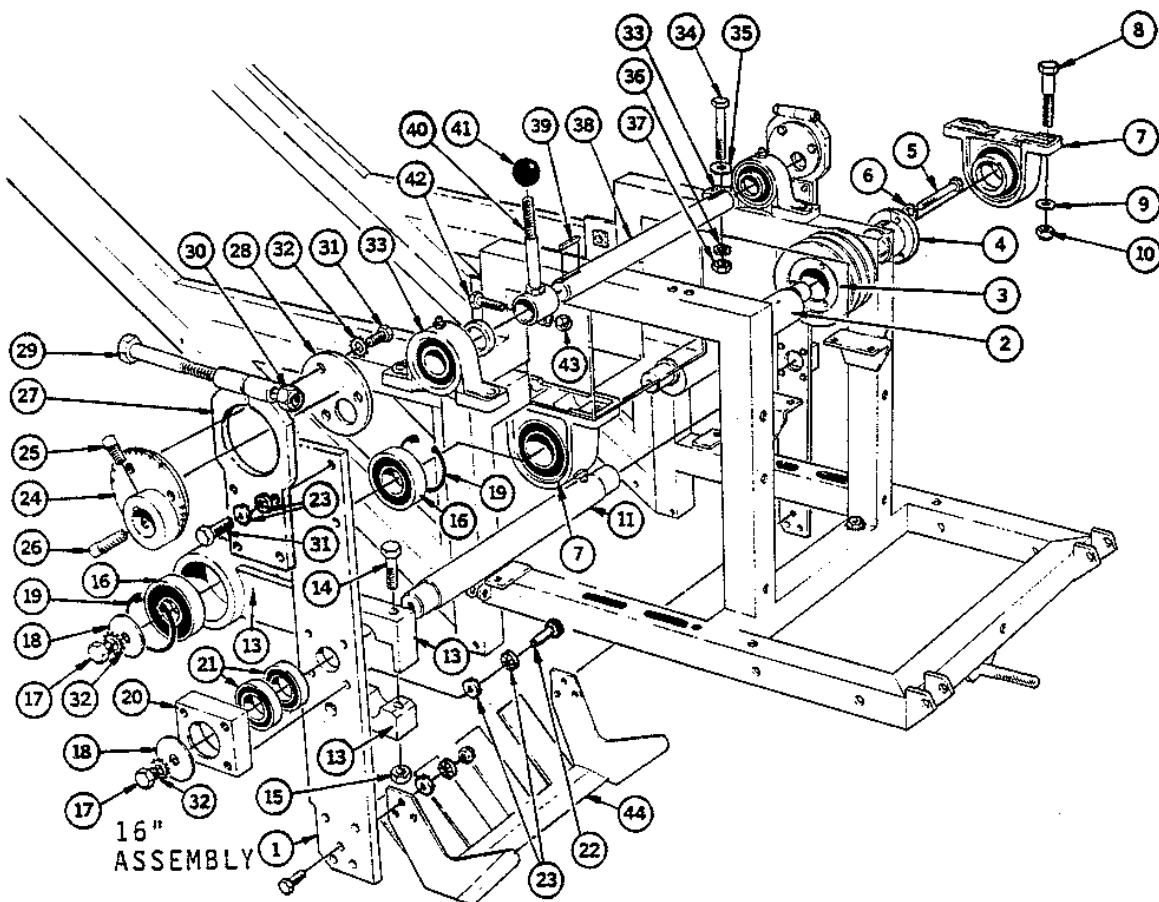
# CRANKSHAFT & CUTTING HEAD ASSY. section 14



# CRANKSHAFT & CUTTING HEAD ASSY. section 14

| Ref | Part no.  | Description                            | Quantity |
|-----|-----------|----------------------------------------|----------|
| 1   | A03533    | CUTTING BLADE ARM (PAIR OF 2)          | 1        |
| 2   | 001287    | CRANKSHAFT, STANDARD 16/18"            | 1        |
|     | 001288    | CRANKSHAFT, STANDARD 24"               | 1        |
| 3   | 83-3B46SD | PULLEY, 4.5" 3 GROOVE F/SD HUB         | 1        |
| 4   | D3021     | BUSHING, SPLIT TAPER LOCK SD2          | 1        |
| 5   | 90-0416   | BOLT, 1/4 X 2                          | 3        |
| 6   | F1076     | WASHER, DISC LOCK                      | 3        |
| 7   | B1120     | BEARING, PILLOW BLOCK:-2"              | 2        |
| 8   | 90-1020   | BOLT, 5/8 X 2-1/2                      | 4        |
| 9   | F6051     | WASHER, FLAT 5/8" ID                   | 4        |
| 10  | 99-E42    | LOCKNUT, NYLON 5/8                     | 4        |
| 11  | 001525    | SHAFT, WRIST- 16"                      | 1        |
| 12  | 001526    | SHAFT, WRIST- 18"                      | 1        |
| 13  | 001692    | SPLIT CONNECTING ROD                   | 2        |
| 14  | 90-0720   | BOLT, 7/16 X 2-1/2                     | 4        |
| 15  | F4003     | LOCKNUT, NYLON 7/16                    | 4        |
| 16  | B2015     | BEARING, BALL:-25MM(.9843 SH)          | 4        |
| 17  | 90-0604   | BOLT, 3/8 X 1/2                        | 4        |
| 18  | 99-B16    | WASHER, FENDER 3/8" X 1-1/2 OD         | 4        |
|     | 94-06     | FLAT WASHER, 3/8 (18/24" WRIST SHAFTS) | 2        |
| 19  | G1002     | RETAINING RING, INTERNAL               | 4        |
| 20  | 001281    | WRISTSHAFT MOUNTING BLOCK              | 2        |
| 21  | B2014     | BEARING, BALL-25MM                     | 4        |
| 22  | 90-0608   | BOLT, 3/8 X 1                          | 10       |
| 23  | F3076     | WASHER, DISC LOCK 3/8                  | 10       |
| 24  | 001318    | ECC. ADJUSTMENT                        | 2        |
| 25  | F3602     | SCREW, SQ HD SET CUP POINT             | 2        |
| 26  | F3603     | SET SCREW, 3/8 X 3/4 SQHD              | 2        |
| 27  | 001317    | PLATE, ECCENTRIC ADJUSTMENT            | 2        |
| 28  | 001320    | ECC ADJUSTMENT COVER PLATE             | 2        |
| 29  | 90-0832   | BOLT, 1/2 X 4                          | 2        |
| 30  | 99-E41    | LOCKNUT, NYLON 1/2                     | 2        |
| 31  | 90-0608   | BOLT, 3/8 X 1                          | 19       |
| 32  | 99-G04    | SHAKEPROOF WASHER, 3/8"                | 13       |
| 33  | B1109     | BEARING, PILLOW BLOCK: -1-1/8"         | 2        |
| 34  | 90-0728   | BOLT, 7/16 X 3-1/2                     | 4        |
| 35  | F5052     | WASHER, FLAT 1/2" SAE GR.9             | 4        |
| 36  | F4076     | WASHER, DISC LOCK                      | 4        |
| 37  | 92-07     | NUT, 7/16                              | 4        |
| 38  | 001323    | SHAFT, ECCENTRIC ADJUSTMENT (16/18")   | 1        |
| 39  | 124422    | KEY, 1/4 X 1/4 X 1-3/8                 | 2        |
| 40  | 001321    | CUTTING BLADE ADJUSTMENT               | 1        |
| 41  | M5001     | PLASTIC KNOB                           | 1        |
| 42  | 90-0612   | BOLT, 3/8 X 1-1/2                      | 1        |
| 43  | 99-E40    | LOCKNUT, NYLON 3/8                     | 1        |
| 44  | REF       | SEE CUTTING BLADE OPTIONS              |          |
| 45  | 015452    | HEAD GUARD (16/18")                    | 1        |
|     | 015454    | HEAD GUARD (24")                       | 1        |

# CRANKSHAFT & CUTTING HEAD ASSY. section 14

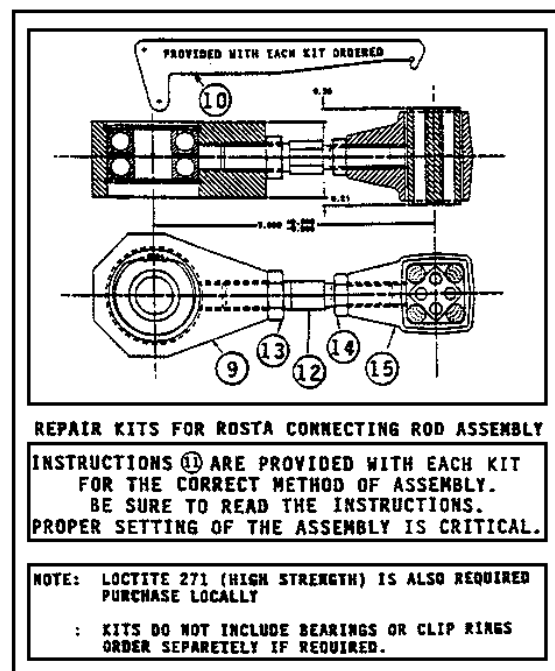
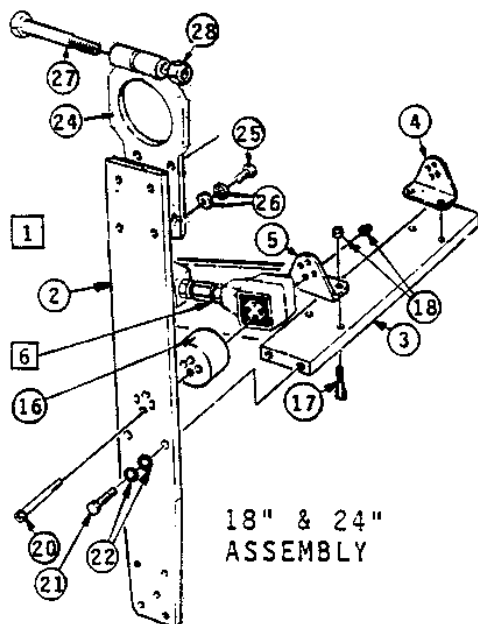
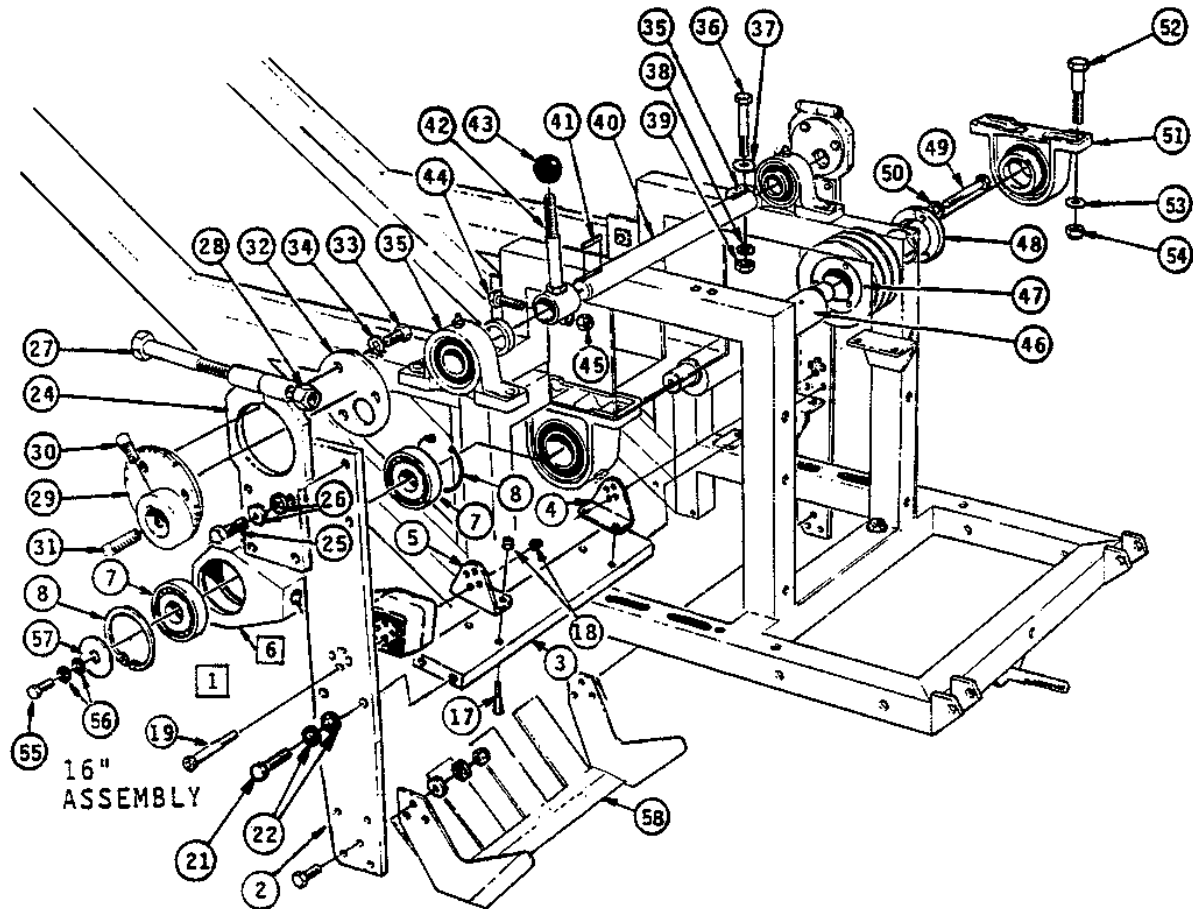


# **CRANKSHAFT & CUTTING HEAD ASSY.      section 14**

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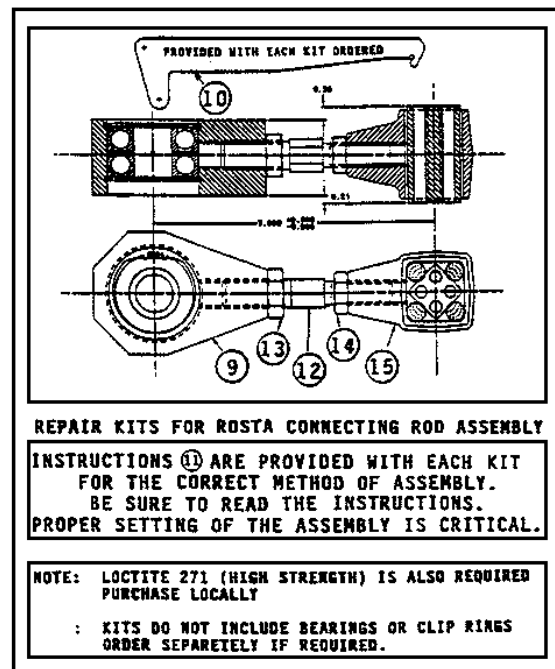
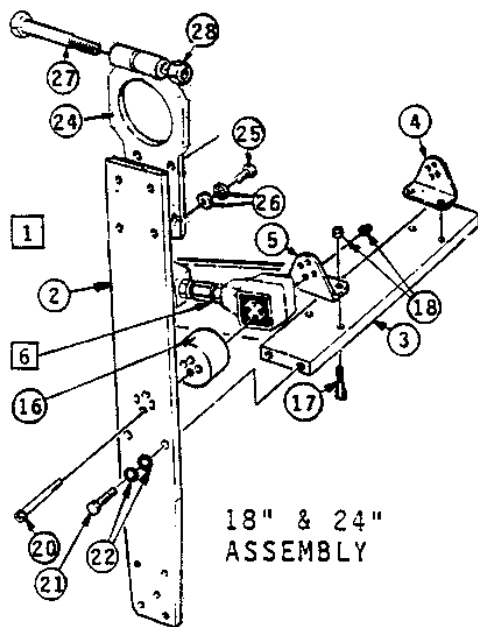
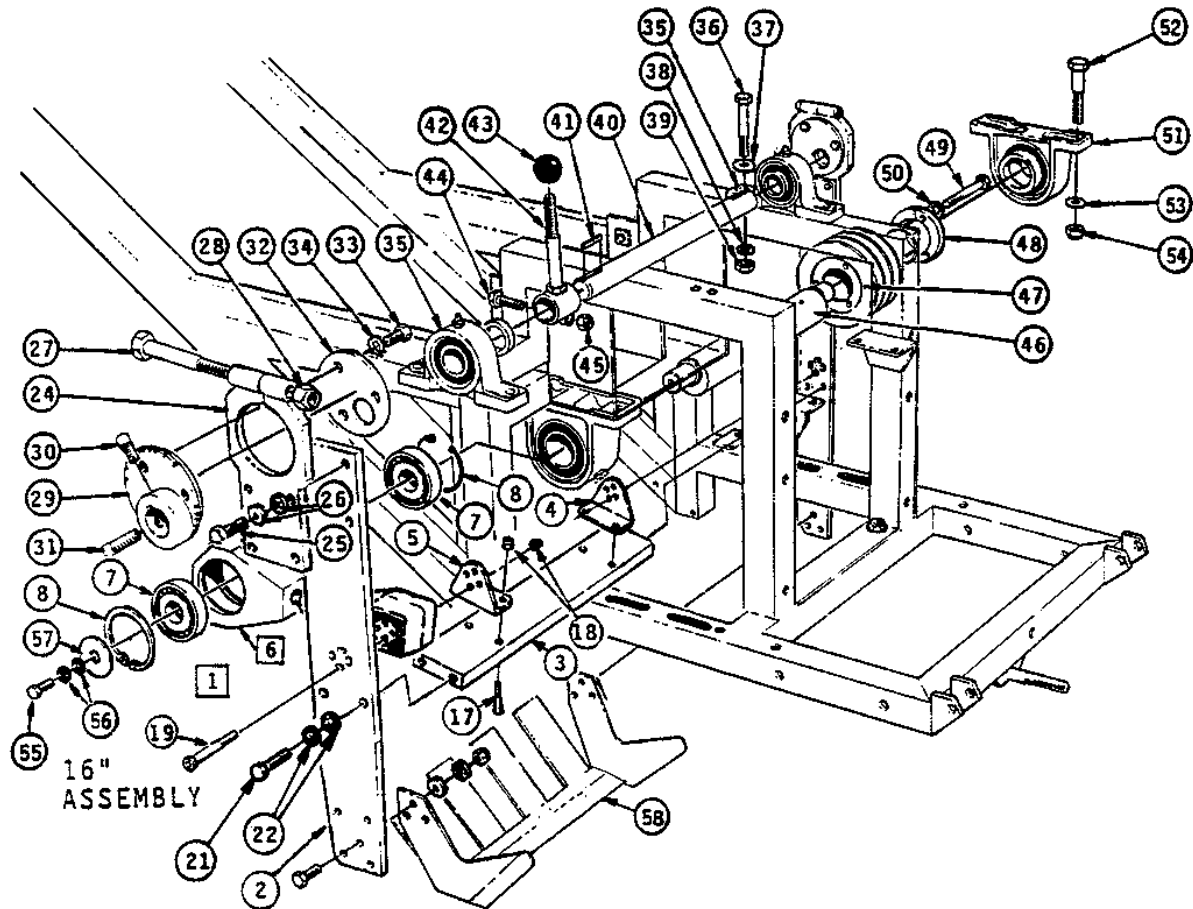
| <b>Ref</b> | <b>Part no.</b> | <b>Description</b>             | <b>Quantity</b> |
|------------|-----------------|--------------------------------|-----------------|
| 46         | 015474          | BAR, HORIZONTAL- DRIVERS GUIDE | 1               |
| 47         | 90-0608         | BOLT, 3/8 X 1                  | 1               |
| 48         | 94-06           | FLAT WASHER, 3/8               | 2               |
| 49         | 99-E40          | LOCKNUT, NYLON 3/8             | 2               |
| 50         | 90-0616         | BOLT, 3/8 X 2                  | 1               |
| 51         | 001709          | BAR, VERTICAL- DRIVERS GUIDE   | 1               |
| 52         | 90-0824         | BOLT, 1/2 X 3                  | 2               |
| 53         | 99-E41          | LOCKNUT, NYLON 1/2             | 2               |
| 54         | F2053           | WASHER, FLAT RUBBER 11/32" ID  | 2               |
| 55         | 014301          | BRACKET, CHAIN                 | 1               |
| 56         | 97-0508         | CARRIAGE BOLT, 5/16 X 1        | 1               |
| 57         | 99-E38          | LOCKNUT, NYLON 5/16            | 1               |
| 58         | G8115           | HANDLE                         | 1               |
| 59         | G8117           | STUD                           | 1               |
| 60         | G8119           | RETAINER                       | 1               |

# CRANKSHAFT & CUTTING HEAD ASSY. section 14



| <b>Ref</b> | <b>Part no.</b> | <b>Description</b>              | <b>Quantity</b> |
|------------|-----------------|---------------------------------|-----------------|
| 1          | A03661          | ROD KIT, ROSTA CONNECTING (16") | 1               |
|            | A03662          | ROD KIT, ROSTA CONNECTING (18") | 1               |
|            | A03663          | ROD KIT, ROSTA CONNECTING (24") | 1               |
| 2          | 016466          | BAR, 1500 ROSTA CUTTING ARM     | 2               |
| 3          | 016793          | BAR, TIE 16"                    | 1               |
|            | 016794          | BAR, TIE 18"                    | 1               |
|            | 016795          | BAR, TIE 24"                    | 1               |
| 4          | 016803          | BRACKET, ROSTA CONN. ROD-LH     | 1               |
| 5          | 016804          | BRACKET, ROSTA CONN. ROD-RH     | 1               |
| 6          | A03569          | ASSY., ROSTA CONN. ROD          | 2               |
| 7          | B2015           | BEARING, BALL:-25MM             | 2               |
| 8          | G1002           | RETAINING RING, INTERNAL        | 2               |
| 9          | A03737          | KIT, CONNECTING ROD             | 1               |
|            |                 | CONNECTING ROD EYE              | 1               |
| 10         | 016865          | GAUGE, CONNECTING ROD           | 1               |
| 11         | 016866          | REPAIR INSTRUCTIONS, ROSTA KIT  | 1               |
| 12         | A03738          | KIT, TIE ROD                    | 1               |
|            |                 | TIE ROD                         | 1               |
| 13         | F7015           | NUT, JAM 3/4                    | 1               |
| 14         | N5301           | NUT, JAM M16-2.00               | 1               |
|            | REF             | SEE REF. 10                     |                 |
|            | REF             | SEE REF. 11                     |                 |
| 15         | A03739          | KIT, ROSTA UNIT                 | 1               |
|            |                 | OSCILLATING MOUNT (ROSTA UNIT)  | 1               |
|            | REF             | SEE REF. 10                     |                 |
|            | REF             | SEE REF. 11                     |                 |
| 16         | 016358          | SPACER, ROSTA DRIVE-18/24"M/C   | 2               |
| 17         | 90-0512         | BOLT, 5/16 X 1-1/2              | 4               |
| 18         | 99-E38          | LOCKNUT, NYLON 5/16             | 12              |
| 19         | F2751           | BOLT, HEX SOC CAP 5/16 X 4      | 8               |
| 20         | F2752           | BOLT, HEX SOC CAP 5/16 X 5      | 8               |
| 21         | 90-0712         | BOLT, 7/16 X 1-1/2              | 4               |
| 22         | F4076           | WASHER, DISC LOCK               | 4               |
| 23         | 016465          | INSTRUCTIONS, ROSTA KIT         | 1               |
| 24         | 001317          | PLATE, ECCENTRIC ADJUSTMENT     | 2               |
| 25         | 90-0608         | BOLT, 3/8 X 1                   | 8               |
| 26         | F3076           | WASHER, DISC LOCK 3/8           | 8               |
| 27         | 90-0832         | BOLT, 1/2 X 4                   | 2               |
| 28         | 99-E41          | LOCKNUT, NYLON 1/2              | 2               |
| 29         | 001318          | ECC. ADJUSTMENT                 | 2               |
| 30         | F3602           | SCREW, SQ HD SET CUP POINT      | 2               |
| 31         | F3603           | SET SCREW, 3/8 X 3/4 SQHD       | 2               |
| 32         | 001320          | ECC ADJUSTMENT COVER PLATE      | 2               |
| 33         | 90-0608         | BOLT, 3/8 X 1                   | 19              |
| 34         | 99-G04          | SHAKEPROOF WASHER, 3/8          | 13              |
| 35         | B1109           | BEARING, PILLOW BLOCK: -1-1/8"  | 2               |
| 36         | 90-0728         | BOLT, 7/16 X 3-1/2              | 4               |
| 37         | F5052           | WASHER, FLAT 1/2" SAE GR.9      | 4               |

# CRANKSHAFT & CUTTING HEAD ASSY. section 14



# **CRANKSHAFT & CUTTING HEAD ASSY.      section 14**

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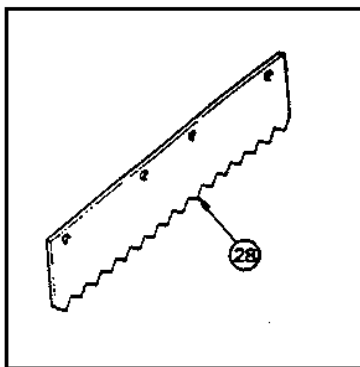
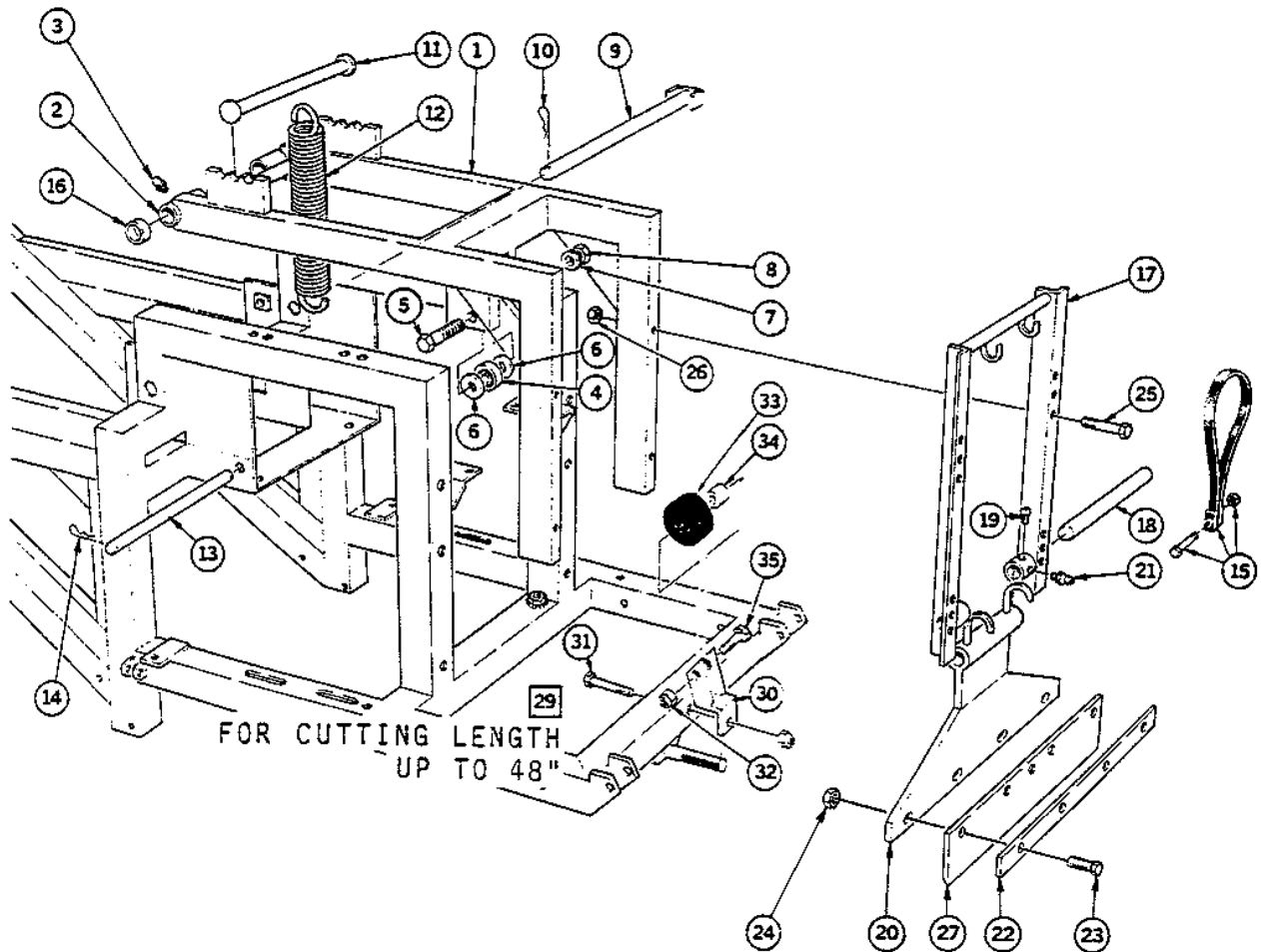
| <b>Ref</b> | <b>Part no.</b> | <b>Description</b>                 | <b>Quantity</b> |
|------------|-----------------|------------------------------------|-----------------|
| 38         | F4076           | WASHER, DISC LOCK                  | 4               |
| 39         | 92-07           | NUT, 7/16-14 NC                    | 4               |
| 40         | 001323          | SHAFT, ECCENTRIC ADJUSTMENT        | 1               |
| 41         | 124422          | KEY, 1/4 X 1/4 X 1-3/8             | 1               |
| 42         | 001321          | CUTTING BLADE ADJUSTMENT           | 1               |
| 43         | M5001           | PLASTIC KNOB                       | 1               |
| 44         | 90-0612         | BOLT, 3/8 X 1-1/2                  | 1               |
| 45         | 99-E40          | LOCKNUT, NYLON 3/8                 | 1               |
| 46         | 001287          | CRANKSHAFT, STANDARD 16/18"        | 1               |
|            | 001288          | CRANKSHAFT, 24"                    | 1               |
| 47         | 83-3B46SD       | PULLEY, 4.5" 3 GROOVE F/SD HUB     | 3               |
| 48         | D3021           | BUSHING, SPLIT TAPER LOCK SD2      | 2               |
| 49         | 90-0416         | BOLT, 1/4 X 2                      | 4               |
| 50         | F1076           | WASHER, DISC LOCK                  | 4               |
| 51         | B1120           | BEARING, PILLOW BLOCK:-2"          | 4               |
| 52         | 90-1020         | BOLT, 5/8 X 2-1/2                  | 4               |
| 54         | 99-E42          | LOCKNUT, NYLON 5/8                 | 2               |
| 55         | 90-0604         | BOLT, 3/8 X 1/2                    | 2               |
| 56         | F3076           | WASHER, DISC LOCK 3/8"             | 2               |
| 57         | 99-B16          | WASHER, FENDER 3/8" X 1-1/2 OD     | 2               |
|            | REF             | SEE CUTTING BLADE OPTIONS PG. 21-1 |                 |

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Cut-off Blade Assembly, 16", 18", 24"

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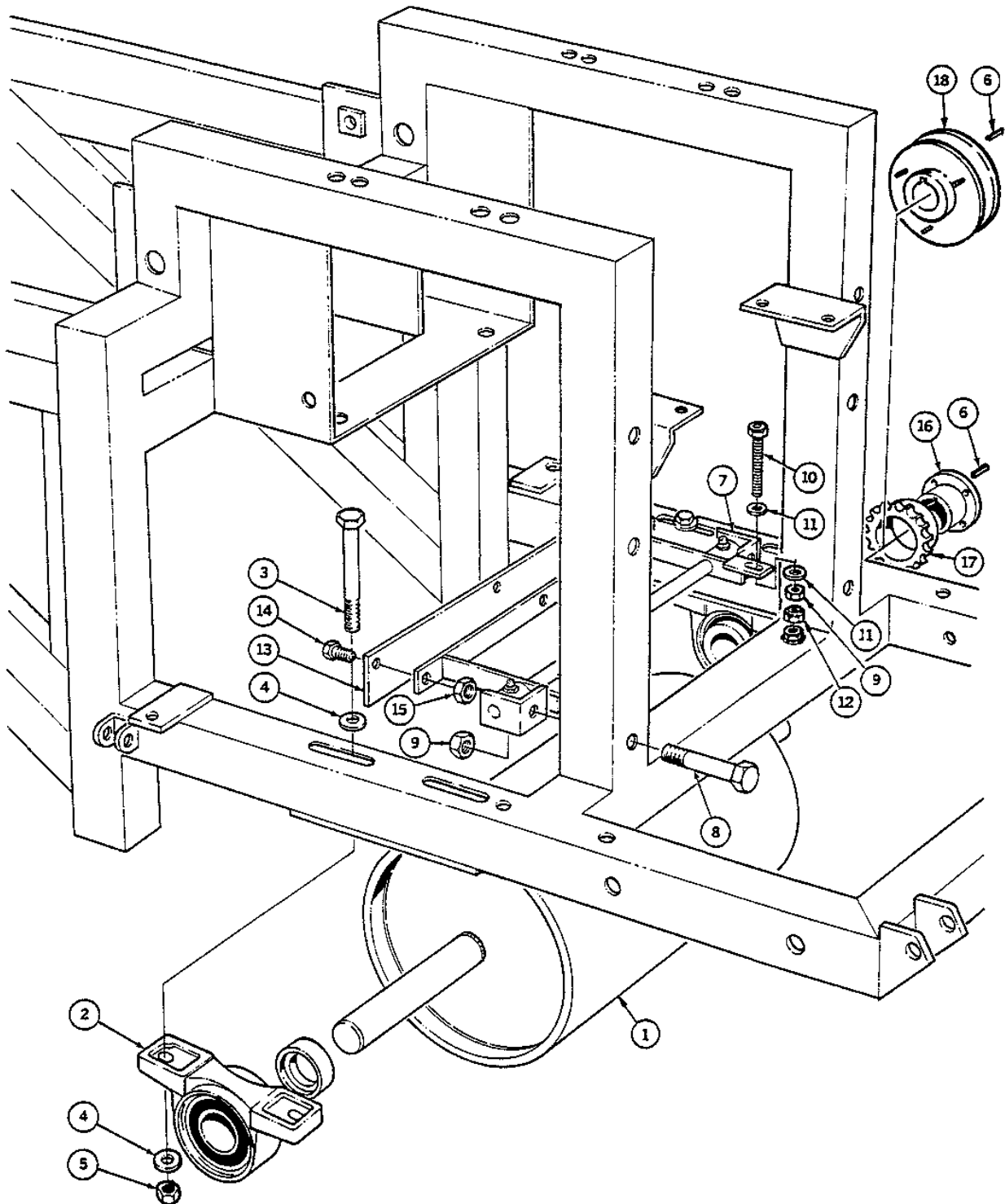
| <b>Ref</b> | <b>Part no.</b> | <b>Description</b>                   | <b>Quantity</b> |
|------------|-----------------|--------------------------------------|-----------------|
| 1          | A03539          | CUT-OFF FRAME ASS'Y (16/18")         | 1               |
|            | A03540          | CUT-OFF FRAME ASS'Y (24")            | 1               |
| 3          | 29-010          | GREASE FITTING, 1/4 SHORT            | 2               |
| 4          | B8002           | BEARING, TRACK ROLLER                | 1               |
| 5          | N9021           | SCREW, HEX CAP M20-2.50 X 80         | 1               |
| 6          | 95-12           | FLAT WASHER, 3/4 SAE                 | 2               |
| 7          | F7076           | WASHER, DISC LOCK                    | 1               |
| 8          | N9022           | NUT, HEX M20-2.50 GR 8.8             | 1               |
| 9          | 001308          | CUTOFF HINGE SHAFT(16/18")           | 1               |
|            | 001309          | SHAFT, CUTOFF HINGE 24"              | 1               |
| 11         | 001312          | CUTOFF SPRING ADJUST. SHAFT (16/18") | 1               |
|            | 001313          | SHAFT, CUTOFF SPRING ADJ. (24")      | 1               |
| 12         | S2006           | SPRING, EXT 1-13/16 OD X .250        | 5               |
| 13         | 001310          | SHAFT, CUTOFF SPRING (16/18")        | 1               |
|            | 001311          | SHAFT, CUTOFF SPRING ADJ. 24"        | 1               |
| 14         | 02-PP0524       | PRESTO PIN, 5/32 X 2-15/16           | 2               |
| 15         | 001452          | SPRING, URETHANE CUTOFF              | 2               |
| 16         | F7951           | WASHER, 59/64 X 1-19/64 X .031       | 1               |
| 17         | 001301          | FRAME, CUTOFF BLADE- 16/18"M/C       | 1               |
|            | 001445          | FRAME, CUTOFF BLADE- 24"M/C          | 1               |
| 18         | 001417          | PIN, BLADE PIVOT- 16/18" M/C         | 1               |
|            | 001418          | PIN, BLADE PIVOT- 24" M/C            | 1               |
| 19         | 85-SS14         | SET SCREW, 3/8 X 3/8 SKTHD           | 4               |
| 20         | 001446          | MOUNT, CUTOFF BLADE-16/18" M/C       | 1               |
| 21         | 29-010          | GREASE FITTING, 1/4 SHORT            | 2               |
| 22         | 001423          | CLAMP, CUTOFF BLADE- 16/18" M/C      | 1               |
|            | 001424          | CLAMP, CUTOFF BLADE- 24" M/C         | 1               |
| 23         | 90-0608         | BOLT, 3/8 X 1                        | 4               |
| 24         | 99-E40          | LOCKNUT, NYLON 3/8                   | 4               |
| 25         | 90-0624         | BOLT, 3/8 X 3                        | 4               |
| 26         | 90-0608         | BOLT, 3/8 X 1                        | 4               |
| 27         | 001304          | BLADE, CUTOFF- 16" WIDE              | 1               |
|            | 001305          | BLADE, CUTOFF- 18" WIDE              | 1               |
|            | 001306          | BLADE, CUTOFF- 24" WIDE              | 1               |
| 28         | 001683          | BLADE, SERRATED CUTOFF 16"WIDE       | 1               |
|            | 001676          | BLADE, SERRATED CUTOFF 18"WIDE       | 1               |
|            | 001677          | BLADE, SERRATED CUTOFF 24"WIDE       | 1               |
| 30         | 014153          | CUTOFF BRACKET                       | 1               |
| 31         | 90-0624         | BOLT, 3/8 X 3                        | 1               |
| 32         | 99-E40          | LOCKNUT, NYLON 3/8                   | 2               |
| 33         | 001507          | BUMPER, RUBBER                       | 1               |
| 34         | 001764          | BUSHING, RUBBER BUMPER               | 1               |
| 35         | 90-0618         | BOLT, 3/8 X 2-1/4                    | 1               |

