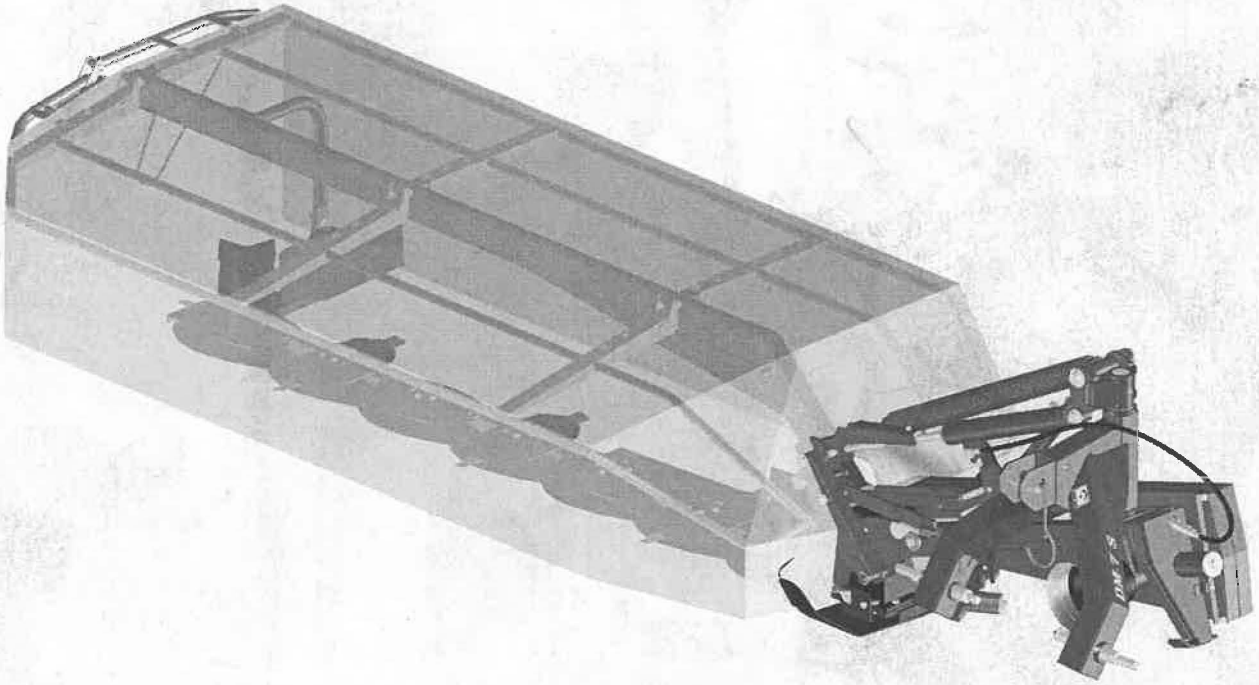
AGRICULTURAL MACHINERY

sitrex® Spa

# ASSEMBLY, USE AND MAINTENANCE SPARE PARTS LIST

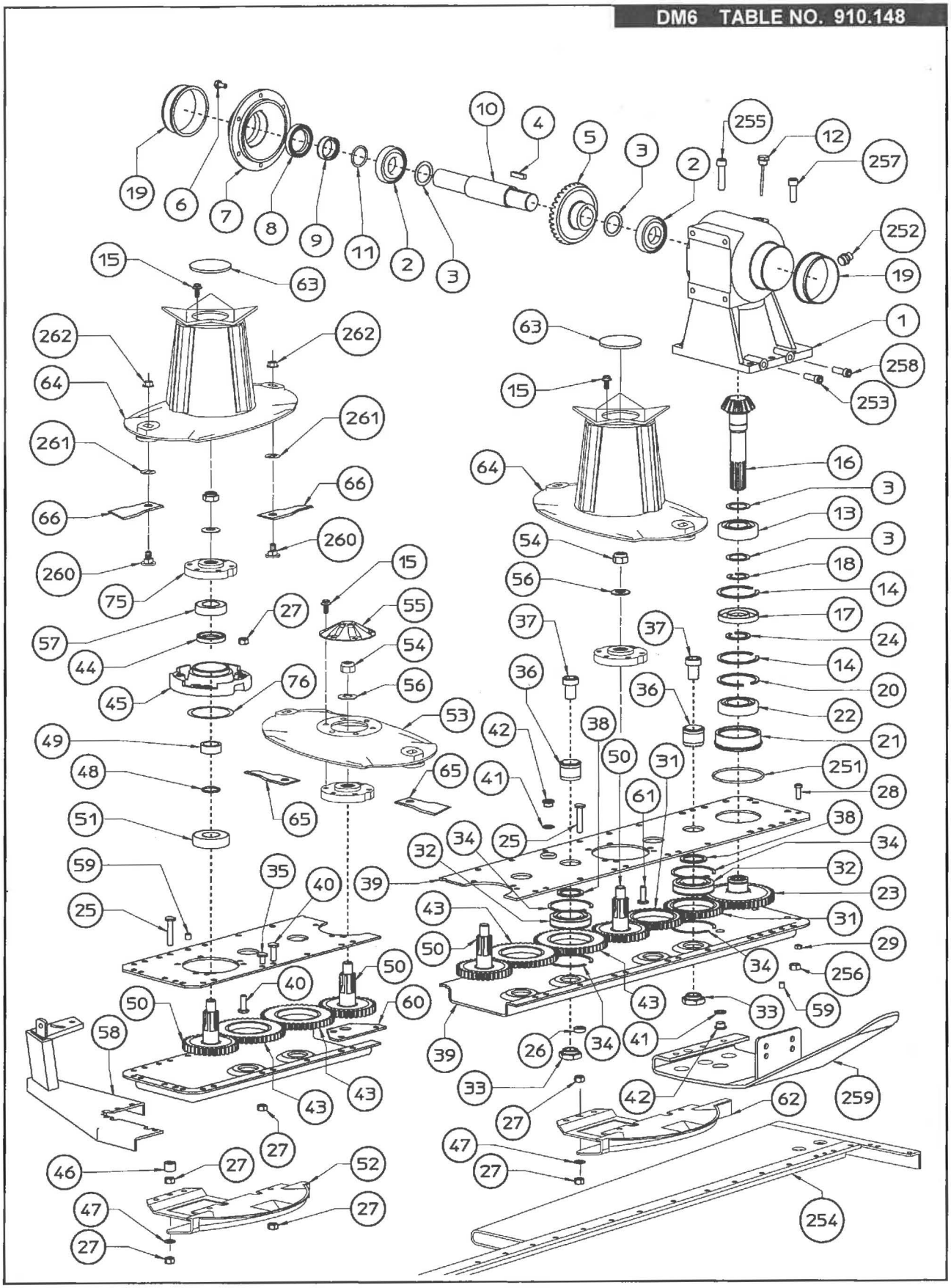


# DM 6-7-8 S

201301

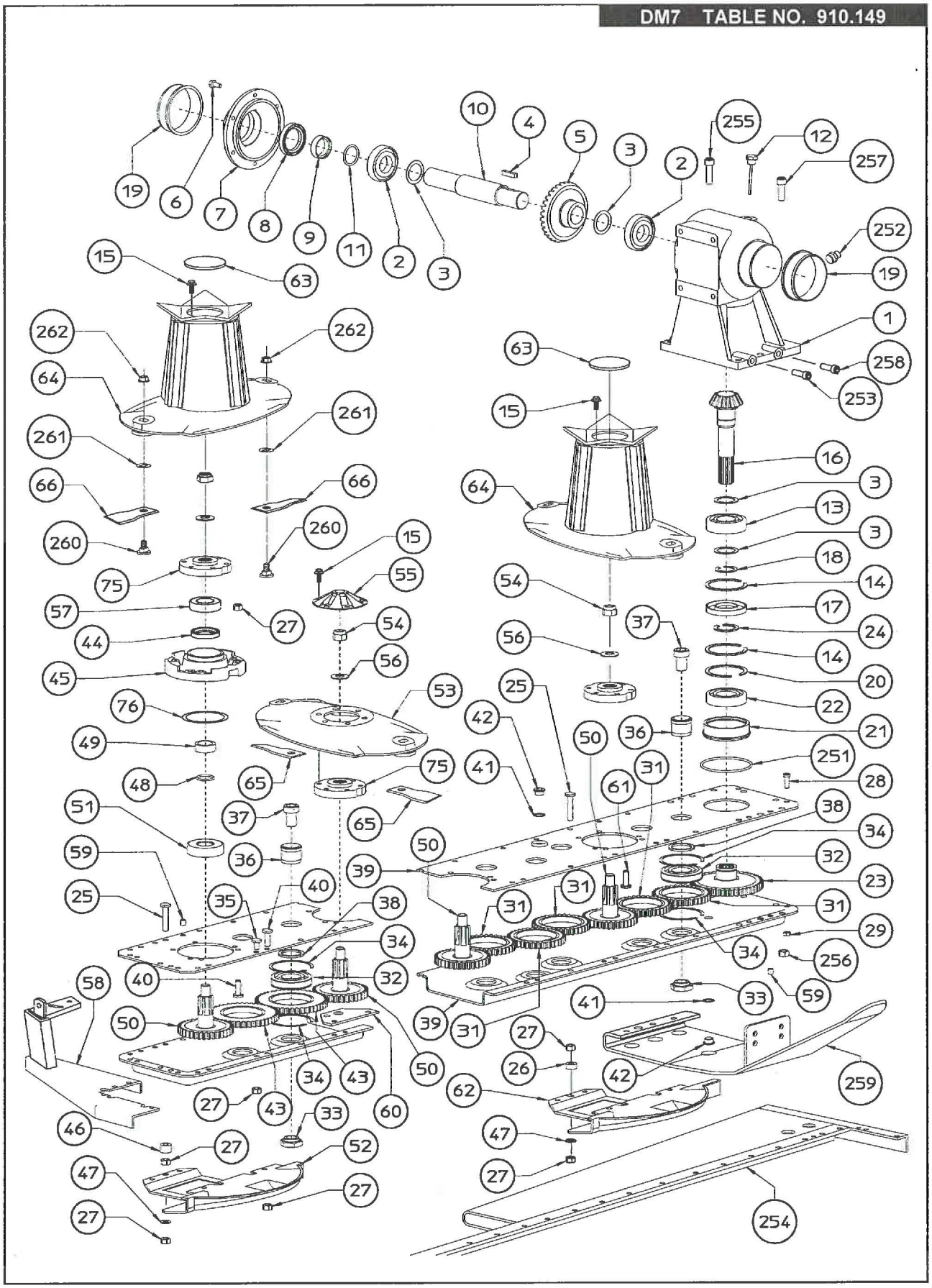
# TABLE OF CONTENT

# SECTION 1 SPARE PARTS LIST



| TABLE NO. 910.148 | | | | |
|---|---|---|---|---|
| DM-6 | | | | |
| ITEM | Q.TY | PART/NO | DESCRIPTION | NOTE |
| 1 | 1 | 100.882 | GEAR BOX CASING | |
| 2 | 2 | 620.129 | BEARING | |
| 3 | 4 | 100.883 | WASHER | |
| 4 | 1 | 620.141 | TAB | |
| 5 | 1 | 100.772 | BEVEL GEAR | |
| 6 | 8 | 620.130 | SCREW | |
| 7 | 1 | 100.770 | COVER | |
| 8 | 1 | 620.156 | OIL SEAL | |
| 9 | 1 | 100.884 | BUSH | |
| 10 | 1 | 100.771 | DRIVING SHAFT | |
| 11 | 1 | 620.171 | RING OR | |
| 12 | 1 | 100.774 | PLUG | |
| 13 | 1 | 620.172 | BEARING | |
| 14 | 2 | 620.148 | SNAP RING | |
| 15 | 36 | 620.244 | SCREW | |
| 16 | 1 | 100.773 | SPROCKET | |
| 17 | 1 | 620.161 | SEAL | |
| 18 | 1 | 620.145 | RING | |
| 19 | 2 | 610.232 | BUSH | |
| 20 | 1 | 620.148 | SNAP RING | |
| 21 | 1 | 100.885 | BEARING BUSH | |
| 22 | 1 | 620.173 | BEARING | |
| 23 | 1 | 100.779 | GEAR | |
| 24 | 1 | 620.146 | SNAP RING | |
| 25 | 6 | 100.783 | SCREW | |
| 26 | 4 | 100.792 | DISTANCE | |
| 27 | 102 | 620.136 | NUT | |
| 28 | 4 | 620.131 | SCREW | |
| 29 | 4 | 620.174 | NUT | |
| 31 | 2 | 100.801 | GEAR | |
| 32 | 12 | 620.126 | BEARING | |
| 33 | 12 | 100.798 | NUT | |
| 34 | 24 | 100.804 | SNAP RING | |
| 35 | 24 | 100.787 | SCREW | |
| 36 | 12 | 100.797 | DISTANCE PIN | |
| 37 | 12 | 100.786 | SCREW | |
| 38 | 12 | 100.785 | DISTANCE | |
| 39 | 1 | 100.887 | SUPPORT (UPPER+LOWER) | |
| 40 | 62 | 100.782 | SCREW | |
| 41 | 3 | 620.175 | WASHER | |
| 42 | 3 | 100.789 | PLUG | |
| 43 | 10 | 100.802 | GEAR | |
| 44 | 6 | 620.159 | SEAL | |
| 45 | 6 | 100.799 | DISC SUPPORT | |
| 46 | 2 | 100.793 | DISTANCE | |

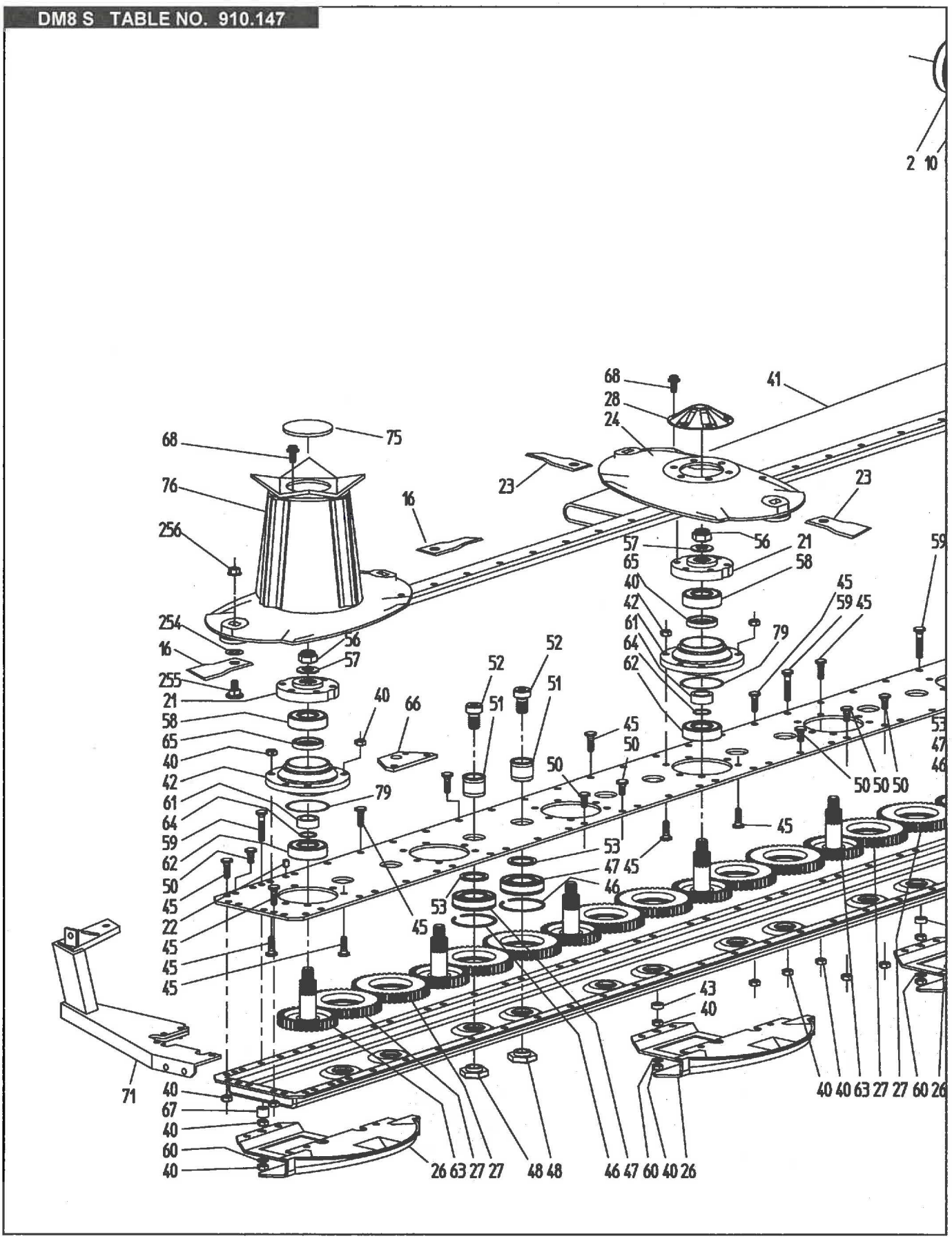
| TABLE NO. 910.148 | | | | |
|---|---|---|---|---|
| DM-6 | | | | |
| ITEM | Q.TY | PART/NO | DESCRIPTION | NOTE |
| 47 | 6 | 100.795 | WASHER | |
| 48 | 6 | 620.165 | RING OR | |
| 49 | 6 | 100.803 | BUSH | |
| 50 | 6 | 100.800 | GEAR | |
| 51 | 6 | 620.176 | BEARING | |
| 52 | 5 | 100.995 | SUPPORT | |
| 53 | 4 | 110.463 | DISC | |
| 54 | 6 | 620.139 | NUT | |
| 55 | 4 | 100.996 | COVER | |
| 56 | 6 | 620.150 | WASHER | |
| 57 | 6 | 620.128 | BEARING | |
| 58 | 1 | 110.127 | SUPPORT DEFLEKTOR | |
| 59 | 2 | 620.143 | SPRING PIN | |
| 60 | 1 | 100.890 | HOOK | |
| 61 | 4 | 100.790 | SCREW | |
| 62 | 1 | 110.001 | SUPPORT | |
| 63 | 2 | 100.791 | PLUG | |
| 64 | 2 | 110.464 | DISC CONVEY | |
| 65 | 6 | 110.118 | CLOCK-WISE KNIFE | |
| 66 | 6 | 110.119 | CONTERCLOCK-WISE KNIFE | |
| 75 | 6 | 100.993 | SUPPORT | |
| 251 | 1 | 620.164 | RING OR | |
| 252 | 1 | 620.152 | PLUG | |
| 253 | 1 | 620.245 | SCREW | |
| 254 | 1 | 110.380 | REAR REINFORCEMENT | |
| 255 | 3 | 620.243 | SCREW | |
| 256 | 8 | 620.137 | NUT | |
| 257 | 5 | 620.133 | SCREW | |
| 258 | 1 | 620.134 | SCREW | |
| 259 | 1 | 100.986 | SUPPORT | |
| 260 | 12 | 100.796 | SCREW | |
| 261 | 12 | 100.821 | WASHER | |
| 262 | 12 | 100.794 | NUT | |

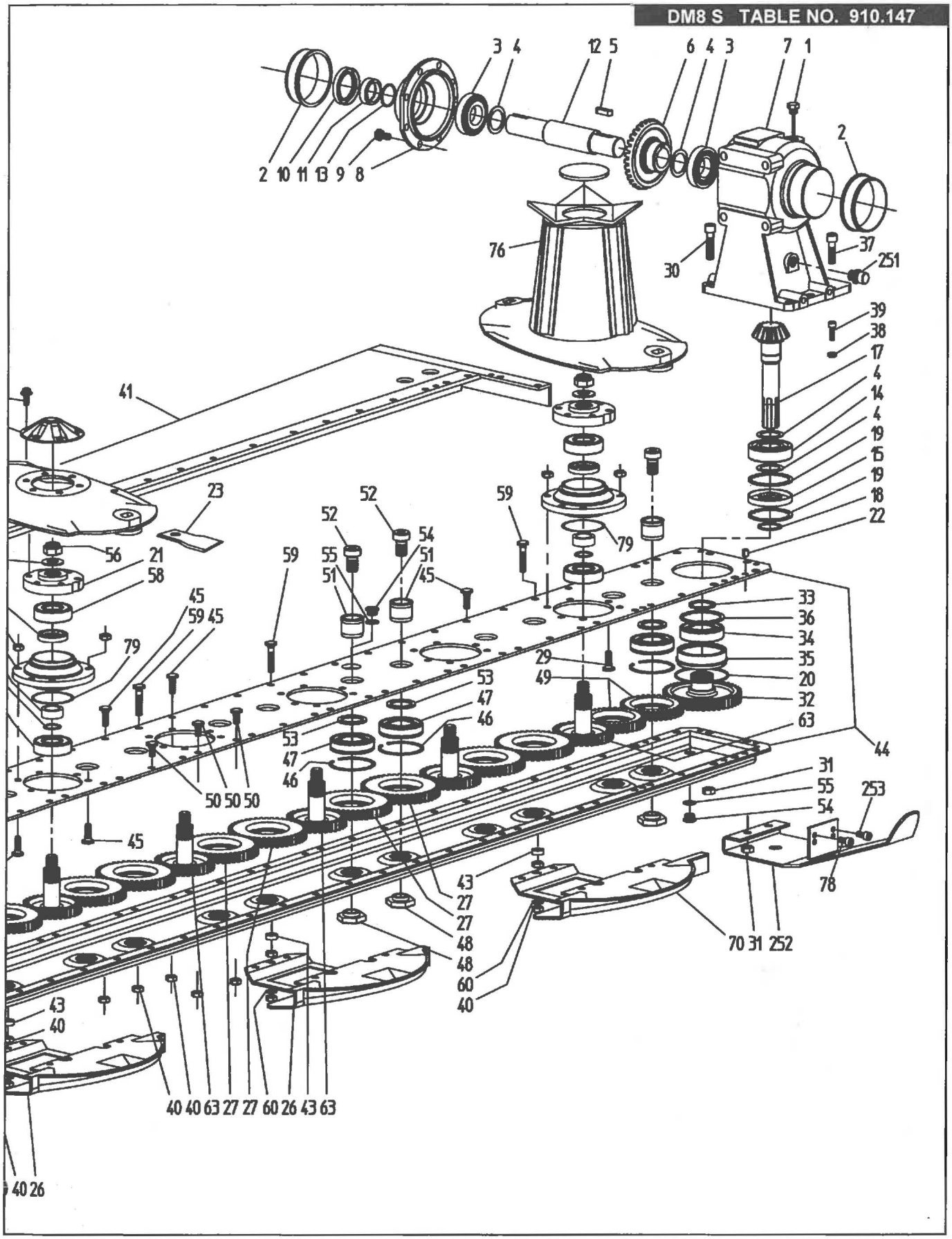

DM7 TABLE NO. 910.149

| TABLE NO. 910.149 | | | | |
|---|---|---|---|---|
| DM-7 | | | | |
| ITEM | Q.TY | PART/NO | DESCRIPTION | NOTE |
| 1 | 1 | 100.992 | GEAR BOX CASING | |
| 2 | 2 | 620.129 | BEARING | |
| 3 | 4 | 100.883 | WASHER | |
| 4 | 1 | 620.141 | TAB | |
| 5 | 1 | 100.772 | BEVEL GEAR | |
| 6 | 8 | 620.130 | SCREW | |
| 7 | 1 | 100.770 | COVER | |
| 8 | 1 | 620.156 | OIL SEAL | |
| 9 | 1 | 100.884 | BUSH | |
| 10 | 1 | 100.771 | DRIVING SHAFT | |
| 11 | 1 | 620.171 | RING OR | |
| 12 | 1 | 100.774 | PLUG | |
| 13 | 1 | 620.172 | BEARING | |
| 14 | 2 | 620.148 | SNAP RING | |
| 15 | 42 | 620.244 | SCREW | |
| 16 | 1 | 100.773 | SPROCKET | |
| 17 | 1 | 620.161 | SEAL | |
| 18 | 1 | 620.145 | RING | |
| 19 | 2 | 610.232 | BUSH | |
| 20 | 1 | 620.148 | SNAP RING | |
| 21 | 1 | 100.885 | BEARING BUSH | |
| 22 | 1 | 620.173 | BEARING | |
| 23 | 1 | 100.779 | GEAR | |
| 24 | 1 | 620.146 | SNAP RING | |
| 25 | 7 | 100.783 | SCREW | |
| 26 | 4 | 100.792 | SCREW | |
| 27 | 118 | 620.136 | NUT | |
| 28 | 4 | 620.131 | SCREW | |
| 29 | 4 | 620.174 | NUT | |
| 31 | 5 | 100.801 | GEAR | |
| 32 | 15 | 620.126 | BEARING | |
| 33 | 15 | 100.798 | NUT | |
| 34 | 30 | 100.804 | SNAP RING | |
| 35 | 31 | 100.787 | SCREW | |
| 36 | 15 | 100.797 | DISTANCE PIN | |
| 37 | 15 | 100.786 | SCREW | |
| 38 | 15 | 100.785 | DISTANCE | |
| 39 | 1 | 100.886 | SUPPORT (UPPER+LOWER) | |
| 40 | 71 | 100.782 | SCREW | |
| 41 | 3 | 620.175 | WASHER | |
| 42 | 3 | 100.789 | PLUG | |
| 43 | 10 | 100.802 | GEAR | |
| 44 | 7 | 620.159 | SEAL | |
| 45 | 7 | 100.799 | DISC SUPPORT | |
| 46 | 6 | 100.793 | DISTANCE | |

| TABLE NO. 910.149 | | | | |
|---|---|---|---|---|
| DM-7 | | | | |
| ITEM | Q.TY | PART/NO | DESCRIPTION | NOTE |
| 47 | 7 | 100.795 | WASHER | |
| 48 | 7 | 620.165 | RING OR | |
| 49 | 7 | 100.803 | BUSH | |
| 50 | 7 | 100.800 | GEAR | |
| 51 | 7 | 620.176 | BEARING | |
| 52 | 5 | 100.995 | SUPPORT | |
| 53 | 5 | 110.463 | DISC | |
| 54 | 7 | 620.139 | NUT | |
| 55 | 5 | 100.996 | COVER | |
| 56 | 7 | 620.150 | WASHER | |
| 57 | 7 | 620.128 | BEARING | |
| 58 | 1 | 110.127 | SUPPORT DEFLEKTOR | |
| 59 | 2 | 620.143 | SPRING PIN | |
| 60 | 1 | 100.890 | HOOK | |
| 61 | 7 | 100.790 | SCREW | |
| 62 | 2 | 110.001 | SUPPORT | |
| 63 | 2 | 100.791 | PLUG | |
| 64 | 2 | 110.464 | DISC CONVEY | |
| 65 | 6 | 110.118 | CLOCK-WISE KNIFE | |
| 66 | 8 | 110.119 | CONTERCLOCK-WISE KNIFE | |
| 75 | 7 | 100.993 | SUPPORT | |
| 251 | 1 | 620.164 | RING OR | |
| 252 | 1 | 620.152 | PLUG | |
| 253 | 1 | 620.245 | SCREW | |
| 254 | 1 | 110.379 | REAR REINFORCEMENT | |
| 255 | 3 | 620.243 | SCREW | |
| 256 | 8 | 620.137 | NUT | |
| 257 | 5 | 620.133 | SCREW | |
| 258 | 2 | 620.134 | SCREW | |
| 259 | 1 | 100.986 | SUPPORT | |
| 260 | 14 | 100.796 | SCREW | |
| 261 | 14 | 100.821 | WASHER | |
| 262 | 14 | 100.794 | NUT | |

## DM8 S TABLE NO. 910.147

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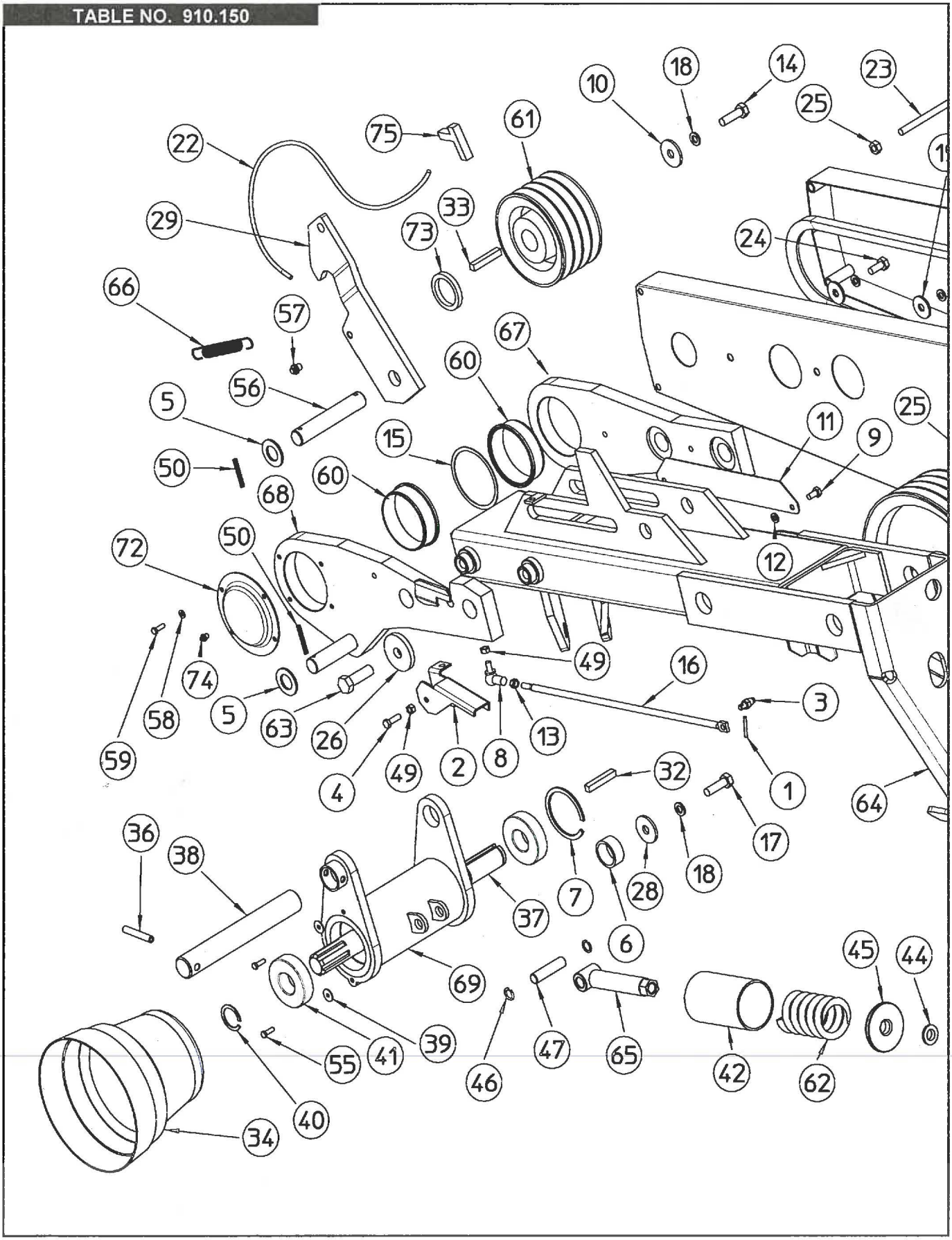
40 26

| DM8 S TABLE NO. 910.147 | | | | |
|---|---|---|---|---|
| Item Pos. | Part No. Code | Q.tè Q.ty | DESCRIPTION | NOTE |
| 1 | 100.774 | 1 | PLUG | |
| 2 | 610.232 | 2 | BUSHING | |
| 3 | 620.129 | 2 | BEARING | |
| 4 | 100.883 | 4 | WASHER | |
| 5 | 620.141 | 1 | TAB | |
| 6 | 100.772 | 1 | BEVEL GEAR | |
| 7 | 100.992 | 1 | GEAR BOX CASING | |
| 8 | 100.770 | 1 | COVER | |
| 9 | 620.130 | 8 | SCREW | |
| 10 | 620.156 | 1 | OIL SEAL | |
| 11 | 100.884 | 1 | BUSH | |
| 12 | 100.771 | 1 | DRIVING SHAFT | |
| 13 | 620.171 | 1 | RING OR | |
| 14 | 620.172 | 1 | BEARING | |
| 15 | 620.161 | 1 | SEAL | |
| 16 | 110.119 | 8 | COUNTERCLOCK-WISE KNIFE | |
| 17 | 100.773 | 1 | SPROCKET | |
| 18 | 620.145 | 1 | RING | |
| 19 | 620.148 | 2 | SNAP RING | |
| 20 | 620.164 | 1 | O-RING GASKET | |
| 21 | 100.993 | 8 | DISC SUPPORT | |
| 22 | 620.143 | 2 | SPRING PIN | |
| 23 | 110.118 | 8 | CLOCK-WISE KNIFE | |
| 24 | 110.463 | 6 | CUTTING DISC | |
| 26 | 100.995 | 7 | SLIDING SUPPORT | |
| 27 | 100.802 | 14 | GEAR | |
| 28 | 100.996 | 1 | DISC COVER | |
| 29 | 100.790 | 1 | SCREW | |
| 30 | 620.243 | 3 | SCREW | |
| 31 | 620.137 | 8 | NUT | |
| 32 | 100.906 | 1 | GEAR | |
| 33 | 620.146 | 1 | SNAP RING | |
| 34 | 620.173 | 1 | BEARING | |
| 35 | 100.885 | 1 | BEARING BUSH | |
| 36 | 620.148 | 1 | SNAP RING | |
| 37 | 620.133 | 5 | SCREW | |
| 38 | 620.174 | 4 | NUT | |
| 39 | 620.131 | 4 | SCREW | |
| 40 | 620.136 | 128 | NUT | |
| 41 | 100.997 | 1 | REAR REINFORCEMENT | |
| 42 | 110.418 | 8 | BEARING DISC SUPPORT | |
| 43 | 100.792 | 6 | SPACER | |
| 44 | 100.998 | 1 | SUPPORT (UPPER+LOWER) | |
| 45 | 100.782 | 97 | SCREW | |
| 46 | 100.804 | 16 | SNAP RING | |

| DM8 S TABLE NO. 910.147 | | | | |
|---|---|---|---|---|
| Item Pos. | Part No. Code | Q.ty Q.tè | DESCRIPTION | NOTE |
| 47 | 620.126 | 16 | BEARING | |
| 48 | 100.798 | 16 | NUT | |
| 49 | 100.801 | 2 | GEAR | |
| 50 | 100.787 | 31 | SCREW | |
| 51 | 100.797 | 16 | DISTANCE PIN | |
| 52 | 100.786 | 16 | SCREW | |
| 53 | 100.785 | 16 | DISTANCE | |
| 54 | 100.789 | 2 | PLUG | |
| 55 | 620.175 | 2 | WASHER | |
| 56 | 620.139 | 8 | NUT | |
| 57 | 620.150 | 8 | WASHER | |
| 58 | 620.128 | 8 | BEARING | |
| 59 | 100.783 | 8 | SCREW | |
| 60 | 100.795 | 8 | WASHER | |
| 61 | 100.803 | 8 | BUSH | |
| 62 | 620.176 | 8 | BEARING | |
| 63 | 100.800 | 8 | GEAR | |
| 64 | 620.165 | 8 | RING OR | |
| 65 | 620.159 | 8 | SEAL | |
| 66 | 100.890 | 1 | HOOK | |
| 67 | 100.793 | 2 | DISTANCE | |
| 68 | 620.244 | 48 | SCREW | |
| 70 | 110.001 | 1 | SLIDING SUPPORT | |
| 71 | 110.127 | 1 | DISC SUPPORT | |
| 75 | 100.791 | 2 | PLUG | |
| 76 | 110.464 | 2 | DISC + CONVEY | |
| 77 | 500.056 | 1 | PLUG | |
| 78 | 620.245 | 1 | SCREW | |
| 79 | 630.576 | 8 | RING OR | |
| 251 | 620.152 | 1 | PLUG | |
| 252 | 100.986 | 1 | SLIDING SUPPORT | |
| 253 | 620.134 | 1 | SCREW | |
| 254 | 100.821 | 16 | WASHER | |
| 255 | 100.796 | 16 | SCREW | |
| 256 | 100.794 | 16 | NUT | |

TABLE NO. 910.150



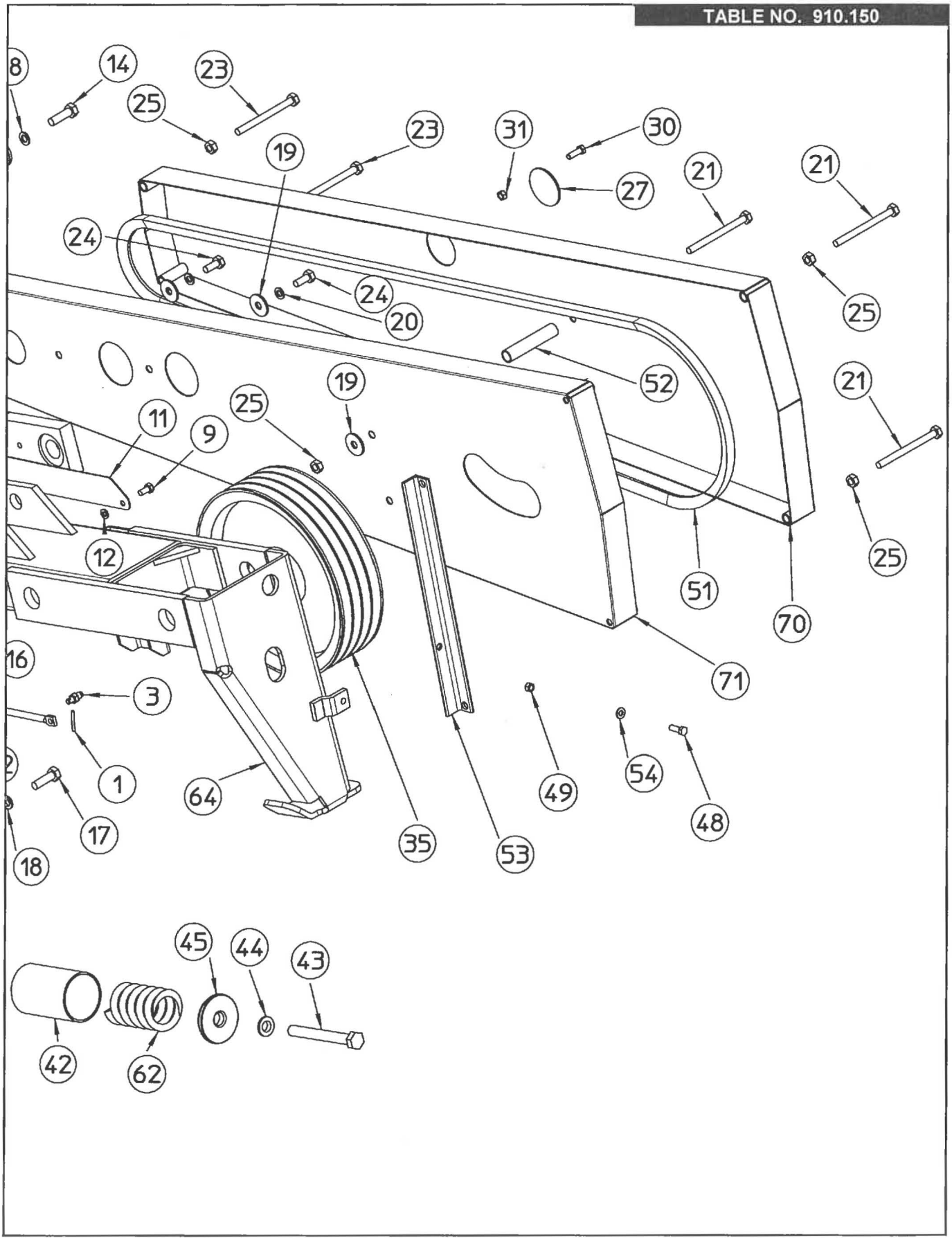


TABLE NO. 910.150
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| TABLE NO. 910.150 | | | |
|---|---|---|---|
| Item Pos. | Part No. Code | DESCRIPTION | NOTE |
| 1 | 600.306 | PLUG | |
| 2 | 110.429 | LEVER | |
| 3 | 110.486 | PIN | |
| 4 | 600.551 | SCREW | |
| 5 | 110.493 | WASHER | |
| 6 | 110.482 | SPACER | |
| 7 | 620.480 | SNAP RING | |
| 8 | 630.931 | BALL JOINT M8 | |
| 9 | 600.061 | SCREW | |
| 10 | 110.487 | WASHER | |
| 11 | 110.476 | PROTECTION | |
| 12 | 600.229 | WASHER | |
| 13 | 600.037 | NUT | |
| 14 | 620.475 | SCREW | |
| 15 | 100.352 | SHIM | |
| 16 | 110.477 | TIE ROD | |
| 17 | 630.967 | SCREW | |
| 18 | 600.018 | SPRING WASHER | |
| 19 | 620.250 | WASHER D.11 | |
| 20 | 600.024 | WASHER | |
| 21 | 600.206 | SCREW M10x120 | |
| 22 | 610.160 | ROPE | |
| 23 | 110.021 | SCREW | |
| 24 | 600.006 | SCREW | |
| 25 | 600.029 | NUT | |
| 26 | 110.423 | WASHER | |
| 27 | 100.313 | PLUG | |
| 28 | 110.487 | WASHER | |
| 29 | 110.424 | HOOK | |
| 30 | 630.100 | SCREW | |
| 31 | 610.718 | NUT | |
| 32 | 630.969 | TAB | |
| 33 | 610.505 | TAB | |
| 34 | 620.442 | PDF CAP | |
| 35 | 100.224 | PULLEY | |
| 36 | 600.540 | SPRING PIN | |
| 37 | 110.478 | INPUT SHAFT | |
| 38 | 100.958 | PIN | |
| 39 | 600.135 | WASHER | |
| 40 | 600.333 | SNAP RING | |
| | | | |