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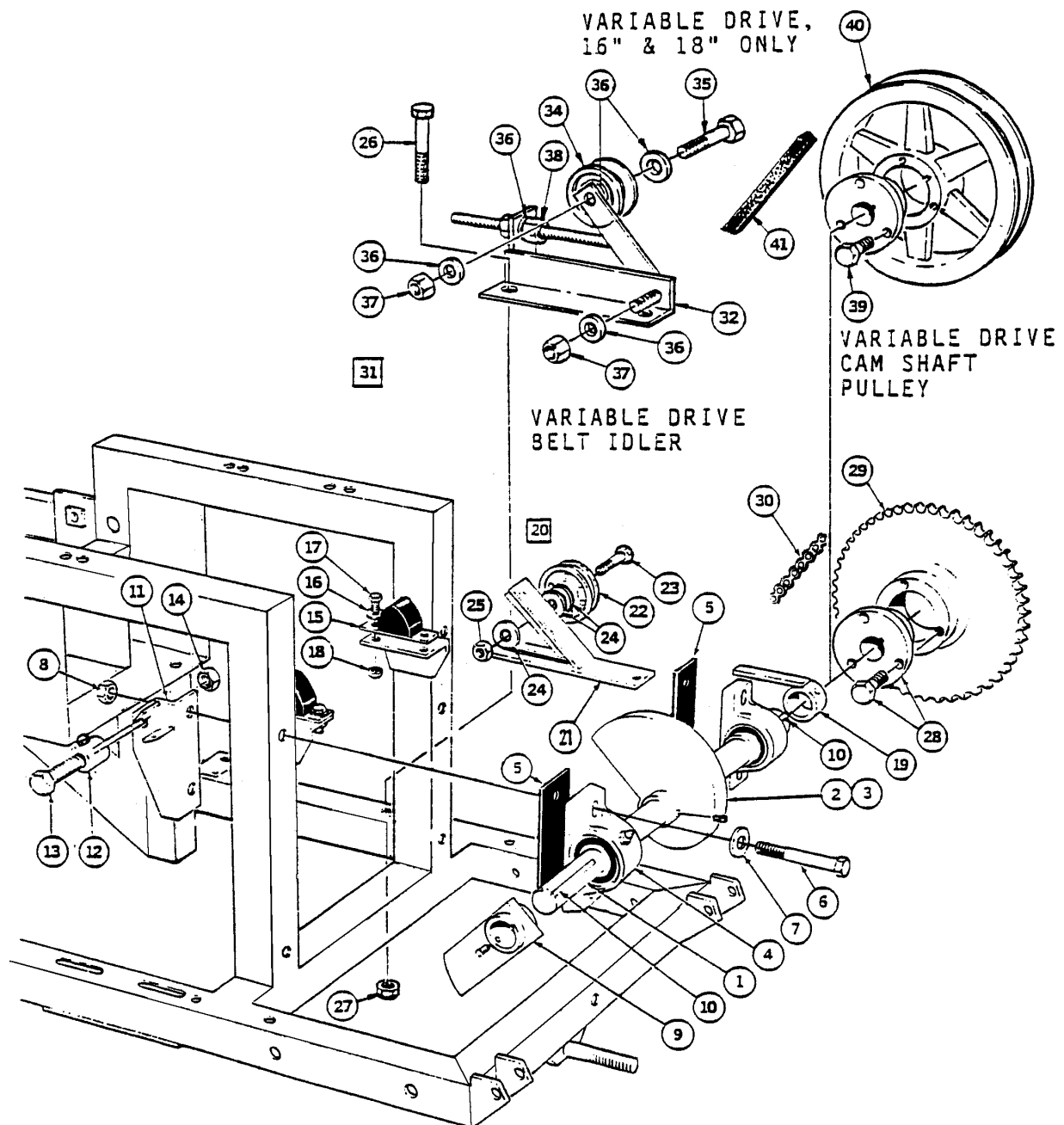
8" Roller & Scraper, 16", 18", 24"

16-2

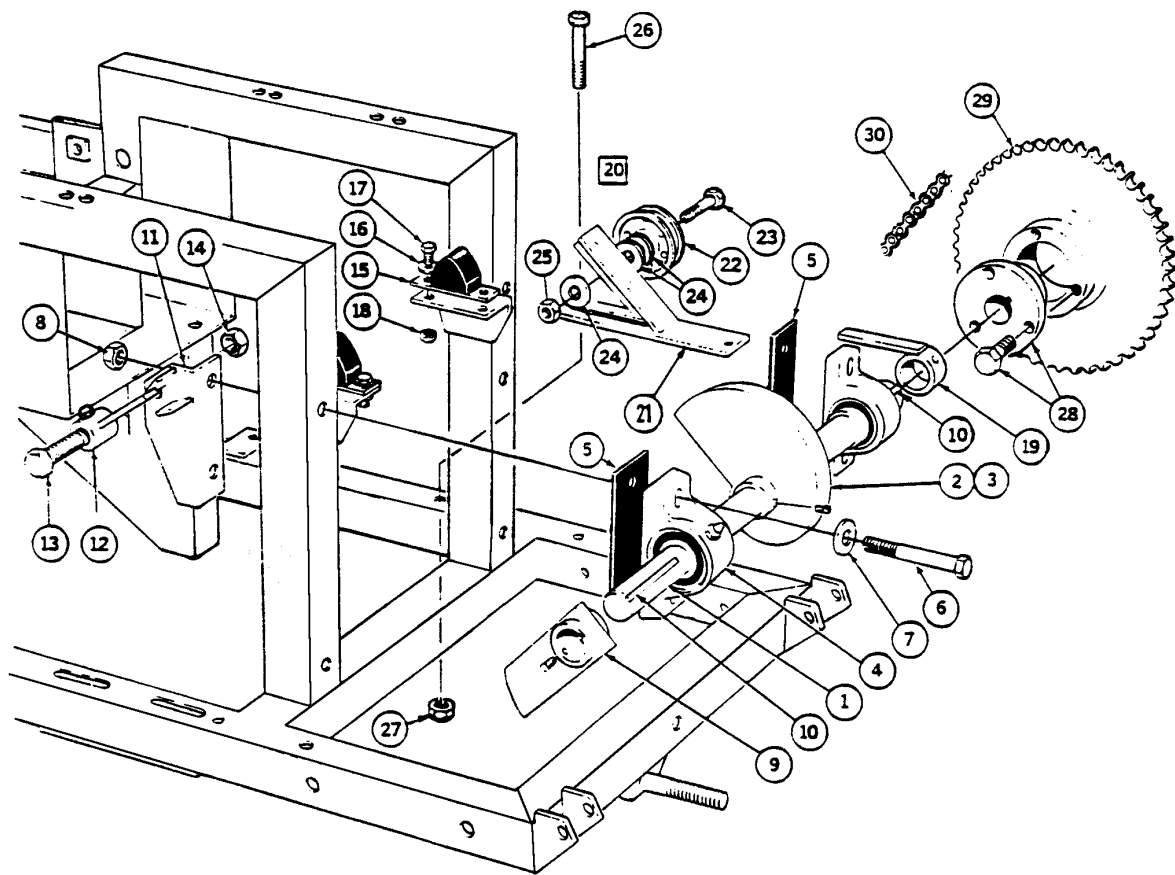


| <b>Ref</b> | <b>Part no.</b> | <b>Description</b>              | <b>Quantity</b> |
|------------|-----------------|---------------------------------|-----------------|
| 1          | 015997          | ROLLER, 8" DIA. -16"            | 1               |
|            | 015998          | ROLLER, 8" DIA. -18"            | 1               |
|            | 015999          | ROLLER, 8" DIA. -24"            | 1               |
| 2          | B1111           | BEARING, PILLOW BLOCK:-1-1/4"   | 2               |
|            | 29-010          | GREASE FITTING, 1/4 SHORT       | 1               |
| 3          | 90-0732         | BOLT, 7/16 X 4                  | 4               |
| 4          | 94-07           | FLAT WASHER, 7/16               | 8               |
| 5          | F4003           | LOCKNUT, NYLON 7/16             | 4               |
| 6          | 124422          | KEY, 1/4 X 1/4 X 1-3/8          | 1               |
| 7          | 015817          | SCRAPER BLADE HOLDER- 16" & 18" | 1               |
|            | 001449          | SCRAPER BLADE HOLDER- 24"       | 1               |
|            | 29-010          | GREASE FITTING, 1/4 SHORT       | 2               |
| 8          | 90-0624         | BOLT, 3/8 X 3                   | 2               |
| 9          | 99-E40          | LOCKNUT, NYLON 3/8              | 3               |
| 10         | F3747           | BOLT, 3/8 X 4                   | 1               |
| 11         | 94-06           | FLAT WASHER, 3/8                | 2               |
| 12         | 99-E21          | JAM NUT, 3/8                    | 1               |
| 13         | 001326          | BLADE, 16" SCRAPER              | 1               |
|            | 001327          | BLADE, 18" SCRAPER              | 1               |
|            | 001328          | BLADE, 24" SCRAPER              | 1               |
| 14         | 90-0506         | BOLT, 5/16 X 3/4 (16/18")       | 3               |
|            | 90-0506         | BOLT, 5/16 X 3/4 (24")          | 4               |
| 15         | 99-E38          | LOCKNUT, NYLON 5/16 (16/18")    | 3               |
|            | 99-E38          | LOCKNUT, NYLON 5/16 (24")       | 4               |
| 16         | 83-H20          | BUSHING, 1-1/4                  | 1               |
| 17         | REF             | SEE SPROCKET CHART              |                 |
| 18         | A03132          | SHEAVE ASSY., VARIABLE          | 1               |

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|-----------------------|------|
| Cut-Off Drive, 16/18" | 17-2 |
| Cut-Off Drive, 24"    | 17-4 |



| Ref | Part no. | Description                                     | Quantity |
|-----|----------|-------------------------------------------------|----------|
| 1   | 001563   | SHAFT, 16"/18" CUT OFF CAM                      | 1        |
| 2   | 001565   | CAM, CUT OFF (SOD LENGTHS OVER 54")             | 1        |
|     | 001795   | CAM, CUT OFF- SLOW LIFT (SOD LENGTHS UNDER 54") | 1        |
|     | F3603    | SET SCREW, 3/8 X 3/4 SQHD                       | 2        |
| 3   | 124440   | KEY, 1/4 X 1/4 X 2-1/2                          | 1        |
| 4   | B1001    | BEARING, PILLOW BLOCK:-1"                       | 2        |
| 5   | 015762   | SHIM, CAMSHAFT 16 & 18"                         | 2        |
| 6   | 90-0630  | BOLT, 3/8 X 3-3/4                               | 4        |
| 7   | 015907   | FLAT WASHER, 3/8" HEAVY DUTY                    | 4        |
| 8   | 99-E40   | LOCKNUT, NYLON 3/8                              | 4        |
| 9   | REF      | STOP RETURN CAM                                 |          |
|     | F3603    | SET SCREW, 3/8 X 3/4 SQHD                       |          |
| 10  | 85-K0410 | KEY, SQUARE 1/4 X 1/4 X 1-1/4                   | 2        |
| 11  | 001568   | PLATE WELDMENT, RETURN CAM STOP                 | 1        |
| 12  | 001567   | RETURN CAM STOP                                 | 1        |
|     | 29-010   | GREASE FITTING, 1/4 SHORT                       | 1        |
| 13  | 90-0820  | BOLT, 1/2 X 2-1/2                               | 1        |
| 14  | 99-E41   | LOCKNUT, NYLON 1/2                              | 1        |
| 15  | 014082   | BUMPER, RUBBER                                  | 2        |
| 16  | 90-0608  | BOLT, 3/8 X 1                                   | 4        |
| 17  | 94-06    | FLAT WASHER, 3/8                                | 4        |
| 18  | 99-E40   | LOCKNUT, NYLON 3/8                              | 4        |
| 19  | 001812   | INDICATOR, FULL LENGTH                          | 1        |
| 20  | A03441   | CUT OFF CHAIN TIGHTENER                         | 1        |
| 21  | 015545   | IDLER, ADJUSTMENT ARM W/A                       | 1        |
| 22  | D2902    | SHEAVE, BELT IDLER (RIVETED)                    | 1        |
| 23  | 90-0818  | BOLT, 1/2 X 2-1/4                               | 1        |
| 24  | F5052    | WASHER, FLAT 1/2" SAE GR.9                      | 3        |
| 25  | 99-E41   | LOCKNUT, NYLON 1/2                              | 1        |
| 26  | 90-0724  | BOLT, 7/16 X 3                                  | 2        |
| 27  | F4003    | LOCKNUT, NYLON 7/16                             | 2        |
| 28  | REF      | SPROCKET BUSHING (SEE SPROCKET CHART)           |          |
| 29  | REF      | CAM SHAFT SPROCKET (SEE SPROCKET CHART)         |          |
| 30  | 114003   | CHAIN, ROLLER:-#40 X 49" LONG                   | 1        |
|     | 81-056   | CONNECTOR LINK, #40                             | 1        |
|     | 81-076   | HALFLINK, #40                                   | 1        |
| 31  | A03061   | ASSEMBLY, VARIABLE CUTOFF                       | 1        |
| 32  | 001752   | IDLER, CUT OFF DRIVE                            | 1        |
| 33  | 001753   | CUT OFF DRIVE IDLER ARM                         | 1        |
| 34  | D2902    | SHEAVE, BELT IDLER (RIVETED)                    | 1        |
| 35  | 90-0816  | BOLT, 1/2 X 2                                   | 1        |
| 36  | 94-08    | FLAT WASHER, 1/2                                | 7        |
| 37  | 99-E41   | LOCKNUT, NYLON 1/2                              | 2        |
| 38  | 92-08    | NUT, 1/2                                        | 2        |
| 39  | REF      | PULLEY BUSHING (SEE SPROCKET CHART)             |          |
| 40  | REF      | CAM SHAFT PULLEY (SEE SPROCKET CHART)           |          |
| 41  | REF      | V-BELT (SEE SPROCKET CHART)                     |          |



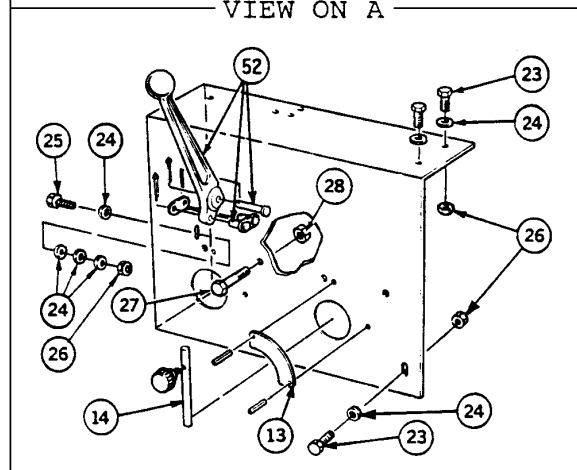
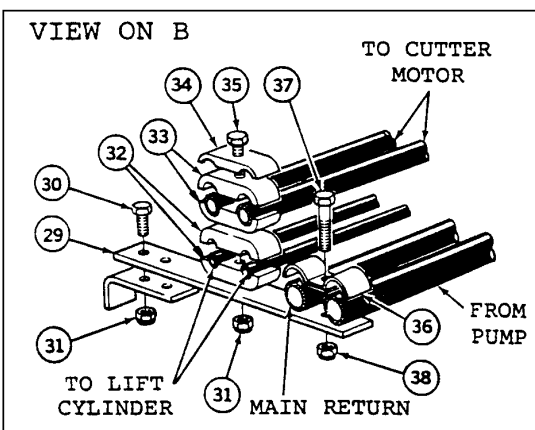
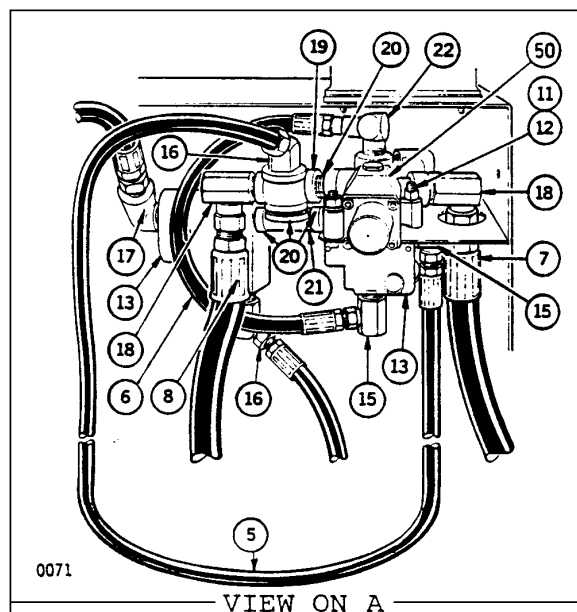
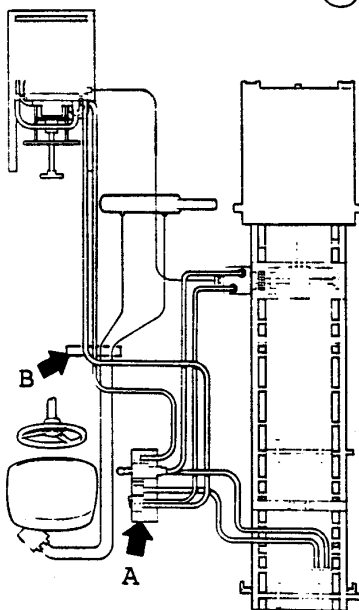
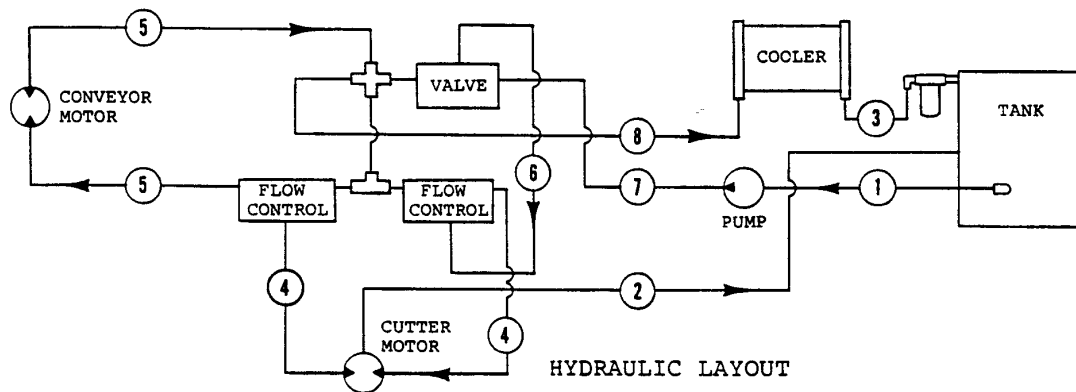
| <b>Ref</b> | <b>Part no.</b> | <b>Description</b>             | <b>Quantity</b> |
|------------|-----------------|--------------------------------|-----------------|
| 1          | 001564          | SHAFT, CUTOFF CAM              | 1               |
| 2          | 001566          | CUT OFF CAM                    | 1               |
| 2A         | F3603           | SET SCREW, 3/8-16 X 3/4 SQHD   | 2               |
| 3          | 124440          | KEY,1/4 X 1/4 X 2-1/2          | 1               |
| 4          | B1003           | BEARING, PILLOW BLOCK; -1-1/8" | 2               |
| 5          | 015761          | CAMSHAFT SHIM - 24"            | 2               |
| 6          | 90-0732         | BOLT,7/16-14 X 4 NC            | 4               |
| 7          | F5052           | WASHER,FLAT 1/2" SAE GR.9      | 4               |
| 8          | F4003           | LOCKNUT, NYLON 7/16-14 UNC ZP  | 4               |
| 9A         | F3603           | SET SCREW, 3/8-16 X 3/4 SQHD   | 1               |
| 10         | 124420          | KEY, USE 85-K0410              | 2               |
| 11         | 001568          | PLATE WELDMENT,RETURN CAM STOP | 1               |
| 12         | 001567          | RETURN CAM STOP                | 1               |
| 12A        | 29-010          | GREASE FITTING,1/4-28 SHORT    | 1               |
| 13         | 90-0820         | BOLT,1/2-13 X 2-1/2 NC         | 1               |
| 14         | 99-E41          | LOCKNUT, NYLON 1/2-13 NC ZP    | 1               |
| 15         | 014082          | BUMPER, RUBBER 1-1/2 X 3-1/2 X | 2               |
| 16         | 90-0608         | BOLT,3/8-16 X 1 NC             | 4               |
| 17         | 94-06           | FLAT WASHER, 3/8 USS ZP        | 4               |
| 18         | 99-E40          | LOCKNUT, NYLON 3/8-16 NC ZP    | 4               |
| 19         | 001836          | INDICATOR, FULL LENGTH         | 1               |
| 20         | A03441          | CUT OFF CHAIN TIGHTENER        | 1               |
| 21         | 015545          | IDLER,ADJUSTMENT ARM W/A       | 1               |
| 22         | D2902           | SHEAVE, BELT IDLER (RIVETED)   | 1               |
| 23         | 90-0818         | BOLT,1/2-13 X 2-1/4 NC         | 1               |
| 24         | F5052           | WASHER,FLAT 1/2" SAE GR.9      | 3               |
| 25         | 99-E41          | LOCKNUT, NYLON 1/2-13 NC ZP    | 1               |
| 26         | 90-0724         | BOLT,7/16-14 X 3 NC            | 2               |
| 27         | F4003           | LOCKNUT, NYLON 7/16-14 UNC ZP  | 2               |
| 30         | 114003          | CHAIN, ROLLER:-#40 X 49"LG     | 1               |
| 30A        | 81-056          | CONNECTOR LINK, #40            | 1               |
| 30B        | 81-076          | HALFLINK, #40                  | 1               |

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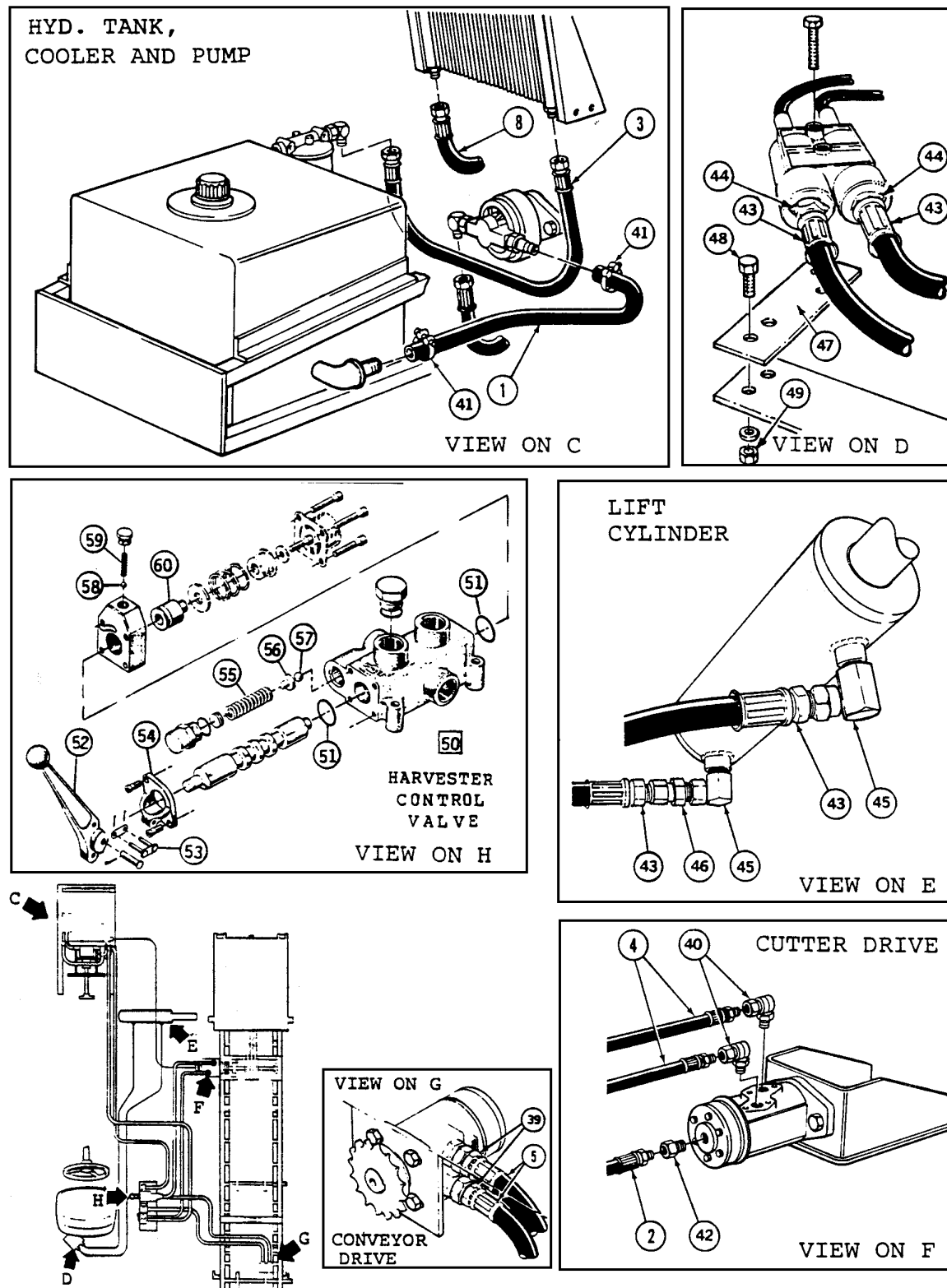
### PAGE

Hydraulic Arrangement

18-2



| <b>Ref</b> | <b>Part no.</b> | <b>Description</b>                     | <b>Quantity</b> |
|------------|-----------------|----------------------------------------|-----------------|
| 1          | 016084          | HOSE, SUCTION 100R4 1.25X17.5          | 1               |
| 2          | 001462          | HOSE, CUTTER MOTOR DRAIN               | 1               |
| 3          | 016088          | HOSE, 3/4 X 34" 100R1 #12 JIC          | 1               |
| 4          | 016085          | HOSE, 1/2 X 99" 1/2 MPT RIGID          | 2               |
| 5          | 001273          | HOSE, 1/2 X 75" 1/2 MPT RIGID (16/18") | 2               |
|            | 001766          | HOSE, HYD. 1/2 X 78" 100R2 (24")       | 2               |
| 6          | 001271          | HOSE, VALVE BANK BYPASS                | 1               |
| 7          | 016087          | HOSE                                   | 1               |
| 8          | 016086          | HOSE                                   | 1               |
| 11         | 90-0616         | BOLT, 3/8 X 2                          | 3               |
| 12         | 99-E40          | LOCKNUT, NYLON 3/8                     | 3               |
| 13         | H4002           | VALVE, FLOW CONTROL                    | 2               |
|            | E0002           | O-RING, FOR H4002 AND H4067            | 2               |
| 14         | H8046           | HANDLE FOR VALVE H4067                 | 2               |
| 15         | H2502           | FITTING, 90 -12 MPT X -8 NPSM          | 2               |
| 16         | H2501           | FITTING, 45 -12 MPT X -8 NPSM          | 2               |
| 17         | H1029           | FITTING, 90 -12 MPT X -12 FPT          | 1               |
|            | H2506           | FITTING, STR -12 MPT X -8 NPSM         | 1               |
| 18         | H1525           | FITTING, 90 -12 MPT/-12 F SWIV         | 2               |
| 19         | H1020           | FITTING, CROSS- 3/4"                   | 1               |
| 20         | 29-042          | PIPE NIPPLE, 3/4 NPT X 1-1/2           | 4               |
| 21         | H1016           | FITTING, TEE- 3/4"                     | 1               |
| 22         | H1028           | FITTING, 90 -8 MPT X -8 FPT            | 1               |
| 23         | 90-0508         | BOLT, 5/16 X 1                         | 3               |
| 24         | 95-05           | FLAT WASHER, 5/16 SAE                  | 7               |
| 25         | 99-E38          | LOCKNUT, NYLON 5/16                    | 1               |
| 26         | 92-05           | NUT, 5/16                              | 4               |
| 27         | 90-0418         | BOLT, 1/4 X 2-1/4                      | 4               |
| 28         | 94-04           | FLAT WASHER, 1/4 USS ZP                | 4               |
| 29         | 016100          | BAR, CLAMPING                          | 1               |
| 30         | 90-0406         | BOLT, 1/4 X 3/4                        | 2               |
| 31         | 99-E39          | LOCKNUT, NYLON 1/4                     | 3               |
| 32         | G8081           | CLAMP, PIPE DOUBLE 3/4 TUBE            | 1               |
| 33         | G8082           | CLAMP, PIPE DOUBLE 7/8 TUBE            | 1               |
| 34         | G8107           | COVER PLATE FOR G8082                  | 1               |
| 35         | 90-0424         | BOLT, 1/4 X 3                          | 1               |
| 37         | 90-0612         | BOLT, 3/8 X 1-1/2                      | 1               |
| 38         | 99-E40          | LOCKNUT, NYLON 3/8                     | 1               |
| 39         | H1510           | FITTING, STR -8 MPT X -8 NPSM          | 2               |
| 40         | H2524           | FITTING, SWIVEL ADAPTER 90 DEG         | 2               |
|            | 26-008          | O-RING, FOR #10 HYD FITTING            | 1               |
| 41         | G8102           | CLAMP, HOSE- "T" BOLT TYPE             | 2               |
| 42         | H1501           | FITTING, SWIVEL COUPLING               | 1               |
| 43         | 015774          | HOSE, LIFT PRESSURE/RETURN             | 1               |
| 44         | H1801           | QUICK COUPLER, MALE 1/2 FPT            | 2               |
| 45         | H2507           | FITTING, 90 -4 MPT X -6 NPSM           | 1               |
| 46         | H2512           | FITTING, SWIVEL ADAPTER                | 1               |



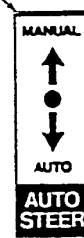
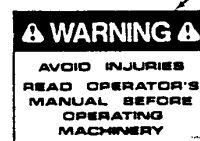
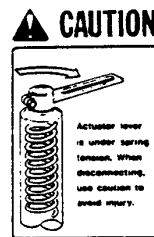
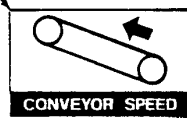
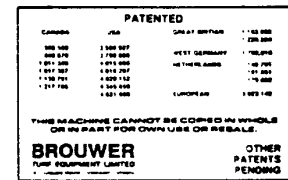
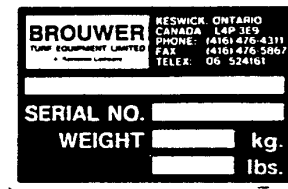
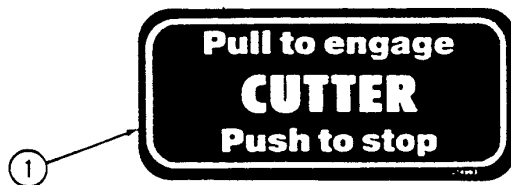
| <b>Ref</b> | <b>Part no.</b> | <b>Description</b>           | <b>Quantity</b> |
|------------|-----------------|------------------------------|-----------------|
| 47         | 015205          | BRACKET                      | 1               |
| 48         | 90-0608         | BOLT, 3/8 X 1                | 2               |
| 49         | 99-E40          | LOCKNUT, NYLON 3/8           | 2               |
| 50         | H4001           | VALVE, HYD. 1-SPOOL W/HANDLE | 1               |
| 51         | E0003           | O-RING                       | 2               |
| 52         | H8005           | HANDLE, VALVE CROSS          | 1               |
| 53         | H8034           | PIN KIT, HYDRAULIC HANDLE    | 1               |
| 54         | H8017           | PLATE, END (HANDLE BRACKET)  | 1               |
| 55         | S0004           | SPRING, RELIEF VALVE         | 1               |
| 56         | H8009           | GUIDE, RELIEF SPRING         | 1               |
| 57         | H8010           | BALL, RELIEF SPRING          | 1               |
| 58         | H8015           | BALL, DETENT                 | 1               |
| 59         | S0009           | SPRING, DETENT               | 1               |
| 60         | H8016           | DETENT SLEEVE                | 1               |

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Decals

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# BROUWER™



| <b>Ref</b> | <b>Part no.</b> | <b>Description</b>                    | <b>Quantity</b> |
|------------|-----------------|---------------------------------------|-----------------|
| 1          | 014963          | DECAL, ENGAGE CUTTER                  | 1               |
| 2          | 014962          | DECAL, HARVESTER LIFT LEVER           | 1               |
| 3          | 101672          | DECAL, NAME- BROUWER                  | 1               |
| 4          | 009097          | DECAL, WARNING CUTTING HEAD           | 2               |
| 6          | 015899          | DECAL, PATENTS                        | 1               |
| 7          | 701212          | DECAL, MAKE IN CANADA (NOT AVAILABLE) | 1               |
| 8          | 015900          | DECAL, WARNING KEEP CLEAR             | 1               |
| 9          | 009103          | DECAL, CONVEYOR SPEED                 | 1               |
| 10         | 015499          | DECAL, CAUTION AUTOSTEER              | 1               |
| 11         | 009104          | DECAL, HEAD SPEED                     | 1               |
| 12         | 009432          | DECAL, WARNING CAM STOP               | 1               |
| 13         | 006216          | DECAL, CUTTING DEPTH                  | 1               |
| 14         | 00-074          | DECAL, HYDRAULIC OIL SYMBOL           | 1               |
| 15         | 015777          | DECAL, WARNING ACTUATOR LEVER         | 1               |
| 16         | 016128          | DECAL, ENGINE THROTTLE                | 1               |
| 17         | 016062          | DECAL, AUTOSTEER CONTROL INFO         | 1               |
| 18         | 202525          | DECAL, CAUTION READ MANUAL            | 1               |

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| AVAILABLE SPROCKETS            | 20-2        |
| VARIABLE DRIVE SELECTION CHART | 20-3        |
| SPROCKET SELECTION CHART       | 20-4        |

| AVAILABLE SPROCKETS |    |           |                             |    |         |
|---------------------|----|-----------|-----------------------------|----|---------|
| H BUSHINGS          |    |           | P BUSHINGS                  |    |         |
|                     |    |           |                             |    |         |
| D1401               |    | 40H15     | D1441                       |    | 40P28   |
| D1402               |    | 40H16     | D1417                       |    | 40P30   |
| D1403               |    | 40H17     | D1418                       |    | 40P31   |
| D1404               |    | 40H18     | D1419                       |    | 40P32   |
| D1405               |    | 40H19     | D1420                       |    | 40P33   |
| D1406               |    | 40H20     | D1421                       |    | 40P34   |
| D1407               |    | 40H21     | D1422                       |    | 40P35   |
| D1408               |    | 40H22     | D1423                       |    | 40P36   |
| D1409               |    | 40H23     | D1424                       |    | 40P37   |
| D1410               |    | 40H24     | D1425                       |    | 40P38   |
| D1411               |    | 40H25     | D1426                       |    | 40P39   |
| D1412               |    | 40H26     | D1427                       |    | 40P40   |
| D1413               |    | 40H27     | D1428                       |    | 40P41   |
| D1414               |    | 40H28     | D1429                       |    | 40P42   |
| D1415               |    | 40H29     | 015443                      |    | 40P43   |
| D1416               |    | 40H30     | D1431                       |    | 40P44   |
|                     |    |           | D1432                       |    | 40P45   |
| FIXED BORE          |    |           | D1433                       |    | 40P47   |
|                     |    |           | D1434                       |    | 40P48   |
| D1101               | *H | 40 12X1   | D1435                       |    | 40P50   |
| D1102               |    | 40 15X3/4 | D1439                       |    | 40P51   |
| D1103               |    | 40 15X1   | D1440                       |    | 40P52   |
| D1104               |    | 40 16X5/8 | D1436                       |    | 40P54   |
| D1105               |    | 40 16X3/4 | D1437                       |    | 40P55   |
| D1106               |    | 40 16X1   | D1438                       |    | 40P56   |
| D1107               |    | 40 17X1   |                             |    |         |
| D1108               |    | 40 18X1   | FIXED BORE                  |    |         |
| D1109               |    | 40 19X5/8 | D1201                       | *H | 50 15X1 |
| D1110               |    | 40 19X3/4 | D1202                       | *H | 50 18X1 |
| D1111               |    | 40 20X1   | D1216                       | *H | 50 16X1 |
| D1112               | *H | 40 25X1   | *H Indicates hardened teeth |    |         |
| D1113               |    | 40 24X3/4 |                             |    |         |
| D1117               |    | 40 21X1   |                             |    |         |
| D1132               |    | 40 22X1   |                             |    |         |

## IMPORTANT

Please note that the sprocket recommendations are approximate, and actual results will vary depending on conditions. Type of sod, age, soil types and conditions ie, soft/hard, wet/dry will affect the results. Your dealer or factory representative can assist you to make the best choice and/or alternates for your conditions.