| TABLE NO. 910.150 | | | |
|---|---|---|---|
| Item Pos. | Part No. Code | DESCRIPTION | NOTE |
| 41 | 620.248 | BEARING | |
| 42 | 100.969 | SPACER | |
| 43 | 620.249 | BELT TENSION SCREW | |
| 44 | 100.970 | WASHER | |
| 45 | 100.968 | TIGHTENER WASHER | |
| 46 | 600.533 | RETAINING RING | |
| 47 | 100.758 | PIN | |
| 48 | 600.702 | SCREW | |
| 49 | 600.076 | NUT | |
| 50 | 600.539 | SPRING PIN | |
| 51 | 620.251 | BELT | |
| 52 | 110.022 | SPACER | |
| 53 | 110.016 | BELT COVER SUPPORT | |
| 54 | 610.185 | WASHER | |
| 55 | 620.278 | SCREW (M6x16 5739-ZN) | |
| 56 | 110.426 | PIN | |
| 57 | 220.159 | PIN | |
| 58 | 600.514 | FLAT WASHER | |
| 59 | 630.003 | SCREW | |
| 60 | 610.232 | BUSH | |
| 61 | 100.225 | PULLEY | |
| 62 | 100.967 | PTO SPRING | |
| 63 | 610.510 | SCREW | |
| 64 | 110.420 | FRAME | |
| 65 | 100.965 | TIGHTENER ROD | |
| 66 | 110.425 | SPRING | |
| 67 | 110.421 | GEARBOX SUPPORT | |
| 68 | 110.422 | GEARBOX SUPPORT | |
| 69 | 110.479 | PTO SUPPORT | |
| 70 | 100.964 | BELT REAR COVER | |
| 71 | 110.427 | BELT FRONT COVER | |
| 72 | 110.488 | COVER | |
| 73 | 110.015 | SHIM | |
| 74 | 600.124 | GREASE NIPPLE | |
| 75 | 620.357 | HANDLE | |
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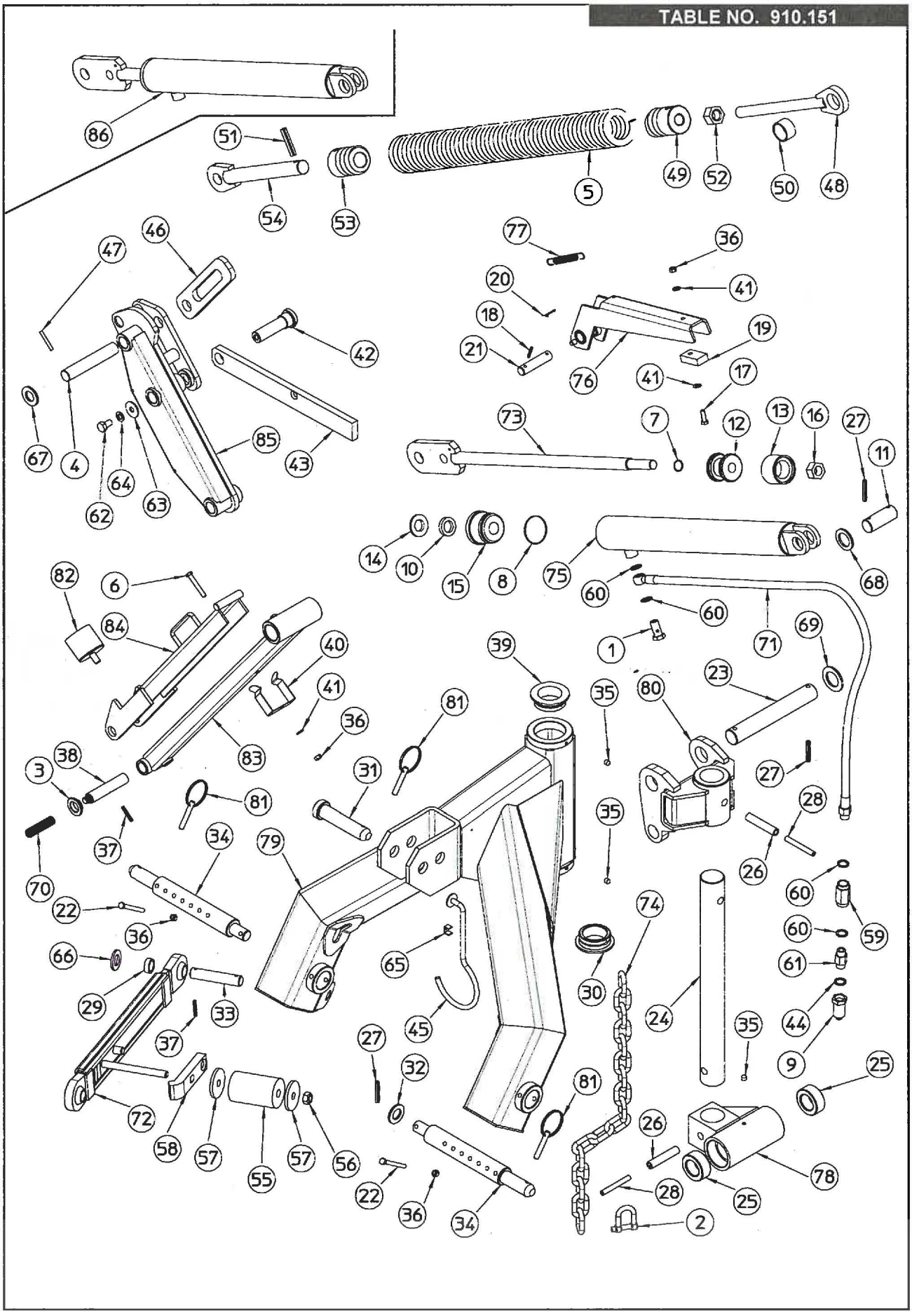
TABLE NO. 910.151

| TABLE NO. 910.151 | | | |
|---|---|---|---|
| Item Pos. | Part No. Code | DESCRIPTION | NOTE |
| 1 | 600.040 | FITTING D 3/8 | |
| 2 | 610.118 | SHACKLES | |
| 3 | 110.475 | SPACER | |
| 4 | 110.459 | PIN | |
| 5 | 100.979 | SPRING PIN | |
| 6 | 630.005 | SCREW | |
| 7* | 600.646 | O RING | |
| 8* | 600.875 | O RING | |
| 9 | 600.273 | QUICK COUPLING | |
| 10* | 610.436 | GASKET | |
| 11 | 110.447 | PIN | |
| 12 | 110.495 | PISTON | |
| 13* | 600.647 | GASKET | |
| 14* | 610.435 | GASKET | |
| 15 | 110.470 | CYLINDER HEAD | |
| 16 | 610.087 | NUT | |
| 17 | 600.702 | SCREW | |
| 18 | 600.182 | SPRING PIN | |
| 19 | 110.450 | NYLON PROTECTION | |
| 20 | 600.112 | SPLIT PIN | |
| 21 | 110.449 | PIN | |
| 22 | 600.400 | SCREW | |
| 23 | 110.445 | PIN | |
| 24 | 100.954 | PIN | |
| 25 | 110.480 | BUSHING | |
| 26 | 620.247 | SPRING PIN | |
| 27 | 600.027 | SPRING PIN | |
| 28 | 600.033 | PIN | |
| 29 | 110.398 | BUSHING | |
| 30 | 110.484 | BUSHING | |
| 31 | 110.011 | 3 POINT HITCH PIN | |
| 32 | 600.336 | WASHER | |
| 33 | 110.455 | PIN | |
| 34 | 100.951 | PIN | |
| 35 | 600.124 | GREASE NIPPLE | |
| 36 | 600.076 | NUT | |
| 37 | 600.538 | SPRING PIN | |
| 38 | 110.454 | PIN | |
| 39 | 100.953 | BUSHING | |
| 40 | 110.453 | LOCKING SPRING | |
| 41 | 600.115 | WASHER | |
| 42 | 110.483 | PIN | |
| 43 | 110.458 | ROD | |
| 44 | 630.048 | WASHER | |
| 45 | 100.253 | SUPPORT | |
| | | | |
| * | 630.950 | CYLINDER GASKET SET | |

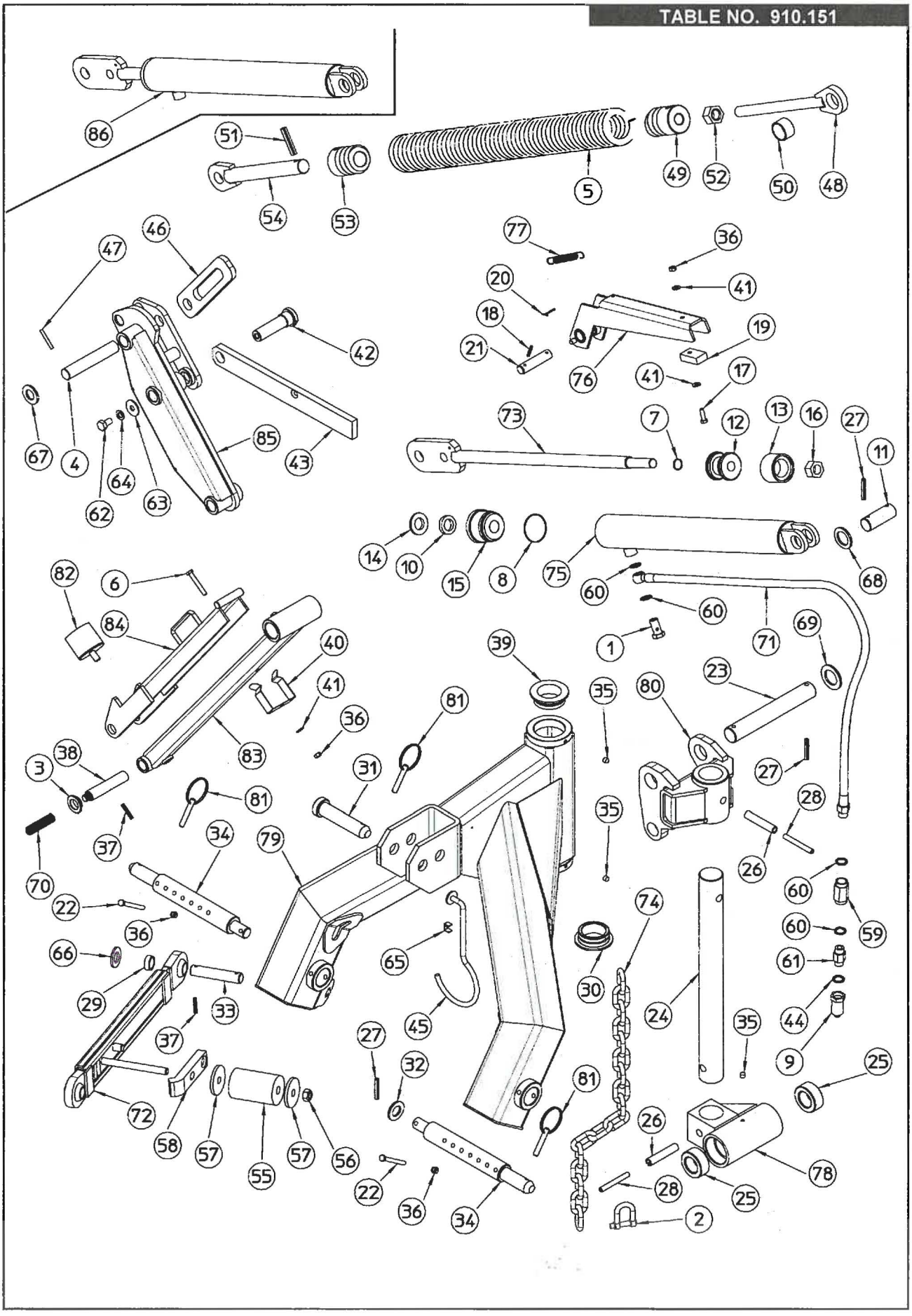
TABLE NO. 910.151

| TABLE NO. 910.151 | | | |
|---|---|---|---|
| Item Pos. | Part No. Code | DESCRIPTION | NOTE |
| 46 | 110.457 | ROD PLATE | |
| 47 | 600.539 | SPRING PIN | |
| 48 | 100.977 | SPRING SUPPORT | |
| 49 | 100.978 | SPRING HEAD | |
| 50 | 100.976 | SPACER | |
| 51 | 620.252 | SPRING PIN | |
| 52 | 600.200 | NUT | |
| 53 | 100.980 | SPRING HEAD | |
| 54 | 100.981 | SPRING SUPPORT | |
| 55 | 110.009 | RUBBER SPRING | |
| 56 | 600.075 | NUT | |
| 57 | 110.010 | WASHER | |
| 58 | 100.168 | HOOK | |
| 59 | 610.144 | VALVE | |
| 60 | 620.452 | WASHER | |
| 61 | 600.416 | UNION CONN. 3/8-1/2 | |
| 62 | 600.441 | SCREW | |
| 63 | 600.845 | WASHER | |
| 64 | 600.018 | SPRING WASHER | |
| 65 | 200.992 | CLIP | |
| 66 | 600.042 | WASHER | |
| 67 | 110.493 | WASHER | |
| 68 | 110.135 | WASHER | |
| 69 | 110.494 | WASHER | |
| 70 | 110.485 | SPRING | |
| 71 | 630.949 | HOSE | |
| 72 | 110.003 | SAFETY ROD | |
| 73 | 110.469 | CYLINDER ROD | |
| 74 | 110.367 | CHAIN | |
| 75 | 110.468 | CYLINDER BARREL | |
| 76 | 110.448 | CYLINDER STOP | |
| 77 | 220.123 | SPRING | |
| 78 | 100.956 | PIVOTING SUPPORT | |
| 79 | 110.443 | 3 POINT HITCH | |
| 80 | 110.444 | HEAD SUPPORT | |
| 81 | 600.017 | PIN | |
| 82 | 630.968 | RUBBER | |
| 83 | 110.451 | TIE ROD | |
| 84 | 110.452 | TIE ROD | |
| 85 | 110.456 | LEVER | |
| 86 | 110.446 | CYLINDER, COMPLETE | |
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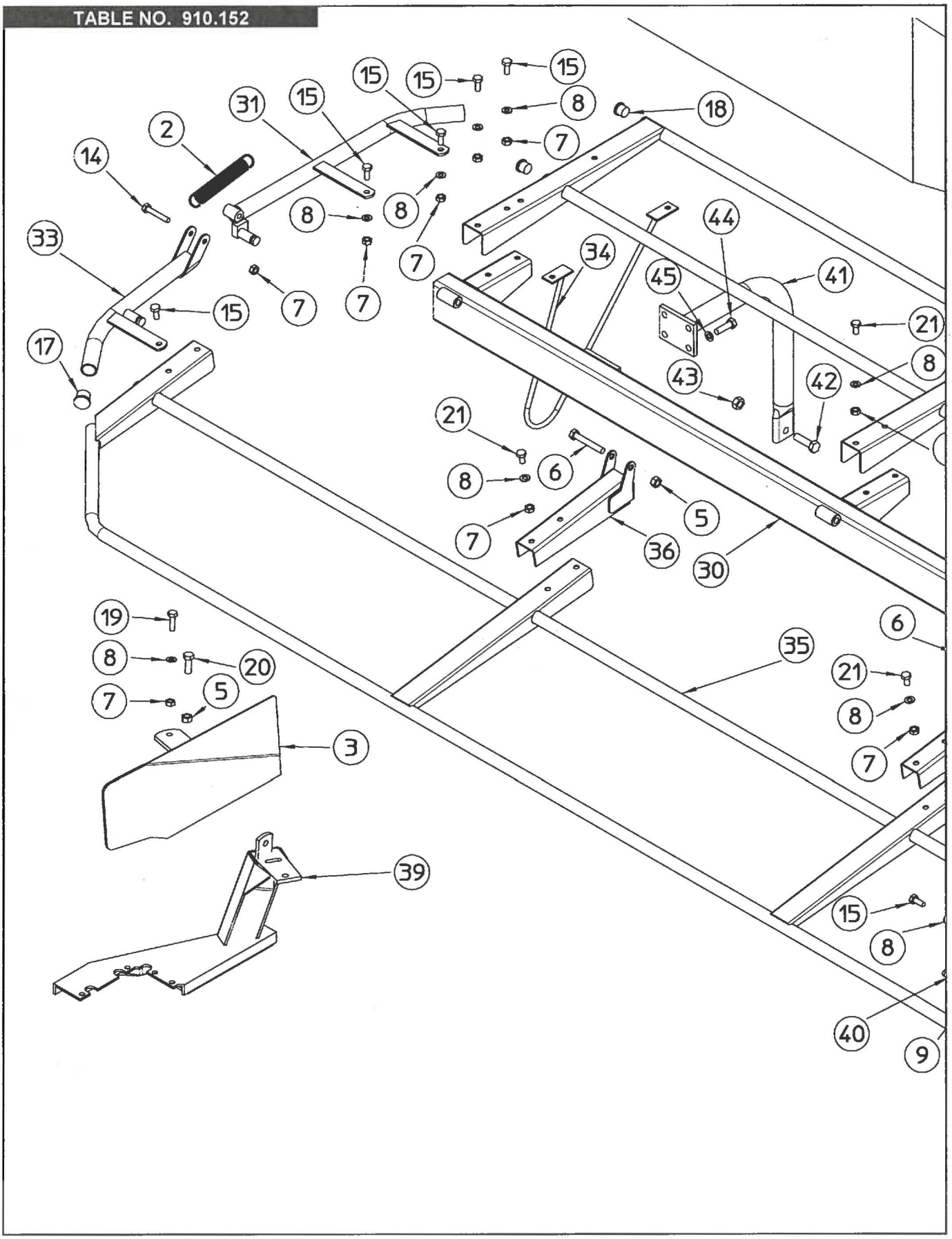
TABLE NO. 910.152