## VARIABLE DRIVE CUT-OFF ASSEMBLY, 16"/18" CONVEYOR

| CONVEYOR         | 16"       | 18"           | 16"       | 18"       | 16"          | 18"         |
|------------------|-----------|---------------|-----------|-----------|--------------|-------------|
| AREA             | 1 sq. yd. | 10.13 sq. ft. | 1 sq. yd. | 8 sq. ft. | 0.74 sq. yd. | 7.5 sq. ft. |
| LENGTH OF CUT    | 81"       |               | 72"       |           | 60"          |             |
| Camshaft pulley  | D2328     |               | D2327     |           | D2324        |             |
| Camshaft bushing | D3006     |               | D3022     |           | D3006        |             |
| Variable pulley  | A03132    |               | A03132    |           | A03132       |             |
| Stop return cam  | 001378    |               | 001787    |           | 001788       |             |
| 'V' Belt         | D2034     |               | D2032     |           | D2030        |             |

### NOTE

Variable cut-off drives are not recommended for cut-off lengths of 54" or less or for the 24" wide machines.

For Roll Up Sprockets See Sprocket Drive Section

## VARIABLE DRIVE CUT-OFF ASSEMBLY, 16" (40.6 CM) CONVEYOR, -METRIC-

| DESCRIPTION      | 1 Sq. Meter<br>LENGTH OF CUT<br>246 CM | 0.8 Sq. Meter<br>LENGTH OF CUT<br>197 CM | 0.75 Sq. Meter<br>LENGTH OF CUT<br>185 CM |
|------------------|----------------------------------------|------------------------------------------|-------------------------------------------|
| Camshaft pulley  | D2330                                  | D2328                                    | D2327                                     |
| Camshaft bushing | D3009                                  | D3006                                    | D3022                                     |
| Variable pulley  | A03132                                 | A03132                                   | A03132                                    |
| Stop return cam  | 014974                                 | 001799                                   | 001787                                    |
| 'V' Belt         | D2036                                  | D2034                                    | D2032                                     |

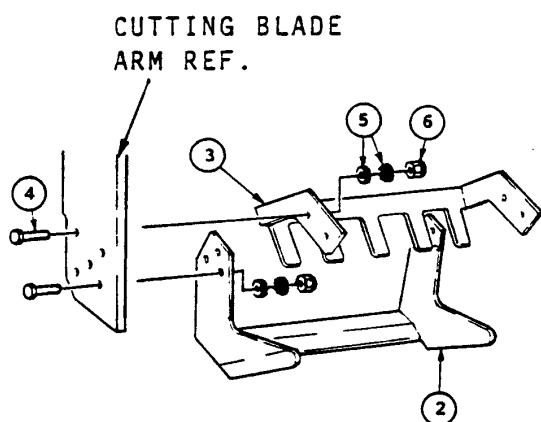
## VARIABLE DRIVE CUT-OFF ASSEMBLY, 18" (45.7 CM) CONVEYOR, -METRIC-

| DESCRIPTION      | 1 Sq. Meter<br>LENGTH OF CUT<br>218 CM | 0.8 Sq. Meter<br>LENGTH OF CUT<br>175 CM | 0.75 Sq. Meter<br>LENGTH OF CUT<br>164 CM |
|------------------|----------------------------------------|------------------------------------------|-------------------------------------------|
| Camshaft pulley  | D2328                                  | D2327                                    | D2324                                     |
| Camshaft bushing | D3006                                  | D3022                                    | D3006                                     |
| Variable pulley  | A03132                                 | A03132                                   | A03132                                    |
| Stop return cam  | 001800                                 | 001801                                   | 001802                                    |
| 'V' Belt         | D2032                                  | D2034                                    | D2036                                     |

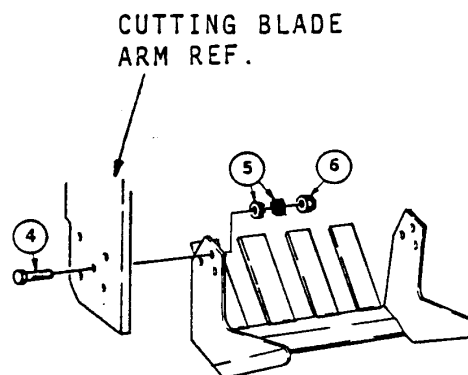
| 1550 Sod Harvester Sprocket Selection Chart        |                                                                                                                |              |                     |                                                                          |                       |              |                |                |              |                |
|----------------------------------------------------|----------------------------------------------------------------------------------------------------------------|--------------|---------------------|--------------------------------------------------------------------------|-----------------------|--------------|----------------|----------------|--------------|----------------|
| CUT-OFF LENGTH<br>(inches)<br>(metric)             | 18"<br>46cm                                                                                                    | 24"<br>61cm  | 36"<br>91cm         | 40.5"<br>103cm                                                           | 45"<br>114cm          | 48"<br>122cm | 48.4"<br>123cm | 51.6"<br>131cm | 54"<br>137cm | 56.5"<br>143cm |
| 8 - inch<br>Roller Sprocket                        | D1407<br>21T                                                                                                   | D1404<br>18T | D1407<br>21T        | D1407<br>21T                                                             | D1404<br>18T          | D1403<br>17T | D1405<br>19T   | D1409<br>23T   | D1404<br>15T | D1403<br>17T   |
| Roller Bushing                                     | For Machines with 16-inch and 18-inch cutterhead USE 83-H18<br>For Machines with 24-inch cutterhead USE 83-H20 |              |                     |                                                                          |                       |              |                |                |              |                |
| Roller Key                                         | Use 124422 for ALL units.                                                                                      |              |                     |                                                                          |                       |              |                |                |              |                |
| C a m s h a f t<br>Sprocket                        | D1401<br>15T                                                                                                   | D1402<br>16T | D1441<br>28T        | D1419<br>32T                                                             | D1418<br>31T          | D1418<br>31T | D1421<br>34T   | D1431<br>44T   | D1423<br>30T | D1423<br>36T   |
| Camshaft Bushing                                   | Use 83-H16SPL                                                                                                  |              | Use 83-P116 Bushing |                                                                          |                       |              |                |                |              |                |
|                                                    | For Machines with 24-inch cutterhead Use 83-P118                                                               |              |                     |                                                                          |                       |              |                |                |              |                |
| Camshaft Key                                       | Use 124422 for ALL units.                                                                                      |              |                     |                                                                          |                       |              |                |                |              |                |
| Return Stop 16/18"                                 | 001794                                                                                                         | 001793       | 001792              | 001791                                                                   | 016619                | 001790       | 001790         | 016618         | 014645       | 014645         |
| Return Stop 24"                                    |                                                                                                                | 014975       |                     |                                                                          |                       |              | 001790         | 001804         | 001789       |                |
| Note: Install Blade Dampener on units 48" & under. |                                                                                                                |              |                     |                                                                          |                       |              |                |                |              |                |
|                                                    |                                                                                                                |              |                     |                                                                          |                       |              |                |                |              |                |
| Roll Up System Sprockets                           |                                                                                                                |              |                     |                                                                          |                       |              |                |                |              |                |
| Roll Up Sprocket                                   |                                                                                                                |              |                     | D1418<br>31T                                                             | D1411<br>25T          | D1411<br>25T | D1411<br>25T   | D1409<br>23T   | D1410<br>24T | D1411<br>25T   |
| Roll Up Bushing                                    |                                                                                                                |              |                     | 83-P116                                                                  | Use 83-H16SPL Bushing |              |                |                |              |                |
| Roll Up Key                                        |                                                                                                                |              |                     | Use G8019 for ALL units.                                                 |                       |              |                |                |              |                |
| Driveshaft<br>Sprocket                             |                                                                                                                |              |                     | D1106<br>16T                                                             | D1106<br>16T          | D1106<br>16T | D1106<br>16T   | D1106<br>16T   | D1108<br>18T | D1111<br>20T   |
| Driveshaft Key                                     |                                                                                                                |              |                     | Use 124458 for ALL units.                                                |                       |              |                |                |              |                |
| 4 - inch Roller<br>(rubber mat)<br>(mintex mat)    |                                                                                                                |              |                     | On units with rubber mat Use D1104<br>On units with mintex mat Use D1109 |                       |              |                |                |              |                |
| 4" Roller Drive<br>(rubber mat)<br>(mintex mat)    |                                                                                                                |              |                     | On units with rubber mat Use D1113<br>On units with mintex mat Use D1110 |                       |              |                |                |              |                |

|                            |                              |                              |                            |                              |                              |                            |                            |                              |                            |                              |                            |
|----------------------------|------------------------------|------------------------------|----------------------------|------------------------------|------------------------------|----------------------------|----------------------------|------------------------------|----------------------------|------------------------------|----------------------------|
|                            |                              |                              |                            |                              |                              |                            |                            |                              |                            |                              |                            |
| <b>60"</b><br><b>152cm</b> | <b>64.6"</b><br><b>164cm</b> | <b>68.9"</b><br><b>175cm</b> | <b>72"</b><br><b>183cm</b> | <b>72.8"</b><br><b>185cm</b> | <b>77.6"</b><br><b>197cm</b> | <b>80"</b><br><b>203cm</b> | <b>81"</b><br><b>206cm</b> | <b>85.8"</b><br><b>218cm</b> | <b>90"</b><br><b>229cm</b> | <b>96.9"</b><br><b>246cm</b> | <b>98"</b><br><b>249cm</b> |
| D1408<br>22T               | D1404<br>18T                 | D1402<br>16T                 | D1404<br>18T               | D1402<br>16T                 | D1401<br>15T                 | D1403<br>17T               | D1402<br>16T               | D1403<br>17T                 | D1402<br>16T               | D1401<br>15T                 | D1401<br>15T               |
|                            |                              |                              |                            |                              |                              |                            |                            |                              |                            |                              |                            |
| D1435<br>50T               | 015443<br>43T                | D1428<br>41T                 | D1434<br>48T               | 015443<br>43T                | 015443<br>43T                | D1435<br>50T               | D1434<br>48T               | D1437<br>54T                 | D1437<br>54T               | D1437<br>54T                 | D1437<br>55T               |
| Use 83-P116 Bushing        |                              |                              |                            |                              |                              |                            |                            |                              |                            |                              |                            |
|                            |                              |                              |                            |                              |                              |                            |                            |                              |                            |                              |                            |
| 001788                     | 001802                       | 001801                       | 001787                     | 001787                       | 001799                       | 001376                     | 001376                     | 001800                       | 015553                     | 014974                       | 014974                     |
|                            | 001803                       |                              | 014040                     |                              |                              |                            | 001377                     |                              |                            |                              |                            |
|                            |                              |                              |                            |                              |                              |                            |                            |                              |                            |                              |                            |
|                            |                              |                              |                            |                              |                              |                            |                            |                              |                            |                              |                            |
| D1411<br>25T               | D1410<br>24T                 | D1402<br>16T                 | D1402<br>16T               | D1402<br>16T                 | D1406<br>20T                 | D1406<br>20T               | D1406<br>20T               | D1406<br>20T                 | D1406<br>20T               | D1402<br>16T                 | D1402<br>16T               |
| Use 83-H16SPL Bushing      |                              |                              |                            |                              |                              |                            |                            |                              |                            |                              |                            |
|                            |                              |                              |                            |                              |                              |                            |                            |                              |                            |                              |                            |
| D1117<br>21T               | D1117<br>21T                 | D1103<br>15T                 | D1103<br>15T               | D1103<br>15T                 | D1111<br>20T                 | D1111<br>20T               | D1111<br>20T               | D1117<br>21T                 | D1117<br>21T               | D1108<br>18T                 | D1108<br>18T               |
|                            |                              |                              |                            |                              |                              |                            |                            |                              |                            |                              |                            |
|                            |                              |                              |                            |                              |                              |                            |                            |                              |                            |                              |                            |
|                            |                              |                              |                            |                              |                              |                            |                            |                              |                            |                              |                            |

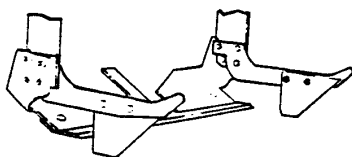
| <b>CONTENTS</b>                    | <b>PAGE</b> |
|------------------------------------|-------------|
| Standard Blade w/Sod Guide Bracket | 21-2        |
| 3 Piece Uni-Blade                  | 21-4        |
| 3 Piece Cutting Blade              | 21-6        |



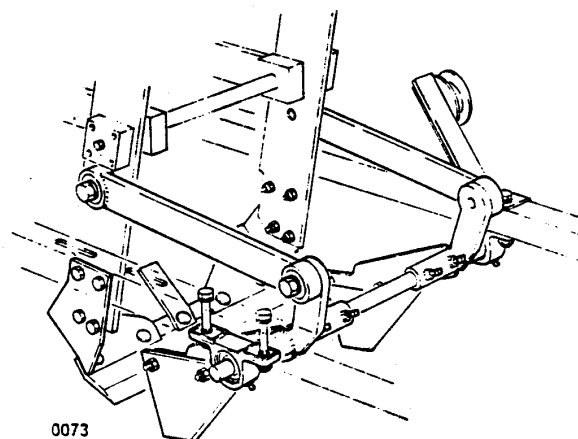
**1** STANDARD BLADE  
WITH SOD GUIDE BRACKET  
STANDARD ON 16" & 18"  
NO OPTION FOR 24"



**7** SOD BLADE  
WITH FINGERS,  
STANDARD ON 24"  
OPTION ON 16" & 18"



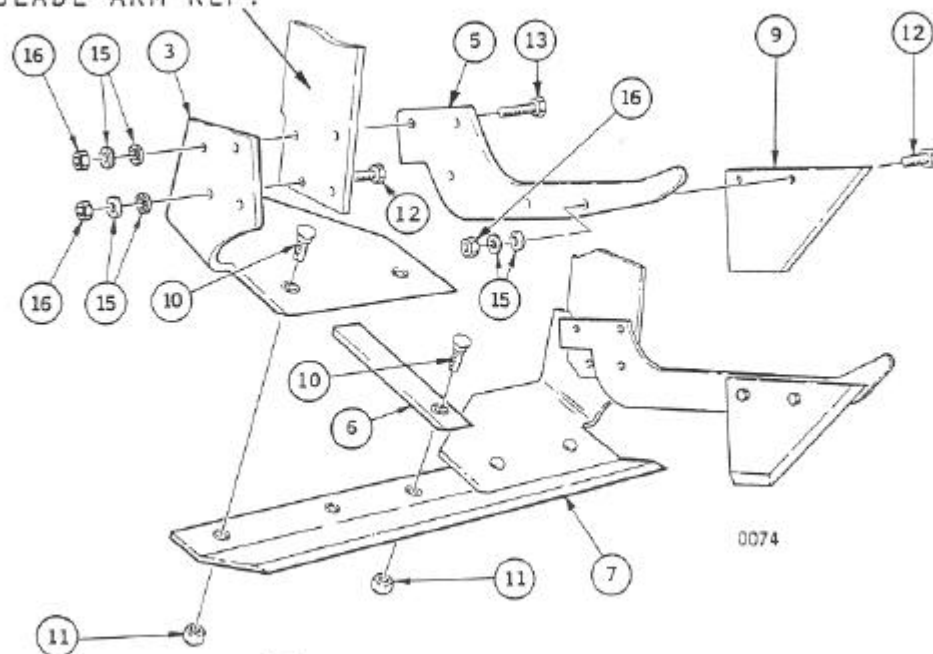
BROUWER 3 PIECE  
UNIBLADE  
OPTION ON 16" & 18"  
ONLY



BROUWER 3 PIECE  
CUTTING BLADE,  
OPTION ON 16" & 18"  
ONLY

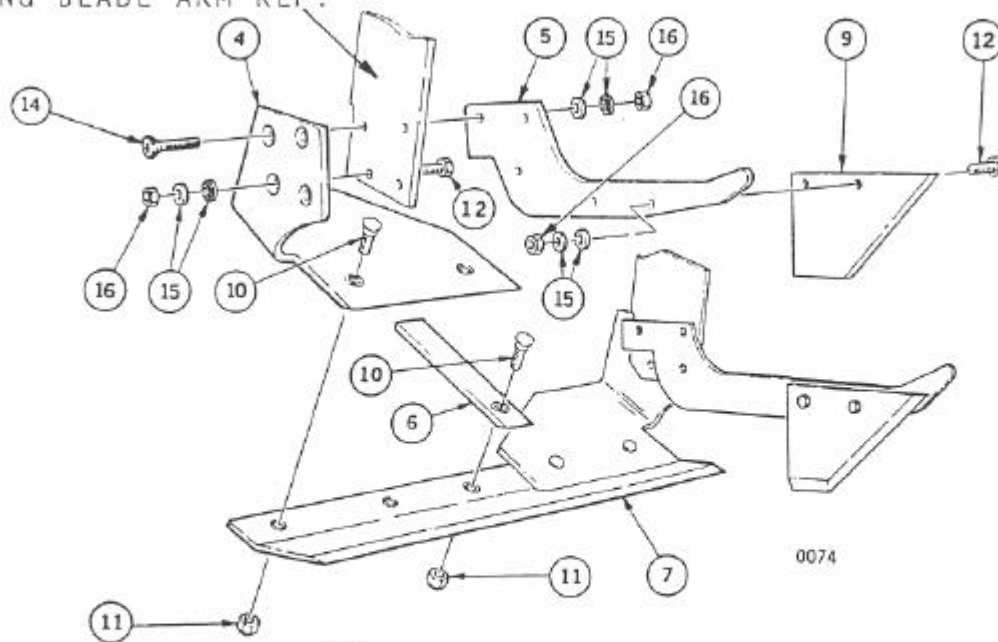
| <b>Ref</b> | <b>Part no.</b> | <b>Description</b>                | <b>Quantity</b> |
|------------|-----------------|-----------------------------------|-----------------|
| 1          | A03118          | KIT, STD. CUTTING BLADE -16" WIDE | 1               |
|            | A03119          | KIT, STD. CUTTING BLADE -18" WIDE | 1               |
| 2          | 015638          | CUTTING BLADE STD. 16"            | 1               |
|            | 015639          | CUTTING BLADE STD. 18"            | 1               |
| 3          | 002403          | GUIDE, SOD 16"                    | 1               |
|            | 002404          | GUIDE, SOD 18"                    | 1               |
| 4          | 515011          | SCREW, 5/16 X 1" HHCS GR.8        | 10              |
| 5          | F2076           | WASHER, DISC LOCK                 | 10              |
| 6          | F2002           | NUT, HEX 5/16 NF                  | 10              |
| 7          | 015642          | CUTTING BLADE COMBO 16"           | 1               |
|            | 015643          | CUTTING BLADE COMBO 18"           | 1               |
|            | 015644          | CUTTING BLADE COMBO 24"           | 1               |
|            | 515011          | SCREW, 5/16-24 X 1" HHCS GR.8     | 6               |
|            | F2076           | WASHER, DISC LOCK                 | 6               |
|            | F2002           | NUT, HEX 5/16 NF                  | 6               |

CUTTING BLADE ARM REF.



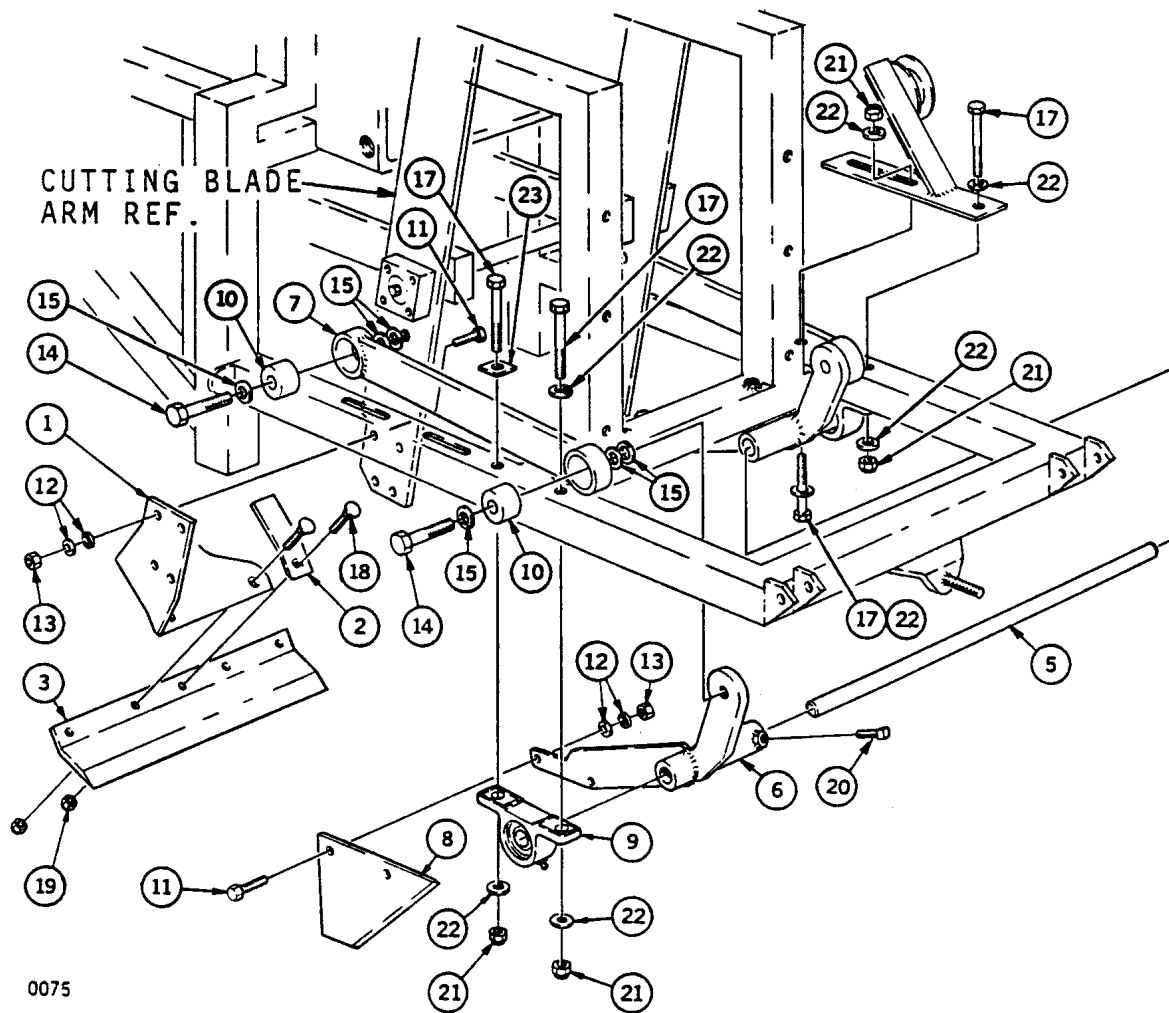
1  
3 PIECE UNIBLADE, 16"

CUTTING BLADE ARM REF.



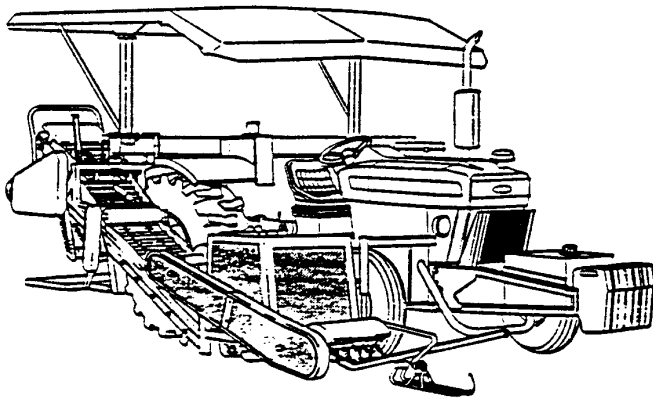
2  
3 PIECE UNIBLADE, 18"

| <b>Ref</b> | <b>Part no.</b> | <b>Description</b>             | <b>Quantity</b> |
|------------|-----------------|--------------------------------|-----------------|
|            |                 | 3 PIECE UNI-BLADE              |                 |
| 1          | A03356          | KIT, UNIBLADE 16" WIDE         | 1               |
| 2          | A03357          | KIT, UNIBLADE-18" WIDE         | 1               |
| 3          | 015178          | BLADE HOLDER RH 16"            | 1               |
|            | 015177          | BLADE HOLDER LH 16"            | 1               |
| 4          | 015180          | BLADE HOLDER RH 18"            | 1               |
|            | 015179          | BLADE HOLDER RH 18"            | 1               |
| 5          | 015183          | SIDE BLADE HOLDER              | 2               |
| 6          | 015184          | SOD GUIDE, CENTER              | 1               |
| 7          | 001547          | 16" BROUWER BOTTOM BLADE       | 1               |
| 8          | 001548          | BLADE, 18" BROUWER BOTTOM      | 1               |
| 9          | 001550          | BLADE, SIDE CUTTER .093 X 3.25 | 2               |
| 10         | F3701           | BOLT, PLOW GR 5                | 5               |
| 11         | 99-E40          | LOCKNUT, NYLON 3/8             | 5               |
| 12         | 515011          | SCREW, 5/16 X 1" HHCS GR.8     | 6               |
|            | 515011          | SCREW, 5/16 X 1" HHCS GR.8     | 4               |
| 13         | F2716           | BOLT, 5/16 X 1-1/2" NF         | 6               |
| 14         | F2717           | SCREW, HEX SOCKET CAP FLAT     | 8               |
| 15         | F2076           | WASHER, DISC LOCK              | 12              |
| 16         | F2002           | NUT, HEX 5/16 NF               | 12              |



| <b>Ref</b> | <b>Part no.</b> | <b>Description</b>              | <b>Quantity</b> |
|------------|-----------------|---------------------------------|-----------------|
|            |                 | 3-PIECE CUTTING BLADE           |                 |
| 1          | 001623          | BLADE HOLDER, LH                | 1               |
|            | 001625          | BLADE HOLDER, RH                | 1               |
| 2          | 001624          | BLADE HOLDER, CENTER            | 1               |
| 3          | 001547          | 16" BROUWER BOTTOM BLADE        | 1               |
|            | 001548          | BLADE, 18" BROUWER BOTTOM       | 1               |
| 4          | A03533          | CUTTING BLADE ARM (PAIR OF 2)   | 2               |
| 5          | 001229          | SHAFT, SIDE CUTTER BLADE 16/18" | 1               |
| 6          | 001242          | ARM - SIDE CUTTER               | 1               |
|            | 001237          | ARM- SIDE CUTTER                | 1               |
|            | 001241          | ARM - SIDE CUTTER               | 1               |
|            | 001236          | ARM - SIDE CUTTER               | 1               |
| 7          | 001240          | ROD, SIDECUTTER CONNECTING      | 2               |
| 8          | 001550          | BLADE, SIDE CUTTER .093 X 3.25  | 2               |
| 9          | B1001           | BEARING, PILLOW BLOCK:-1"       | 2               |
| 10         | B2004           | BEARING, BALL: -5/8"            | 8               |
| 11         | 515011          | SCREW, 5/16 X 1" HHCS GR.8      | 12              |
| 12         | F2076           | WASHER, DISC LOCK               | 12              |
| 13         | F2002           | NUT, HEX 5/16 NF                | 12              |
| 14         | 91-1016         | BOLT, 5/8 X 2 NF                | 4               |
| 15         | F6054           | WASHER, FLAT-5/8" ID X 7/8"     | 12              |
| 16         | 93-10           | NUT, 5/8 NF                     | 4               |
| 17         | 90-0732         | BOLT, 7/16 X 4                  | 4               |
| 18         | F3701           | BOLT, PLOW GR 5                 | 5               |
| 19         | 99-E40          | LOCKNUT, NYLON 3/8              | 5               |
| 20         | F3604           | SCREW, SQ HD SET                | 4               |
| 21         | F4003           | LOCKNUT, NYLON 7/16             | 4               |
| 22         | F5052           | WASHER,FLAT 1/2" SAE GR.9       | 5               |
| 23         | 014095          | WASHER                          | 1               |

# BROUWER OPTIONS



## SOD HARVESTER MODEL 1550

### BROUWER COMPLETE ROLL UP SYSTEM

|                            |      |
|----------------------------|------|
| 4" Roller & Drive Assembly | 23-1 |
| Starter Tray               | 24-1 |
| Basic Roll Up Conveyor     | 25-1 |
| Complete Roll Up Conveyor  | 26-1 |

A ROLL UP CONVERSION KIT Part number A03253 is available which contains all the items required to convert a Slabbing or Folding unit to a Roll Up Unit and consists of:

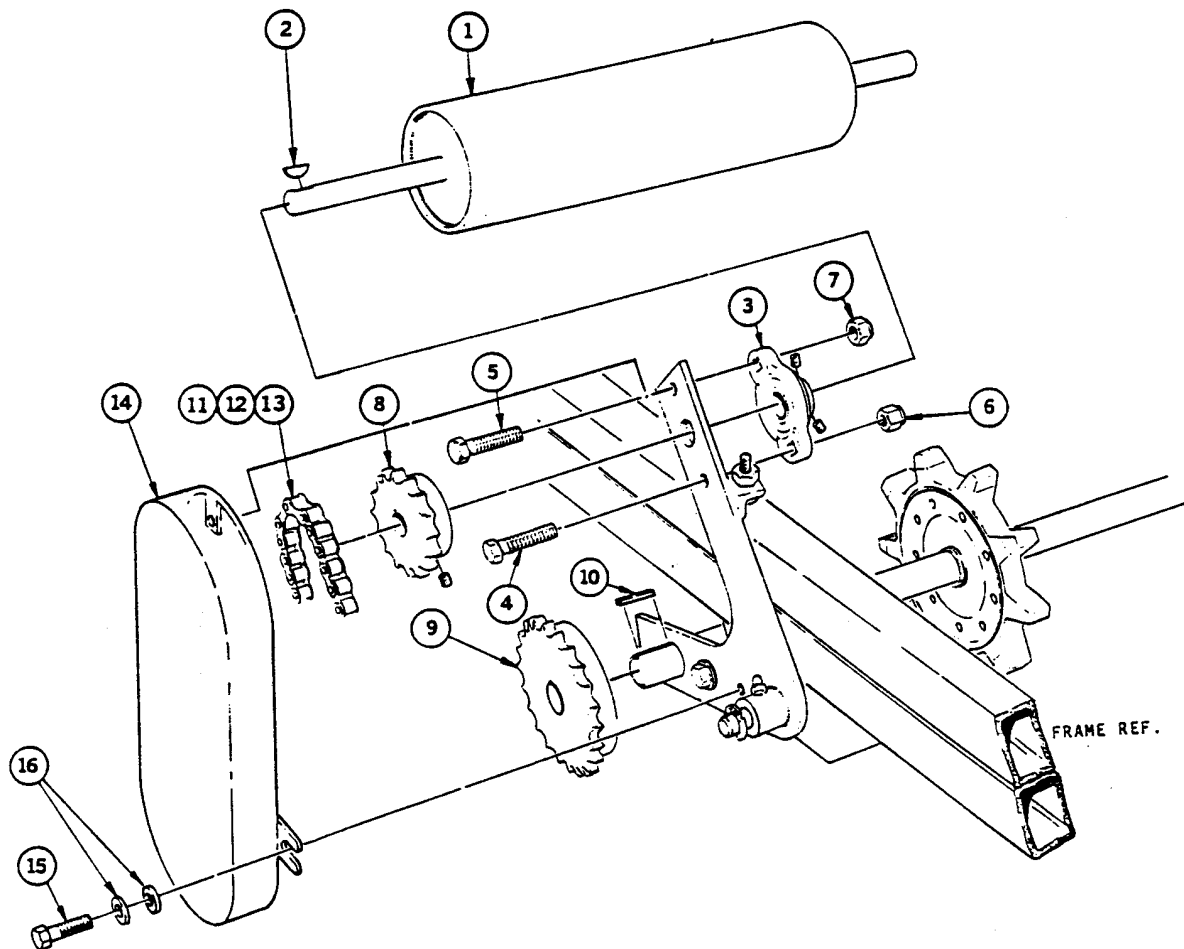
|                              |           |
|------------------------------|-----------|
| 4" Roller and Drive Assembly | 16" & 18" |
| Single Starter Tray          | 16" & 18" |
| Basic Roll Up Conveyor       | 16" & 18" |
| Complete Roll Up Conveyor    | 16" & 18" |