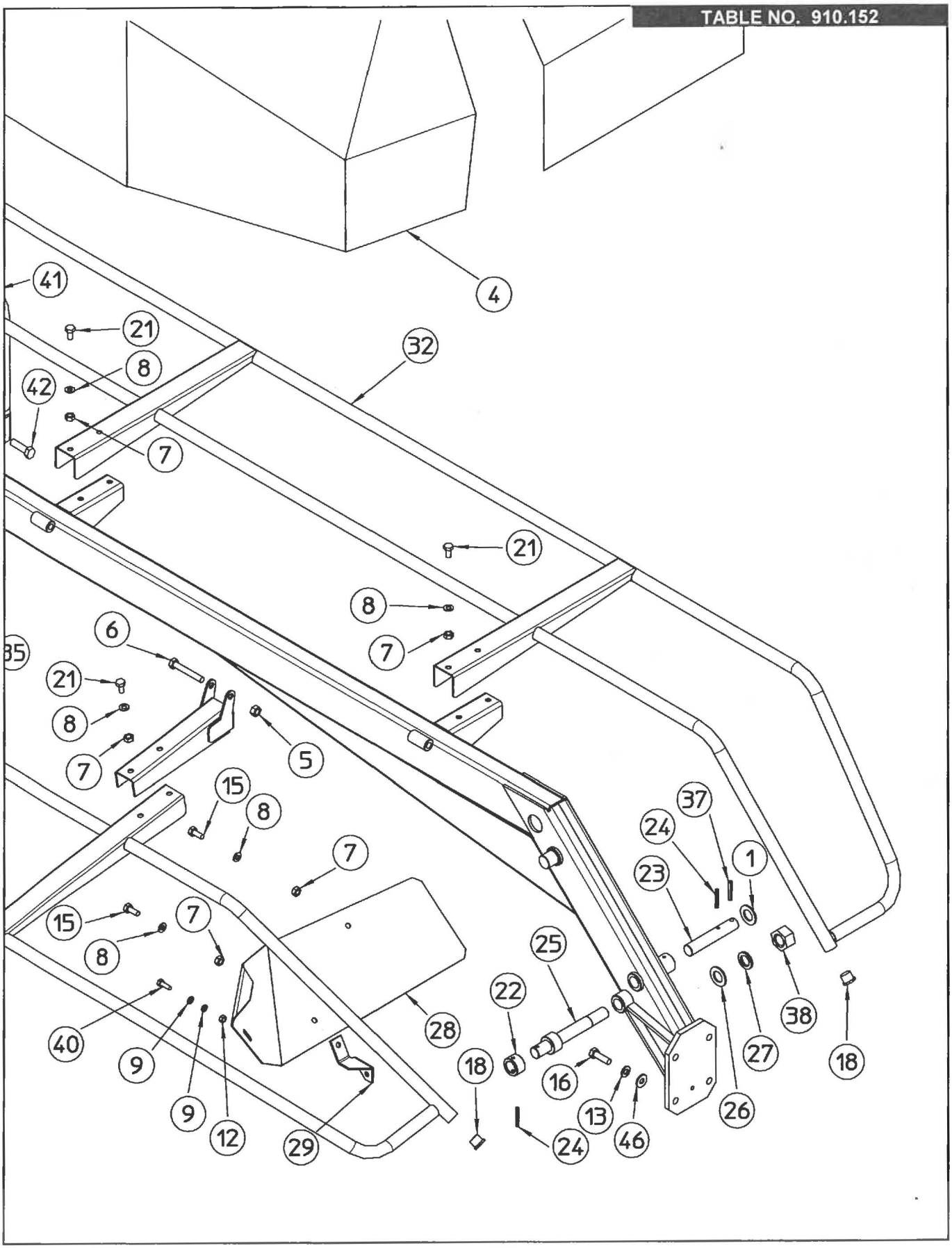


TABLE NO. 910.152
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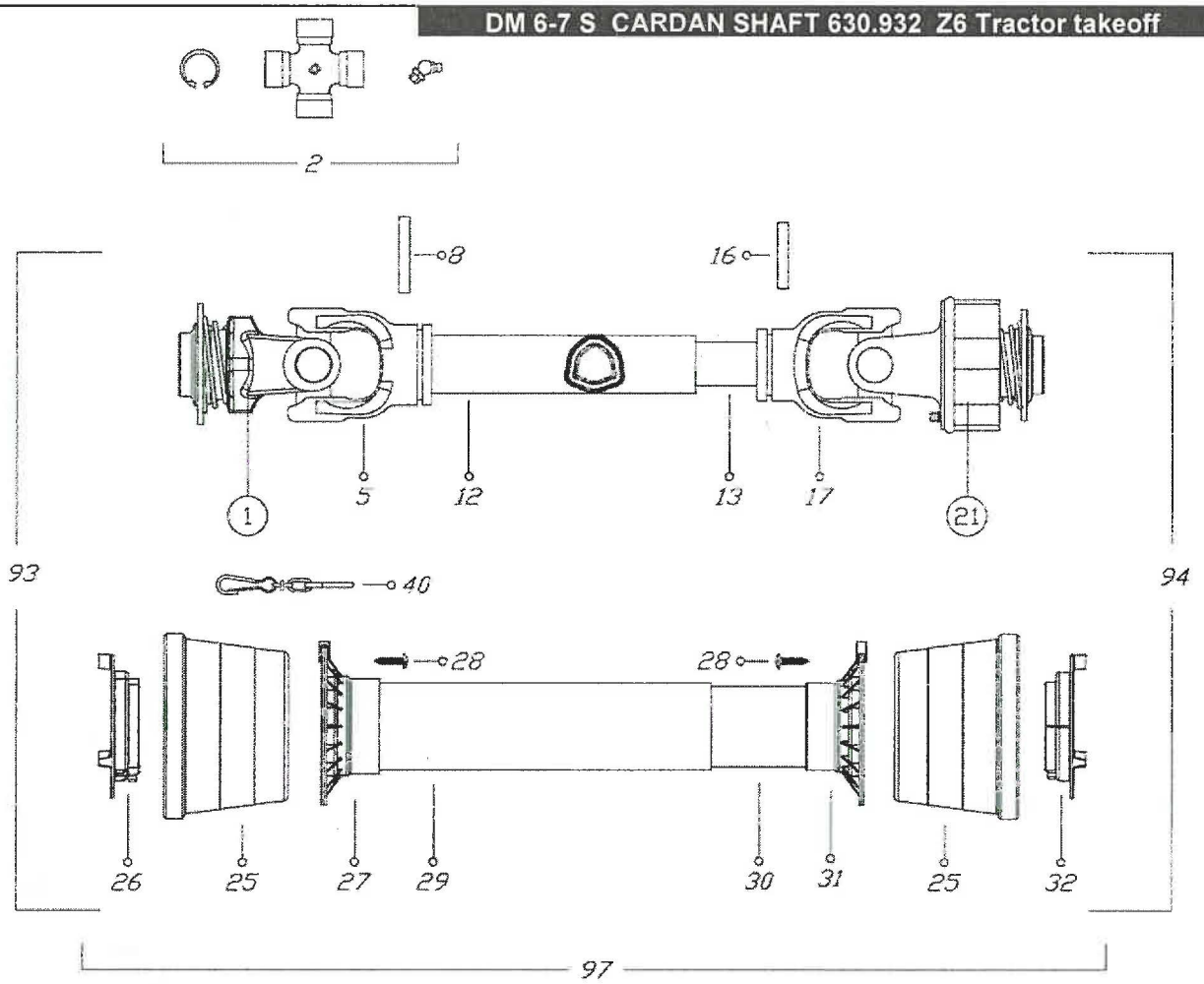
| TABLE NO. 910.152 | | | |
|---|---|---|---|
| Item Pos. | Part No. Code | DESCRIPTION | NOTE |
| 1 | 110.493 | WASHER | |
| 2 | 200.279 | SPRING | |
| 3 | 110.465 | HAY DEFLECTOR | |
| 4 | 110.442 | COVER CANVAS | DM6 |
| | 110.441 | COVER CANVAS | DM7 |
| | 110.012 | COVER CANVAS | DM8 |
| 5 | 600.077 | NUT | |
| 6 | 600.826 | SCREW | |
| 7 | 600.029 | NUT | |
| 8 | 600.322 | WASHER | |
| 9 | 610.185 | WASHER | |
| 12 | 600.076 | NUT | |
| 13 | 600.018 | SPRING WASHER | DM6 |
| | 600.086 | SPRING WASHER | DM7 - DM8 |
| 14 | 610.500 | SCREW | |
| 15 | 600.006 | SCREW | |
| 16 | 630.839 | SCREW | DM6 |
| | 620.322 | SCREW | DM7 - DM8 |
| 17 | 200.309 | PLUG | |
| 18 | 600.854 | PLUG | |
| 19 | 600.641 | SCREW | |
| 20 | 600.616 | SCREW | |
| 21 | 600.227 | GALVANIZED SCREW M10X20 | |
| 22 | 110.432 | BUSH | |
| 23 | 110.433 | PIN | |
| 24 | 600.539 | SPRING PIN | |
| 25 | 110.140 | PIN | |
| 26 | 600.336 | WASHER | |
| 27 | 600.246 | WASHER | |
| 28 | 110.491 | HAY DEFLECTOR | |
| 29 | 110.013 | PLATE DEFLECTOR SUPPORT | |
| 30 | 110.431 | FRAME | DM6 |
| | 110.430 | FRAME | DM7 |
| | 110.497 | FRAME | DM8 |
| 31 | 100.991 | PROTECTION | |
| 32 | 110.438 | PROTECTION | DM6 |
| | 110.437 | PROTECTION | DM7 |
| | 100.989 | PROTECTION | DM8 |
| 33 | 100.990 | PROTECTION | |
| 34 | 110.440 | EXTERNAL PROTECTION | |
| 35 | 110.435 | PIVOTING PROTECTION | DM6 |
| | 110.434 | PIVOTING PROTECTION | DM7 |
| | 100.988 | PIVOTING PROTECTION | DM8 |
| 36 | 100.987 | PROTECTION PIVOTING | |
| 37 | 600.027 | SPRING PIN | |
| 38 | 620.319 | NUT | |
| 39 | 110.127 | EXTERNAL SUPPORT | |
| 40 | 600.702 | SCREW | |
| 41 | 100.985 | SUPPORT | |
| 42 | 620.783 | SCREW | |
| 43 | 600.009 | NUT | |
| 44 | 600.441 | SCREW | |
| 45 | 600.018 | WASHER | |
| 46 | 600.089 | WASHER | DM6 |
| | 600.188 | WASHER | DM7 - DM8 |
| | | | |

## DM 6-7 S CARDAN SHAFT 630.932 Z6 Tractor takeoff

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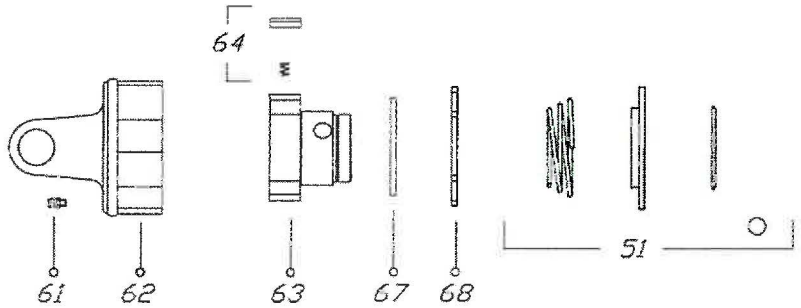
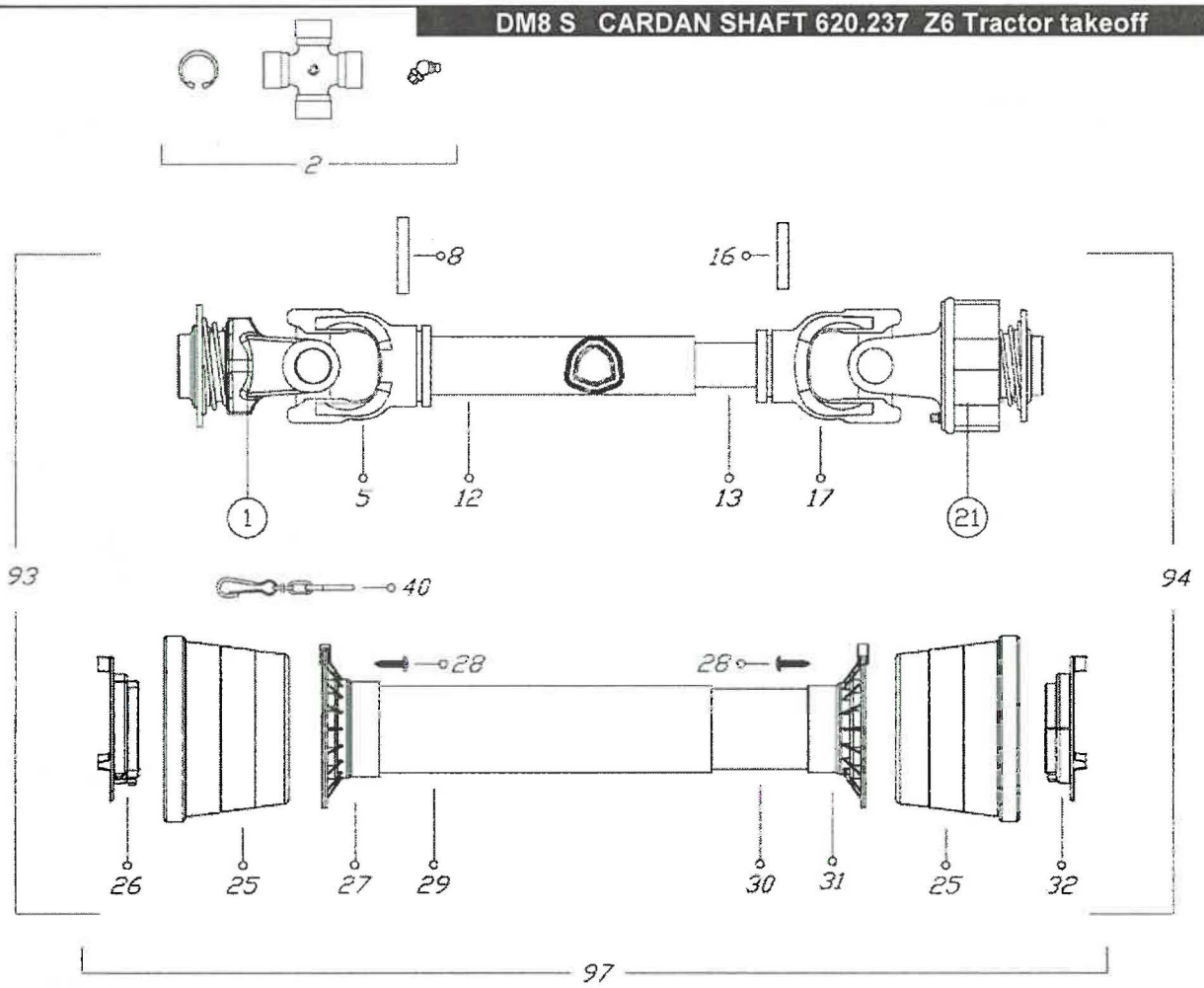


| CARDAN SHAFT DM 6-7 S PART NO 630.932 Z6 Tractor takeoff | | | |
|---|---|---|---|
| Item Pos. | Part No. Code | DESCRIPTION | NOTE |
| 01 | 630.382 | YOKE | Z6 Tractor takeoff |
| 02 | 610.368 | CROSS JOURNAL ASS. | |
| 05 | 610.370 | OUTER TUBE YOKE | |
| 06 | 001.411 | LABEL "DANGER ROTATING ....." | |
| 07 | 001.316 | LABEL "DANGER SHIELD..." | |
| 08 | 630.383 | FLEXIBLE PIN | |
| 12 | 610.372 | CM. 100 CARDAN TUBE(*) | |
| 13 | 610.373 | CM. 100 CARDAN TUBE(*) | |
| 16 | 630.384 | FLEXIBLE PIN | |
| 17 | 610.375 | INNER TUBE YOKE | |
| 21 | 630.385 | FREE WHEEL | |
| 25 | 630.386 | CONE SHIELD BELL 05-06 | |
| 26 | 630.387 | OUTER BEARING 05 | |
| 27 | 630.388 | OUTER BASE CONE 05-06 | |
| 28 | 630.389 | SCREW | |
| 29 | 630.972 | OUTER SAFETY TUBE | |
| 30 | 630.973 | INNER SAFETY TUBE | |
| 31 | 630.392 | INNER BASE CONE 05-06 | |
| 32 | 630.393 | INNER BEARING 05 | |
| 40 | 610.068 | CHAIN | |
| 51 | 620.830 | BALL COLLAR KITT | |
| 52 | 630.394 | BALL COLLAR KITT | |
| 61 | 610.206 | GRAESE NIPPLE | |
| 62 | 630.395 | OUTER CASING WITH YOKE | |
| 63 | 630.396 | HUIB 1 3/8"z6 | |
| 64 | 620.873 | RATCET TOOTH | |
| 67 | 620.874 | RETAINING RING | |
| 68 | 610.253 | CIRCLIP | |
| 93 | 630.974 | OUTER HALF SHAFT | Z6 Tractor takeoff |
| 94 | 630.975 | INNER HALF SHAFT | |
| 97 | 630.976 | SAFETY GUARD | |

## DM8 S CARDAN SHAFT 620.237 Z6 Tractor takeoff

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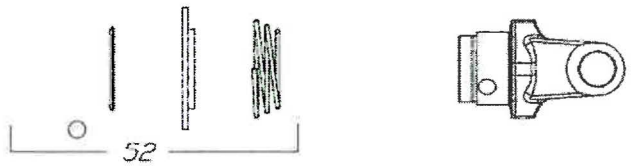
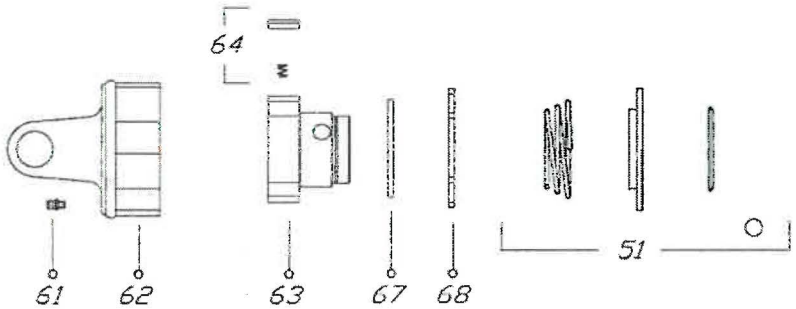



(21)



| CARDAN SHAFT DM 8 S PART NO. 620.237 Z6 | | | |
|---|---|---|---|
| Item Pos. | Part No. Code | DESCRIPTION | NOTE |
| 01 | 620.079 | YOKE | |
| 02 | 620.080 | CROSS JOURNAL ASS. | |
| 05 | 620.081 | OUTER TUBE YOKE | |
| 08 | 630.383 | FLEXIBLE PIN | |
| 12 | 620.083 | CARDAN TUBE | |
| 13 | 610.373 | CARDAN TUBE | |
| 16 | 630.384 | FLEXIBLE PIN | |
| 17 | 620.085 | INNER TUBE YOKE | |
| 21 | 630.851 | FREE WHEEL | |
| 25 | 630.386 | CONE SHIELD BELL 05-06 | |
| 26 | 630.852 | OUTER BEARING | |
| 27 | 630.388 | OUTER BASE CONE 05-06 | |
| 28 | 630.389 | SCREW | |
| 29 | 630.878 | OUTER SAFETY TUBE | |
| 30 | 630.879 | INNER SAFETY TUBE | |
| 31 | 630.392 | INNER BASE CONE 05-06 | |
| 32 | 630.880 | INNER BEARING | |
| 40 | 610.068 | CHAIN | |
| 48 | 630.719 | LABEL DANGER OUTER DRIVE TUBE | |
| 49 | 630.720 | EXTERNAL SHIELD LABEL | |
| 51 | 610.057 | COMPLETE PUSH BUTTTON | |
| 52 | 630.394 | BALL COLLAR KITT | |
| 71 | 610.216 | GRAESE NIPPLE | |
| 72 | 620.270 | OUTER CASING WITH YOKE | |
| 63 | 630.396 | HUIB 1 3/8"z6 | |
| 64 | 620.873 | RATCET TOOTH | |
| 67 | 620.874 | RETAINING RING | |
| 68 | 610.253 | CIRCLIP | |
| 93 | 620.094 | OUTER HALF SHAFT | |
| 94 | 630.882 | INNER HALF SHAFT | |
| 97 | 630.883 | SAFETY GUARD | |

# SECTION 2 GENERAL INFORMATION

## 2.1 WARRANTY

The manufacturer warrants new machinery to be free from defects in material and workmanship at the time of delivery to the original purchaser if correctly set up and operated according to this Operator's Handbook.