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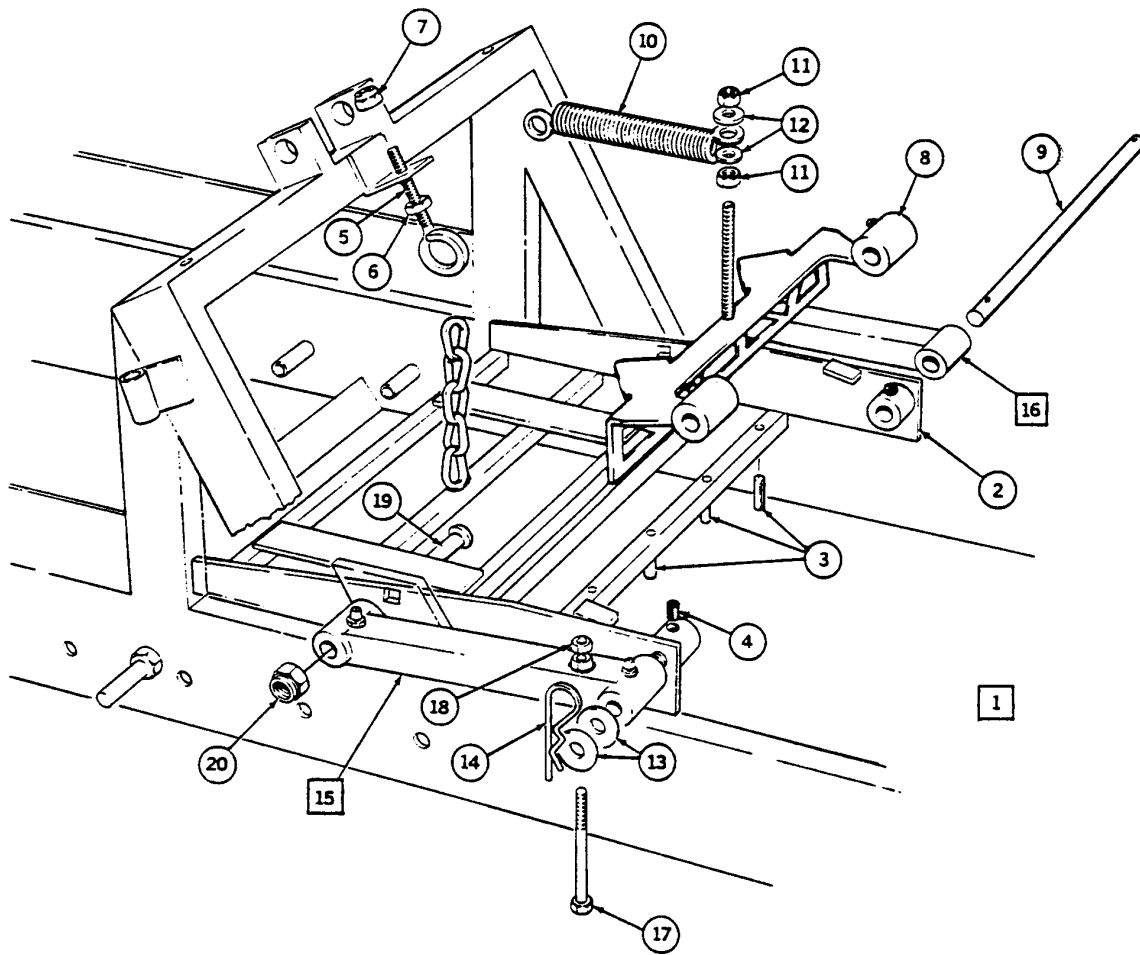
4" Roller & Drive Assembly

23-2

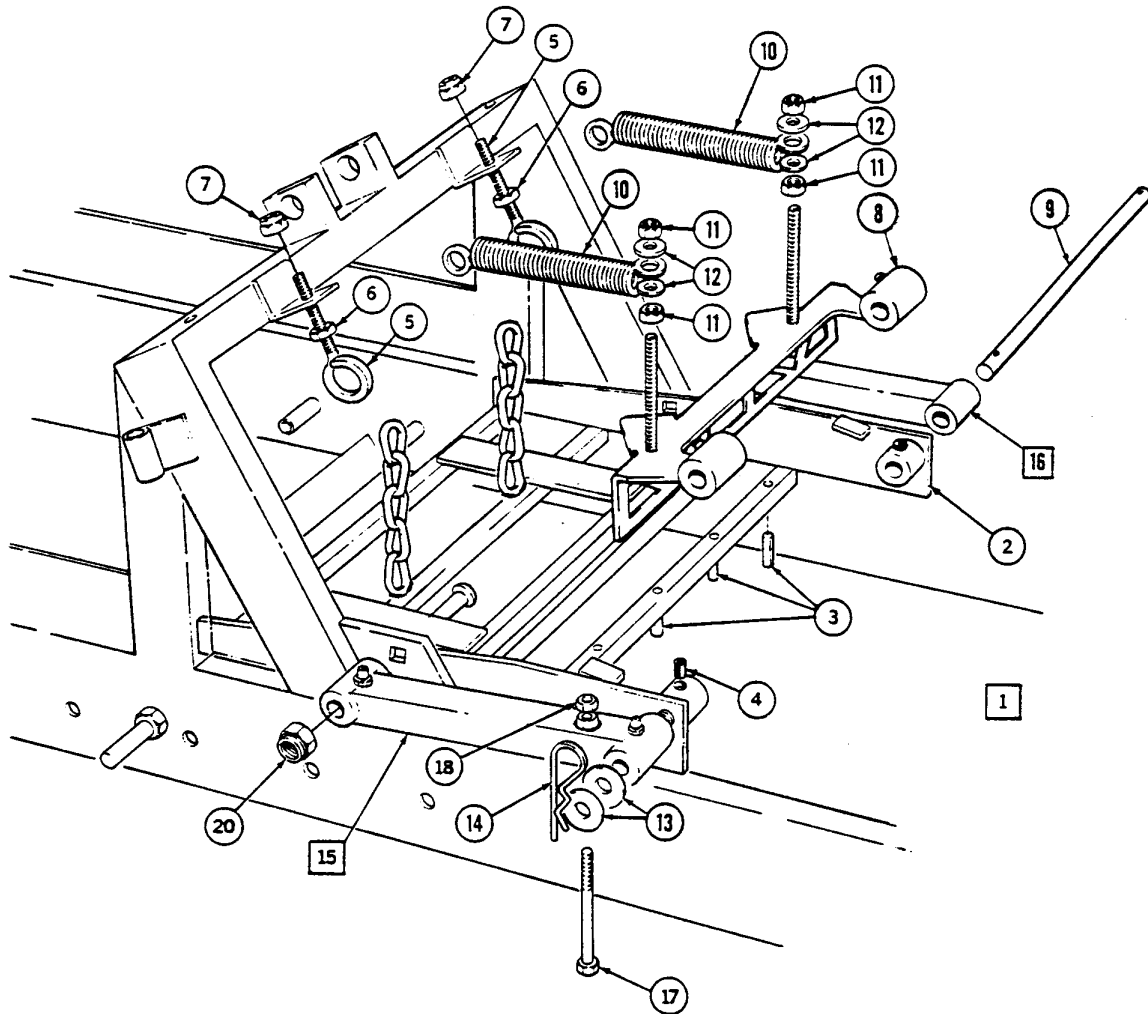


| <b>Ref</b> | <b>Part no.</b> | <b>Description</b>              | <b>Quantity</b> |
|------------|-----------------|---------------------------------|-----------------|
| 1          | 014204          | ROLLER, 4" DIA -16/18"          | 1               |
|            | 001437          | ROLLER, 4" DIA -24"             | 1               |
| 2          | 85-W0306        | KEY, WOODRUFF 3/16 X 3/4        | 1               |
| 3          | B0002           | BEARING, FLANGE: -5/8"SET SCREW | 2               |
| 4          | 90-0410         | BOLT, 1/4 X 1-1/4               | 3               |
| 5          | 90-0512         | BOLT, 5/16 X 1-1/2              | 1               |
| 6          | 99-E39          | LOCKNUT, NYLON 1/4              | 3               |
| 7          | 99-E38          | LOCKNUT, NYLON 5/16             | 1               |
| 8          | D1104           | SPROCKET, FIXED #4016X5/8 BORE  | 1               |
|            | D1104           | SPROCKET, FIXED #4016X5/8 BORE  | 1               |
| 9          | D1113           | SPROCKET, FIXED #4024X3/4 BORE  | 1               |
|            | D1110           | SPROCKET, FIXED #4019X3/4 BORE  | 1               |
| 10         | 85-K0310        | KEY, SQ. 3/16 X 3/16 X 1-1/4    | 1               |
| 11         | 114001          | CHAIN, ROLLER: #40 X 31.5" LONG | 1               |
| 12         | 81-056          | CONNECTOR LINK, #40             | 1               |
| 13         | 81-076          | HALFLINK, #40                   | 1               |
| 14         | 001470          | GUARD, 4" ROLLER DRIVE          | 1               |
| 15         | 90-0506         | BOLT, 5/16 X 3/4                | 1               |
| 16         | 94-05           | FLAT WASHER, 5/16               | 1               |

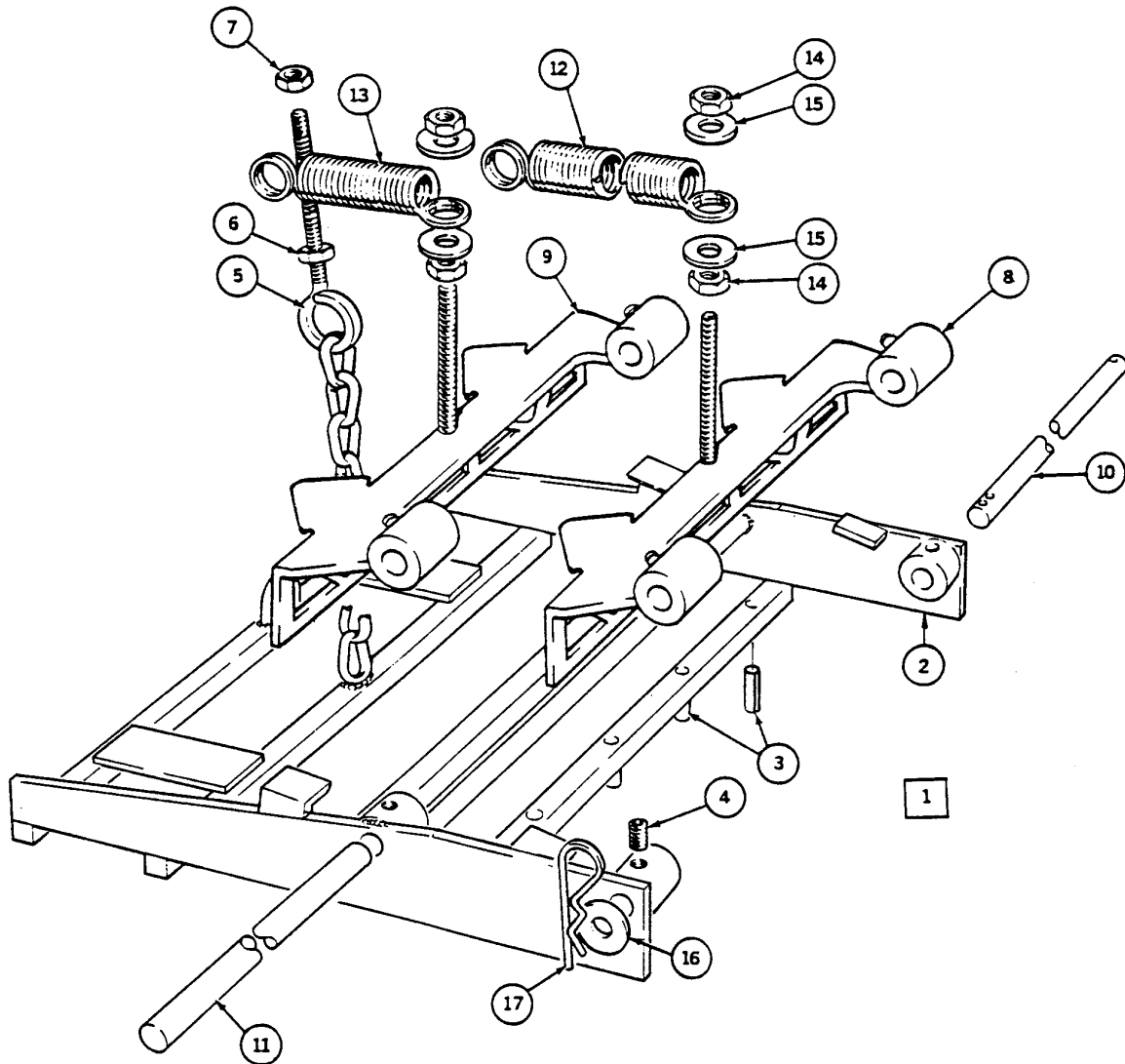
| <b>CONTENTS</b>             | <b>PAGE</b> |
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| Single Starter Tray, 16/18" | 24-2        |
| Single Starter Tray, 24"    | 24-4        |
| Double Starter Tray, 16/18" | 24-6        |



| <b>Ref</b> | <b>Part no.</b> | <b>Description</b>          | <b>Quantity</b> |
|------------|-----------------|-----------------------------|-----------------|
| 1          | A03016          | ASSY., STARTER TRAY -16/18" | 1               |
| 2          | A03541          | ASSY., STARTER TRAY FRAME   | 1               |
| 3          | G2310           | PIN, SPRING TENSION         | 5               |
| 4          | 85-SS14         | SET SCREW, 3/8 X 3/8 SKTHD  | 2               |
| 5          | 002102          | EYEBOLT, STARTER TRAY       | 1               |
| 6          | 92-05           | NUT, 5/16                   | 1               |
| 7          | 99-E38          | LOCKNUT, NYLON 5/16         | 1               |
| 8          | 001379          | GATE, STARTER TRAY 16"/18"  | 1               |
|            | 29-010          | GREASE FITTING, 1/4 SHORT   | 2               |
| 9          | 001380          | SHAFT, STARTER TRAY GATE    | 1               |
| 10         | 001277          | SPRING, STARTER TRAY        | 1               |
| 11         | 92-06           | NUT, 3/8                    | 2               |
| 12         | 94-06           | FLAT WASHER, 3/8 USS ZP     | 2               |
| 13         | 94-08           | FLAT WASHER, 1/2 USS ZP     | 4               |
| 14         | 02-PP0420       | PRESTO PIN, 1/8 X 2-9/16    | 2               |
| 15         | A03044          | ASSY., STARTER TRAY ARM -LH | 1               |
| 16         | A03043          | ASSY., STARTER TRAY ARM -RH | 1               |
|            | 29-010          | GREASE FITTING, 1/4 SHORT   | 2               |
| 17         | F3747           | BOLT, 3/8 X 4               | 1               |
| 18         | 92-06           | NUT, 3/8                    | 1               |
| 19         | F5102           | BOLT, CARRIAGE 1/2 X 3      | 2               |
| 20         | 99-E41          | LOCKNUT, NYLON 1/2          | 2               |



| <b>Ref</b> | <b>Part no.</b> | <b>Description</b>          | <b>Quantity</b> |
|------------|-----------------|-----------------------------|-----------------|
| 1          | A03017          | ASSY., STARTER TRAY -24"    | 1               |
| 2          | A03542          | ASSY., STARTER TRAY FRAME   | 1               |
| 3          | G2310           | PIN, SPRING TENSION         | 7               |
| 4          | 85-SS14         | SET SCREW, 3/8 X 3/8 SKTHD  | 2               |
| 5          | 002102          | EYEBOLT, STARTER TRAY       | 2               |
| 6          | 92-05           | NUT, 5/16                   | 2               |
| 7          | 99-E38          | LOCKNUT, NYLON 5/16         | 2               |
| 8          | 001379          | GATE, STARTER TRAY 16"/18"  | 1               |
|            | 29-010          | GREASE FITTING, 1/4 SHORT   | 2               |
| 9          | 001380          | SHAFT, STARTER TRAY GATE    | 1               |
| 10         | 001277          | SPRING, STARTER TRAY        | 2               |
| 11         | 92-06           | NUT, 3/8                    | 4               |
| 12         | 94-06           | FLAT WASHER, 3/8 USS ZP     | 4               |
| 13         | 94-08           | FLAT WASHER, 1/2 USS ZP     | 4               |
| 14         | 02-PP0420       | PRESTO PIN, 1/8 X 2-9/16    | 2               |
| 15         | A03044          | ASSY., STARTER TRAY ARM -LH | 1               |
| 16         | A03043          | ASSY., STARTER TRAY ARM -RH | 1               |
|            | 29-010          | GREASE FITTING, 1/4 SHORT   | 4               |
| 17         | F3747           | BOLT, 3/8 X 4               | 2               |
| 18         | 92-06           | NUT, 3/8                    | 2               |
| 19         | F5102           | BOLT, CARRIAGE 1/2 X 3      | 2               |
| 20         | 99-E41          | LOCKNUT, NYLON 1/2          | 2               |



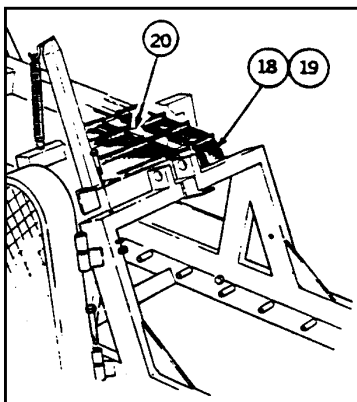
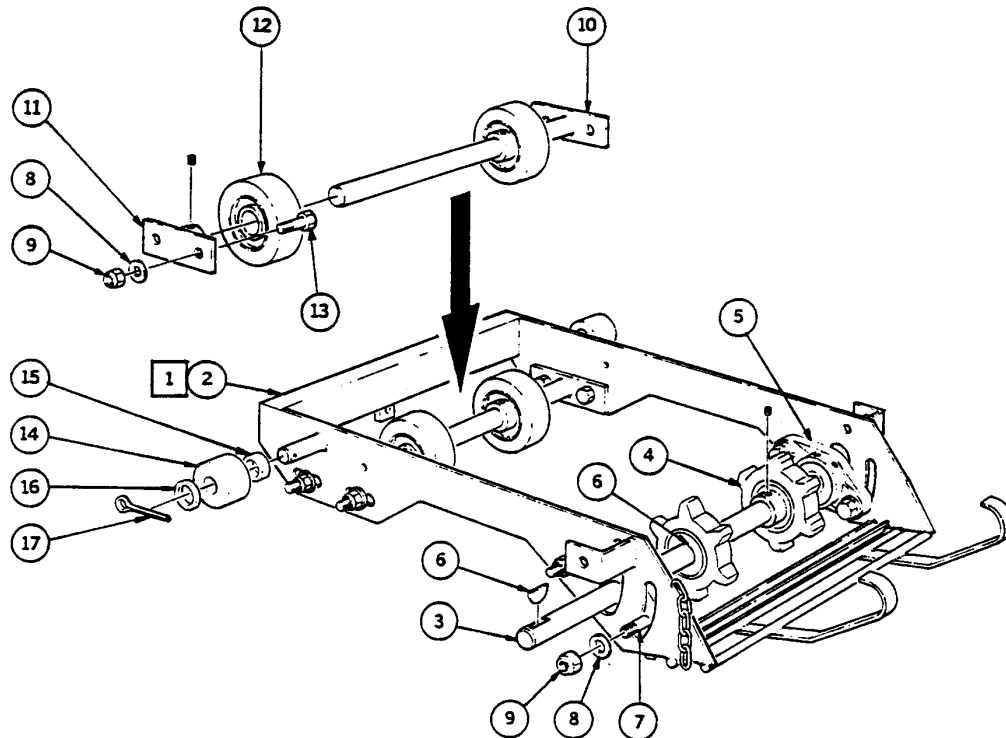
| <b>Ref</b>                                                  | <b>Part no.</b> | <b>Description</b>             | <b>Quantity</b> |
|-------------------------------------------------------------|-----------------|--------------------------------|-----------------|
| 1                                                           | A03140          | ASSY., DOUBLE STARTER          | 1               |
| 2                                                           | A03543          | ASSY., STARTER TRAY FRAME      | 1               |
| 3                                                           | G2310           | PIN, SPRING TENSION            | 7               |
| 4                                                           | 85-SS14         | SET SCREW, 3/8 X 3/8 SKTHD     | 4               |
| 5                                                           | 002102          | EYEBOLT, STARTER TRAY          | 1               |
| 6                                                           | 92-05           | NUT, 5/16                      | 1               |
| 7                                                           | 99-E38          | LOCKNUT, NYLON 5/16            | 1               |
| 8                                                           | 001379          | GATE, STARTER TRAY 16"/18"     | 1               |
| 9                                                           | 001838          | GATE, STARTER TRAY 16"/18" DBL | 1               |
|                                                             | 29-010          | GREASE FITTING, 1/4 SHORT      | 4               |
| 10                                                          | 001380          | SHAFT, STARTER TRAY GATE       | 1               |
| 11                                                          | 015700          | SHAFT                          | 1               |
| 12                                                          | 001277          | SPRING, STARTER TRAY           | 1               |
| 13                                                          | 001279          | SPRING, SCRAPER BLADE          | 1               |
| 14                                                          | 92-06           | NUT, 3/8                       | 4               |
| 15                                                          | 94-06           | FLAT WASHER, 3/8               | 4               |
| 16                                                          | 94-07           | FLAT WASHER, 7/16              | 2               |
| 17                                                          | 02-PP0420       | PRESTO PIN, 1/8 X 2-9/16       | 2               |
| NOTE: FOR STARTER TRAY ARM ASSY.<br>SEE SINGLE STARTER TRAY |                 |                                |                 |

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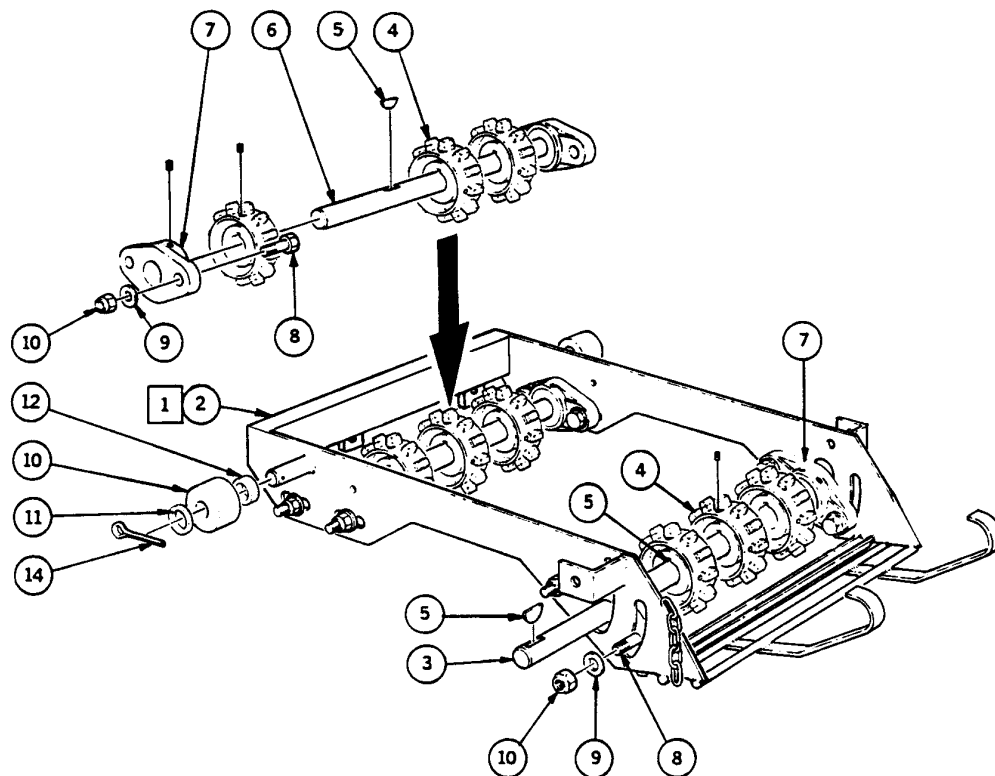
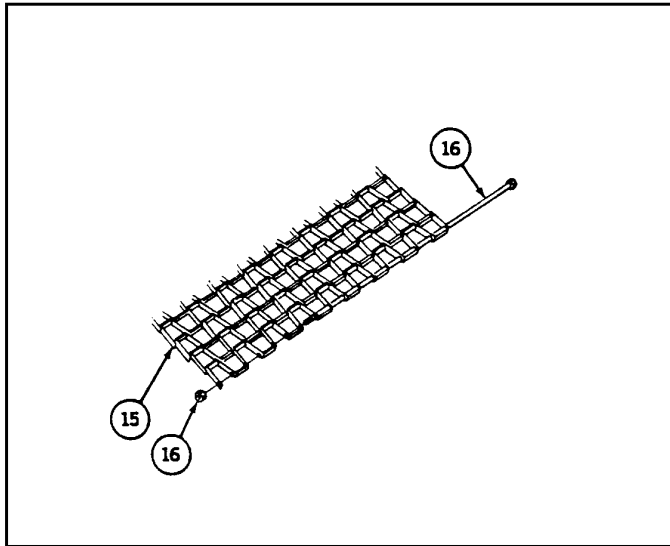
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Basic Roll-up Conveyor

25-2

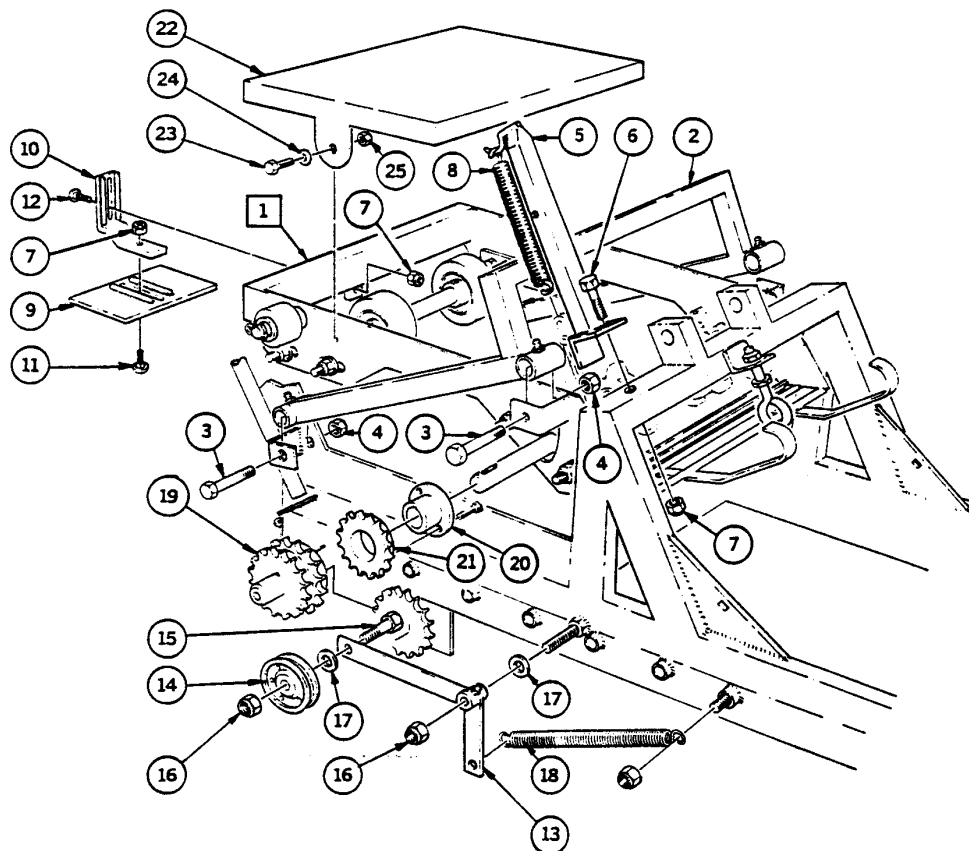
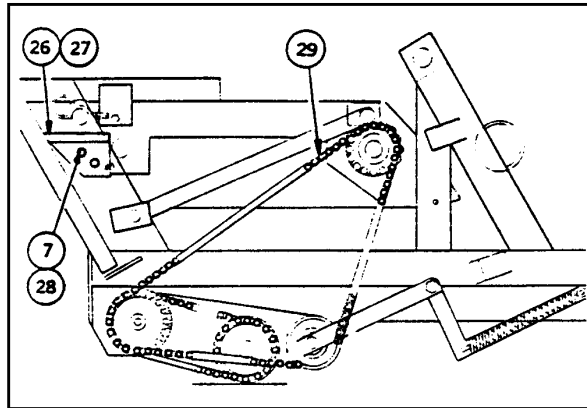
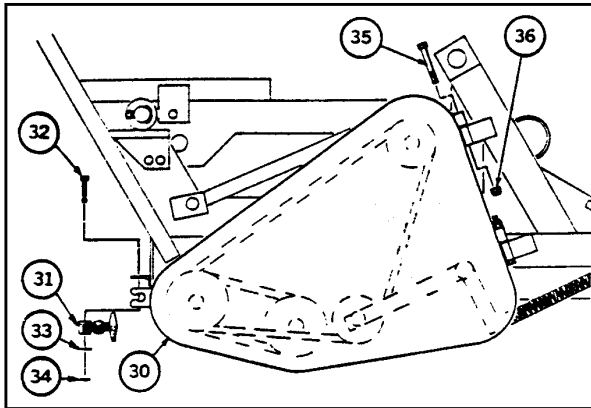


| <b>Ref</b> | <b>Part no.</b> | <b>Description</b>               | <b>Quantity</b> |
|------------|-----------------|----------------------------------|-----------------|
| 1          | A03268          | ASSY., RUBBER BELT ROLLUP        | 1               |
| 2          | 014196          | ROLLUP TRAY FRAME                | 1               |
| 3          | 014217          | SHAFT                            | 1               |
| 4          | A03186          | ASSY., DRIVE SPROCKET            | 2               |
|            | 014268          | DRIVESPROCKET                    | 2               |
| 5          | 55-FB23016      | BEARING, 2-BOLT FLANGE 1"        | 2               |
| 6          | G8019           | KEY, WOODRUFF 1/4 X 1"           | 3               |
| 7          | 90-0712         | BOLT, 7/16 X 1-1/2               | 4               |
| 8          | F5052           | WASHER, FLAT 1/2" SAE GR.9       | 6               |
| 9          | F4003           | LOCKNUT, NYLON 7/16              | 8               |
| 10         | 014580          | SHAFT, ROLLUP IDLER              | 1               |
| 11         | 015429          | MOUNT, SHAFT                     | 2               |
| 12         | A03184          | ASSY., IDLER                     | 2               |
|            | 014074          | IDLER ROLLER                     | 1               |
|            | B2022           | BEARING, BALL 1" (SETSCREW)      | 1               |
| 13         | 90-0710         | BOLT, 7/16 X 1-1/4               | 4               |
| 14         | 014085          | NYLON ROLLER, ROLL-UP TRAY       | 2               |
| 15         | 014087          | SPACER, 21/32 - ROLL-UP TRAY     | 2               |
| 16         | 014086          | SPACER, 1/4" -ROLL-UP TRAY       | 2               |
| 17         | G2222           | PIN: COTTER: 3/16" DIA X 2" LONG | 2               |
| 18         | 200535          | BELT, ROLLUP OPTION              | 1               |
| 19         | G8008           | MAT SPLICER                      | 4               |
| 20         | M5103           | CLIP, TRACK (WIDE)               | 46              |

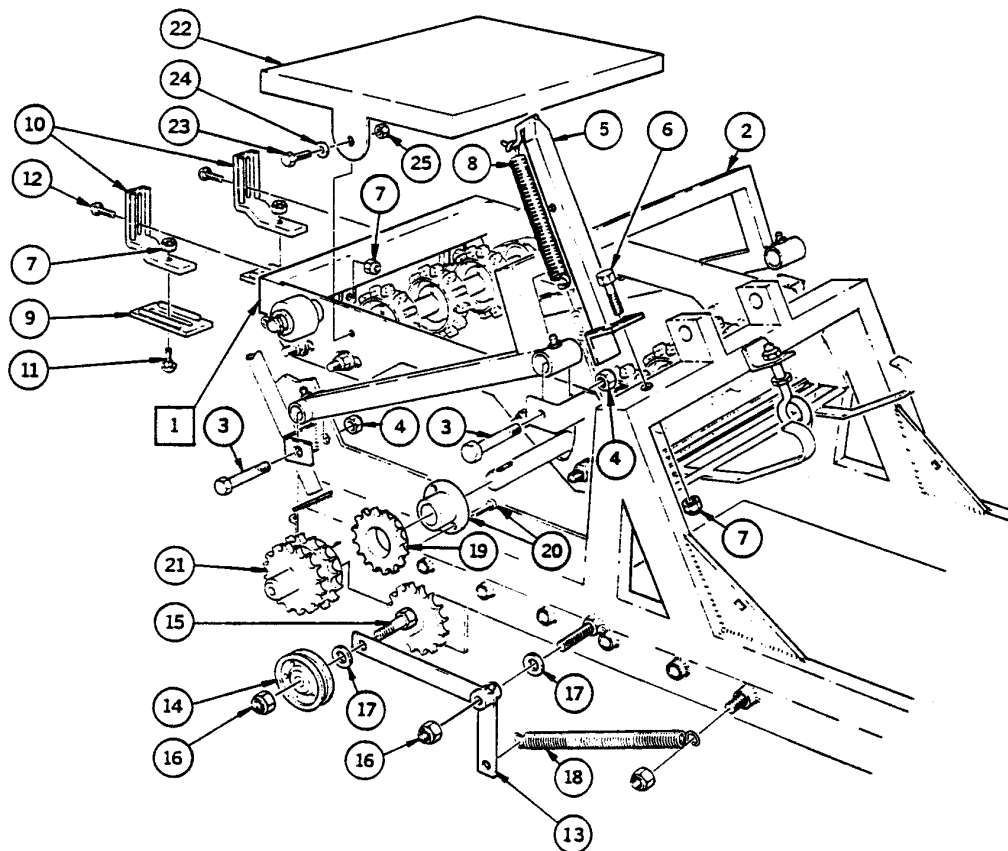


| <b>Ref</b> | <b>Part no.</b> | <b>Description</b>                | <b>Quantity</b> |
|------------|-----------------|-----------------------------------|-----------------|
| 1          | A03023          | ASSY., MINTEX ROLLUP 24"          | 1               |
| 2          | 001414          | ROLLUP TRAY FRAME, 24"            | 1               |
|            | REF             | ROLLUP DRIVE SHAFT ASSY., 24"     |                 |
| 3          | 001390          | SHAFT, DRIVE- ROLL UP             | 1               |
| 4          | 001348          | SPROCKET, CONVEYOR 4" CAST        | 3               |
|            | 85-SS14         | SET SCREW, 3/8 X 3/8 SKTHD        | 2               |
| 5          | 124422          | KEY, 1/4 X 1/4 X 1-3/8            | 3               |
|            | REF             | IDLER SHAFT ASSY., 24"            |                 |
| 6          | 001388          | SHAFT, ROLLUP IDLER - 24"         | 1               |
|            | 001348          | SPROCKET, CONVEYOR 4" CAST        | 3               |
|            | 85-SS14         | SET SCREW, 3/8 X 3/8 SKTHD        | 2               |
|            | 124422          | KEY, 1/4 X 1/4 X 1-3/8            | 3               |
| 7          | 55-FB23016      | BEARING, 2-BOLT FLANGE 1"         | 4               |
| 8          | 90-0712         | BOLT, 7/16 X 1-1/2                | 4               |
| 9          | F5052           | WASHER,FLAT 1/2" SAE GR. 9        | 4               |
| 10         | F4003           | LOCKNUT, NYLON 7/16               | 4               |
| 11         | 014085          | NYLON ROLLER, ROLL-UP TRAY        | 2               |
| 12         | 014087          | SPACER, 21/32 - ROLL UP TRAY      | 2               |
| 13         | 014086          | SPACER, 1/4"-ROLL UP TRAY         | 2               |
| 14         | G2222           | PIN: COTTER: -3/16" DIA X 2" LONG | 2               |
| 15         | 001499          | BELT, MINTEX ROLL UP              | 1               |
| 16         | 001465          | CONNECTOR, 18" MINTEX MAT         | 1               |

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| Complete Roll-up Conveyor, Rubber, 16/18" | 26-2        |
| Complete Roll-up Conveyor, Mintex 24"     | 26-4        |



| <b>Ref</b> | <b>Part no.</b> | <b>Description</b>              | <b>Quantity</b> |
|------------|-----------------|---------------------------------|-----------------|
| 1          | A03268          | ASSY., RUBBER BELT ROLLUP       | 1               |
| 2          | 001707          | FRAME, TRAY REINFORCEMENT       | 1               |
|            | 29-010          | GREASE FITTING, 1/4 SHORT       | 4               |
| 3          | 90-0824         | BOLT, 1/2 X 3                   | 4               |
| 4          | F5012           | NUT, JAM NYLON INSERT           | 4               |
| 5          | 001298          | HOLDER, SPRING ROLL UP          | 1               |
| 6          | 90-0624         | BOLT, 3/8 X 3                   | 1               |
| 7          | 99-E40          | LOCKNUT, NYLON 3/8              | 2               |
| 8          | S2003           | SPRING, EXTENSION               | 1               |
| 9          | 001391          | FLAP ADJUSTER                   | 1               |
| 10         | 001393          | FLAP ADJUSTER BRACKET           | 1               |
| 11         | 97-0608         | CARRIAGE BOLT, 3/8 X 1          | 1               |
| 12         | 97-0612         | CARRIAGE BOLT, 3/8 X 1-1/2      | 1               |
| 13         | 001375          | ROLLUP DRIVE IDLER ARM          | 1               |
|            | 29-010          | GREASE FITTING, 1/4 SHORT       | 1               |
| 14         | D2902           | SHEAVE, BELT IDLER (RIVETED)    | 1               |
| 15         | 90-0816         | BOLT, 1/2 X 2                   | 1               |
| 16         | 99-E41          | LOCKNUT, NYLON 1/2              | 2               |
| 17         | 95-08           | FLAT WASHER, 1/2 SAE            | 4               |
| 18         | 41-047          | SPRING, EXT. 0.765 X 6.813      | 1               |
| 19         | REF             | SEE SPROCKET CHART              |                 |
| 20         | 83-H16SPL       | BUSHING, H X 1" SPLIT TYPE      | 1               |
| 21         | REF             | SEE SPROCKET CHART              |                 |
| 22         | 001472          | GUARD, TOP -16/18" ROLL UP TRAY | 1               |
| 23         | 90-0407         | BOLT, 1/4 X 7/8                 | 2               |
| 24         | 94-04           | FLAT WASHER, 1/4                | 2               |
| 25         | 99-E39          | LOCKNUT, NYLON 1/4              | 2               |
| 26         | 014083          | STOP ASSY., ROLL UP TRAY (LH)   | 1               |
| 27         | 014084          | STOP ASSY., ROLL UP TRAY (RH)   | 1               |
| 28         | 90-0608         | BOLT, 3/8 X 1                   | 4               |
| 29         | 114012          | CHAIN, ROLLER: #40 X 45.5" LONG | 1               |
|            | 81-056          | CONNECTOR LINK, #40             | 1               |
|            | 81-076          | HALFLINK, #40                   | 1               |
| 30         | 002240          | GUARD, CHAIN ROLL UP            | 1               |
| 31         | G8115           | HANDLE                          | 1               |
| 32         | G8117           | STUD                            | 1               |
| 33         | 01-028          | WASHER, FLAT #10 SAE            | 1               |
| 34         | G8119           | RETAINER                        | 1               |
| 35         | 90-0520         | BOLT, 5/16 X 2-1/2              | 2               |
| 36         | 99-E38          | LOCKNUT, NYLON 5/16             | 2               |



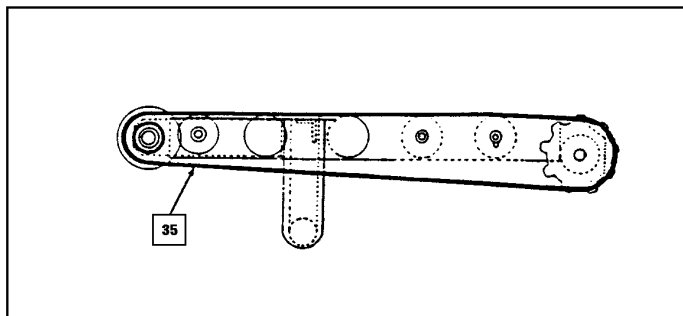
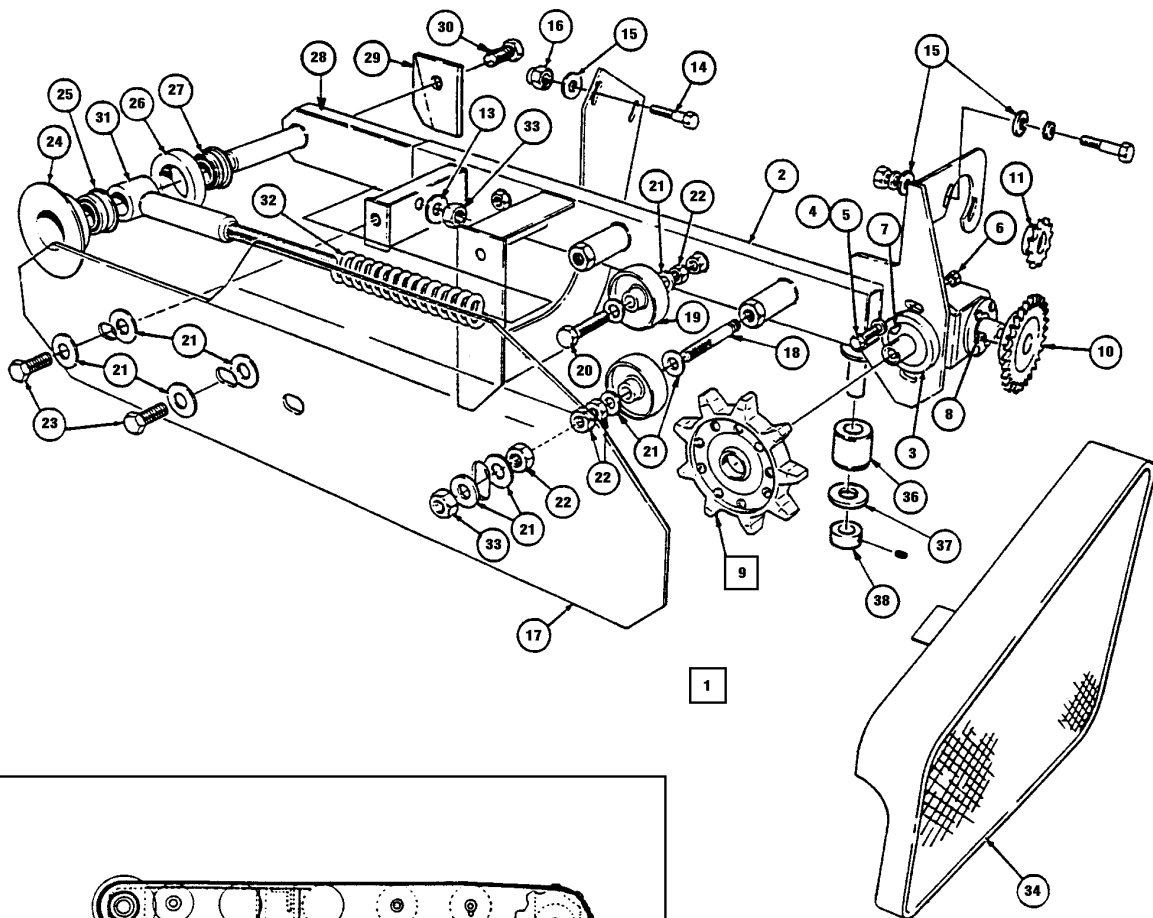
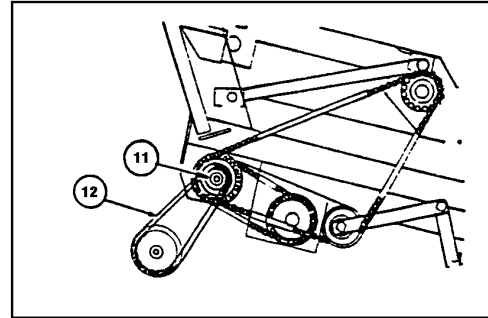
| <b>Ref</b> | <b>Part no.</b> | <b>Description</b>             | <b>Quantity</b> |
|------------|-----------------|--------------------------------|-----------------|
| 1          | A03023          | ASSY., MINTEX ROLLUP 24"       | 1               |
| 2          | 001710          | FRAME,ROLLUP TRAY REINFORCEMEN | 1               |
|            | 29-010          | GREASE FITTING,1/4 SHORT       | 1               |
| 3          | 90-0824         | BOLT, 1/2 X 3                  | 4               |
| 4          | F5012           | NUT, JAM NYLON INSERT          | 4               |
| 5          | 001298          | HOLDER, SPRING ROLL UP         | 1               |
| 6          | 90-0624         | BOLT, 3/8 X 3                  | 1               |
| 7          | 99-E40          | LOCKNUT, NYLON 3/8             | 9               |
| 8          | S2003           | SPRING, EXTENSION              | 1               |
| 9          | 001392          | 24" FLAP ADJUSTER              | 2               |
| 10         | 001393          | FLAP ADJUSTER BRACKET          | 2               |
| 11         | 97-0608         | CARRIAGE BOLT, 3/8 X 1         | 2               |
| 12         | 97-0612         | CARRIAGE BOLT, 3/8 X 1-1/2     | 2               |
| 13         | 001375          | ROLLUP DRIVE IDLER ARM         | 1               |
|            | 29-010          | GREASE FITTING,1/4 SHORT       | 1               |
| 14         | D2902           | SHEAVE, BELT IDLER (RIVETED)   | 1               |
| 15         | 90-0816         | BOLT, 1/2 X 2                  | 1               |
| 16         | 99-E41          | LOCKNUT, NYLON 1/2             | 2               |
| 17         | 95-08           | FLAT WASHER, 1/2 SAE           | 4               |
| 18         | 41-047          | SPRING, EXT. 0.765 X 6.813     | 1               |
| 19         | REF             | SEE SPROCKET CHART             |                 |
| 20         | 83-H16SPL       | BUSHING, H X 1" SPLIT TYPE     | 1               |
| 21         | REF             | SEE SPROCKET CHART             |                 |
| 22         | 001429          | GUARD, TOP - 24" ROLL UP TRAY  | 1               |
| 23         | 90-0407         | BOLT, 1/4 X 7/8                | 2               |
| 24         | 94-04           | FLAT WASHER, 1/4               | 2               |
| 25         | 99-E39          | LOCKNUT, NYLON 1/4             | 2               |

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Cross Conveyor

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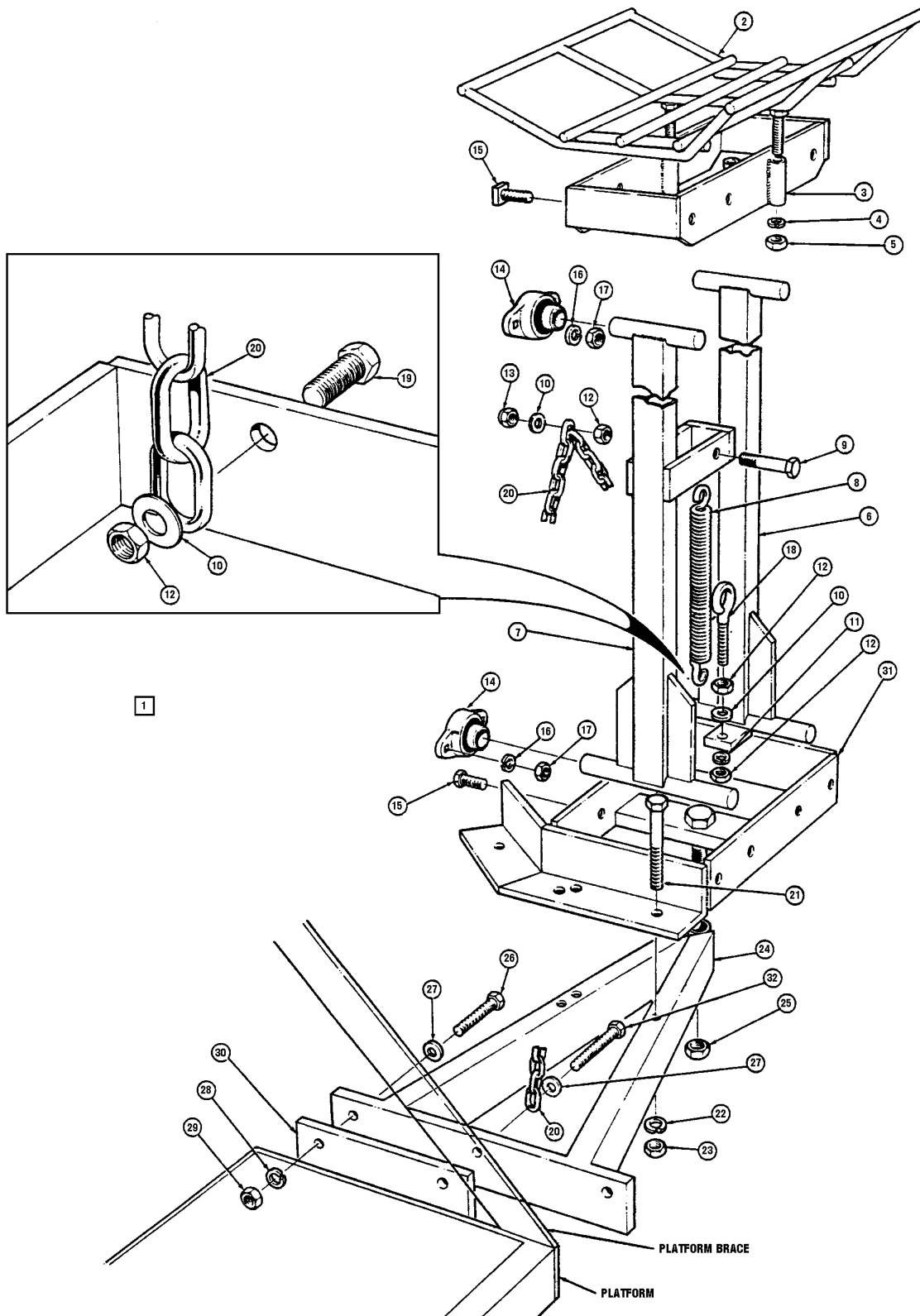
| Ref | Part no.   | Description                       | Quantity |
|-----|------------|-----------------------------------|----------|
| 1   | A03231     | ASSY., ROLL CROSS CONV. 16/18"    | 1        |
|     | A03257     | ASSY., ROLL CROSS CONVEYOR 24"    | 1        |
| 2   | 015824     | FRAME, ROLL CROSS CONV. 16/18"    | 1        |
|     | 015846     | FRAME, ROLL CROSS CONV. 24"       | 1        |
| 3   | D0055      | GEARBOX, 90DEG. LH DRIVE          | 1        |
| 4   | 90-0612    | BOLT, 3/8 X 1-1/2                 | 2        |
| 5   | 95-06      | FLAT WASHER, 3/8 SAE              | 2        |
| 6   | 99-E40     | LOCKNUT, NYLON 3/8                | 2        |
| 7   | G8025      | KEY, WOODRUFF #505 5/32" X 5/8"   | 2        |
| 8   | 85-W0306   | KEY, WOODRUFF 3/16 X 3/4          | 1        |
| 9   | A03520     | ASSY., CROSS CONV. DRIVE SPROCKET | 1        |
|     | D1953      | SPROCKET, URETHANE 9 TOOTH        | 1        |
|     | D8001      | FLANGE, SPROCKET                  | 1        |
|     | 85-SS12    | SET SCREW, 1/4 X 1/4 SKT HD       | 2        |
|     | 99-K06     | BOLT, 1/4 X 3/4 SL RD HD          | 2        |
|     | 99-E39     | LOCKNUT, NYLON 1/4                | 9        |
|     | 015841     | HUB, DRIVE SPROCKET               | 1        |
| 10  | D1133      | SPROCKET, FIXED 4025 X 7/8        | 1        |
| 11  | 83-H401216 | SPROCKET, #40 12-TOOTH 1" ID      | 1        |
| 12  | 114039     | CHAIN, ROLLER #40 X 18" LONG      | 1        |
|     | 81-056     | CONNECTOR LINK, #40               | 1        |
|     | 81-076     | HALFLINK, #40                     | 1        |
| 13  | 94-08      | FLAT WASHER, 1/2 USS              | 1        |
| 14  | 90-0716    | BOLT, 7/16 X 2                    | 4        |
| 15  | F5052      | WASHER, FLAT 1/2" SAE GR. 9       | 8        |
| 16  | F4003      | LOCKNUT, NYLON 7/16               | 4        |
| 17  | 015844     | GUARD, CROSS CONVEYOR             | 1        |
| 18  | 015843     | STUD, CROSS CONVEYOR              | 3        |
| 19  | R0005      | WHEEL, NYLON 3" DIA. X 1/2" BORE  | 4        |
| 20  | 90-0820    | BOLT, 1/2 X 2-1/2                 | 2        |
| 21  | 95-08      | FLAT WASHER, 1/2 SAE              | 16       |
| 22  | 99-E10     | JAM NUT, 1/2                      | 8        |
| 23  | 90-0808    | BOLT, 1/2 X 1                     | 2        |
| 24  | 015427     | ROLLER, FLANGED IDLER             | 1        |
| 25  | B2022      | BEARING, BALL 1" (SETSCREW)       | 1        |
|     | A03184     | ASSY., IDLER                      | 1        |
| 26  | 014074     | IDLER ROLLER                      | 1        |
| 27  | B2022      | BEARING, BALL 1" (SETSCREW)       | 1        |
| 28  | 015829     | CROSS CONVEYOR SLIDE              | 1        |
| 29  | 015882     | GUIDE, BELT                       | 1        |
| 30  | 90-0606    | BOLT, 3/8 X 3/4                   | 1        |
| 31  | 015831     | BELT ADJUSTER                     | 1        |
| 32  | 101275     | SPRING, TELESCOPING ARM           | 1        |
| 33  | 99-E41     | LOCKNUT, NYLON 1/2                | 3        |
| 34  | 002104     | GUARD CHAIN ROLL UP CROSS CONV.   | 1        |
| 35  | A03232     | ASSY., RUBBER BELT ROLL CROSS     | 1        |
|     | 014523     | BELT, CROSS CONVEYOR (7-1/2")     | 1        |
|     | G8008      | MAT SPLICER                       | 2        |
|     | M5103      | CLIP, TRACK (WIDE)                | 42       |
| 36  | 014085     | NYLON ROLLER, ROLL-UP TRAY        | 1        |
| 38  | L5002      | SET COLLAR, 7/8"                  | 1        |

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Sod Catcher Assembly

28-2



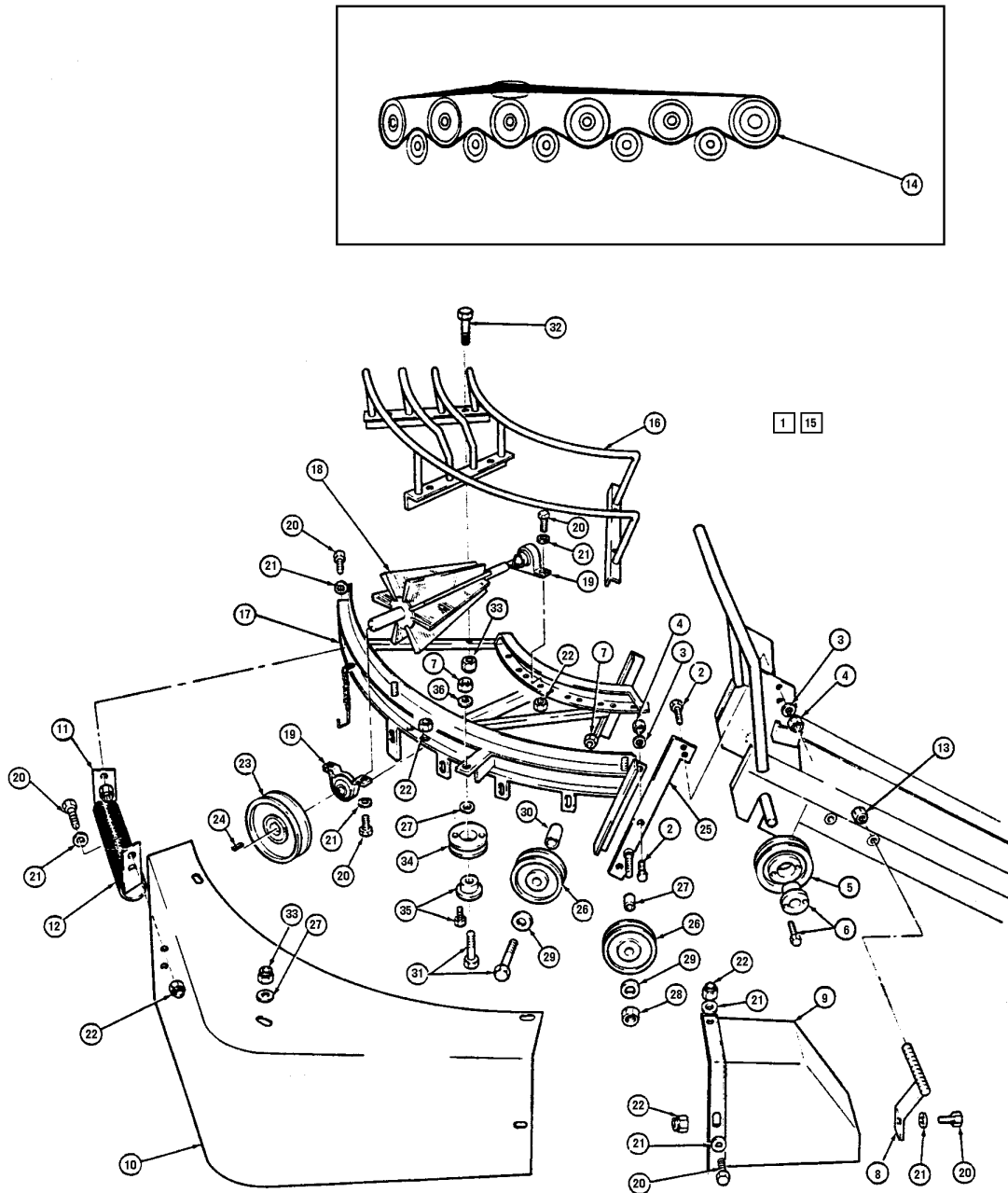
| <b>Ref</b> | <b>Part no.</b> | <b>Description</b>             | <b>Quantity</b> |
|------------|-----------------|--------------------------------|-----------------|
| 1          | A03039          | 16" & 18" SOD CATCHER ASSEMBLY | 1               |
|            | A03040          | 24" SOD CATCHER ASSEMBLY       | 1               |
| 2          | 001436          | SOD CATCHER BASKET             | 1               |
|            | 001442          | 24" SOD CATCHER BASKET         | 1               |
| 3          | 001432          | SOD CATCHER UPPER FRAME        | 1               |
| 4          | F3076           | WASHER, DISC LOCK 3/8          | 4               |
| 5          | 92-06           | NUT, 3/8                       | 4               |
| 6          | 001434          | SOD CATCHER ARM RH             | 1               |
| 7          | 001435          | SOD CATCHER ARM LH             | 1               |
| 8          | S2003           | EXTENSION SPRING               | 1               |
| 9          | 90-0520         | BOLT, 5/16 X 2-1/2             | 1               |
| 10         | 94-05           | FLAT WASHER, 5/16              | 3               |
| 11         | F2076           | WASHER, DISC LOCK 5/16         | 1               |
| 12         | 92-05           | NUT, 5/16                      | 3               |
| 13         | 99-E38          | LOCKNUT, NYLON 5/16            | 1               |
| 14         | B0002           | FLANGE BEARING                 | 8               |
| 15         | 97-0408         | CARRIAGE BOLT, 1/4 X 1         | 16              |
| 16         | F1076           | WASHER, DISC LOCK-1/4"         | 16              |
| 17         | 92-04           | NUT, 1/4                       | 16              |
| 18         | F2706           | EYE BOLT                       | 1               |
| 19         | 90-0508         | BOLT, 5/16 X 1                 | 1               |
| 20         | 001748          | CHAIN                          | 1               |
| 21         | 90-0624         | BOLT, 3/8 X 3                  | 2               |
| 22         | F3076           | WASHER, DISC LOCK 3/8          | 4               |
| 23         | 92-06           | NUT, 3/8                       | 4               |
| 24         | 001431          | SOD CATCHER BASE               | 1               |
| 25         | 99-A12          | LOCKNUT, STOVER 3/4            | 1               |
| 26         | 90-0716         | BOLT, 7/16 X 2                 | 2               |
| 27         | 94-07           | FLAT WASHER, 7/16              | 3               |
| 28         | F4076           | WASHER, DISC LOCK 7/16         | 3               |
| 29         | 92-07           | NUT, 7/16                      | 3               |
| 30         | 001715          | SHIM                           | 1               |
| 31         | 001433          | SOD CATCHER LOWER FRAME        | 1               |
| 32         | 90-0724         | BOLT, 7/16 X 3                 | 1               |

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Curved Conveyor

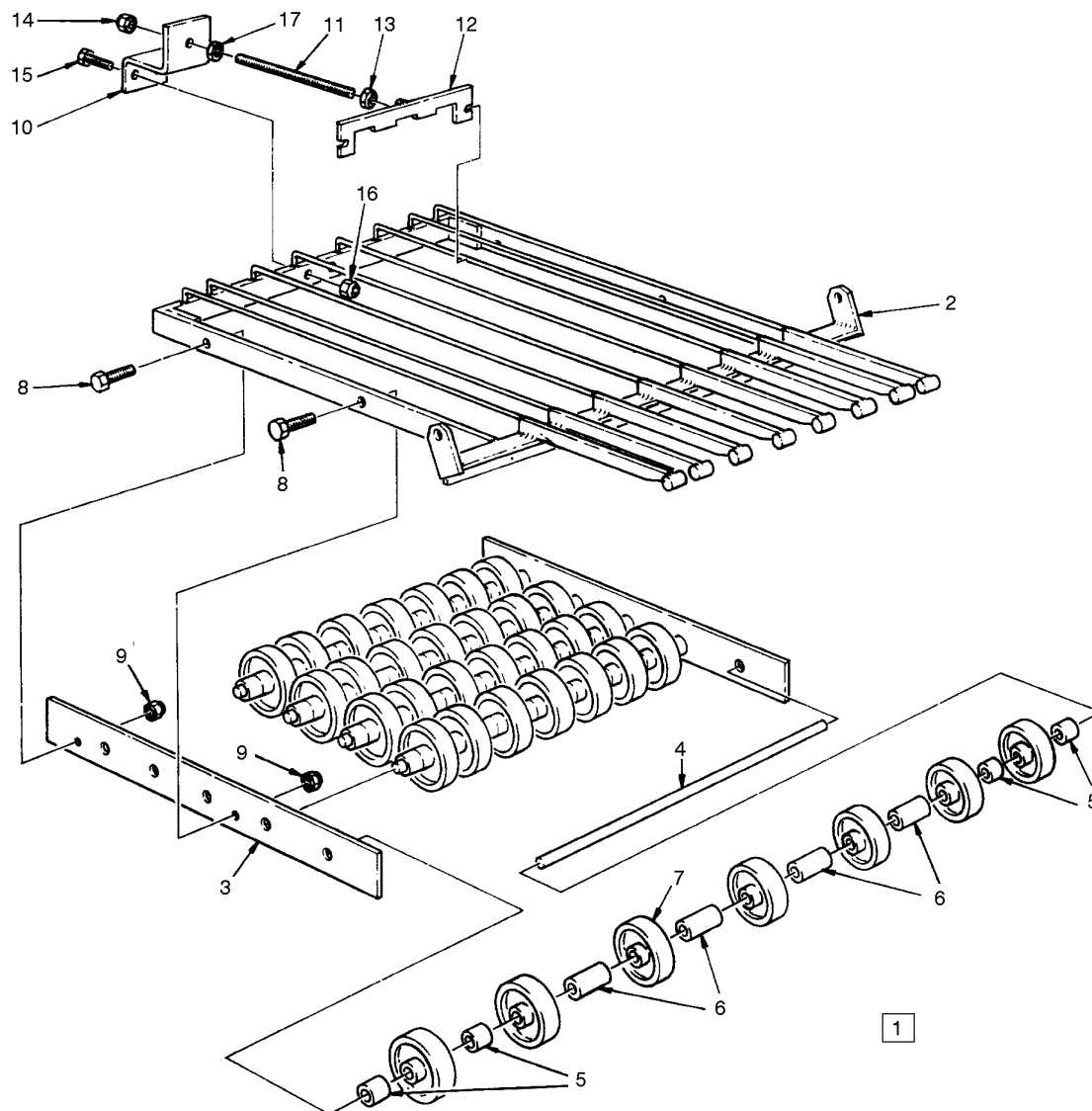
29-2



| <b>Ref</b> | <b>Part no.</b> | <b>Description</b>           | <b>Quantity</b> |
|------------|-----------------|------------------------------|-----------------|
| 1          | A03158          | CURVED CONVEYOR ASSEMBLY     | 1               |
| 2          | 90-0612         | BOLT, 3/8 X 1-1/2            | 10              |
| 3          | F3076           | WASHER, DISC LOCK 3/8        | 10              |
| 4          | 92-06           | NUT, 3/8                     | 10              |
| 5          | 83-BK50H        | PULLEY, 5", H1 BUSHING       | 1               |
| 6          | 83-H16SPL       | BUSHING, H X 1" SPLIT TYPE   | 1               |
| 7          | 99-E10          | JAM NUT, 1/2                 | 6               |
| 8          | 014112          | FRONT GUARD MOUNT ASSEMBLY   | 1               |
| 9          | 001027          | FRONT GUARD                  | 1               |
| 10         | 001026          | REAR GUARD                   | 1               |
| 11         | 015299          | KNEE GUARD BRACKET           | 1               |
| 12         | 001399          | RUBBER SLEEVE                | 1               |
| 13         | 92-08           | NUT, 1/2                     | 2               |
| 14         | D2101           | DRIVE BELT                   | 1               |
|            | 015719          | MANUAL                       | 1               |
| 15         | A03287          | CURVED CONVEYOR SUB-ASSEMBLY | 1               |
| 16         | 001950          | SOD SUPPORT "INNER FRAME"    | 1               |
| 17         | 001949          | OUTER FRAME                  | 1               |
| 18         | 001951          | TAPER BRUSH ROLLER           | 5               |
| 19         | B1002           | PILLOW BLOCK BEARING         | 10              |
| 20         | 90-0508         | BOLT, 5/16 X 1               | 30              |
| 21         | 94-05           | FLAT WASHER, 5/16            | 30              |
| 22         | 99-E38          | LOCKNUT, NYLON 5/16          | 30              |
| 23         | 83-042          | PULLEY, 5/8" BORE W-3/16 KEY | 5               |
| 24         | 123316          | KEY, 3/16" X 3/16" X 1"      | 5               |
| 25         | 001025          | MOUNTING BAR LH              | 1               |
|            | 001024          | MOUNTING BAR RH              | 1               |
| 26         | D2902           | BELT IDLER PULLEY            | 5               |
| 27         | 014113          | SPACER                       | 1               |
| 28         | 99-E41          | LOCKNUT, NYLON 1/2           | 5               |
| 29         | 94-08           | FLAT WASHER, 1/2             | 5               |
| 30         | 001955          | SPACER                       | 4               |
| 31         | 90-0822         | BOLT, 1/2 X 2-3/4            | 6               |
| 32         | 90-0412         | BOLT, 1/4 X 1-1/2            | 6               |
| 33         | 99-E39          | LOCKNUT, NYLON 1/4           | 7               |
| 34         | D2302           | SHEAVE, TAPER LOCK           | 1               |
| 35         | 83-IDH1         | BUSHING, H1 IDLER            | 1               |
| 36         | F5052           | WASHER, FLAT 1/2" SAE GR. 9  | 5               |

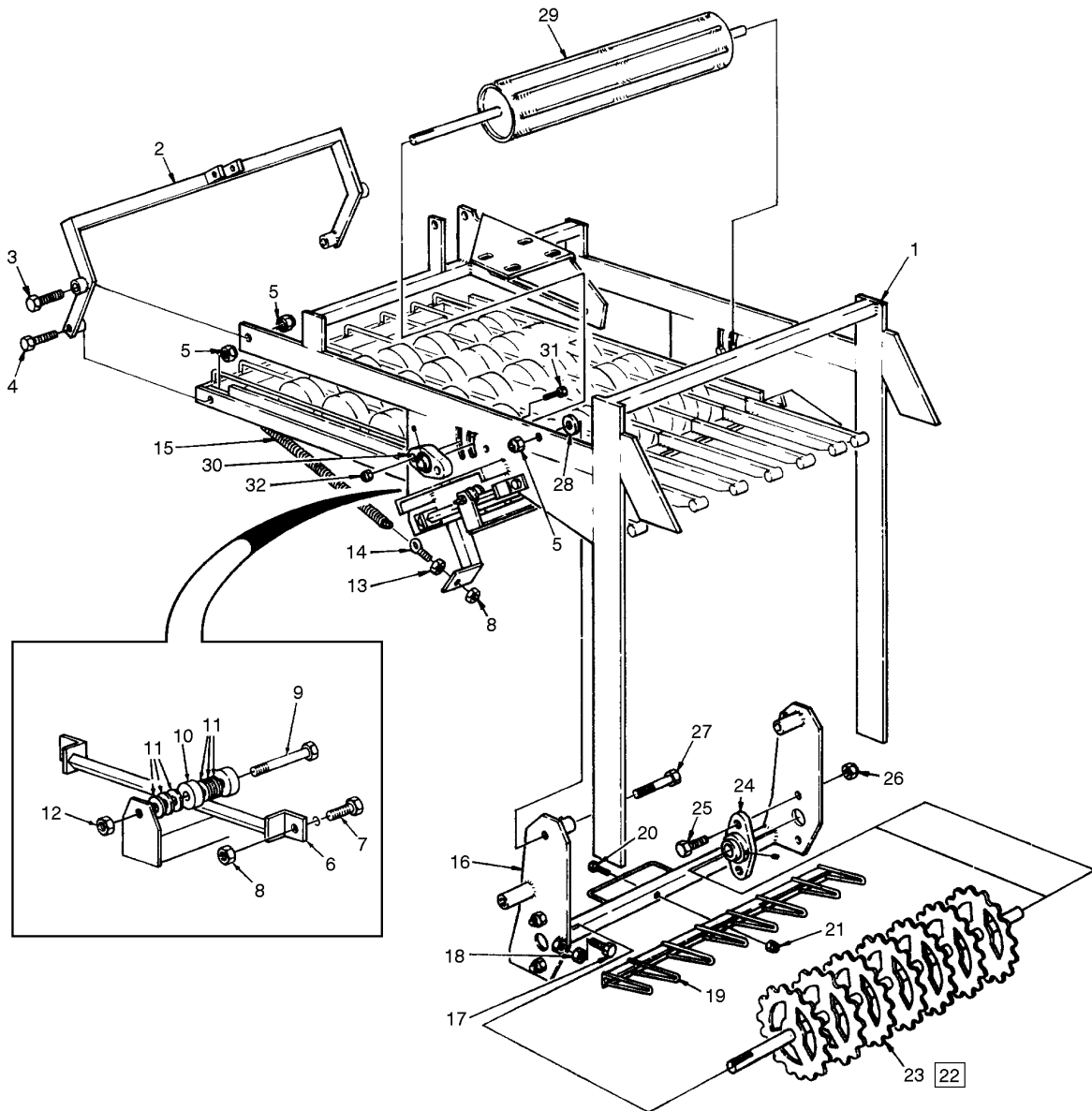
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| Main Frame Lower Section                                                                        | 30-6        |
| Folder Drive                                                                                    | 30-8        |
| Folder Electrical System                                                                        | 30-10       |
| A kit is available which contains all the items required to convert a roll-up unit to a folder. |             |
| FOLDING CONVERSION KIT: PART NO. A03651                                                         |             |
| Contains:                                                                                       |             |
| Folder                                                                                          | 30-2        |
| Curved Conveyor                                                                                 | 29-2        |
| Slabbing & Tail Platform                                                                        | 5-4         |
| Counter                                                                                         | 34-2        |
| Includes all necessary hardware                                                                 |             |