The manufacturer undertakes to repair or replace free of charge any defective part which should be returned by the purchaser (freight prepaid) and found to be defective on inspection authorized by the manufacturer during the warranty period.

This warranty shall be valid for 12 (twelve) months from the delivery of the goods to the original purchaser.

If the customer is unable to return the defective part to the manufacturer, the manufacturer cannot be held responsible for any cost due for repair or replacement of any part of the machine. He shall only supply the part(s) required for such repair and/or replacement.

The warranty shall be considered null and void when it is evident that the machine has been improperly used or at least repaired without authorization.

The manufacturer shall not be held responsible for any obligation or agreement reached by any manufacturer employers, agents or dealers who do not comply with the above warranty. The manufacturer cannot be held responsible for the subsequent damages. This warranty replaces any other warranty, either explicit or implied, as well as any other obligation of the manufacturer.

**NOTE:**

ALL WARRANTY WORK OR REPAIRS MUST BE APPROVED BY THE MANUFACTURER BEFORE WORK BEGIN.

ANY WORK OR REPAIRS MADE BEFORE APPROVAL MAY NOT BE COVERED UNDER WARRANTY.

PLEASE NOTIFY YOUR SALES & SERVICE DEPARTMENT OF THIS POLICY.

# SECTION 3 GUIDE TO THE SIGNS AND SYMBOLS USED IN THIS MANUAL AND THEIR LOCATION ON THE MACHINE

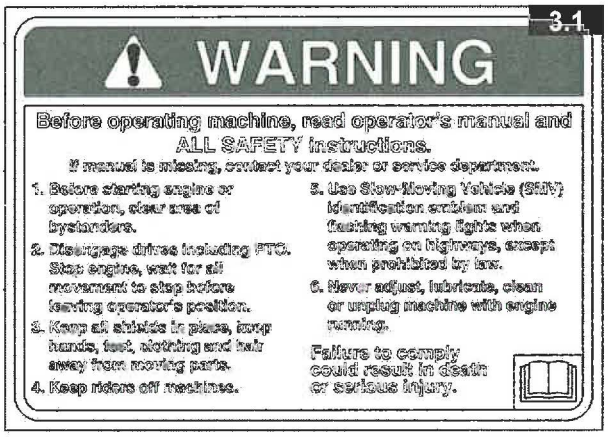
## 3.1 SIGNS AND SYMBOLS

These signs and symbols give information to the operator on how to make the best use of the machine so as to prolong life, avoid damage, optimise work and, above all, to avoid injury to the operator and anyone within range of the machine

## 3.2 WARNING AND DANGER SIGNS

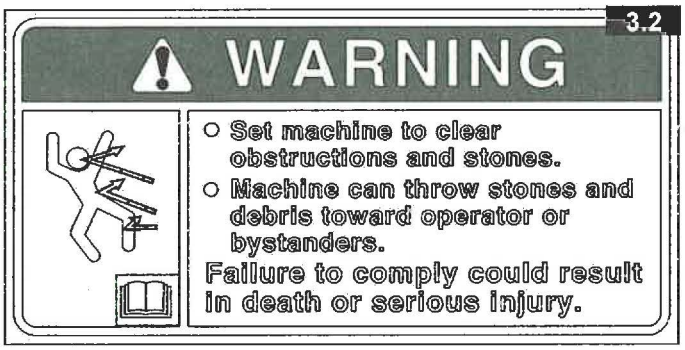
### 3.2.1 FIG. 3.1

Read operator's manual and ALL safety instruction



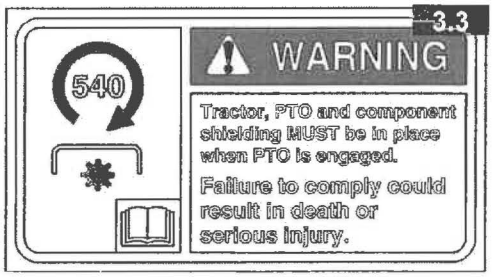

### 3.2.2 FIG. 3.2

Risk of possible ejection of blunt objects. Keep a safe distance from the machine.



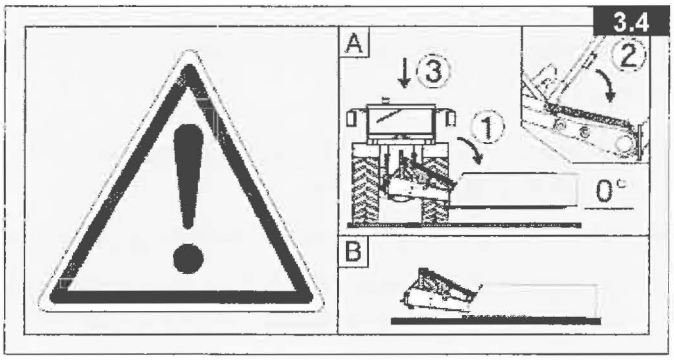
### 3.2.3 FIG. 3.3

Component shielding MUST be in place when PTO is engaged.




### 3.2.4 FIG. 3.4

See HOW TO DISCONNECT THE MACHINE in this manual.




## 3.3 INDICATION SIGNS

### 3.3.1 FIG. 3.5

Indicates a greasing point.


### 3.3.2 FIG. 3.6

This indicates the oil level.


### 3.3.3 FIG. 3.7

Shows the direction of rotation of the power takeoff and the maximum number of revolutions.

# SECTION 4 GENERAL SUMMARY OF SAFETY AND ACCIDENT - PREVENTION INSTRUCTIONS

## 4.1 GENERAL SUMMARY OF SAFETY AND ACCIDENT-PREVENTION INSTRUCTIONS

Read all the directions carefully before using the machine. When in doubt, seek advice from the manufacturers.
The manufacturing company declines all responsibility for non-compliance with the following safety and accident-prevention instructions.

**1-** Pay attention to the danger signs and symbols in this manual and on the machine.

**2-** Do not touch moving parts.

**3-** All work on the machine (including adjustments) must always be carried out with the tractor immobilized and the engine switched off.

**4-** On no account may persons or animals be carried on the machine.

**5-** Driving the tractor with the machine connected is absolutely forbidden to persons lacking suitable experience, or who are in poor health, or who do not have a suitable driving license.

**6-** All accident-prevention measures recommended in this manual should be scrupulously observed.

**7-** Connecting the machine to the tractor creates a different weight distribution on the axles and so it is essential to ensure that the tractor-machine combination is stable in all anticipated working conditions. It is therefore necessary to have exact instructions from the tractor manufacturers. If such instructions are not available, suitable tests should be conducted in safe conditions in order to assess stability.

**8-** Once the machine is connected, it can only be controlled through a Cardan shaft complete with the required overload protection and guard secured with the appropriate small chains. Be aware of the rotational direction of the Cardan shaft.

**9-** Before operating the tractor and machine, check that all transport and operational safety devices are complete and working.

**10-**When driving on public roads, you should comply with the Highway Code regulations for the country concerned.

**11-**Do not exceed the tractor axle maximum weight and the total mobile weight. Heed transport regulations.

**12-**Before starting work, familiarize yourself with the control devices and how they work.

**13-**Wear suitable clothes. Do not wear clothing which is loose or which could become entangled in rotating or moving parts.

**14-**Connect the machine to a suitably powerful tractor by using an appropriate lifting unit and in accordance with instructions.

**15-**Take maximum care when connecting and disconnecting the machine to and from the tractor.

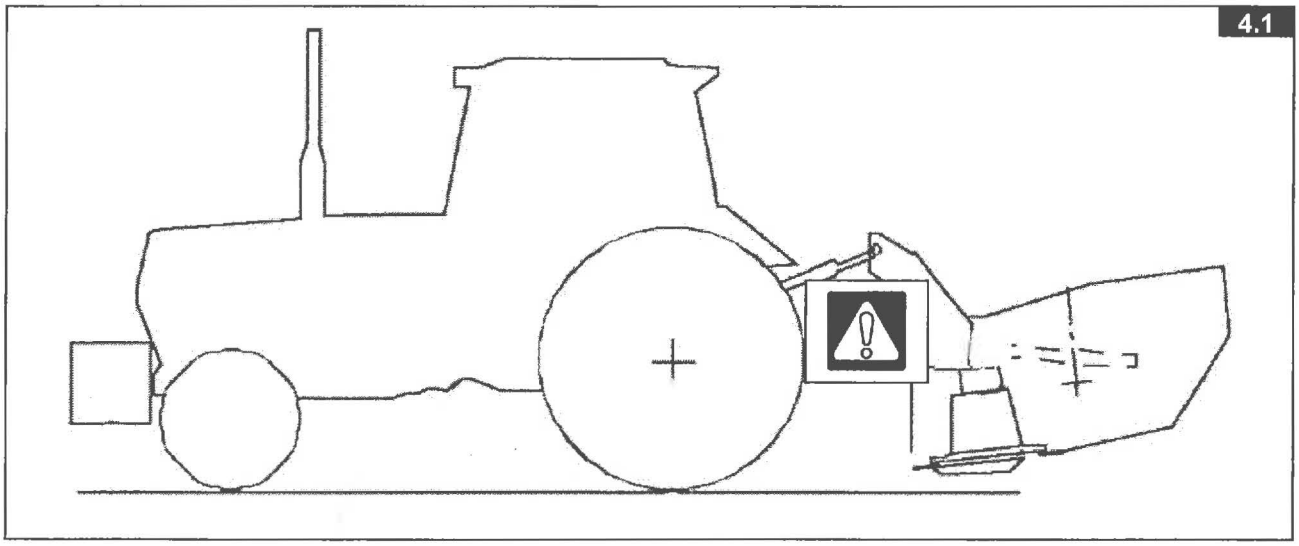
**16-**The machine and any road transport attachments must bear the appropriate signs and symbols and have suitable protection.

**17-**Never leave the driving seat when the tractor is running.

**18-**It is extremely important to appreciate that road holding, steering and braking may be significantly affected with the machine attached.

**19-**When turning corners with the machine attached, be aware of the fact that the centrifugal force will alter due to the change in the centre of gravity.

**20**-Before engaging the power takeoff check the preset revolution speed. Do not change speed from 540 rpm to 1000 rpm.


4.1

**21**-Under no circumstances should anybody stand near the machine or any moving parts. It is the duty of the operator to ensure that this requirement is respected.

**22**-Under no circumstances should anybody go between the tractor and the machine (fig. 4.1) when the engine is running and the Cardan shaft is engaged, especially without first having applied the parking brake and placed chocks against the wheels.

**23**-Before connecting or disconnecting the machine to or from the 3-point linkage, put the lifting unit lever into the locked position.

**24**-The connection pins on the machine must match the connection sockets on the lifting unit.

**25**-During transport, secure the lateral lifting arms with the appropriate chains and tighteners.

**26**-When the machine is raised during road transport, put the tractor's hydraulic lifter lever into the locked position.

**27**-Only use the Cardan shaft provided by the manufacturer and, in case of replacement, substitute it with one having the same characteristics.

**28**-Regularly check all protection on the Cardan shaft. This should always be in excellent condition and securely fixed.

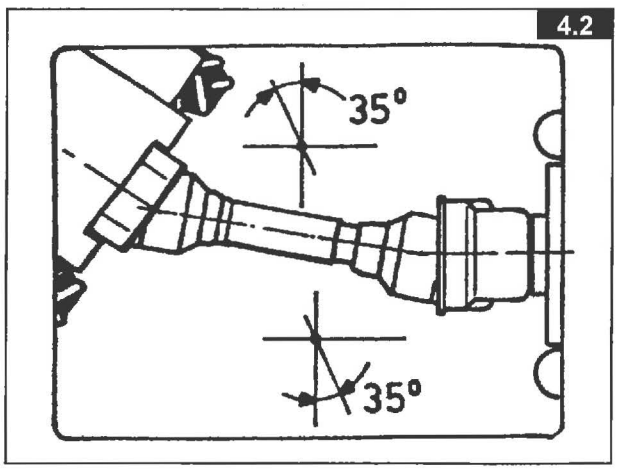
**29**-It is important to ensure that the protection on the Cardan shaft is complete.

**30**-Connection and disconnection of the Cardan shaft must be carried out with the engine switched off.

**31**-Pay particular attention to the correct connection and safety of the Cardan shaft and the power takeoffs on the machine and the tractor.

**32**-Prevent the cardan shaft protection from rotating using the chains supplied.

**33**-Before engaging the power takeoff, make sure that there are no people or animals in the vicinity and that the selected engine speed corresponds to that permitted. Never go above the maximum permitted.



4.2

**34-**Do not engage the power takeoff when the engine is not running.

**35-**Always disengage the power takeoff when the cardan shaft is at too wide an angle (it should never be more than 35° as shown in fig. 4.2) and when it is not in use.

**36-**Only clean and grease the Cardan shaft when the power takeoff is disengaged, the engine is off, the parking brake is applied and the ignition key is removed.

**37-**On disconnecting the Cardan shaft, replace the protective hood on the power takeoff shaft.

**38-**Prolonged use of the machine can cause the drive boxes to become hot. To avoid any risk of getting burnt, avoid touching these areas both during use and some time afterwards.

**39-**Periodically check screws and nuts for tightness and grip. Tighten if necessary.

**40-**When carrying out maintenance work or replacing the blades, raise the machine and rest on adequate supports.

**41-**Use the quantities of grease and oil advised.

**42-**Spare parts must meet the requirements as defined by the manufacturer. Use only original spare parts.

**43-**Safety decals must always be clearly visible. They must be kept clean and replaced if they become too illegible (they can be ordered from the agent if necessary).

**44-**The instruction booklet must be available for the lifetime of the machine.

# SECTION 5 PRODUCT IDENTIFICATION

## 5.1 TRACTOR REQUIREMENTS

| | | |
|---|---|---|
| Power takeoff speed (PTO) | **revs/min** | 540 |
| Max hydraulic pressure | **bar** | 160 |
| Minimum power required | (see 5.2) | |
| Simple distributor | **n°** | 1 |

## 5.2 MACHINE TECHNICAL DATA

| **Type of machine** | | **DM/6 S** | **DM/7 S** | **DM/8 S** |
|---|---|---|---|---|
| Number of disks | **n°** | 6 | 7 | 8 |
| Number of knives per disk | **n°** | 2 | 2 | 2 |
| Working width | **m (inch)** | 2.45 (96) | 2.85 (112) | 3.23 (127) |
| Gear ratio (PTO-disks) | | 2,73 | 2,73 | 2,73 |
| Peripheral knife speed (PTO 540 revs/min) | **m/s (ft/s)** | 81 (266) | 81 (266) | 81 (266) |
| Minimum power required | **kW (HP)** | 34 (46) | 39 (52) | 41 (56) |
| Weight | **kg (Lb)** | 560 (1235) | 590 (1300) | 635 (1400) |

## 5.3 MACHINE IDENTIFICATION DATA

The machine is identified by means of the following technical data:

- Type of machine
- Registration number
- Year of manufacture
- Weight

stamped on the rating plate fastened to the frame of the machine. This data should be mentioned when requesting any replacements or information.

# SECTION 6 ASSEMBLY

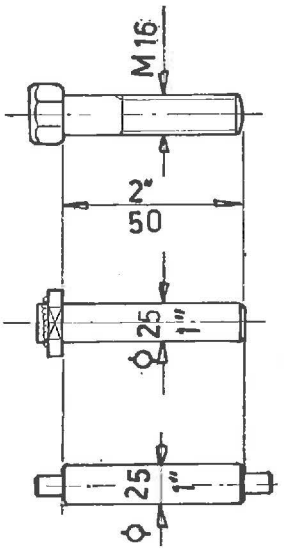
## 6.1 TECHNICAL NOTES

We will provide a few examples to make it easier to choose which of the various accessories to use for each step of assembly. An approximate equivalent of the metric measurements is given in inches.

### 6.1.1 PINS AND SCREWS (fig. 6.1)

Example: a pin with a 25 mm (1") diameter and a screw with an M 16 (5/8") diameter, both 50 mm (2") long, will be listed as:
D 25 x 50 (D 1" x 2") and M 16 x 50 (D 5/8" x 2").

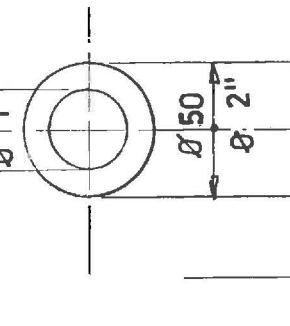
6.1




### 6.1.2 SHIMS, SPACERS, BUSHINGS AND WASHERS (fig. 6.2)

Example: a shim, spacer, bushing or washer with an inside diameter of 25 mm (1"), outside diameter of 50 mm (2") and thickness or length of 13 mm (1/2") will be listed as:
D 25 - 50 x 13 (D 1" - 2" x 1/2").

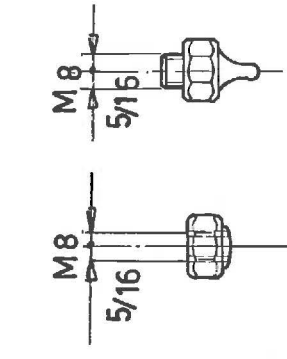
6.2




### 6.1.3 NUTS, GREASE NIPPLES (fig. 6.3)

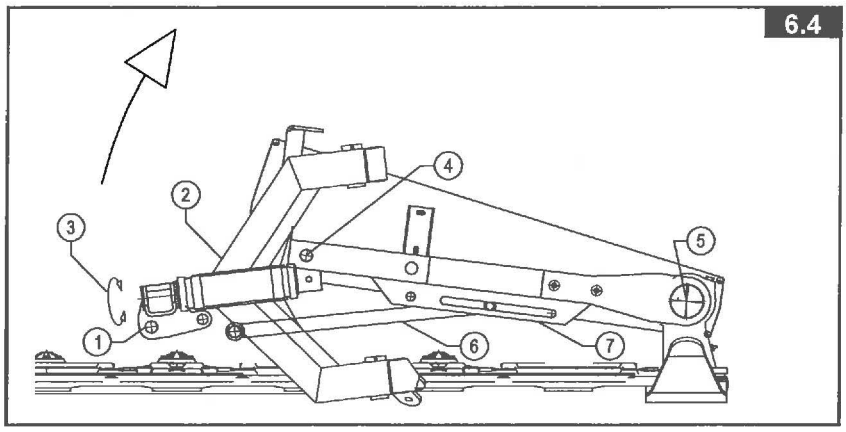
Example: a nut or grease nipple having a thread of M 8 (5/6") will be listed as:
M 8 (5/16")

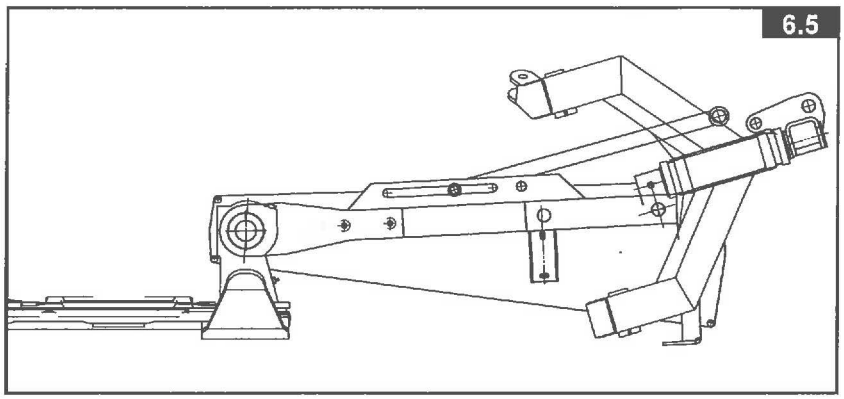
6.3



## 6.2 INSTRUCTIONS ON HOW TO ASSEMBLE

In fig. 6.4 is shown the packaging of the machine in crate.
To put the machine as in fig. 6.5, using a forklift truck, crane or other suitable equipment of sufficient capacity attach, the machine in holes 1 and lift the machine pivoting in pin 5 until position in fig. 6.5 is reached.