## Roller Bed Assembly



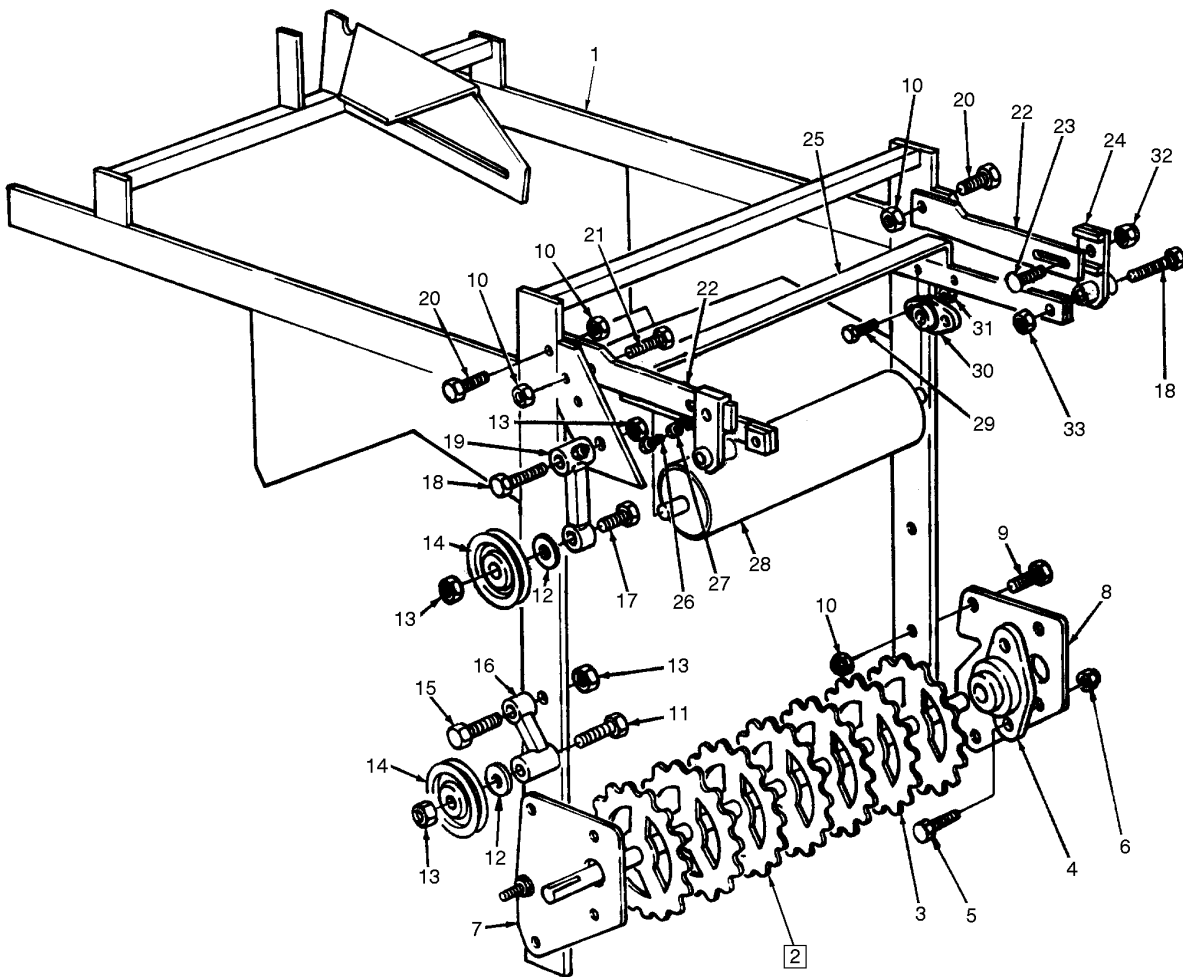
| <b>Ref</b> | <b>Part no.</b> | <b>Description</b>               | <b>Quantity</b> |
|------------|-----------------|----------------------------------|-----------------|
| 1          | A03426          | ROLLER BED ASSEMBLY              | 1               |
| 2          | 001926          | GATE FOR FOLDER                  | 1               |
| 3          | 015434          | PLATE, ROLLER SIDE               | 2               |
| 4          | 015435          | SHAFT, ROLLER                    | 5               |
| 5          | 015658          | SPACER                           | 20              |
| 6          | 015659          | SPACER                           | 20              |
| 7          | R0005           | WHEEL, NYLON 3" DIA. X 1/2" BORE | 35              |
| 8          | 90-0407         | BOLT, 1/4 X 7/8                  | 4               |
| 9          | 99-E39          | LOCKNUT, NYLON 1/4               | 4               |
| 10         | 015919          | BRACKET, STOP- SOD               | 1               |
| 11         | 015920          | STUD, SOD STOP                   | 1               |
| 12         | 015918          | STOP, SOD                        | 1               |
| 13         | F5011           | NUT, NYLON LOCK 1/2              | 2               |
| 14         | 99-E41          | LOCKNUT, NYLON 1/2               | 1               |
| 15         | 90-0510         | BOLT, 5/16 X 1-1/4               | 2               |
| 16         | 99-E38          | LOCKNUT, NYLON 5/16              | 2               |

## Main Frame: Upper Section



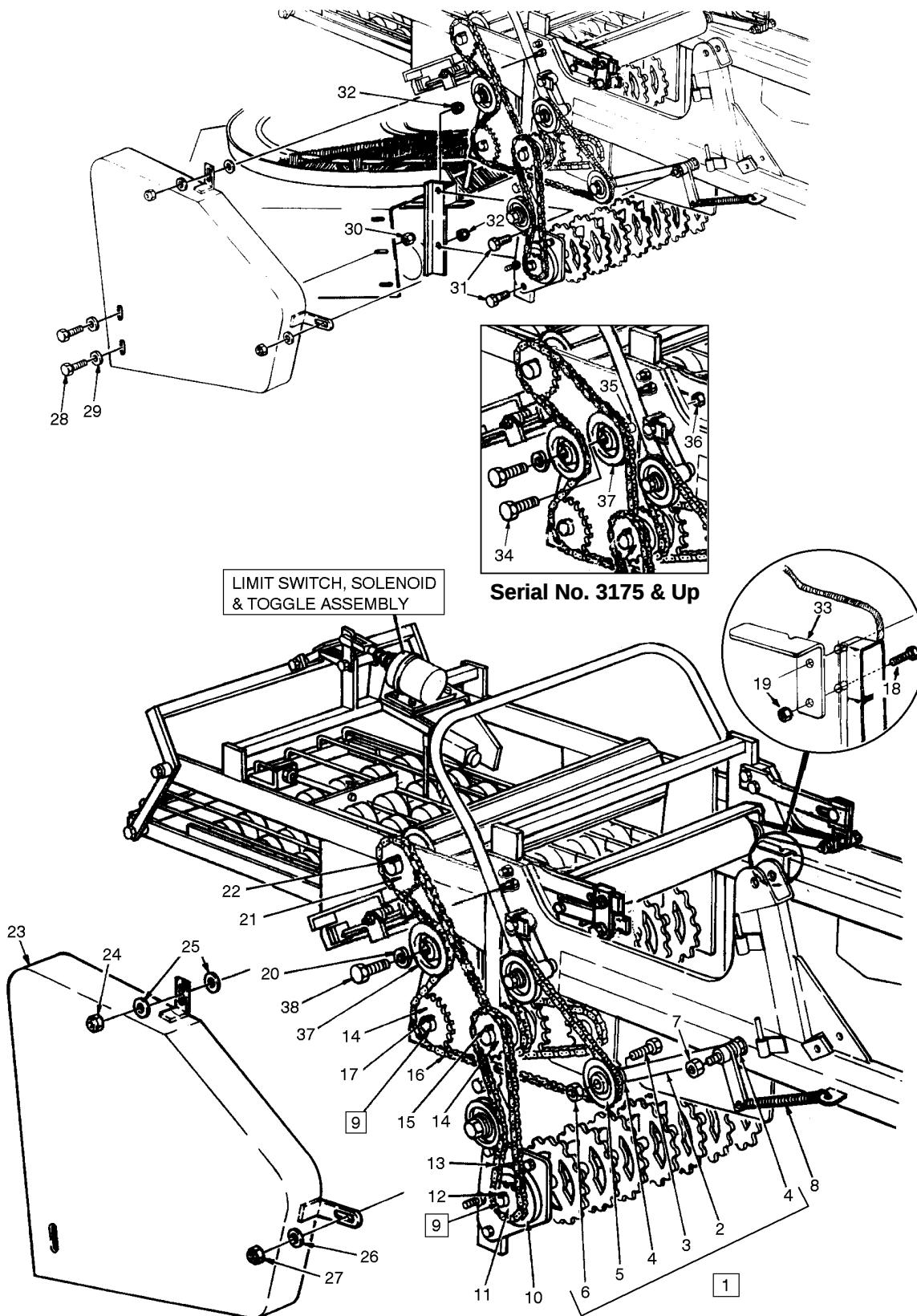
| <b>Ref</b> | <b>Part no.</b> | <b>Description</b>             | <b>Quantity</b> |
|------------|-----------------|--------------------------------|-----------------|
| 1          | 015948          | FRAME, FOLDER MAIN             | 1               |
| 2          | 015949          | FRAME, REAR HINGE              | 1               |
| 3          | 90-0818         | BOLT, 1/2 X 2-1/4              | 2               |
| 4          | 90-0820         | BOLT, 1/2 X 2-1/2              | 2               |
| 5          | F5011           | NUT, NYLON LOCK 1/2            | 6               |
| 6          | 001921          | RAIL                           | 2               |
| 7          | 90-0608         | BOLT, 3/8 X 1                  | 4               |
| 8          | 99-E40          | LOCKNUT, NYLON 3/8             | 6               |
| 9          | 90-0816         | BOLT, 1/2 X 2                  | 6               |
| 10         | B2010           | BEARING, BALL 1/2 ID           | 4               |
| 11         | F4053           | WASHER, FLAT                   | 12              |
| 12         | 99-E41          | LOCKNUT, NYLON 1/2             | 2               |
| 13         | 99-E21          | JAM NUT, 3/8                   | 1               |
| 14         | F3728           | BOLT, EYE BENT- 3/8            | 1               |
| 15         | S2028           | SPRING, EXTENSION              | 1               |
| 16         | 001927          | FRAME, REVERSING DRIVE HINGED  | 1               |
| 17         | 99-K33          | BOLT, 3/8 X 2 HEX TAP GR. 2    | 2               |
| 18         | 99-E21          | JAM NUT, 3/8                   | 2               |
| 19         | 001928          | SOD STRIPPER                   | 1               |
| 20         | 90-0512         | BOLT, 5/16 X 1-1/2             | 3               |
| 21         | 99-E12          | FLANGE NUT, 5/16               | 3               |
| 22         | A03175          | ASSEMBLY, SPROCKET SHAFT       | 1               |
| 23         | 001929          | SHAFT, SPROCKET                | 1               |
| 24         | 55-FB23016      | BEARING, 2-BOLT FLANGE 1"      | 2               |
| 25         | 90-0712         | BOLT, 7/16 X 1-1/2             | 4               |
| 26         | F4003           | NUT, NYLON INSERT              | 4               |
| 27         | 90-0828         | BOLT, 1/2 X 3-1/2              | 2               |
| 28         | 94-08           | FLAT WASHER, 1/2               | 2               |
| 29         | 015430          | ROLLER, 4" RIBBED              | 1               |
| 30         | B0002           | BEARING, FLANGE:-5/8 SET SCREW | 2               |
| 31         | 90-0408         | BOLT, 1/4 X 1                  | 4               |
| 32         | 94-04           | FLAT WASHER, 1/4               | 2               |
| 33         | 99-E20          | FLANGE NUT, 1/4                | 4               |
| 34         | A03426          | ROLLER BED ASSEMBLY            | 1               |

## Main Frame: Lower Section



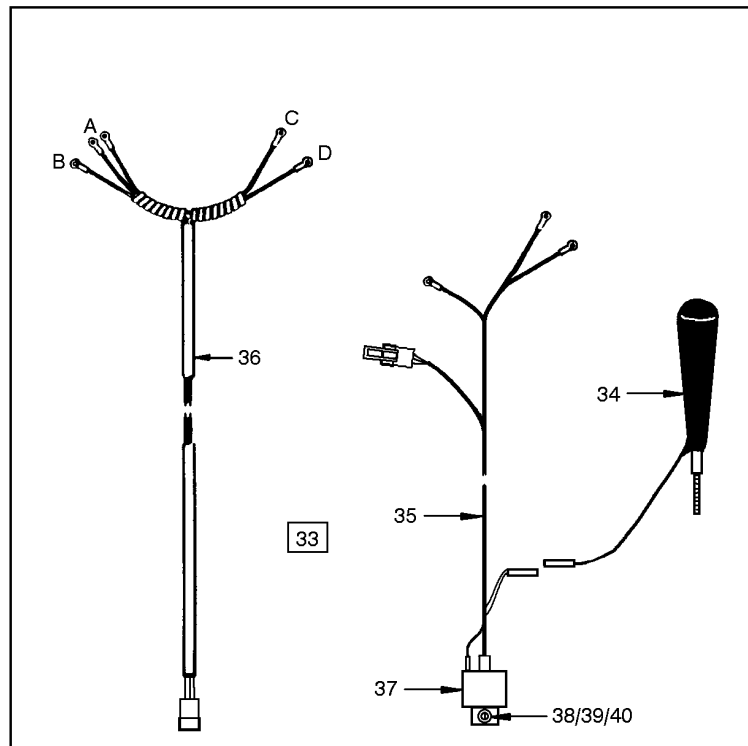
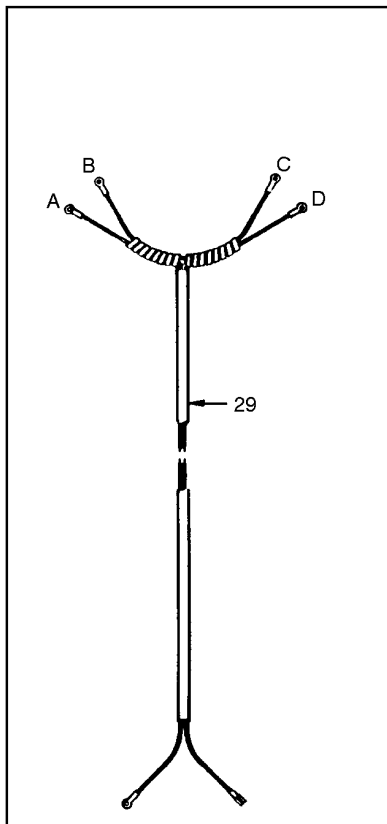
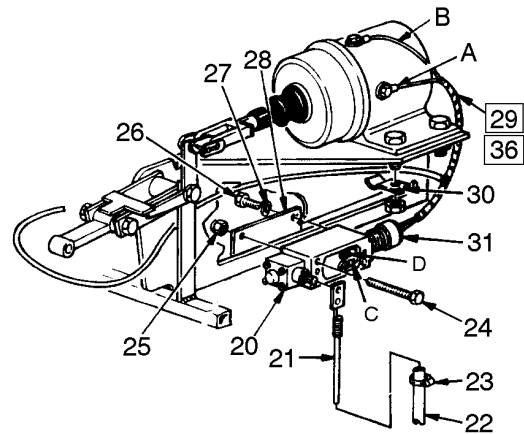
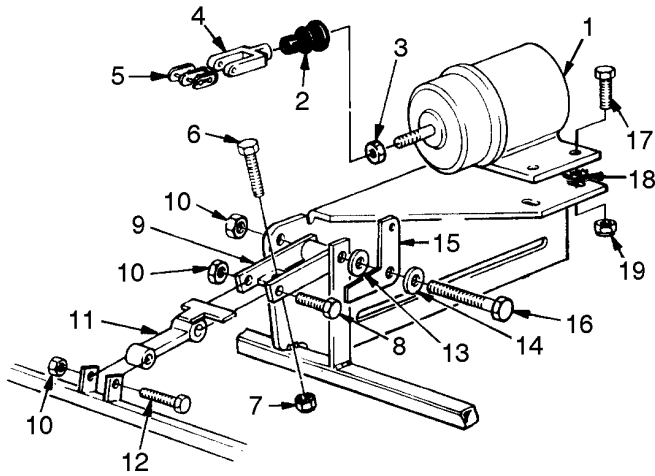
| <b>Ref</b> | <b>Part no.</b> | <b>Description</b>               | <b>Quantity</b> |
|------------|-----------------|----------------------------------|-----------------|
| 1          | 015948          | FRAME, FOLDER MAIN               | 1               |
| 2          | A03175          | ASSEMBLY, SPROCKET SHAFT         | 1               |
| 3          | 001929          | SHAFT, SPROCKET                  | 1               |
| 4          | 55-FB23016      | BEARING, 2-BOLT FLANGE 1"        | 2               |
| 5          | 90-0712         | BOLT, 7/16 X 1-1/2               | 4               |
| 6          | F4003           | NUT, NYLON INSERT                | 6               |
| 7          | 001960          | PLATE, RH SIDE MOUNTING          | 1               |
| 8          | 001961          | PLATE, LH SIDE MOUNTING          | 1               |
| 9          | 90-0614         | BOLT, 3/8 X 1-3/4                | 4               |
| 10         | 99-E40          | LOCKNUT, NYLON 3/8               | 8               |
| 11         | 90-0832         | BOLT, 1/2 X 4                    | 1               |
| 12         | 94-08           | FLAT WASHER, 1/2                 | 2               |
| 13         | 99-E41          | LOCKNUT, NYLON 1/2               | 4               |
| 14         | D2902           | SHEAVE, BELT IDLER               | 2               |
| 15         | 90-0822         | BOLT, 1/2 X 2-3/4                | 1               |
| 16         | 001943          | MOUNT, BUSHING & IDLER PULLEY    | 1               |
| 17         | 90-0820         | BOLT, 1/2 X 2-1/2                | 1               |
| 18         | 90-0828         | BOLT, 1/2 X 3-1/2                | 3               |
| 19         | 001942          | SUPPORT, BUSHING & IDLER         | 1               |
|            | 29-010          | GREASE FITTING,1/4               | 1               |
| 20         | 90-0614         | BOLT, 3/8 X 1-3/4                | 3               |
| 21         | 90-0618         | BOLT, 3/8 X 2-1/4                | 1               |
| 22         | 016816          | PLATE, RUNNER                    | 2               |
| 23         | F4102           | BOLT, CARRIAGE                   | 2               |
| 24         | 016814          | HINGE, PRESSURE ROLLER ADJUSTING | 2               |
|            | 29-010          | GREASE FITTING,1/4               | 1               |
| 25         | 001911          | FRAME, PRESSURE ROLLER           | 1               |
| 26         | 90-0620         | BOLT, 3/8 X 2-1/2                | 1               |
| 27         | 92-06           | NUT, 3/8                         | 1               |
| 28         | 001910          | ROLLER, PRESSURE                 | 1               |
| 29         | 90-0410         | BOLT, 1/4 X 1-1/4                | 4               |
| 30         | B0002           | BEARING,FLANGE:-5/8 SET SCREW    | 2               |
| 31         | 99-E39          | LOCKNUT, NYLON 1/4               | 4               |

## Folder Drive



| <b>Ref</b> | <b>Part no.</b> | <b>Description</b>                           | <b>Quantity</b> |
|------------|-----------------|----------------------------------------------|-----------------|
| 1          | A03032          | ASSEMBLY, ROLLUP CHAIN IDLER ARM             | 1               |
| 2          | 001375          | ROLLUP DRIVE IDLER ARM                       | 1               |
|            | 29-010          | GREASE FITTING, 1/4                          | 1               |
| 3          | 90-0816         | BOLT, 1/2 X 2                                | 1               |
| 4          | 95-08           | FLAT WASHER, 1/2 SAE                         | 2               |
| 5          | D2902           | SHEAVE, BELT IDLER                           | 1               |
| 6          | 99-E41          | LOCKNUT, NYLON 1/2                           | 1               |
| 7          | F5012           | NUT, NYLON INSERT                            | 1               |
| 8          | 41-047          | SPRING, EXT. 0.765 X 6.813                   | 1               |
| 9          | A03175          | ASSEMBLY, SPROCKET SHAFT                     | 1               |
| 10         | 83-BK50H        | PULLEY, 5", H1 BUSHING                       | 1               |
| 11         | D1106           | SPROCKET, FIXED #40 X 16 X 1" BORE           | 1               |
| 12         | 124432          | KEY, 1/4 X 1/4 X 2                           | 1               |
| 13         | Q8008           | #40 ROLLER CHAIN                             | 1               |
| 14         | D1117           | SPROCKET, FIXED #40 X 21T                    | 3               |
| 15         | 124458          | KEY, 1/4 X 1/4 X 3-5/8                       | 1               |
| 16         | Q8008           | #40 ROLLER CHAIN                             | 1               |
| 17         | 124422          | KEY, 1/4 X 1/4 X 1-3/8                       | 1               |
| 18         | 99-K19          | FLANGE BOLT, 5/16 X 3/4                      | 4               |
| 19         | 99-E12          | FLANGE NUT 5/16                              | 4               |
| 20         | 96-08           | LOCK WASHER, 1/2                             | 2               |
| 21         | D1403           | SPROCKET, TAPER LOCK #40 X 17T               | 1               |
|            | D3014           | BUSHING, H X 5/8                             | 1               |
| 22         | 85-K0310        | KEY, 3/16 X 3/16 X 1-1/4                     | 1               |
| 23         | 015940          | GUARD, FOLDER DRIVE                          | 1               |
| 24         | 99-E40          | LOCKNUT, NYLON 3/8                           | 1               |
| 25         | 94-06           | FLAT WASHER, 3/8                             | 2               |
| 26         | 94-08           | FLAT WASHER, 1/2                             | 1               |
| 27         | F5012           | NUT, NYLON INSERT                            | 1               |
| 28         | 90-0508         | BOLT, 5/16 X 1                               | 2               |
| 29         | 94-05           | FLAT WASHER, 5/16                            | 2               |
| 30         | 99-E12          | FLANGE NUT, 5/16                             | 2               |
| 31         | 90-0612         | BOLT, 3/8 X 1-1/2                            | 4               |
| 32         | 99-E13          | FLANGE NUT, 3/8                              | 4               |
| 33         | 016808          | BRACKET, LEFT STOP                           | 1               |
|            | 016809          | BRACKET, RIGHT STOP                          | 1               |
| 34         | 90-0830         | BOLT, 1/2 X 3-3/4 (SERIAL NO. 3175 - )       | 1               |
| 35         | 002613          | SPACER, STAND OFF (SERIAL NO. 3175 - )       | 1               |
| 36         | F5018           | NUT, FLANGED STOVER 1/2 (SERIAL NO. 3175 - ) | 1               |
| 37         | D2902           | SHEAVE, BELT IDLER (PRIOR TO SER. NO. 3175)  | 1               |
|            | D2902           | SHEAVE, BELT IDLER (SERIAL NO. 3175 - )      | 2               |
| 38         | 90-0816         | BOLT, 1/2 X 2                                | 1               |

## Folder Electrical System



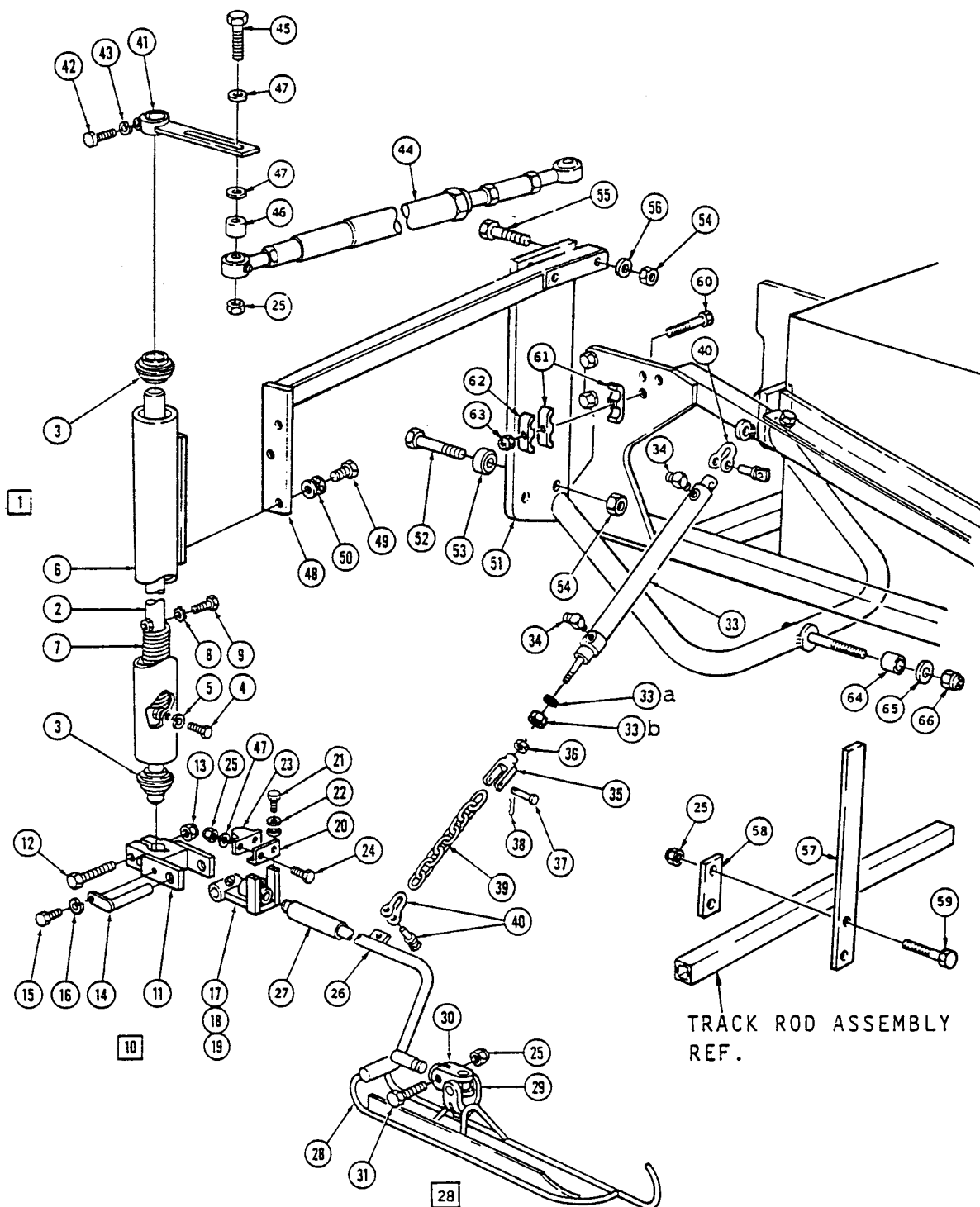
# FOLDER

# section 30

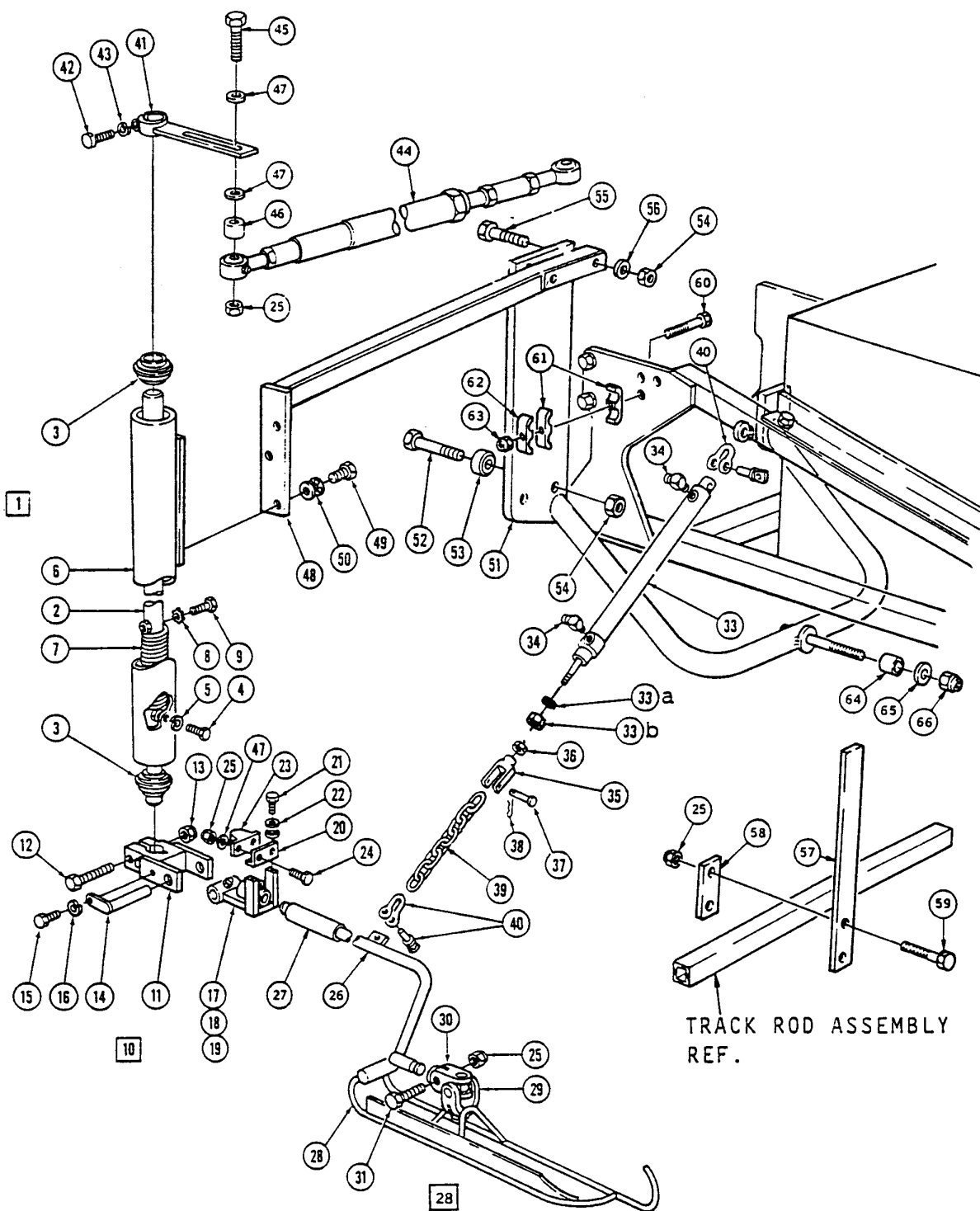
| ef  | Part no.  | Description                                | Quantity |
|-----|-----------|--------------------------------------------|----------|
| 1   | J9554     | SOLENOID                                   | 1        |
| 2   | J9555     | BOOT, FOR J9554                            | 1        |
| 3   | 93-04     | NUT, 1/4                                   | 1        |
| 4   | 43-Y0404F | YOKE END, 1/4 FEMALE THREAD                | 1        |
| 5   | 81-024    | CONNECTOR LINK #60                         | 1        |
| 6   | 90-0610   | BOLT, 3/8 X 1-1/4                          | 1        |
| 7   | 92-06     | NUT, 3/8                                   | 1        |
| 8   | 90-0820   | BOLT, 1/2 X 2-1/2                          | 1        |
| 9   | 015926    | TOGGLE                                     | 1        |
| 10  | F5012     | NUT, NYLON INSERT                          | 3        |
| 11  | 015927    | TOGGLE ARM                                 | 1        |
| 12  | 90-0818   | BOLT, 1/2 X 2-1/4                          | 1        |
| 13  | F5054     | WASHER, MACH. 1/2 X 7/8 X .032             | 1        |
| 14  | 94-08     | FLAT WASHER, 1/2                           | 1        |
| 15  | 015921    | LEVER, TRIP                                | 1        |
| 16  | 90-0828   | BOLT, 1/2 X 3-1/2                          | 1        |
| 17  | 99-K26    | FLANGE BOLT, 1/4 X 3/4                     | 4        |
| 18  | 94-04     | FLAT WASHER, 1/4                           | A/R      |
| 19  | 99-E20    | FLANGE NUT, 1/4                            | 4        |
| 20  | J0005     | SWITCH, LIMIT                              | 1        |
| 21  | 015933    | MOD, WOBBLE STICK                          | 1        |
| 22  | 015934    | HOSE, WOBBLE STICK                         | 1        |
| 23  | G8059     | CLAMP, HOSE- 1/4 MIN.-5/8 MAX.             | 1        |
| 24  | F0320     | SCREW, MACHINE #10 X 2-1/4                 | 2        |
| 25  | F0003     | NUT, NYLON INSERT                          | 2        |
| 26  | 01-021    | SCREW, MACHINE #10 X 3/4                   | 2        |
| 27  | 01-018    | WASHER, LOCK #10                           | 2        |
| 28  | 015923    | BRACKET, MTG.- LIMIT SWITCH                | 1        |
| 29  | 015935    | WIRING HARNESS, FOLDING (PRIOR TO SN 3001) | 1        |
| 30  | G8006     | CABLE CLAMP                                | 1        |
| 31  | J2547     | CONNECTOR, CAB TIRE                        | 1        |
| *32 | 30-037    | WIRE TIE, T50R 3/16 X 7-3/4                | 6        |
| 33  | 002252    | ASSEMBLY, FOLDER HARNESS (SN 3001 & UP)    | 1        |
| 34  | 006438    | SWITCH                                     | 1        |
| 35  | 002250    | FOLDER DASH HARNESS                        | 1        |
| 36  | 002251    | FOLDER CONVEYOR HARNESS                    | 1        |
| 37  | 35-067    | RELAY, SEALED PLASTIC                      | 1        |
| 38  | F0301     | SCREW, MACHINE 10-24 X 3/4                 | 1        |
| 39  | 01-028    | WASHER, FLAT #10 SAE                       | 1        |
| 40  | F0003     | NUT, NYLON INSERT                          | 1        |