DANGER !!!

**Be careful: the frame 2 is very unstable. Frame 2 is pivoting in axle 3 and in pin 4.**

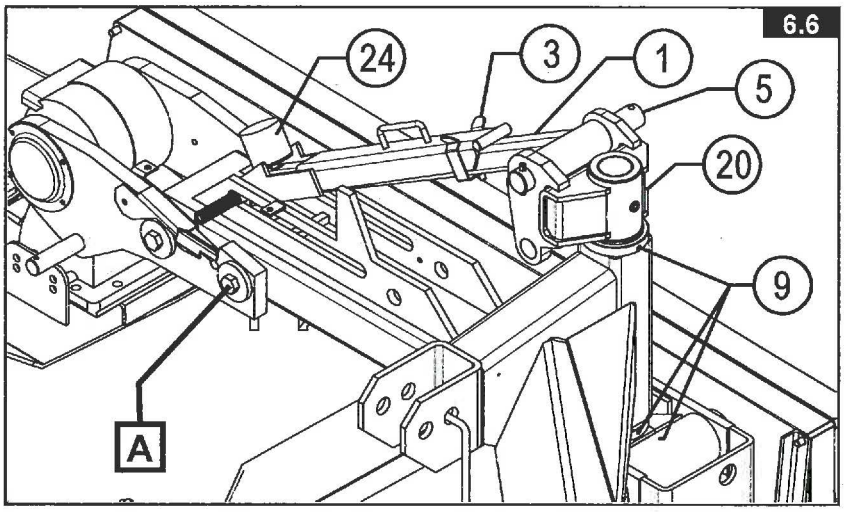
**Pay attention to tie rod 6 sliding on long hole 7.**

### 6.2.1 see pict. 6.6

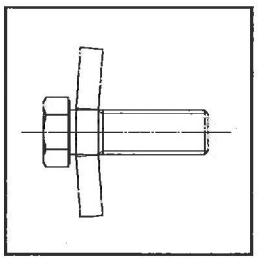
DANGER !!!

Refer to fig. 6.6 and carry out the following steps in the order indicated:

1) Use pin 5 (ø35 x 244 - ø 1"3/8 x 9"19/32) to mount tie rod 1 into the support 20 and fasten with two spring pin (ø 8 x 50 - ø 5/16 x 2").
2) Mount rubber 24 to tie rod 1.
3) Mount lock spring 3 on tie rod 1 with screw M8x55 (5/16x2"5/32), washer ø9 (ø11/32) and nut M8.
4) Mount four grease-nipple 9 M6.




ATTENTION!! The four screws A (M16x50 10.9) at both side of the machine, are mounted with 300 Nm torque and Loctite. The cup washers are mounted as in figure.

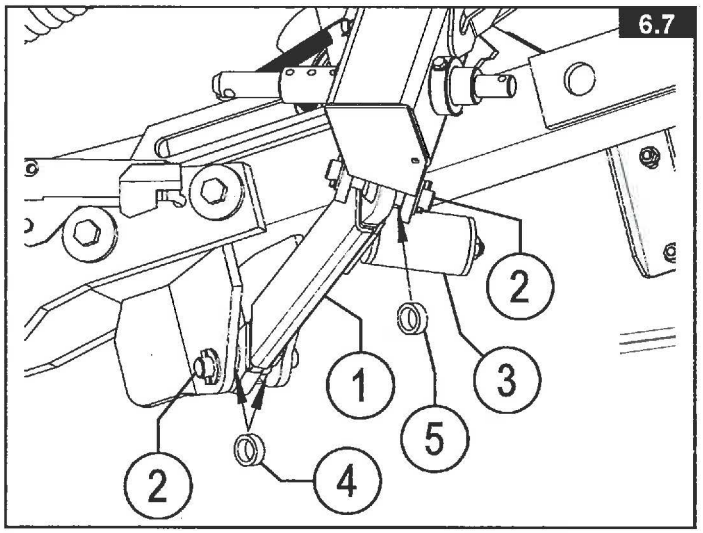


### 6.2.2 see pict. 6.7

DANGER !!!

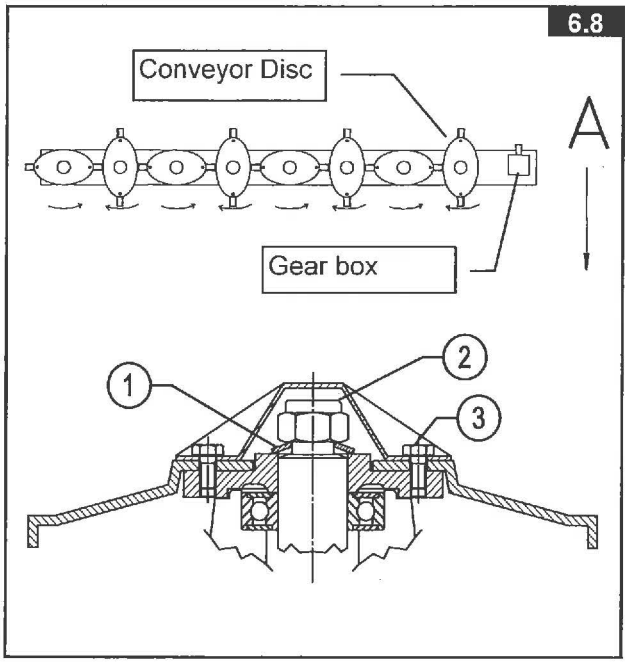
Refer to fig. 6.7 and carry out the following steps in the order indicated:

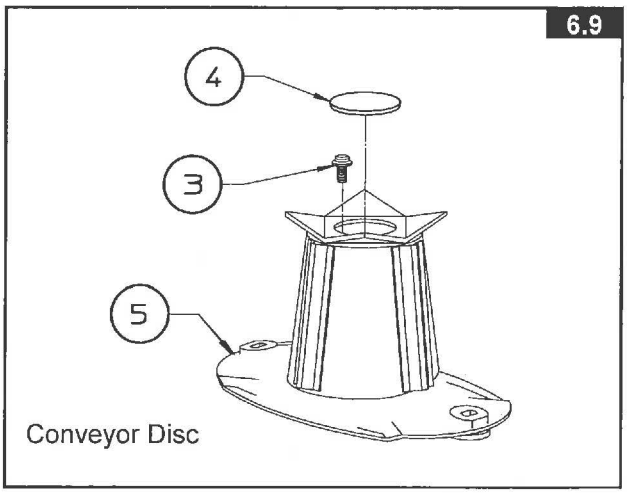
1) Mount safety bar 1 with rubber spring 3 on side as in figure, with two pins 2 (ø 22 x 117 - ø 55/64 x 4"19/32) and three spacer 4-5 (ø23xø30x10 – ø1"11/64x ø57/64 x 22/64) into the supports as in figure. and fasten with spring pin (ø 6 x 35 - ø 15/64 x 1"3/8) and washers (ø 23 - ø 57/64).The spacer 5 has to be mounted on one side as in figure.



### 6.2.3 see pict. 6.8
### Mount internal conveyor disc

The conveyor disk 5 (see fig. 6.9) are splined to a shaft and have to be positioned so that the main axle is at right angles with those next to it (see fig. 6.8).
Cupped washer 1 in figure must be mounted with its concavity facing downwards. The self-locking nut 2 must be tightened with a dynamometric spanner set at 320 Nm torque.
The screws 3 (n°6 M10 x 20 flanged) must be tightened with a dynamometric spanner set at 70-80 Nm torque. Then mount plug 4.



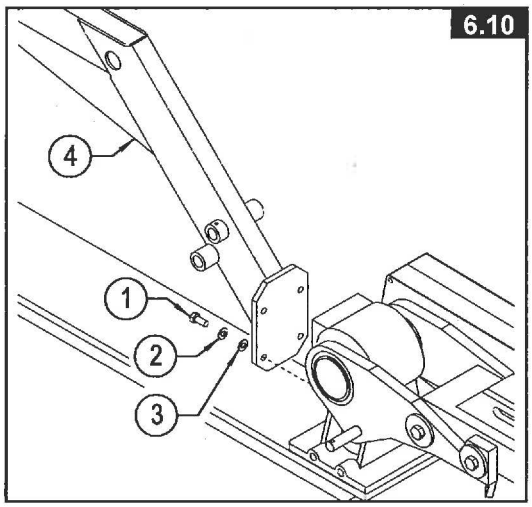



### 6.2.4 see pict. 6.10

DANGER !!!

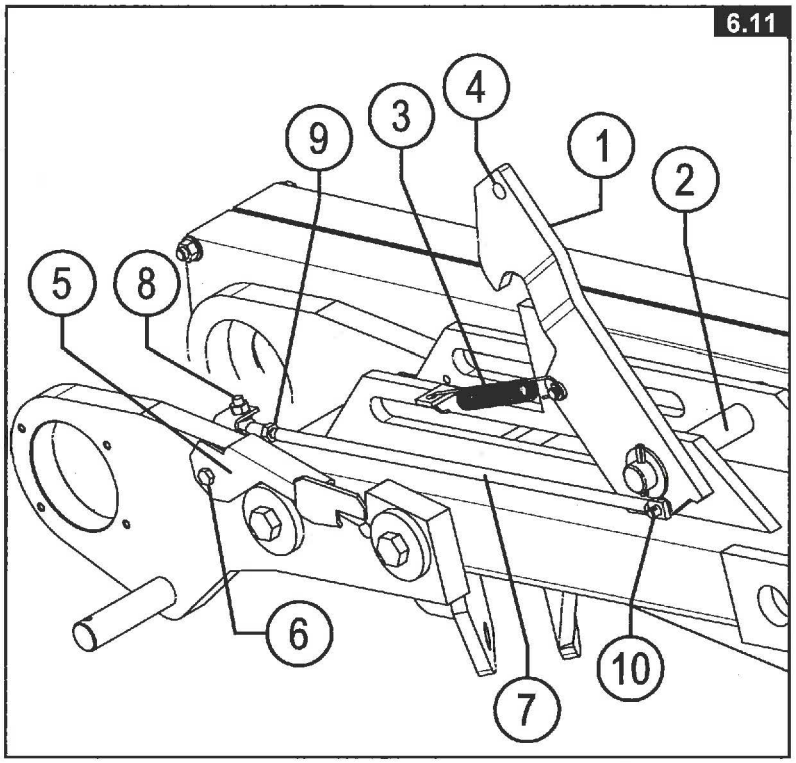
Refer to fig. 6.10 and carry out the following steps in the order indicated:

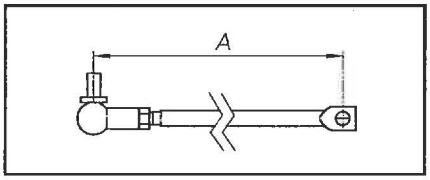
1) Mount protection canvas support 4 to the gearbox (align it vertically) with four screws 1, growers 2 and washer 3:
   screws M12 x 40 (15/32 x 1"9/16) for 6 discs model (100 Nm torque)
   screws M14 x 40 (35/64 x 1"9/16) for 7 discs model (110 Nm torque)
   using loctite or similar.



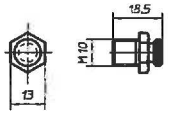

### 6.2.5 see pict. 6.11

1) Mount hook 1 as in figure with pin 2 and fasten with two spring pin (ø6x45 - ø15/64 x 1"49/64) and two washers (ø 26 - ø 1").
2) Mount spring 3 as in figure.
3) Mount the lever 5 as in figure with screw 6 (M8x45 – 5/16" x 1"49/64), and locknut without tighten fully.
4) Mount the threaded rod 7 and ball joint on point 9 with normal nut M8. The distance A should be ~504mm (19" 53/64)
5) Mount the ball joint on point 8 of lever 5 with selflocking-nut M8 as in figure.
6) Fasten rod 7 on point 10 with special hexagon pin and one split pin (ø3x30 – ø7/64x 1"11/64).
7) Mount rope in hole 4 with a node.

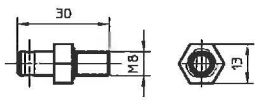



Pin for spring



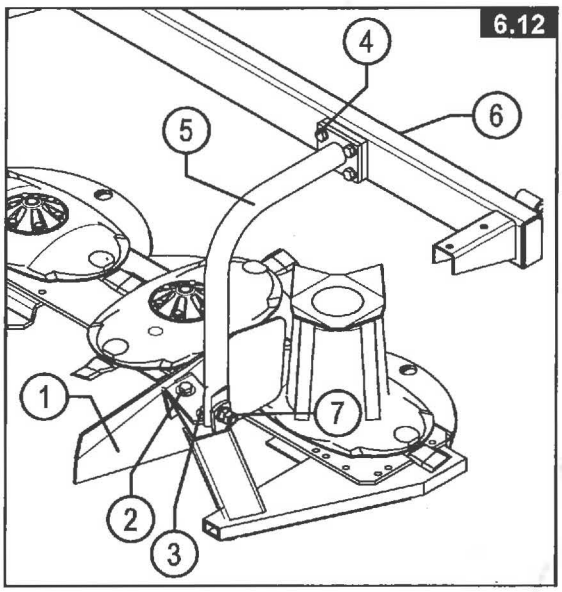

Pin for tie-rod



### 6.2.6 see pict. 6.12

Refer to fig. 6.12 and carry out the following steps in the order indicated:

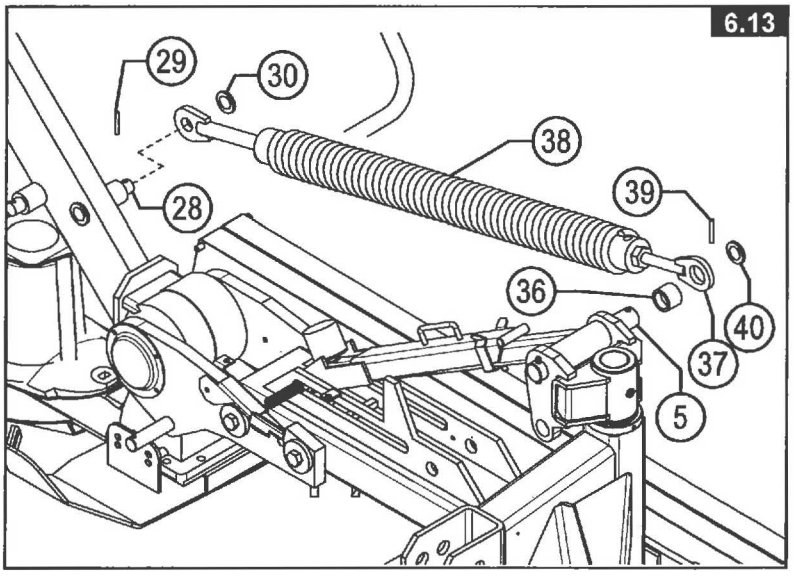
1) Mount hay plate 1 to the cutter bar with screws item 2 (M12x35 – 1/2" x 1"3/8) and 3 in picture (M10x35 – 3/8" x 1"3/8) and washers (ø 10 – 25/64).
2) Mount support 5 to the canvas support 6 with four screws item 4 in picture M12 x 25 (15/32 x 1") and growers (ø 13 – 1/2") with 80 Nm torque.
3) Mount support 5 in point 7 with screw M14 x 45 (35/64 x 49/64) and two nuts M14 counterlocked (180 Nm torque).




### 6.2.7 see pict. 6.13

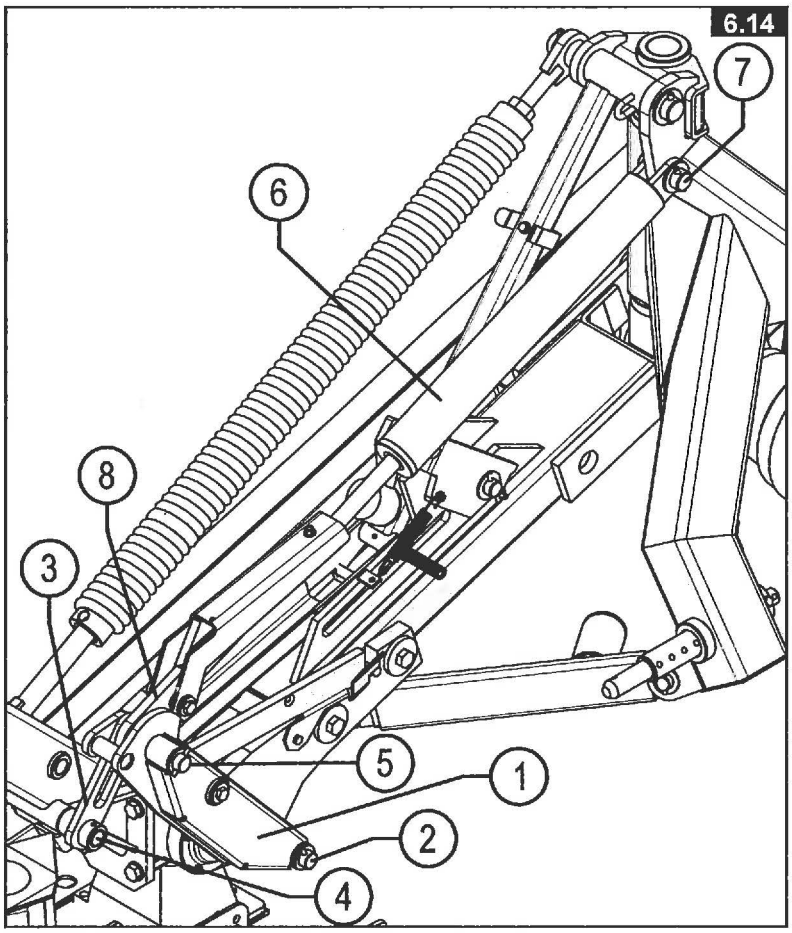
Refer to fig. 6.13 and carry out the following steps in the order indicated:

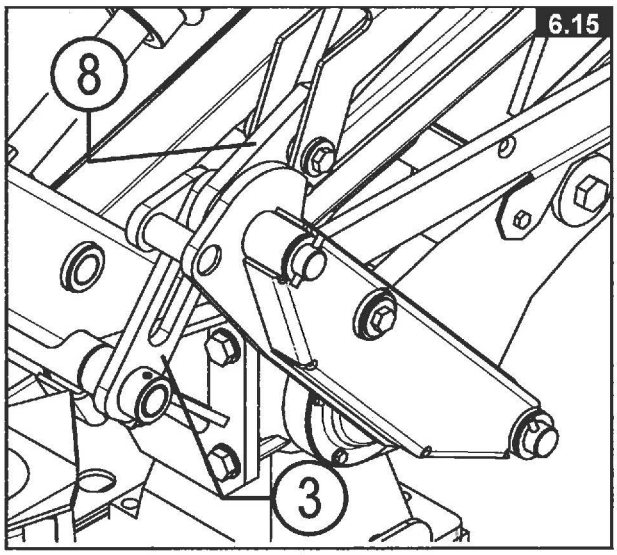
1) Mount spring 38 as in figure on pin 28 and fasten with one spring pin 39 (ø8x50 - ø5/16 x 2") and washer 30 (ø 25 - ø 1"). If necessary, unscrew tie-rod 37 until to fit pin 5. Remember to readjust spring tension (see 8.4).
2) Mount the threaded rod 37 of the spring 38 on pin 5 with spacer 36 (ø35–ø42x20 - ø1"3/8-ø1"41/64x 25/32) and washer 40 (ø35 - ø1"3/8) and fasten with one spring pin 39 (ø8x50 - ø5/16x 2").



### 6.2.8 see pict. 6.14

1) Mount lift lever 1 as in figure on pin 2 and fasten with one spring pin (ø6 x 45 - ø15/64 x 1"49/64) and washer (ø26 - ø1").
2) Mount lift lever 3 as in figure on pin 4 and fasten with one spring pin (ø6 x 45 - ø15/64 x 1"49/64) and bush with hole (ø25–ø40x21 - ø1"-ø1"9/16 x 13/16).
3) Mount lift cylinder 6 as in figure **(the hose attach must be on the down side of the cylinder)** with:
   pin 5 (ø30 x 85 – ø1"11/64 x 3"9/64) with two spring pin (ø8x50 - ø5/16 x 2") and two washers (ø 31 - ø 1"11/64);
   pin 7 (ø25 x 148 – ø1" x 5"13/16) with two spring pin (ø6 x 45 - ø 15/64 x 1"49/64) and two washers (ø26 - ø1"), position cylinder 8 and lever 3 as fig. 6.14



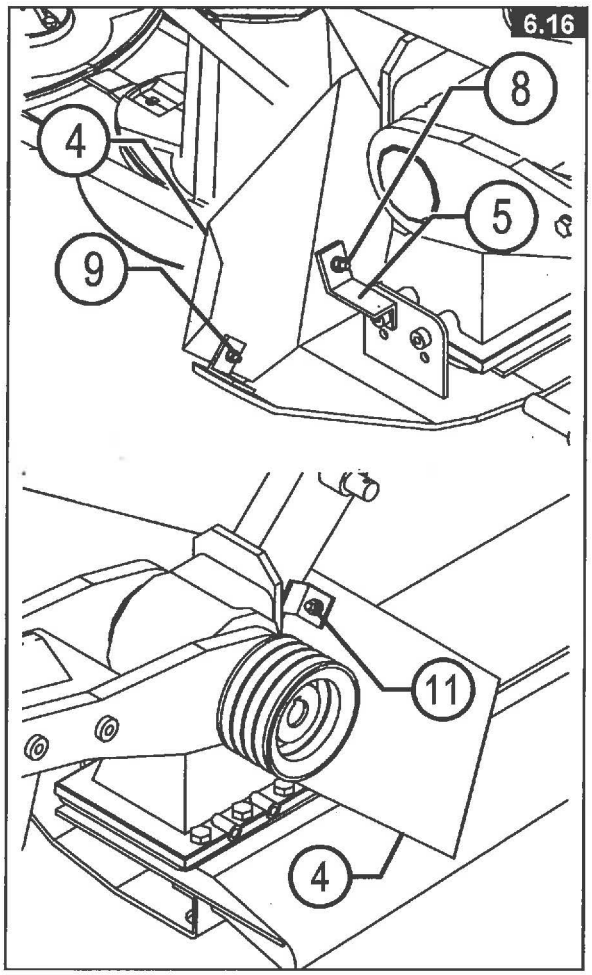



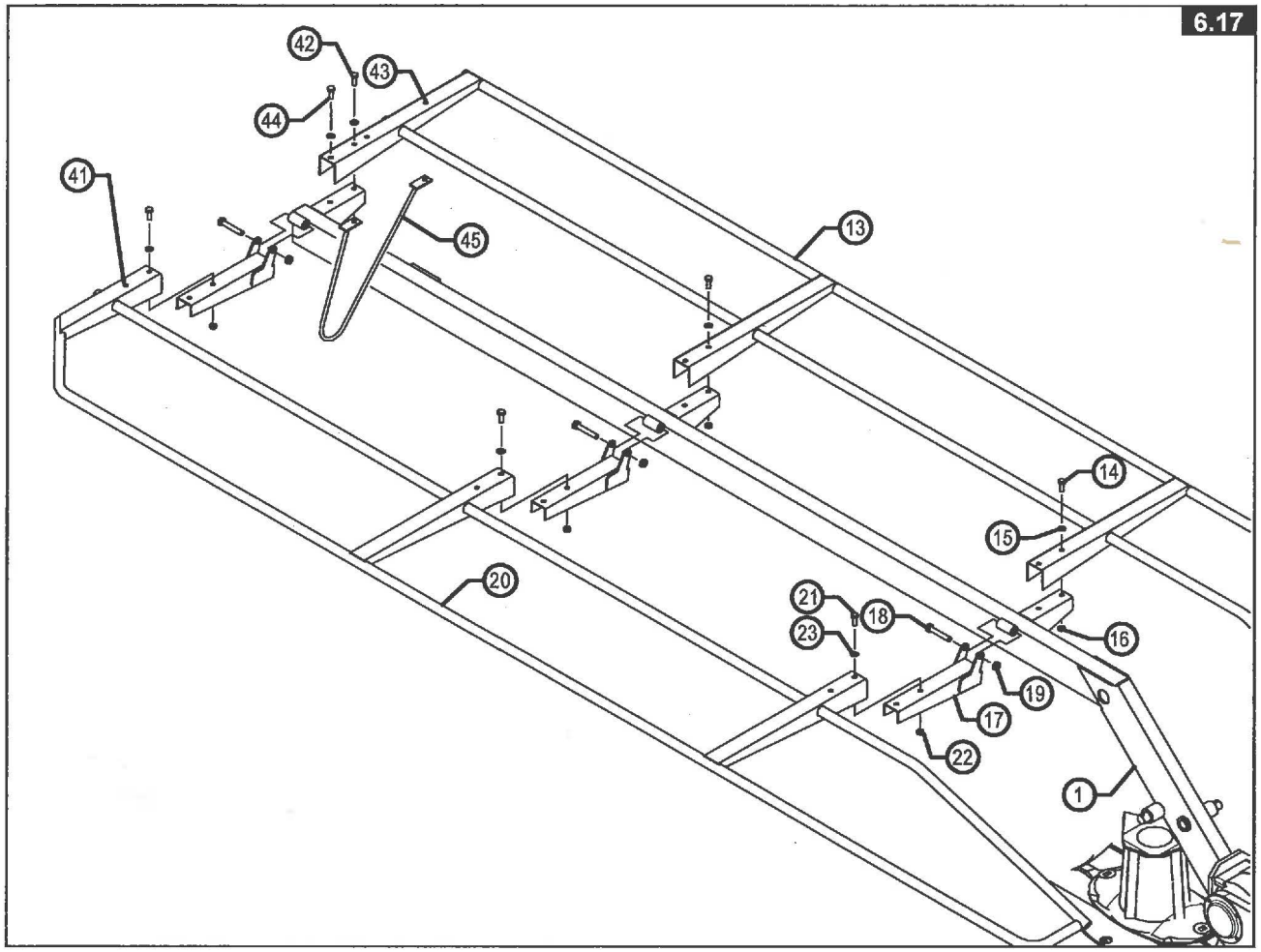
### 6.2.9 see pict. 6.16

Refer to fig. 6.16 and carry out the following steps in the order indicated:

Mount conveyor sheet 4 with:

1) point 9: screw (M 8 x 25 – 5/16" x 1"), two large washers and nut
2) point 8: screw (M 10 x 25 – ø 25/64" x 1"), washer and nut
3) point 11: on the rear view of the machine with screw (M 10 x 25 – ø 25/64" x 1"), washer and nut.






**6.2.10 see pict. 6.17**

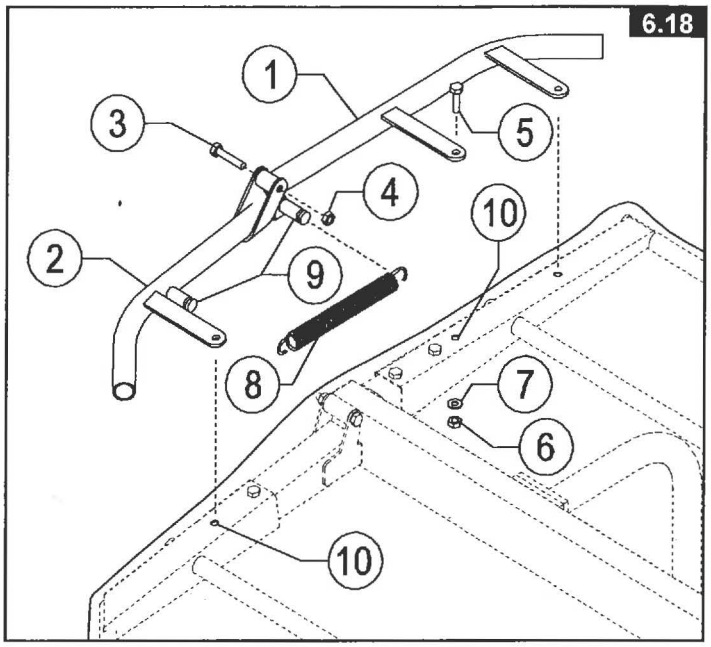
Refer to fig. 6.17 and carry out the following steps in the order indicated:

1) Mount rear protection 13 on support canvas 1 as shown with five screw 14 (M10 x 20 – 25/64 x 25/32) and nut 16 (M10 – 25/64) and washer 15; use screw 42 (M10 x 25 – 25/64 x 1") to mount vertical protection 45. **Do not use hole 43 at this time.**
2) Mount the three pivoting supports 17 on support canvas 1 as shown with three screws 18 (M12 x 75 – 15/32 x 2"15/16) and self-locking nuts 19 (M12 – 15/32)

**Do not fully tighten the screws 18 to let pivoting the front protection.**

3) Mount front protection 20 on pivoting supports 17 as shown with five screw 21 (M10 x 20 – 25/64 x 25/32) and nut 22 (M10 – 25/64) and washer 23. **Do not use hole 41 at this time**.
4) Mount plugs for pipe (ø 27 x 2.5 – ø 1" 1/16 x 3/32").

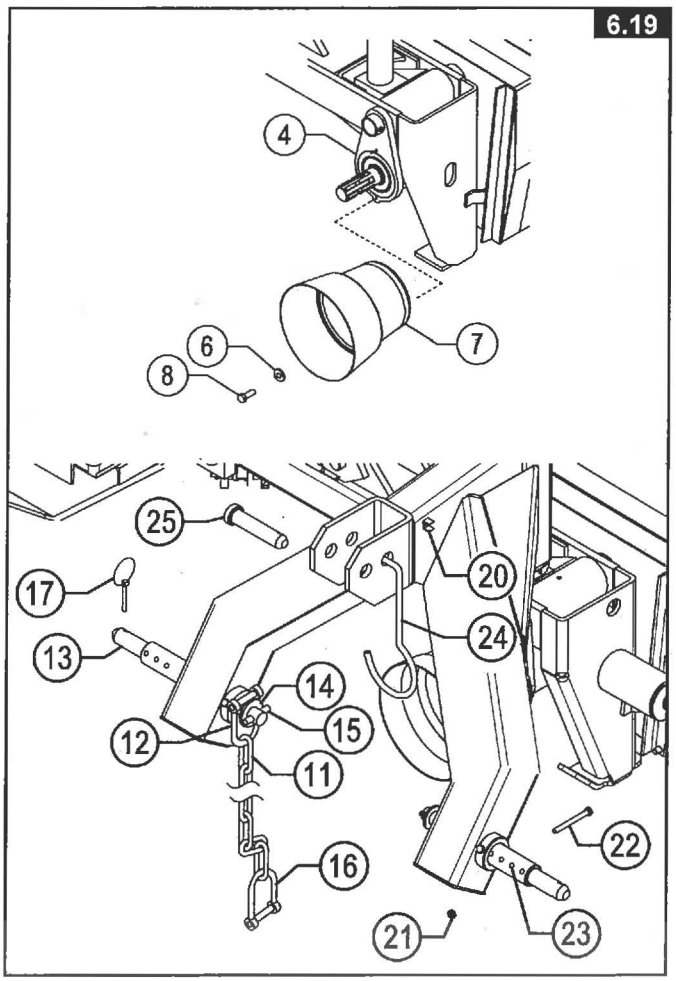
### 6.2.11 see pict. 6.18




Refer to fig. 6.18 and carry out the following steps in the order indicated:

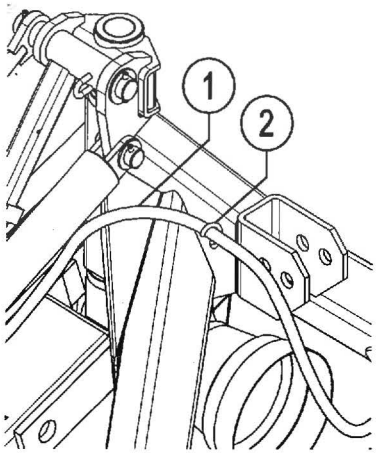
1) Mount protection canvas with the opening for cylinder and spring bar in right position. Fasten all the belt of the canvas.
2) Mount plugs (ø 33.7 x 3 – 1" 5/16 x 7/64") for pipe 1 and 2
3) Make three holes 10 on protection canvas as shown for screws 5 (M 10 x 25 – 25/64" x 1") to assembly support 1 and 2, and fasten with washer 7 and nut 6.
4) Use screws 3 (M 10 x 75 – 25/64" x 2"15/16) and self-locking nuts 4 to mount support 1 and 2, but not fully tighten to make them pivoting.
5) Mount pivoting spring 8 on pins 9.

### 6.2.12 see pict. 6.19




Refer to fig. 6.19 and carry out the following steps in the order indicated:

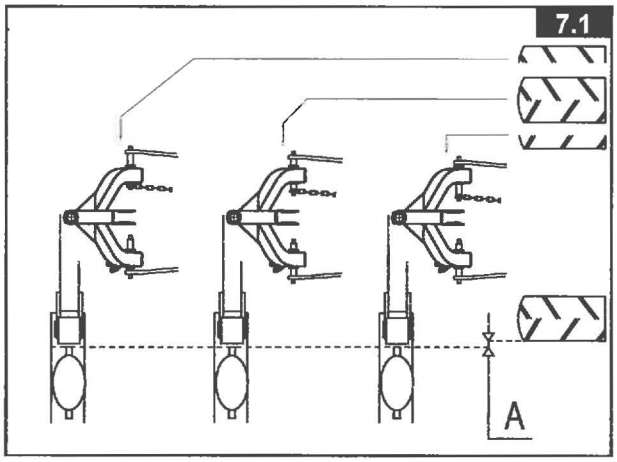
1) Use two screws 8 M6 x 16 (D 15/64" x 5/8") and large washers 6 to assemble casing 7.
2) Insert the two hoist pins 13 into their respective slots and use screws 22 M8x80 (5/16" x 3"9/64), nuts 21 to fasten into the position which best suits the dimensions of the tractor.
3) Insert clamp 12 of hoist chain 11 on one of the hoist pins 13 and fasten with washer 14 (ø 25 – ø 1") and spring pin 15 (ø 8 x 50 – ø 5/16" x 1" 61/64).
4) Insert cardan shaft hook 24 in one hole of 3rd point and use clip 20 to lock it when machine is operating.
5) Pin 25 is used for the 3rd point tractor attach.
6) Insert hydraulic hose 1 in the open ring 2.



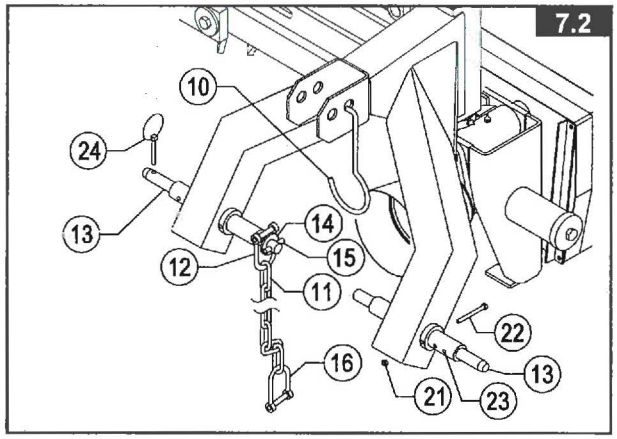
# SECTION 7 INSTRUCTIONS FOR INSTALLATION AND USE

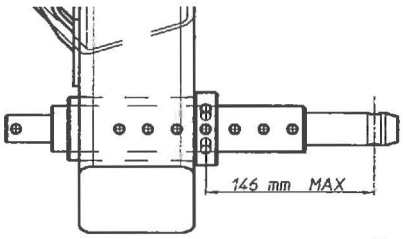
## 7.1 HOW TO ADAPT TO THE TRACTOR

The machine can be adapted to tractors with various gauges by placing the two hoist arms as shown in figure 7.1, so that distance A is about 5 cm (2 inches) when the machine is in the work position.
In order to obtain the various positions in fig. 7.1, slide the pins 13 (fig.7.2) in the respective slots and fasten into position with screws 22 and nut 21 (fig. 7.2) in one of the adjustment holes 23 on the pins.



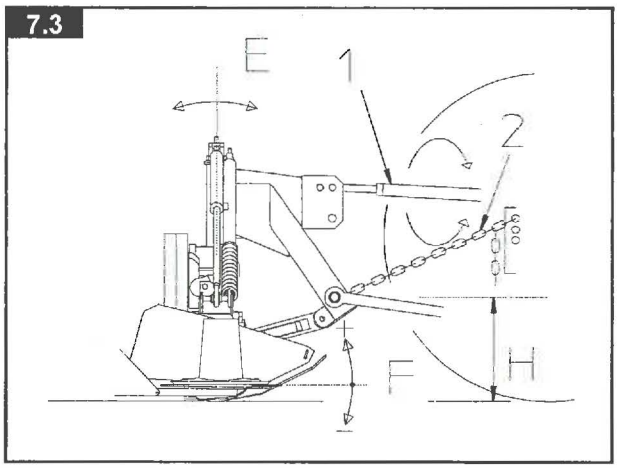

1) If necessary, move the vertical movement adjuster tie rod on the hoist arms until both ball-and-socket joints are at the same height above ground.
2) Fasten the two tractor hoist arms into pins 13 and lock with pegs 24 (fig. 7.2).
3) Fasten the third point tractor 1 (fig. 7.3) and adjust it so that axle E is vertical.
4) Rise the machine with the tractor's hydraulic lift, put up the stand A (Fig. 7.4) until it hooks onto the lock spring B.