\* Not Illustrated

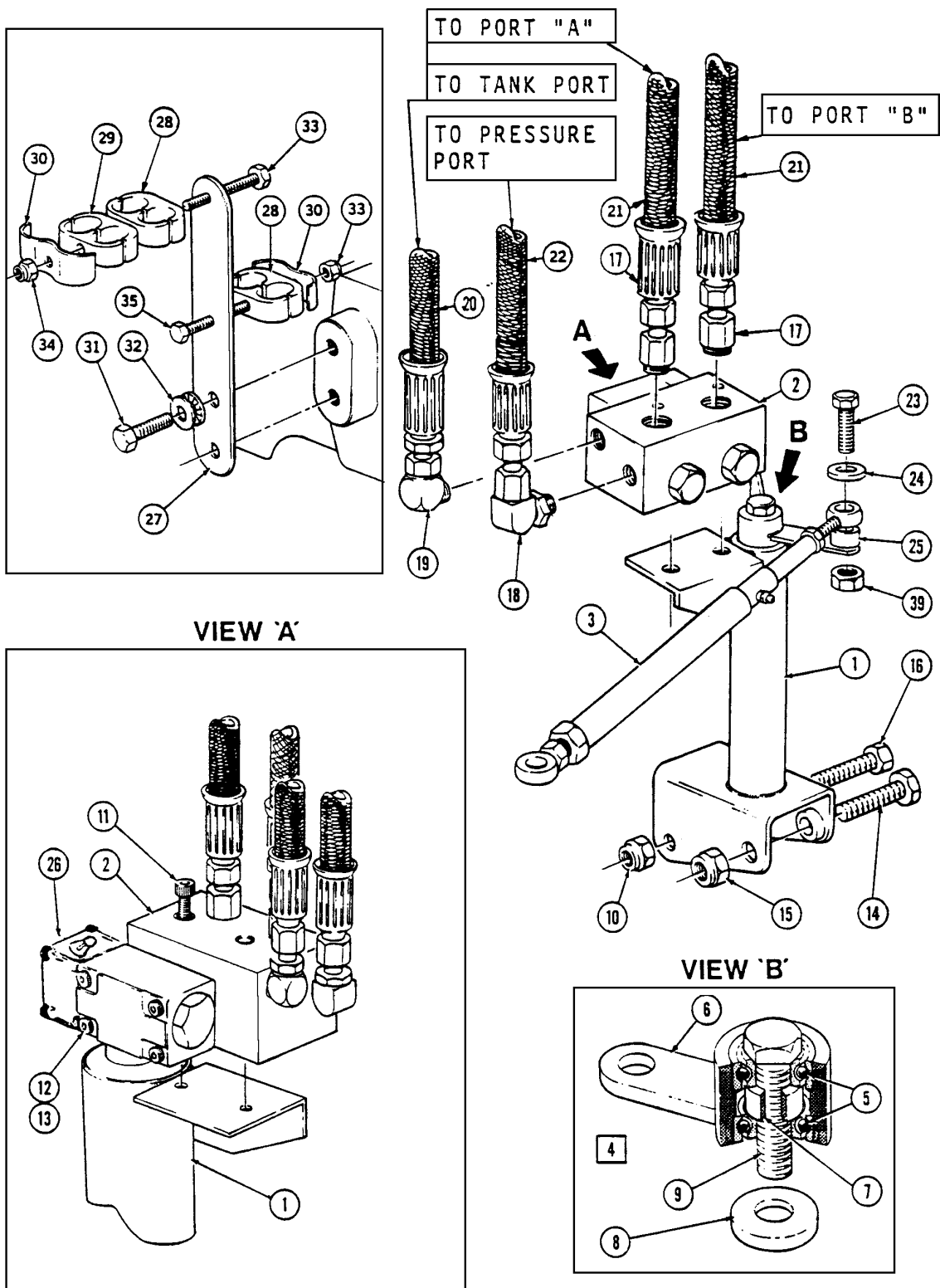
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| Spring Column, Shoe Assembly & Reset Cylinder | 31-2        |
| Control Arm Assembly                          | 31-6        |
| Valve Assemblies                              | 31-8        |
| Selector Valve                                | 31-10       |
| Hydraulics                                    | 31-12       |



| <b>Ref</b> | <b>Part no.</b> | <b>Description</b>                | <b>Quantity</b> |
|------------|-----------------|-----------------------------------|-----------------|
| 1          | A03344          | ASSY., SHOE COLUMN                | 1               |
| 2          | 015095          | SHAFT, SHOE COLUMN                | 1               |
| 3          | B2022           | BEARING, BALL 1" (SETSCREW)       | 2               |
| 4          | 90-0606         | BOLT, 3/8 X 3/4                   | 1               |
| 5          | F3076           | WASHER, DISC LOCK 3/8             | 1               |
| 6          | 015096          | SHOE COLUMN BODY W/A              | 1               |
| 7          | 015099          | SPRING, SHOE COLUMN               | 1               |
| 8          | 99-G04          | SHAKEPROOF WASHER, 3/8            | 1               |
| 9          | 90-0610         | BOLT, 3/8 X 1-1/4                 | 1               |
| 10         | A03383          | SHOE ARM PIVOT ASSY.              | 1               |
| 11         | 015102          | PIVOT, SHOE ARM                   | 1               |
| 12         | 90-0824         | BOLT, 1/2 X 3                     | 1               |
| 13         | 99-E41          | LOCKNUT, NYLON 1/2                | 1               |
| 14         | 015059          | PIN, SHOE ARM SUPPORT PIVOT       | 1               |
| 15         | 90-0404         | BOLT, 1/4 X 1/2                   | 1               |
| 16         | F1076           | WASHER, DISC LOCK                 | 1               |
| 17         | 015061          | SHOE ARM SUPPORT                  | 1               |
| 18         | 29-010          | GREASE FITTING, 1/4 SHORT         | 1               |
| 19         | F3603           | SET SCREW, 3/8 X 3/4 SQHD         | 4               |
| 20         | 015561          | BRACKET, MOUNTING                 | 1               |
| 21         | 90-0506         | BOLT, 5/16 X 3/4                  | 2               |
| 22         | F2076           | WASHER, DISC LOCK                 | 2               |
| 23         | 014082          | BUMPER, RUBBER                    | 1               |
| 24         | 90-0606         | BOLT, 3/8 X 3/4                   | 2               |
| 25         | 99-E40          | LOCKNUT, NYLON 3/8                | 6               |
| 26         | 015110          | SHOE ARM                          | 1               |
| 27         | 016114          | BUMPER, POLYPIPE                  | 1               |
| 28         | A21175          | AUTOSTEER SHOE                    | 1               |
| 29         | D0008           | KIT, JOURNAL                      | 1               |
| 30         | D0004           | CLAMP YOKE, (1"BORE)              | 1               |
| 31         | 90-0616         | BOLT, 3/8 X 2                     | 1               |
|            | 99-E40          | LOCKNUT, NYLON 3/8                | 1               |
| 32         | REF             | CYLINDER - RESET AUTO SHOE        |                 |
| 33         | 23-152          | CYLINDER, HYDRAULIC               | 1               |
| 33A        | E8024           | SEAL, ROD WIPER 1/4" ID X 1/2" OD | 1               |
| 33B        | 016310          | NUT, RETAINER                     | 1               |
|            | E3043           | PISTON SEAL                       | 1               |
|            | E3044           | SEAL, END                         | 1               |
| 34         | H6189           | FITTING, 90 DEG. 1/8" NPT X 3/8"  | 2               |
| 35         | 43-Y0404F       | YOKE END, 1/4-28 FEMALE THREAD    | 1               |
| 36         | F1006           | NUT, JAM 1/4                      | 1               |
| 37         | 03-0406         | CLEVIS PIN, 1/4 X 3/4             | 1               |
| 38         | G2510           | PIN, HITCH CLIP                   | 1               |
| 39         | 016060          | CHAIN, AUTOSTEER RESET CYLINDER   | 1               |
| 40         | G8048           | SHACKLE, ANCHOR 3/16"             | 2               |
| 41         | 015057          | TOP LINKAGE ARM                   | 1               |
| 42         | 90-0612         | BOLT, 3/8 X 1-1/2                 | 1               |
| 43         | F3076           | WASHER, DISC LOCK 3/8             | 1               |
| 44         | A03342          | ARM ASSY., OVERRIDE               | 1               |
| 45         | 90-0616         | BOLT, 3/8 X 2                     | 1               |
| 46         | 015137          | SPACER, PILLAR                    | 1               |

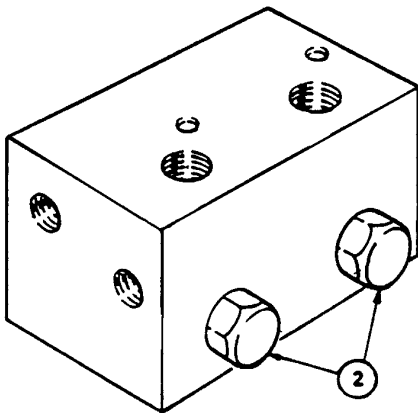


| <b>Ref</b> | <b>Part no.</b> | <b>Description</b>          | <b>Quantity</b> |
|------------|-----------------|-----------------------------|-----------------|
| 47         | 94-06           | FLAT WASHER, 3/8            | 4               |
| 48         | 016109          | EXTENSION ARM WELDMENT      | 1               |
| 49         | 90-0808         | BOLT, 1/2 X 1               | 3               |
| 50         | F5076           | WASHER, DISC LOCK           | 3               |
| 51         | 016127          | MOUNT, AUTOSTEER TRACK ROD  | 1               |
| 52         | 90-1044         | BOLT, 5/8 X 5-1/2           | 3               |
| 53         | F6057           | WASHER, FLAT 5/8 SAE *L9*   | 3               |
| 54         | 99-E42          | LOCKNUT, NYLON 5/8          | 5               |
| 55         | 90-1032         | BOLT, 5/8 X 4               | 2               |
| 56         | F6051           | WASHER, FLAT 5/8" ID        | 2               |
| 57         | 016116          | STOP, SHOE ARM              | 1               |
| 58         | 015100          | CLAMP, SHOE ARM             | 1               |
| 59         | 90-0620         | BOLT, 3/8 X 2-1/2           | 2               |
| 60         | 90-0420         | BOLT, 1/4 X 2-1/2           | 1               |
| 61         | G8081           | CLAMP, PIPE DOUBLE 3/4 TUBE | 1               |
| 62         | G8106           | COVER PLATE                 | 1               |
| 63         | 99-E39          | LOCKNUT, NYLON 1/4          | 1               |



| <b>Ref</b> | <b>Part no.</b> | <b>Description</b>                           | <b>Quantity</b> |
|------------|-----------------|----------------------------------------------|-----------------|
| 1          | 016039          | MOUNT, SENSOR VALVE                          | 1               |
| 2          | REF             | STEERING MANIFOLD                            |                 |
| 3          | A03342          | ARM ASSY, OVERRIDE                           | 1               |
|            | M0308           | ROD END, 3/8                                 | 2               |
| 4          | A03501          | PIVOT ASSEMBLY                               | 1               |
| 5          | B2010           | BEARING, BALL 1/2"ID                         | 2               |
| 6          | 015793          | PIVOT, SENSOR                                | 1               |
| 7          | 015256          | SPACER, SENSOR PIVOT                         | 1               |
| 8          | 015084          | SPACER                                       | 1               |
| 9          | 90-0816         | BOLT, 1/2 X 2                                | 1               |
| 10         | 99-E40          | LOCKNUT, NYLON 3/8                           | 2               |
| 11         | F1709           | BOLT, 1/4 X 3 SOCKET HEAD                    | 2               |
| 12         | F0350           | BOLT, #10-24 X 2 SHCS                        | 4               |
| 13         | 01-018          | WASHER, LOCK #10                             | 4               |
| 14         | 016049          | BOLT, MODIFIED AUTOSTEER CNTRL               | 1               |
| 15         | 99-E26          | JAM NUT, 1/2 NF                              | 1               |
| 16         | 90-0624         | BOLT, 3/8 X 3                                | 1               |
| 17         | H7000           | FITTING, CONN. M#6 ORBXM#6 ORF               | 2               |
| 18         | H7002           | FITTING, 90 DEG. M#6 ORBXM#6 ORF             | 1               |
| 19         | H7003           | FITTING, 90 DEG. M#6 ORBXM#8 ORF             | 1               |
| 20         | 016055          | HOSE, SENSOR VALVE TO SELECTOR               | 1               |
| 21         | 016056          | HOSE, SENSOR VALVE TO STEERING CYLINDER      | 2               |
| 22         | 016054          | HOSE, SELECTOR VALVE TO SENSOR               | 1               |
| 23         | 90-0614         | BOLT, 3/8 X 1-3/4                            | 1               |
| 24         | F3053           | WASHER, FLAT 3/8" ID X 3/4" OD X .130" THICK | 1               |
| 25         | 015137          | SPACER, PILLAR                               | 1               |
| 27         | 016047          | BRACKET, HOSE CLAMP                          | 1               |
| 28         | G8081           | CLAMP, PIPE DOUBLE 3/4 TUBE                  | 2               |
| 29         | G8082           | CLAMP, PIPE DOUBLE 7/8 TUBE                  | 1               |
| 30         | G8106           | COVER PLATE                                  | 2               |
| 31         | 90-1208         | BOLT, 3/4 X 1                                | 2               |
| 32         | F7076           | WASHER, DISC LOCK                            | 2               |
| 33         | 90-0424         | BOLT, 1/4 X 3                                | 1               |
| 34         | 99-E39          | LOCKNUT, NYLON 1/4                           | 2               |
| 35         | 90-0414         | BOLT, 1/4 X 1-3/4                            | 1               |

## AUTOSTEER MANIFOLD 1

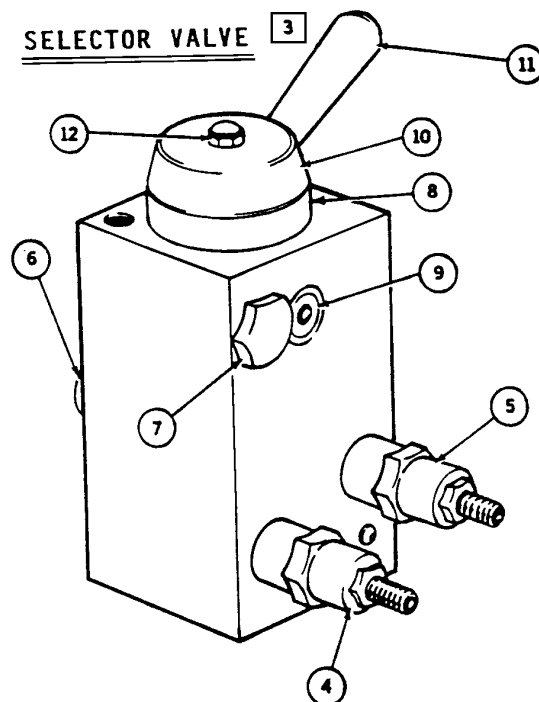


④ MANUAL STEERING RELIEF VALVE  
Set to 1200 PSI

⑤ AUTO STEERING RELIEF VALVE  
Set to 500 PSI

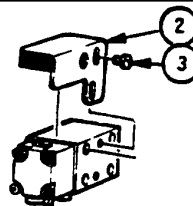
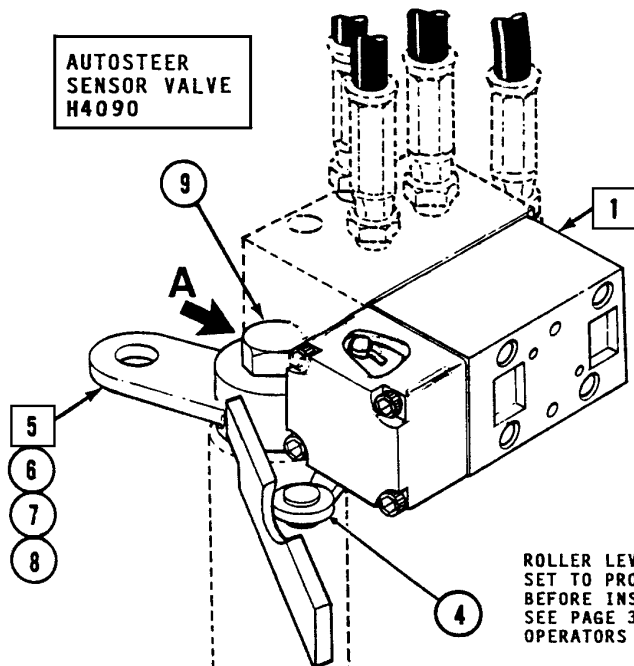
PRESSURES TO BE CHECKED AT THE  
TEST TEE ON THE LEFT HAND BULK-  
HEAD WITH THE ENGINE AT 1200 RPM

## SELECTOR VALVE 3

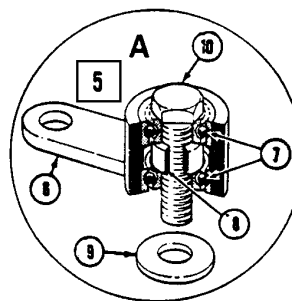


| <b>Ref</b> | <b>Part no.</b> | <b>Description</b>        | <b>Quantity</b> |
|------------|-----------------|---------------------------|-----------------|
| 1          | H4085           | STEERING MANIFOLD         | 1               |
| 2          | H4088           | CARTRIDGE, CHECK VALVE    | 2               |
|            | E3041           | SEAL KIT                  | 1               |
| 3          | H4070           | VALVE, STEERING SELECTOR  | 1               |
| 4          | H4078           | CARTRIDGE, RELIEF VALVE   | 1               |
|            | E3040           | SEAL KIT                  | 1               |
| 5          | H4079           | RELIEF VALVE              | 1               |
|            | E3040           | SEAL KIT                  | 1               |
| 6          | H4080           | CARTRIDGE, CHECK VALVE    | 1               |
|            | E3041           | SEAL KIT                  | 1               |
| 7          | H4077           | CARTRIDGE, CHECK VALVE    | 1               |
|            | E3040           | SEAL KIT                  | 1               |
| 8          | H4081           | CARTRIDGE, SELECTOR VALVE | 1               |
|            | E3042           | SEAL KIT                  | 1               |
| 9          | H8066           | PLUG                      | 1               |
|            | E0061           | O-RING                    | 1               |
| 10         | H4082           | KIT, LEVER ASSY.          | 1               |
| 11         | H4083           | LEVER                     | 1               |
| 12         | H4084           | NUT, ROTARY VALVE         | 1               |

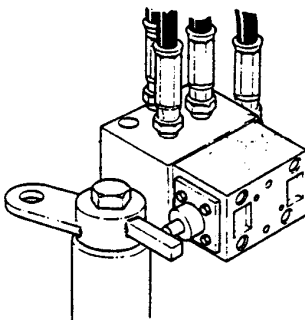
**AUTOSTEER  
SENSOR VALVE  
H4090**



**NOTE: COVER 016664  
MUST BE USED TO KEEP  
CAVITY CLEAR OF DIRT  
OR DEBRIS. CHECK  
PERIODICALLY THAT  
CAVITY IS CLEAR.**

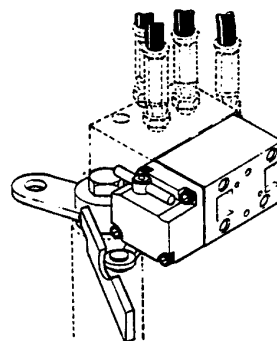


**ROLLER LEVER (4) MUST BE  
SET TO PROPER ANGLE  
BEFORE INSTALLATION.  
SEE PAGE 32 OF THE  
OPERATORS MANUAL.**



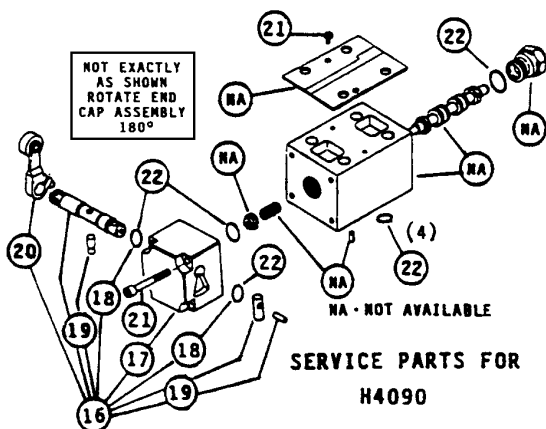
**PUSH ROD SENSOR VALVE  
NO LONGER AVAILABLE.**

**REPLACE WITH FIELD  
KIT A03500.**

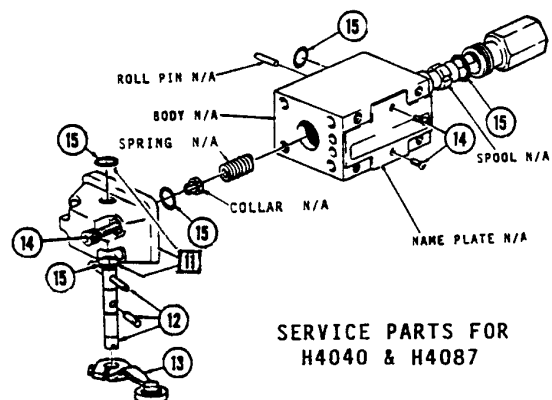


**SENSOR VALVES  
H4040 AND H4087  
NO LONGER AVAILABLE  
USE SENSOR VALVE  
H4090 FOR REPLACEMENT**

**NOTE: SOME SERVICE  
PARTS ARE AVAILABLE  
SEE VIEW BELOW**

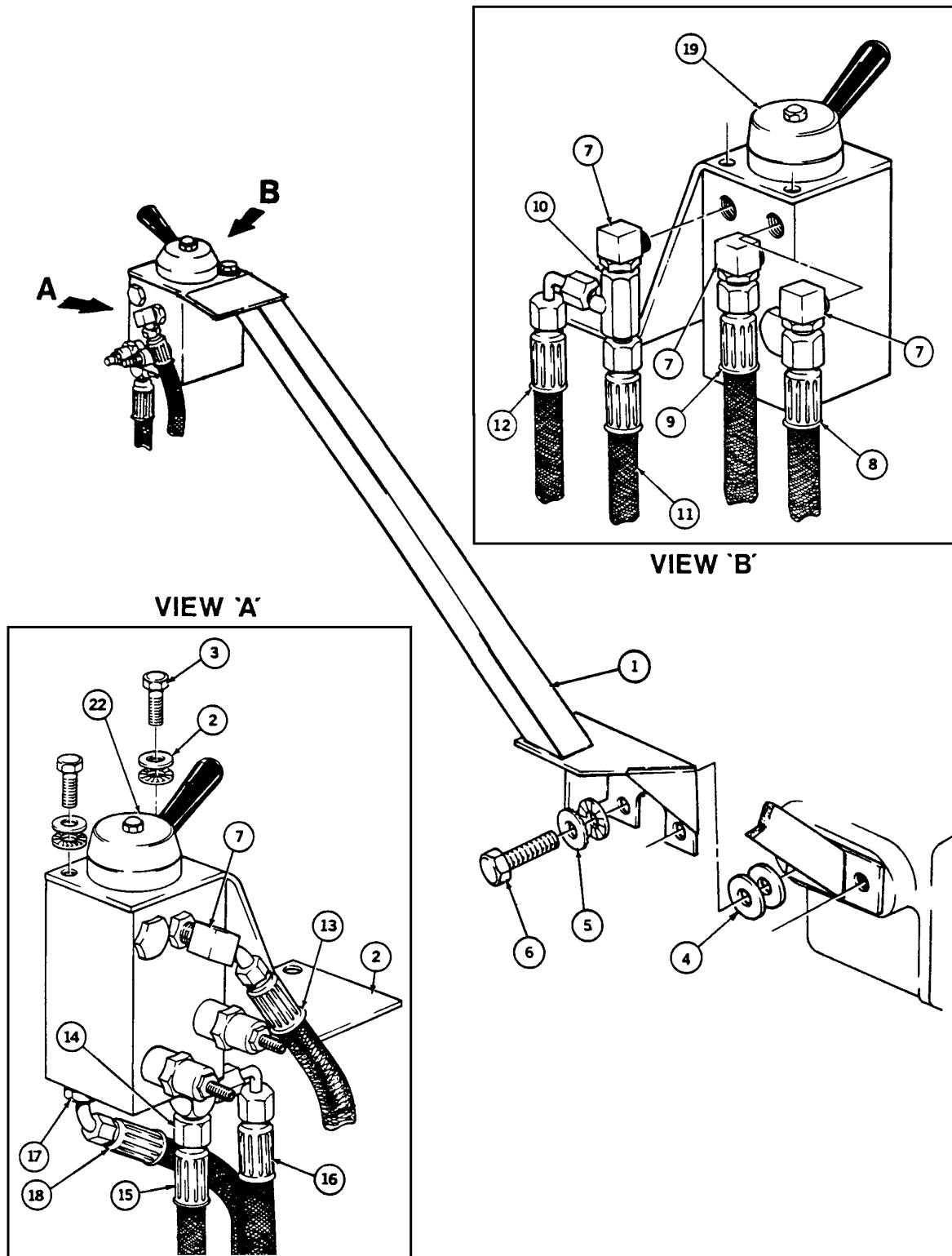


**SERVICE PARTS FOR  
H4090**

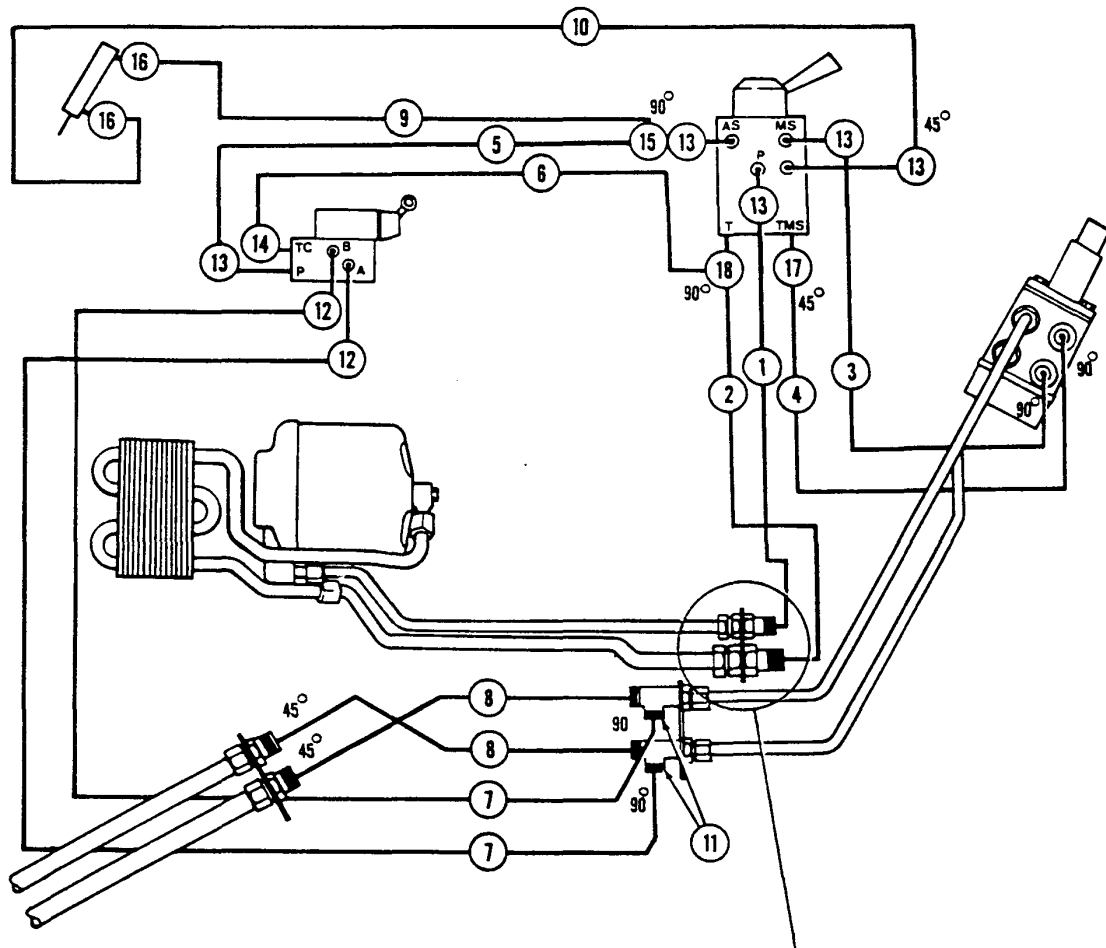


**SERVICE PARTS FOR  
H4040 & H4087**

| Ref                                                          | Part no.   | Description                     | Quantity |
|--------------------------------------------------------------|------------|---------------------------------|----------|
| <b>AUTOSTEER SENSOR VALVE</b>                                |            |                                 |          |
| 1                                                            | A03634**   | AUTOSTEER SENSOR VALVE ASSEMBLY | 1        |
| 2                                                            | 016664     | COVER                           | 1        |
|                                                              | 016663     | FOAM PAD                        | 1        |
| 3                                                            | REF        | SCREW, M4 X 0.7 150m X 6.5mm    | 2        |
| 4                                                            | H4045      | ROLLER LEVER                    | 1        |
| 5                                                            | A03501**   | PIVOT ASSEMBLY                  | 1        |
| 6                                                            | 015793     | SENSOR PIVOT                    | 1        |
| 7                                                            | B2010      | BEARING                         | 2        |
| 8                                                            | 015216     | SENSOR PIVOT SPACER             | 1        |
| 9                                                            | 015084     | SPACER                          | 1        |
| 10                                                           | F5213      | HEX CAP SCREW                   | 1        |
| <b>SERVICE PARTS FOR H4040 &amp; H4087</b>                   |            |                                 |          |
|                                                              | H4075      | KIT, CAM LEVER & COVER          | 1        |
| 11                                                           | REF*       | END CAP                         | 1        |
|                                                              | REF*       | O-RING (ALSO INCL. IN REF. 15)  | 2        |
| 12                                                           | REF*       | PIVOT SHAFT ASSY.               | 1        |
| 13                                                           | H4045      | ROLLER LEVER                    | 1        |
| 14                                                           | H4074      | HARDWARE KIT                    | 1        |
| 15                                                           | E3034      | SEAL KIT                        | 1        |
| * NOT AVAILABLE AS INDIVIDUAL ITEMS<br>AVAILABLE IN KIT ONLY |            |                                 |          |
| <b>SERVICE PARTS FOR H4090</b>                               |            |                                 |          |
| 16                                                           | H4095      | KIT, CAM LEVER & COVER          | 1        |
| 17                                                           | REF        | END CAP                         | 1        |
| 18                                                           | REF        | O-RINGS (ALSO INCL. IN REF. 22) | 2        |
| 19                                                           | REF*       | PIVOT SHAFT ASSY.               | 1        |
| 20                                                           | H4045      | ROLLER LEVER                    | 1        |
| 21                                                           | H4096      | HARDWARE KIT                    | 1        |
| 22                                                           | E3034      | SEAL KIT                        | 1        |
| <b>**NOTE:</b>                                               |            |                                 |          |
| A FIELD KIT A03500 IS AVAILABLE TO CONVERT<br>OLDER MODELS.  |            |                                 |          |
| CONTAINS:                                                    |            |                                 |          |
|                                                              | H4090      | SENSOR VALVE ASSY.              | 1        |
|                                                              | 016664     | COVER                           | 1        |
|                                                              | A03501     | PIVOT ASSEMBLY                  | 1        |
|                                                              | 92-1289-SB | REVISED LIST                    | 1        |

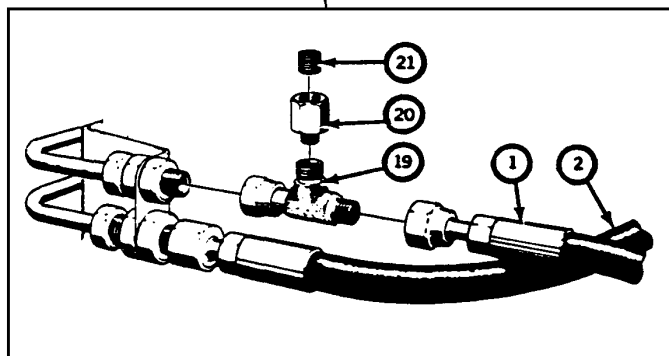


| <b>Ref</b> | <b>Part no.</b> | <b>Description</b>                       | <b>Quantity</b> |
|------------|-----------------|------------------------------------------|-----------------|
|            |                 | SELECTOR VALVE                           |                 |
| 1          | 016101          | MOUNT, SELECTOR VALVE                    | 1               |
| 2          | F3076           | WASHER, DISC LOCK 3/8                    | 2               |
| 3          | 90-0606         | BOLT, 3/8 X 3/4                          | 2               |
| 4          | 95-12           | FLAT WASHER, 3/4 SAE                     | 4               |
| 5          | F7076           | WASHER, DISC LOCK                        | 2               |
| 6          | 90-1216         | BOLT, 3/4 X 2                            | 2               |
| 7          | H7002           | FITTING, 90 DEG. M#6 ORBXM#6 ORF         | 4               |
|            | E0061           | O-RING BODY                              | 1               |
|            | E0071           | O-RING FACE                              | 1               |
| 8          | 016052          | HOSE, STEERING SELECTOR TO STEERING UNIT | 1               |
| 9          | 016050          | HOSE, STEERING PRESSURE                  | 1               |
| 10         | H7004           | FITTING, SW RUN TEE M#6 ORFS             | 1               |
|            | E0061           | O-RING BOSS                              | 2               |
| 11         | 016054          | HOSE, SELECTOR VALVE TO SENSOR           | 1               |
| 12         | 016058          | HOSE, RESET CYLINDER EXTEND              | 1               |
| 13         | 016059          | HOSE, RESET CYLINDER RETRACT             | 1               |
| 14         | H7005           | FITTING, TEE -8 M ORB/-8 M ORFS          | 1               |
|            | E0062           | O-RING BODY                              | 1               |
|            | E0072           | O-RING FACE                              | 2               |
| 15         | 016051          | HOSE, STEERING RETURN                    | 1               |
| 16         | 016055          | HOSE, SENSOR VALVE TO SELECTOR           | 1               |
| 17         | H7001           | FITTING, CONN M#8 ORBXM#8 ORF            | 1               |
|            | E0062           | O-RING BODY                              | 1               |
|            | E0072           | O-RING FACE                              | 1               |
| 18         | 016053          | HOSE, STEERING UNIT TO STEERING SELECTOR | 1               |
| 19         | H4070           | VALVE, STEERING SELECTOR                 | 1               |



Port for pressure test is provided on current models of Autosteer. It will accommodate a Pressure Gauge with 1/8" or 1/4" NPT male fitting. Available for retrofit:

Order items 19, 20, 21.

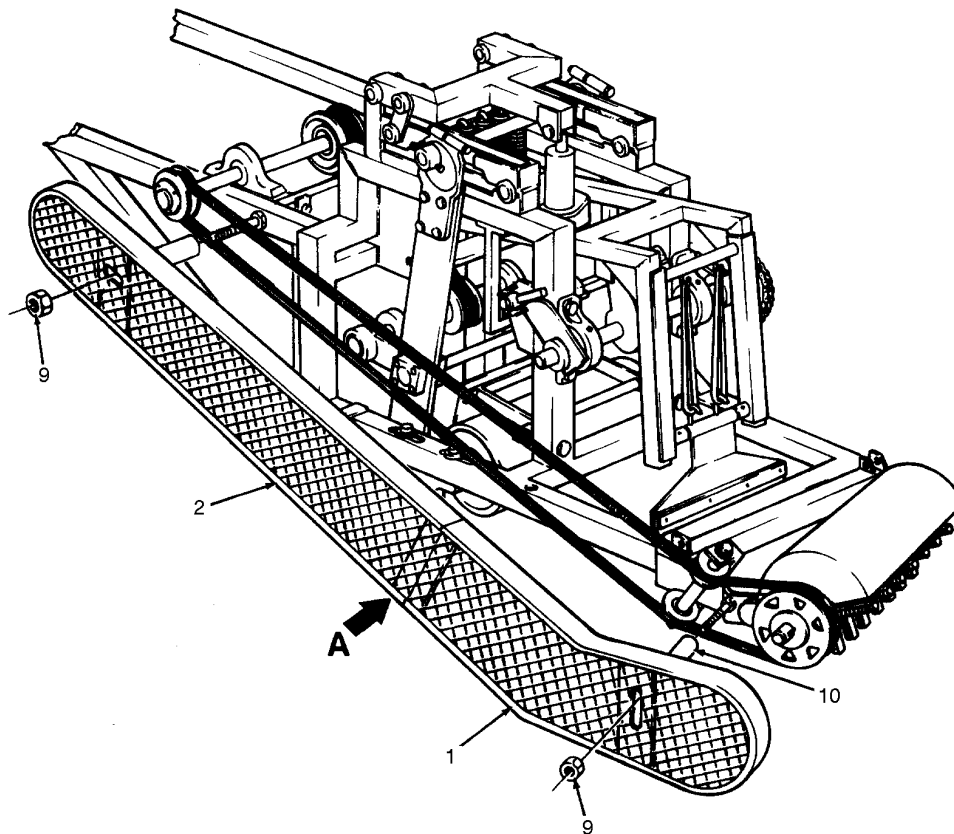
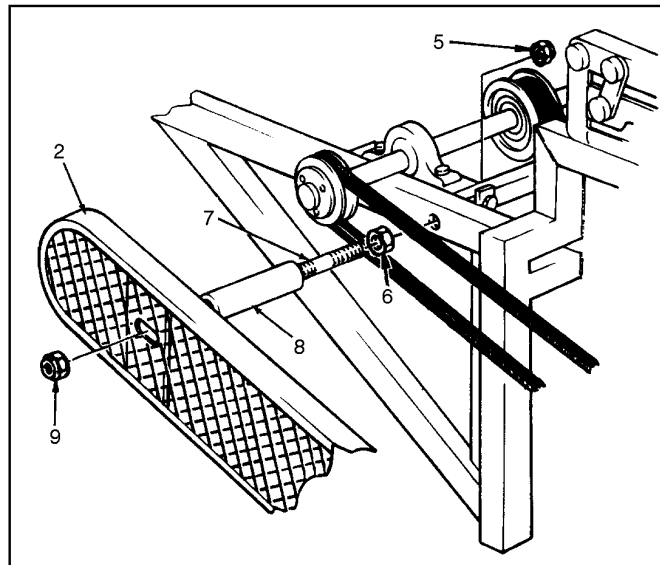
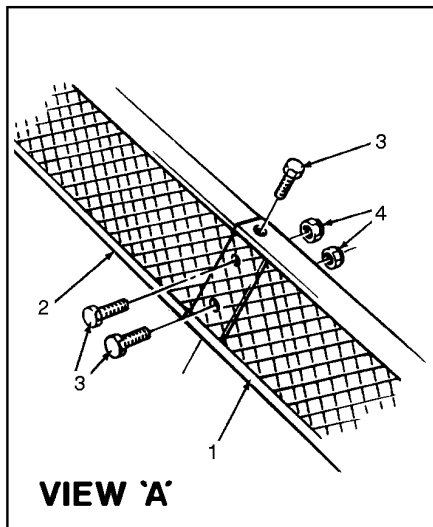


| <b>Ref</b> | <b>Part no.</b> | <b>Description</b>                       | <b>Quantity</b> |
|------------|-----------------|------------------------------------------|-----------------|
| 1          | 016050          | HOSE, STEERING PRESSURE                  | 1               |
| 2          | 016051          | HOSE, STEERING RETURN                    | 1               |
| 3          | 016052          | HOSE, STEERING SELECTOR TO STEERING UNIT | 1               |
| 4          | 016053          | HOSE, STEERING UNIT TO STEERING SELECTOR | 1               |
| 5          | 016054          | HOSE, SELECTOR VALVE TO SENSOR           | 1               |
| 6          | 016055          | HOSE, SENSOR VALVE TO SELECTOR           | 1               |
| 7          | 016056          | HOSE, SENSOR VALVE TO STEERING CYLINDER  | 2               |
| 8          | 016057          | HOSE, STEERING CYLINDER BULKHEAD         | 2               |
| 9          | 016058          | HOSE, RESET CYLINDER EXTEND              | 1               |
| 10         | 016059          | HOSE, RESET CYLINDER RETRACT             | 1               |
| 11         | H7006           | FITTING, BULKHEAD TEE M#6 ORF            | 2               |
|            | E0061           | O-RING                                   | 3               |
| 12         | H7000           | FITTING, CONN M#6 ORBXM#6 ORF            | 2               |
|            | E0061           | O-RING BODY                              | 1               |
|            | E0071           | O-RING FACE                              | 1               |
| 13         | H7002           | FITTING, 90 DEG. M#6 ORBXM#6 ORF         | 5               |
|            | E0061           | O-RING BODY                              | 1               |
|            | E0071           | O-RING FACE                              | 1               |
| 14         | H7003           | FITTING, 90 DEG. M#6 ORBXM#8 ORF         | 1               |
|            | E0061           | O-RING BODY                              | 2               |
|            | E0072           | O-RING FACE                              | 2               |
| 15         | H7004           | FITTING, SW RUN TEE M#6 ORFS             | 1               |
|            | E0061           | O-RING BODY                              | 1               |
| 16         | H6189           | FITTING, 90 DEG. 1/8"NPTX3/8"            | 2               |
| 17         | H7001           | FITTING, CONN M#8 ORBXM#8 ORF            | 1               |
|            | E0062           | O-RING BODY                              | 1               |
|            | E0072           | O-RING FACE                              | 2               |
| 18         | H7005           | FITTING, TEE -8 M ORB/-8 M ORFS          | 1               |
|            | E0062           | O-RING BODY                              | 1               |
|            | E0072           | O-RING FACE                              | 2               |
| 19         | 016325          | TEE, MOD. FOR PRESS. TEST GAUGE          | 1               |
| 20         | H2026           | FITTING, ADAPTER 1/4" NPT-1/8"           | 1               |
| 21         | H8026           | PLUG, SOCKETHEAD 1/4"                    | 1               |

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| Rotary Brush Assembly       | 32-2 |
| Rotary Brush Guard Assembly | 32-4 |



| <b>Ref</b> | <b>Part no.</b> | <b>Description</b>                 | <b>Quantity</b> |
|------------|-----------------|------------------------------------|-----------------|
| 1          | 015221          | BRUSH MOUNTING BRACKET (16/18")    | 1               |
|            | 015518          | BRUSH MOUNTING BRACKET W/A (24")   | 1               |
| 2          | 015227          | BRACKET, IDLER MOUTING             | 1               |
| 4          | 015226          | IDLER, ROTARY BRUSH                | 2               |
| 5          | 015228          | SHAFT, IDLER                       | 1               |
| 6          | 90-0808         | BOLT, 1/2 X 1                      | 2               |
| 7          | F5076           | WASHER, DISC LOCK                  | 2               |
| 8          | F5715           | BOLT, PLOUGH - 1/2 X 1-1/2         | 1               |
| 9          | 94-08           | FLAT WASHER, 1/2                   | 1               |
| 10         | 99-E41          | LOCKNUT, NYLON 1/2                 | 1               |
| 11         | 83-1B66SDS      | PULLEY                             | 1               |
| 12         | D3032           | BUSHING, H 7/8                     | 1               |
| 13         | 124424          | KEY, 1/4" X 1/4" X 1-1/2"          | 2               |
| 14         | D3023           | BUSHING                            | 1               |
| 15         | 015224          | BRUSH COVER (16/18")               | 1               |
|            | 015516          | ROTARY BRUSH COVER W/A (24")       | 1               |
| 16         | B0004           | BEARING                            | 2               |
| 17         | 90-0508         | BOLT, 5/16 X 1                     | 4               |
| 18         | 99-E38          | LOCKNUT, NYLON 5/16                | 8               |
| 19         | A03382          | ASSY., ROTARY BRUSH FRAME (16/18") | 1               |
|            | A03434          | ASSY., ROTARY BRUSH (24")          | 1               |
| 20         | M5106           | SWEEPER FINGERS 11-1/2"            | 31              |
| 21         | 90-0840         | BOLT, 1/2 X 5                      | 2               |
| 22         | 99-E41          | LOCKNUT, NYLON 1/2                 | 4               |
| 23         | 97-0510         | CARRIAGE BOLT, 5/16 X 1-1/4        | 4               |
| 24         | 97-0508         | CARRIAGE BOLT, 5/16 X 1            | 4               |
| 25         | 90-0828         | BOLT, 1/2 X 3-1/2                  | 2               |
| 26         | D2098           | BELT, V:-B144                      | 1               |
| 27         | D2310           | SHEAVE, TAPER LOCK: -1"B" BELT     | 1               |
| 28         | A03381          | ROLLER BRACKET ASSY.               | 1               |
| 29         | 015240          | BRACKET, DAMPER MOUNTING           | 1               |
| 30         | 001507          | BUMPER, RUBBER                     | 1               |
| 31         | 001764          | BUSHING, RUBBER BUMPER             | 1               |
| 32         | 90-0618         | BOLT, 3/8 X 2-1/4                  | 1               |
| 33         | 99-E40          | LOCKNUT, NYLON 3/8                 | 1               |



| <b>Ref</b> | <b>Part no.</b> | <b>Description</b>       | <b>Quantity</b> |
|------------|-----------------|--------------------------|-----------------|
| 1          | 015409          | BELT GUARD FRONT SECTION | 1               |
| 2          | 015410          | BELT GUARD REAR SECTION  | 1               |
| 3          | 90-0406         | BOLT, 1/4 X 3/4          | 4               |
| 4          | 94-04           | FLAT WASHER, 1/4         | 4               |
| 5          | 99-E39          | LOCKNUT, NYLON 1/4       | 4               |
| 6          | F5012           | NUT, JAM NYLON INSERT    | 1               |
| 7          | F5076           | WASHER, DISC LOCK        | 1               |
| 8          | 99-E10          | JAM NUT, 1/2             | 1               |
| 9          | 015426          | ROD, THREADED            | 1               |
| 10         | 015428          | SPACER                   | 1               |
| 11         | 94-08           | FLAT WASHER, 1/2         | 2               |
| 12         | 99-E41          | LOCKNUT, NYLON 1/2       | 2               |
| 13         | 015415          | SPACER                   | 1               |

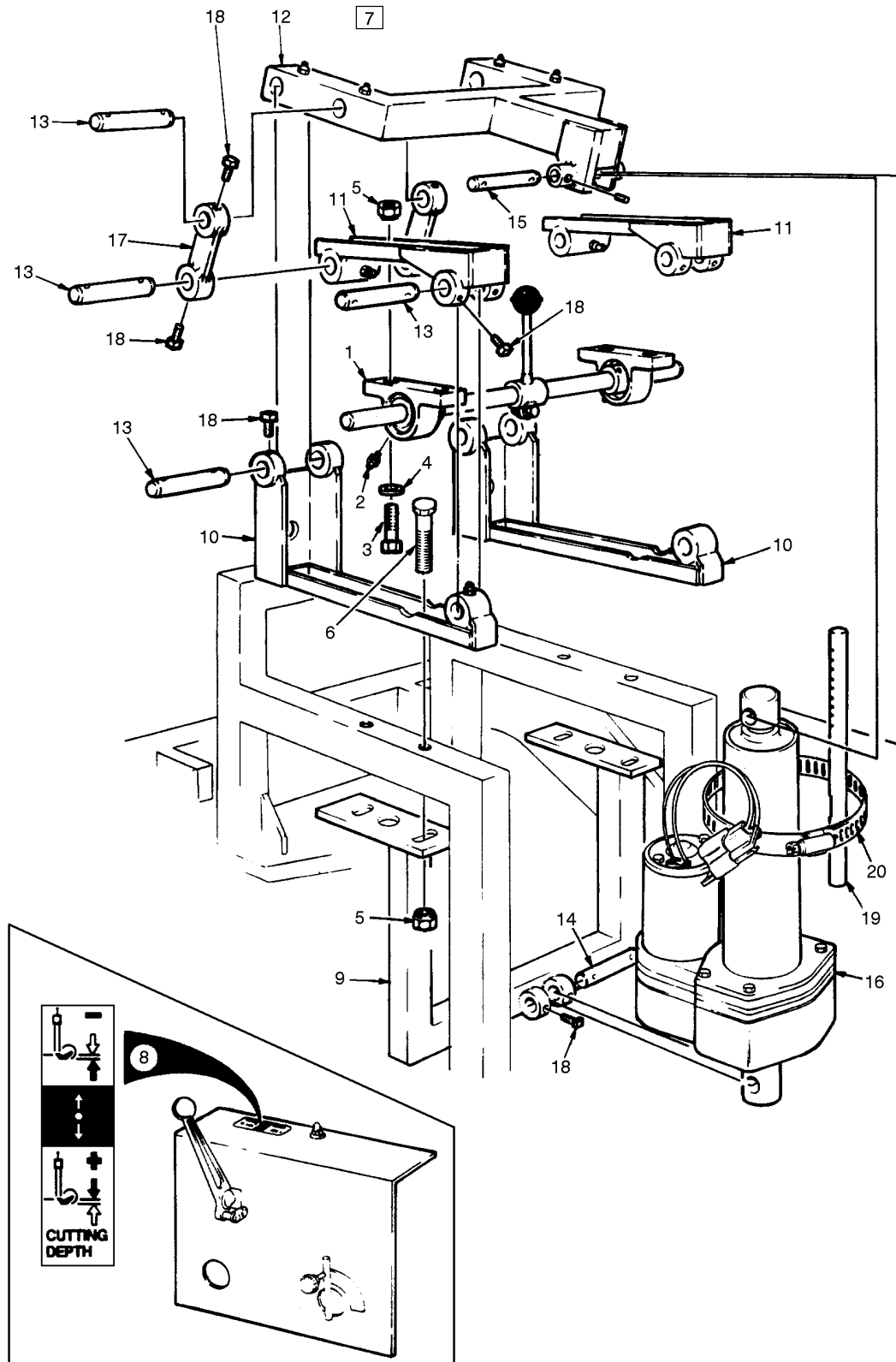
| CONTENTS                                 | PAGE |
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| Electric Depth Control Assembly          | 33-2 |
| Electric Depth Control Electrical System | 33-4 |

A kit is available which contains all the items required to install an Electric Depth Control.

ELECTRIC DEPTH CONTROL KIT: PART NO. A03525

Contains all parts and necessary hardware

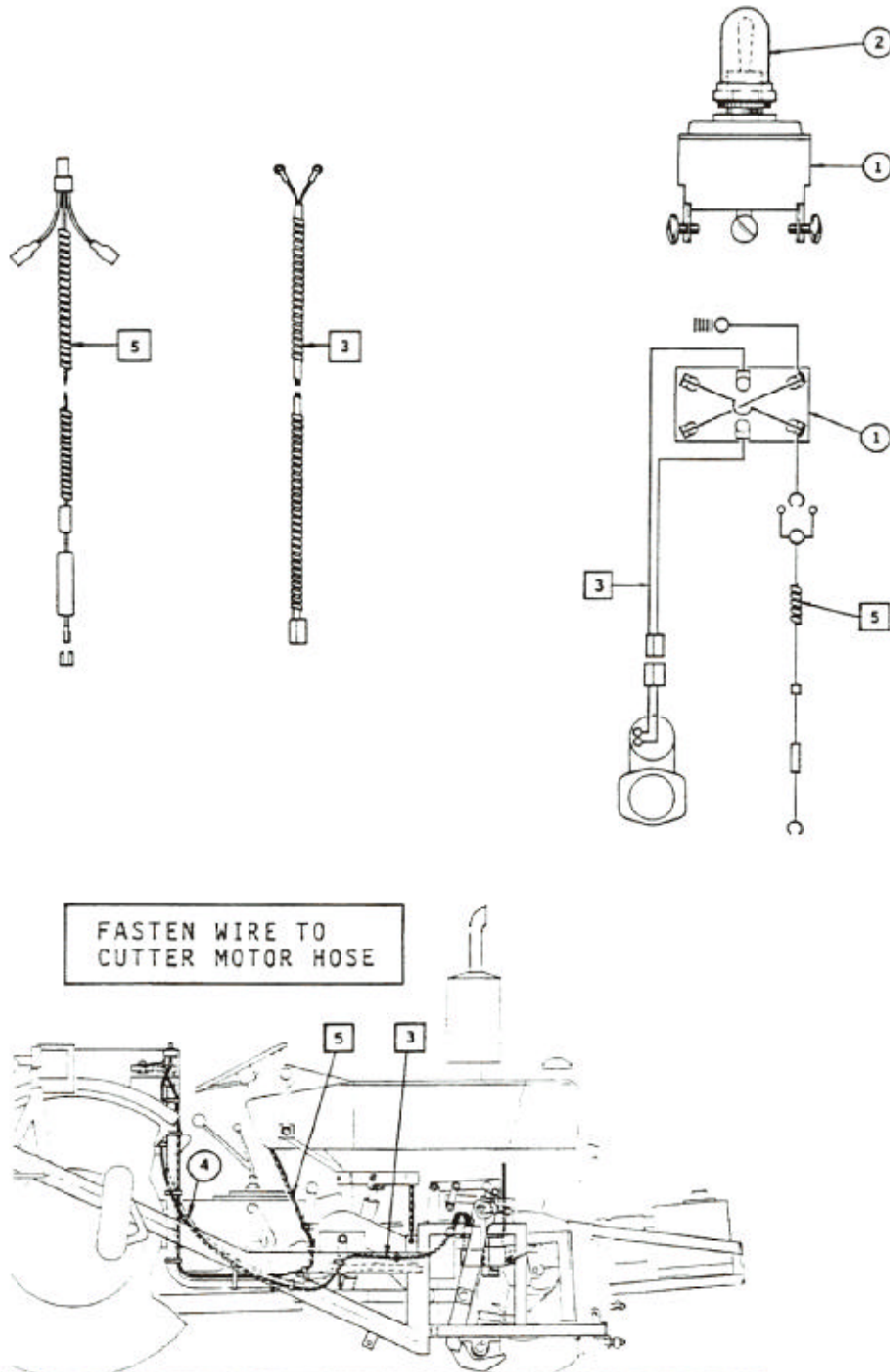
Electric Depth Control Assembly  
Figure 33-1



**Parts List for Figure 33-1**

| <b>Ref</b> | <b>Part no.</b> | <b>Description</b>             | <b>Quantity</b> |
|------------|-----------------|--------------------------------|-----------------|
| 1          | B1003           | BEARING, PILLOW BLOCK -1-1/8   | 2               |
| 2          | 29-010          | FITTING, GREASE                | 2               |
| 3          | 90-0714         | BOLT, 7/16 X 1-3/4             | 4               |
| 4          | 99-B52          | WASHER, 1-1/32 OD X 15/32 ID   | 8               |
| 5          | F4008           | FLANGE NUT                     | 4               |
| 6          | 90-0728         | BOLT, 7/16 X 3-1/2             | 4               |
| 7          | A03525          | DEPTH CONTROL, SHATTUCK 16/18" | 1               |
|            | A03568          | DEPTH CONTROL, SHATTUCK 24"    | 1               |
| 8          | 009573          | DECAL, CUTTING DEPTH           | 1               |
| 9          | 015950          | LOWER MOUNT                    | 1               |
|            | 016529          | LOWER MOUNT 24"                | 1               |
| 10         | 015951          | UPPER MOUNT                    | 2               |
|            | 009536          | BUSHING, BRONZE                | 1               |
| 11         | 015952          | ECCENTRIC SHAFT MOUNT          | 2               |
|            | 009536          | BUSHING, BRONZE                | 1               |
| 12         | 015953          | ACTUATOR ARM                   | 1               |
|            | 009536          | BUSHING, BRONZE                | 4               |
|            | 016528          | ACTUATOR ARM 24"               | 1               |
|            | 009536          | BUSHING, BRONZE                | 4               |
| 13         | 015954          | PIVOT PIN                      | 8               |
| 14         | 015955          | ACTUATOR PIN, LOWER            | 1               |
| 15         | 016010          | ACTUATOR PIN, UPPER            | 1               |
| 16         | J9553           | ACTUATOR, 12V DC LINEAR        | 1               |
| 17         | 015956          | LINK                           | 4               |
| 18         | F1608           | SCREW, SQ. HEAD SET- 1/4 X 1/2 | 16              |
| 19         | 015961          | DEPTH INDICATOR                | 1               |
| 20         | G8015           | CLAMP, HOSE                    | 1               |

Electric Depth Control Assembly  
Electrical System  
Figure 33-2



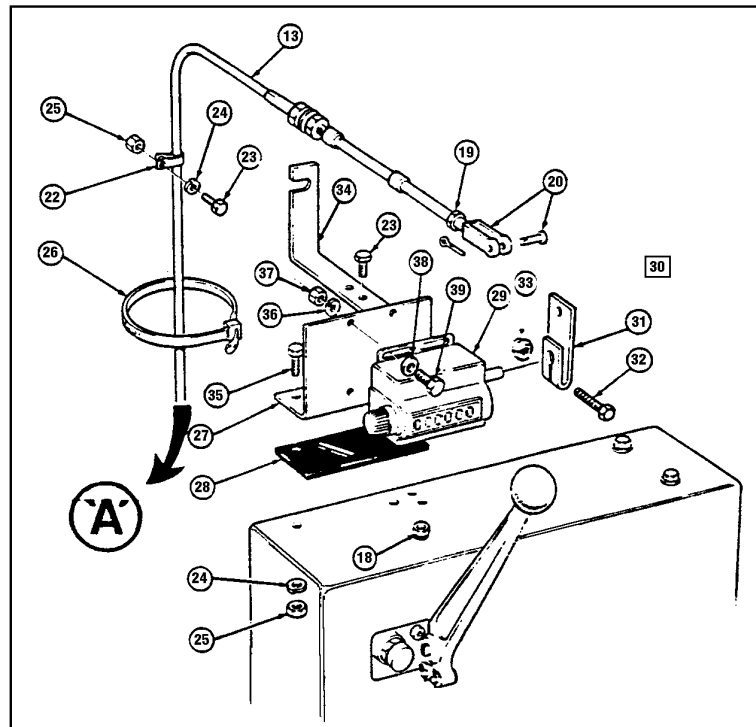
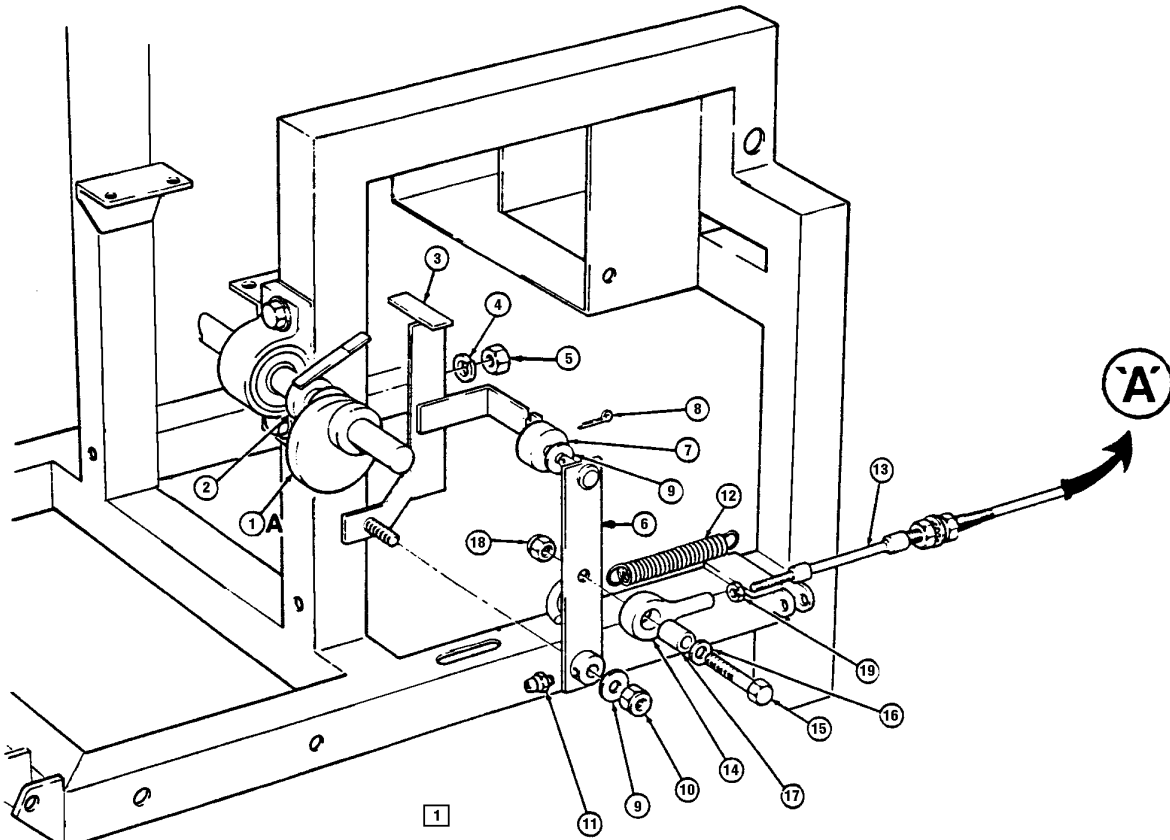
**Parts List for Figure 33-2**

| <b>Ref</b> | <b>Part no.</b> | <b>Description</b>       | <b>Quantity</b> |
|------------|-----------------|--------------------------|-----------------|
| 1          | J0036           | SWITCH, TOGGLE MOMENTARY | 1               |
| 2          | J9505           | BOOT NUT KIT             | 1               |
| 3          | 016184          | HARNESS, DEPTH CONTROL   | 1               |
| 4          | G8022           | TIE STRAPS               | 14              |
| 5          | 015936          | HARNESS, CHASSIS         | 1               |

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COUNTER

34-2

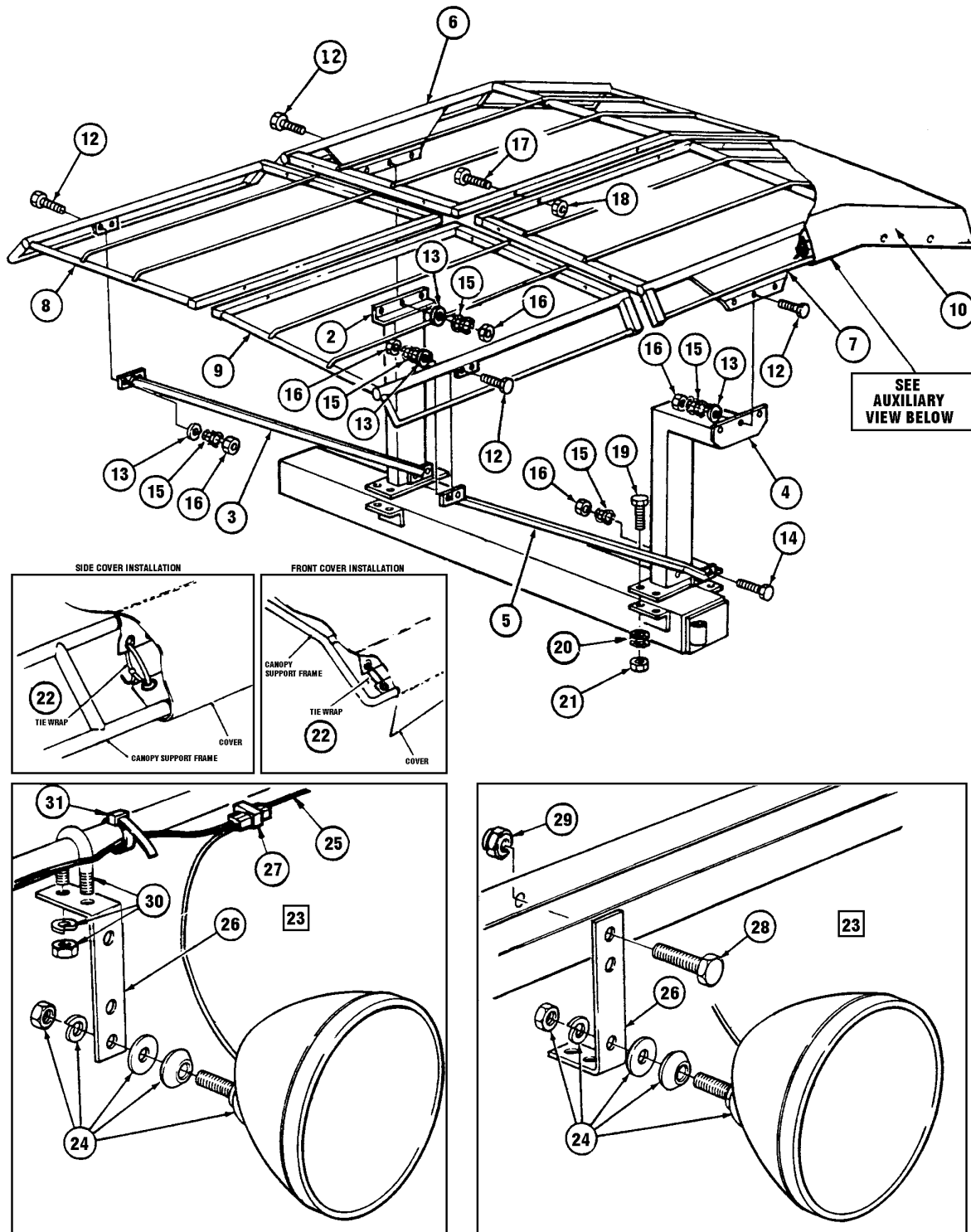


| Ref | Part no.  | Description                    | Quantity |
|-----|-----------|--------------------------------|----------|
| 1   | A03430    | COUNTER ASSEMBLY               | 1        |
| 1A  | 001809    | COUNTER DRIVE CAM              | 1        |
| 2   | 001812    | FULL LENGTH INDICATOR          | 1        |
| 3   | 001805    | MOUNTING BRACKET COUNTER DRIVE | 1        |
| 4   | F3076     | WASHER, DISC LOCK 3/8          | 1        |
| 5   | 92-06     | NUT, 3/8                       | 1        |
| 6   | 001811    | COUNTER DRIVE FOLLOWER ARM     | 1        |
|     | 29-010    | GREASE FITTING                 | 1        |
| 7   | 001807    | CAM FOLLOWER                   | 1        |
| 8   | 02-CP0306 | COTTER PIN, 3/32" X 3/4"       | 1        |
| 9   | 95-05     | FLAT WASHER, 5/16" SAE         | 3        |
| 10  | 99-E38    | LOCKNUT, NYLON 5/16            | 1        |
| 11  | DELETED   |                                |          |
| 12  | S2001     | EXTENSION SPRING               | 1        |
| 13  | M5011     | CABLE                          | 1        |
| 14  | 001806    | CABLE END COUNTER DRIVE        | 1        |
| 15  | 90-0412   | BOLT, 1/40 X 1-1/2             | 1        |
| 16  | 94-04     | FLAT WASHER, 1/4               | 1        |
| 17  | L0006     | BRONZE BUSHING                 | 1        |
| 18  | 99-E39    | LOCKNUT, NYLON 1/4             | 3        |
| 19  | 01-013    | NUT, #10-32                    | 2        |
| 20  | REF       | CLEVIS YOKE & PIN              |          |
|     | 43-Y0303F | YOKE, CLEVIS 10-32 THRD 3/16"  | 1        |
|     | 02-CP0204 | COTTER PIN, 1/16 X 1/2         | 1        |
|     | 03-0305   | CLEVIS PIN, 3/16 X 5/8         | 1        |
| 21  | DELETED   |                                |          |
| 22  | G8006     | CABLE CLAMP                    | 1        |
| 23  | 90-0408   | BOLT, 1/40 X 1                 | 2        |
| 24  | F1076     | WASHER, DISC LOCK 1/4"         | 3        |
| 25  | 92-04     | NUT, 1/4                       | 3        |
| 26  | G8002     | CABLE STRAP                    | 1        |
| 27  | 015501    | COUNTER BRACKET                | 1        |
| 28  | 001881    | VIBRATION DAMPER PAD           | 1        |
| 29  | M5151     | COUNTER                        | 1        |
| 30  | DELETED   |                                |          |
| 31  | 015971    | COUNTER ARM                    | 1        |
| 32  | 90-0408   | BOLT, 1/4 X 1                  | 1        |
| 33  | 99-E39    | LOCKNUT, NYLON 1/4             | 1        |
| 34  | 015506    | BRACKET                        | 1        |
| 35  | 90-0406   | BOLT, 1/4 X 3/4                | 3        |
| 36  | 01-018    | WASHER, LOCK #10               | 4        |
| 37  | 01-017    | NUT, #10-24                    | 5        |
| 38  | 01-028    | WASHER, FLAT #10 SAE           | 4        |
| 39  | F0302     | SCREW, MACHINE 10-24 X 1"      | 5        |

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| Canopy & Lights | 35-2 |

Complete CANOPY - Field Kit Part number A03527  
contains all parts & hardware to install.

Complete CANOPY LIGHT - Field Kit Part number A03392  
contains all parts & hardware to install



| <b>Ref</b> | <b>Part no.</b> | <b>Description</b>          | <b>Quantity</b> |
|------------|-----------------|-----------------------------|-----------------|
| 1          | A03527          | CANOPY ASSEMBLY             | 1               |
| 2          | 015423          | ROOF SUPPORT LH             | 1               |
| 3          | 015261          | ROOF SUPPORT ARM LH         | 1               |
| 4          | 015424          | ROOF SUPPORT RH             | 1               |
| 5          | 015258          | ROOF SUPPORT ARM RH         | 1               |
| 6          | 015957          | FRONT CANOPY FRAME LH       | 1               |
| 7          | 015958          | FRONT CANOPY FRAME RH       | 1               |
| 8          | 015959          | REAR CANOPY FRAME LH        | 1               |
| 9          | 015960          | REAR CANOPY FRAME RH        | 1               |
| 10         | 015908          | CANOPY COVER                | 1               |
| 11         | A03423          | HARDWARE PACKAGE FOR CANOPY | 1               |
| 12         | 90-0508         | BOLT, 5/16 X 1              | 10              |
| 13         | 94-05           | FLAT WASHER, 5/16           | 10              |
| 14         | 90-0524         | BOLT, 5/16 X 3              | 4               |
| 15         | F2076           | WASHER, DISC LOCK 5/16"     | 14              |
| 16         | 92-05           | NUT, 5/16                   | 14              |
| 17         | 90-0520         | BOLT, 5/16 X 2-1/2          | 12              |
| 18         | 99-E38          | LOCKNUT, NYLON 5/16         | 12              |
| 19         | 90-0812         | BOLT, 1/2 X 1-1/2           | 8               |
| 20         | F5076           | WASHER, DISC LOCK 1/2"      | 8               |
| 21         | 92-08           | NUT, 1/2                    | 8               |
| 22         | G8002           | STRAP, NYLON 15-1/4"        | 55              |
| 23         | A03392          | LIGHT ASSEMBLY KIT          | 1               |
| 24         | J3008           | LIGHT                       | 3               |
| 25         | 015466          | WIRE                        | 1               |
| 26         | 015373          | LIGHT BRACKET               | 3               |
| 27         | F9023           | U BOLT KIT                  | 3               |
| 28         | 90-0524         | BOLT, 5/16 X 3              | 3               |
| 29         | 99-E38          | LOCKNUT, NYLON 5/16         | 3               |
| 30         | 30-095          | CONNECTOR, QUICK SPLICE     | 4               |
| 31         | G8022           | STRAP, NYLON                | 6               |