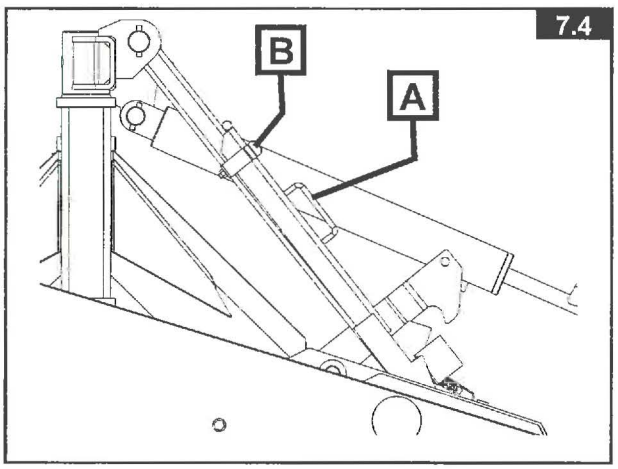


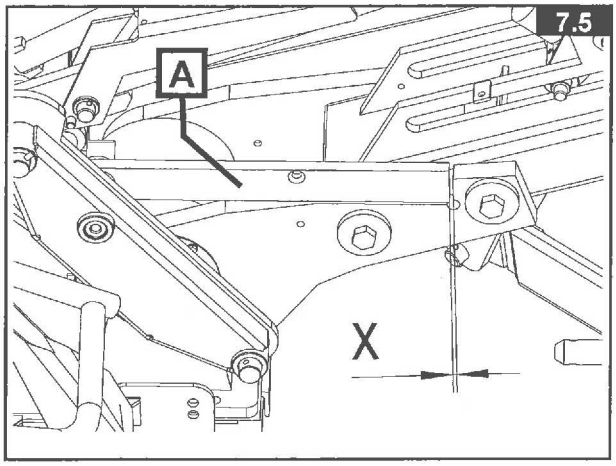

**⚠ WARNING !!! ⚠**

**When working and during transport, the stand A must be locked in the lock spring B (Fig. 7.4).**



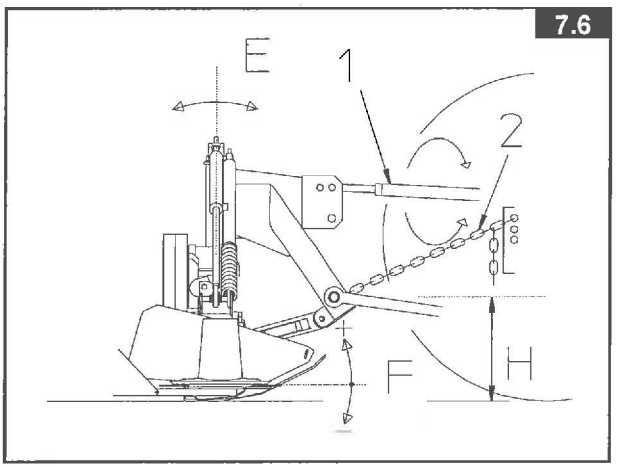
## 7.2 Adjustment of the height of the frame above the ground



7.5

**For tractors equipped with a hydraulic lift limiter with controlled position:**

1) On flat ground, lower the tractor's hydraulic lift until bar A (Fig. 7.5) hooks into place. Bar A must have a functional play "X" of about 3 mm (0.15 inches) as shown in Fig. 7.5.
2) After having adjusted the height of the frame, set the position of the lift control from the driver's seat of the tractor. In this case it is not necessary to use the limiting chain 2 (Fig. 7.6) supplied with the machine.

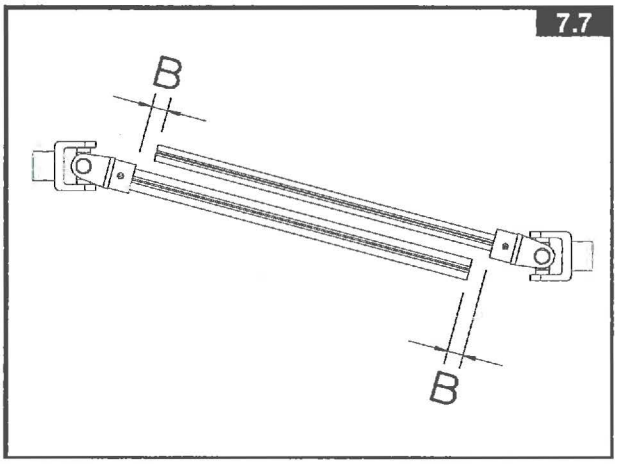


7.6

**For tractors not equipped with a hydraulic lift limiter with controlled position:**

1) Fasten in place the limiting chain 2 in Fig. 7.6 supplied with the machine with the hook (16) in Fig. 7.2 to one of the free holes in the bracket of the tractor third point.
2) Lower the machine into the work position until the bar A (Fig. 7.5) enters in its place and the limiting chain 2 (Fig. 7.6) is taut. Bar A (Fig. 7.5) must have a functional play "X" of about 3 mm (0.15 inches). The height H from the ground is correct when there is:
   - Mower bar on the ground.
   - Distance "X" of about 3 mm (0.15 inches).
   - Limiting chain 2 in Fig. 7.6 taut.

## 7.3 HOW TO ADAPT THE CARDAN SHAFT




In order to make sure that the cardan shaft is the right length compared with the tractor power takeoff (with the machine already attached to the tractor), proceed as follows(see pict. 7.2):

1) Remove the two cardan joint axle shafts and insert them separately on the two power take-offs (tractor and mowing machine) with the clutch on the side of the mowing machine.
2) Place the two axle shafts one alongside the other.
3) Check that when the cardan shaft is stretched to its minimum length (repeatedly raise and lower the machine to find this position), the tubes do not touch the bottom, so that there is always a minimum clearance B of 20 mm (0.79 inches).
4) If necessary, reduce the two axle shafts as well as the two axle shaft protections by the same amount (keeping the above-mentioned conditions), and take care to clean and lubricate them before starting work.

**ATTENTION !!!**

**When the cardan shaft is stretched to its maximum length (with the safety device released), the cardan tubes must remain inserted at least 10 cm (4 inches).**

Use the relevant chains to fasten the outer cardan shaft protection

**DANGER !!!**

**It is your responsibility to read and comply with this documentation. If information given in this manual should conflict with that given in the Cardan shaft manual, you should follow the instructions given by the Cardan shaft manufacturer.**

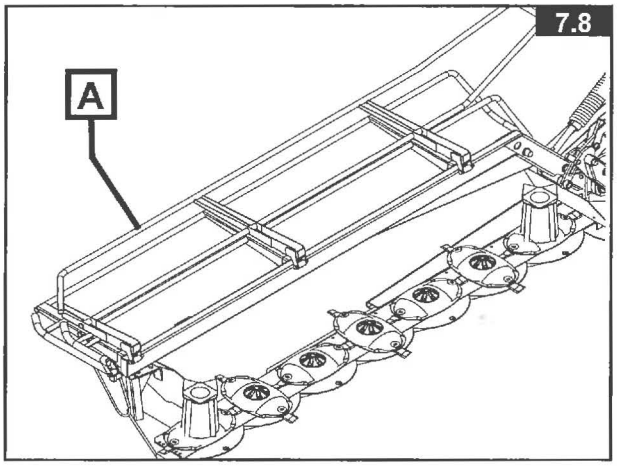
## 7.4 PUTTING IN THE TRANSPORT POSITION

**DANGER !!!**

**Make sure that no person or object is standing within the turnover range of the disk carrier bar.**

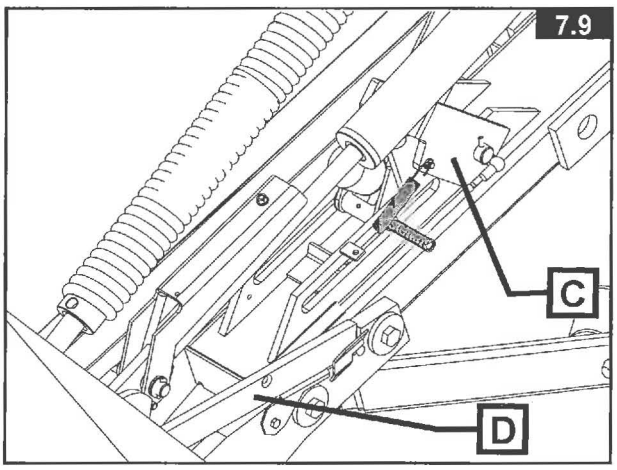
**IMPORTANT**

**Before transport the machine on public roads, the user must always make sure that it complies with the highway code.**




To put the machine into position for transport on public roads or from one field to another, do the following:

1) With the machine in the work position, detach the tractor power takeoff and wait until all moving components have come to a full stop.
2) Flip back the front deflector A (Fig. 7.8).
3) Pull the cord of hook C to free the lifting brace (D) (Fig. 7.9). If the lifting brace (D) in not free in his socket, lower the tractor's hydraulic lift until the lifting brace (D) is free and then pull the cord of hook C.
4) Raise completely the machine with the tractor hydraulic lift.
5) Slowly raise the mower bar vertically actuating the machine's hydraulic cylinder. Release the tension of the cord of hook C (Fig. 7.9) while raising the mower bar vertically. This will hook automatically with the locking hook C (Fig. 7.9).




**WARNING !!!**

**Pull the cord of hook C (Fig. 7.9) every time you want to raise the mower bar into the vertical position. While raising it vertically, release the tension on the cord.**

**THE TOTAL TRANSPORT HEIGHT OF THE MACHINE MEASURED FROM THE GROUND MUST NOT EXCEED THE MAXIMUM HEIGHT AUTHORIZED BY THE HIGHWAY CODE.**

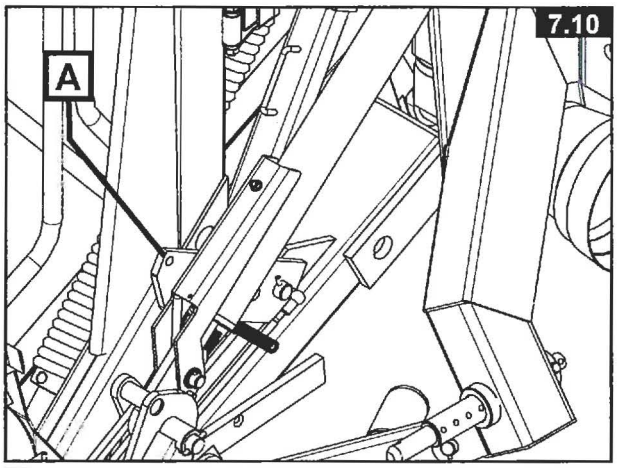
## 7.5 PUTTING IN THE WORK POSITION

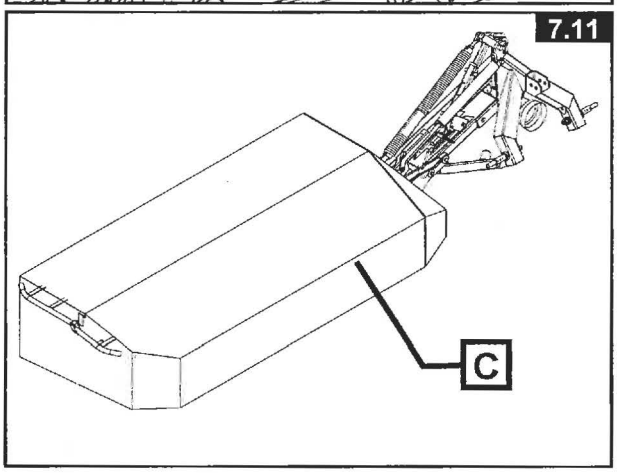
**⚠ WARNING !!! ⚠**

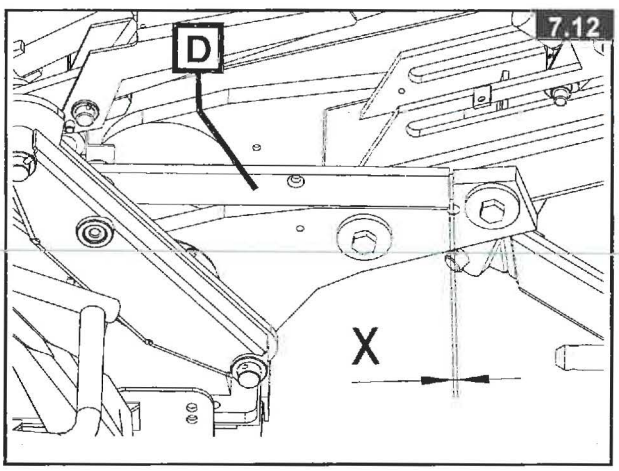
**BEFORE PUTTING IN THE WORK POSITION, SEND ALL PEOPLE AWAY FROM THE MOWER BAR PIVOTING ZONE.**

With the machine in the transport position, proceed as follows:

1) Put the hydraulic cylinder under pressure to lighten the locking hook A (Fig. 7.10).
2) Pull the cord of hook A to release the lock.
3) Lower the mower bar into the work position using the machine's hydraulic cylinder.
4) Flip the front deflector C (Fig. 7.11) forward into the work position as shown in figure.
5) Check the height of the frame from the ground. The lifting brace D (Fig. 7.12) must be in its place and have a functional play "X" of about 3 mm (0.15 inches).



## 7.6 USE OF THE DISC MOWER

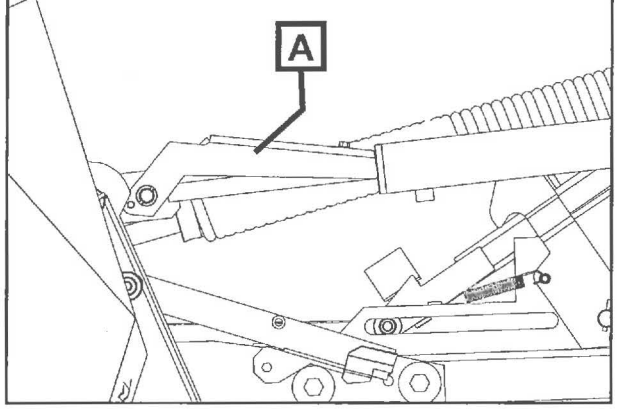
**DANGER !!!**

**MAKE SURE THAT THE PROTECTIVE COVER IS SECURELY IN PLACE ALL AROUND THE MOWER BAR HAZARD.**

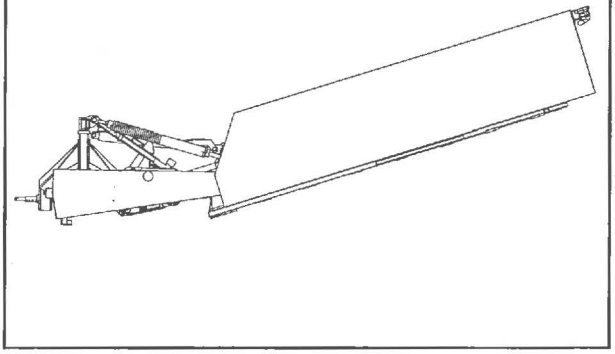
The protective cover avoids the throwing out of plant residues and foreign objects.
Before putting the mower bar into the forage, connect the tractor power takeoff and accelerate gradually up to 540 RPM.
The forward speed must be adapted to the working conditions.

When working, the simple effect hydraulic distributor must always be in the floating position to allow good adaptability to the unevenness of the ground.
For lifting operations at the head of the field (Fig. 7.14), the mower bar maneuver is done with the machine's hydraulic cylinder.
The lifting kinematics are conceived to free the group from the ground while the mower bar is raised. To do this, actuate the hydraulic cylinder until the locking hook A of the piston reaches the end of stroke (Fig. 7.13).

7.13




7.14



**WARNING !!!**

**Every time machine's hydraulic cylinder is actuated during working position, the lifting brace D (Fig. 7.12) must be in its socket, otherwise damaging may occur.**

**DANGER !!!**

**CAUTION. NEVER MOW ON STONY OR ROCKY SOILS.**

**WARNING !!!**

**WHILE WORKING THE PROTECTIVE COVER MUST ALWAYS BE IN PLACE WITH THE FRONT PART OF THE PROTECTION LOWERED. NEVER LEAN ON OR CLIMB ON THE PROTECTIVE COVER.**

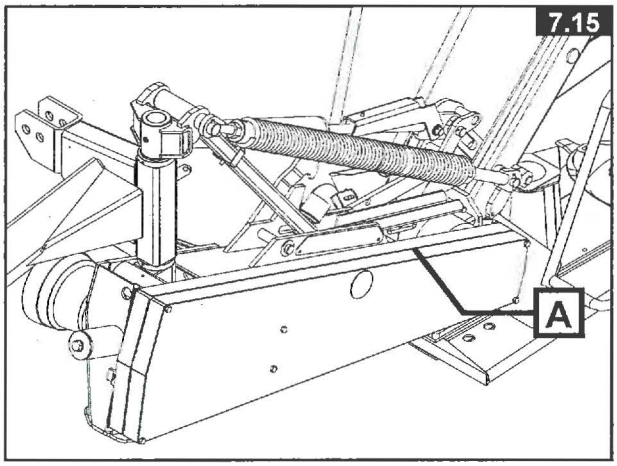
## 7.7 HOW TO DISCONNECT THE MACHINE

**⚠ WARNING !!! ⚠**

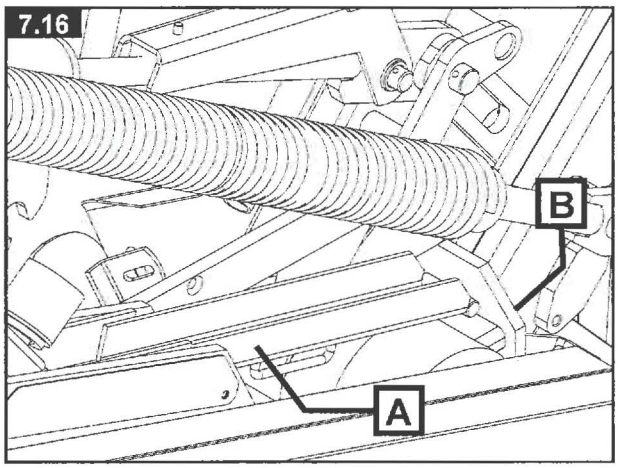
**During operations to disconnect the machine, be careful not to lower the mower bar below the horizontal line (Fig. 7.17).**

1) Using the hydraulic cylinder, lower the disc mower bar into the horizontal position (Fig. 7.17).
2) Unlock component A (Fig. 7.15) and turn it over downward against plate B on the drop box (Fig. 7.16). For this, make sure that the upper part of the drop box is free of foreign objects.
3) Actuate the tractor hydraulic cylinder to lower the machine to the ground.
4) Disconnect the third point and disconnect the hydraulic hose.
5) Then disconnect the drawbars and the cardan driveshaft.

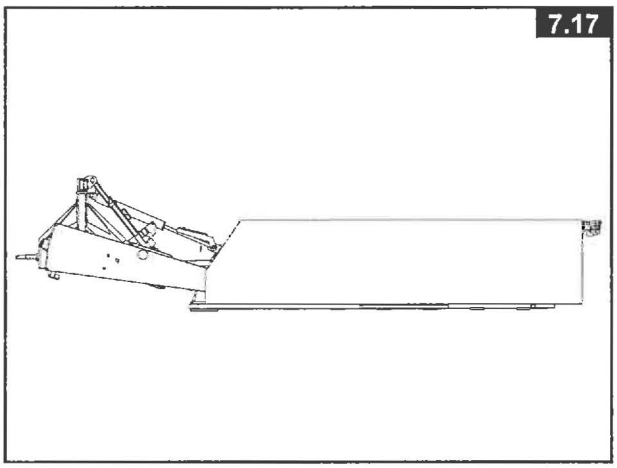
7.15




7.16




7.17

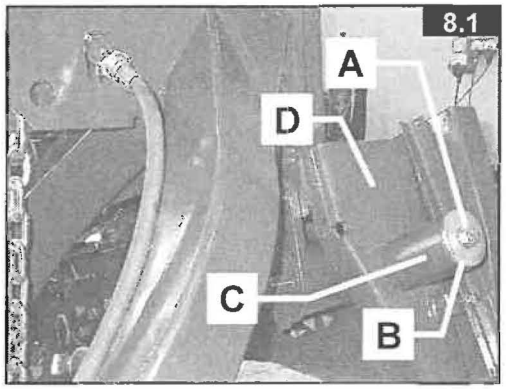


**⚠ WARNING !!! ⚠**

**FOR YOUR SAFETY: ALWAYS DISCONNECT THE MACHINE WITH THE MOWER BAR IN THE HORIZONTAL POSITION.**

# SECTION 8 ADJUSTMENTS AND SET-UP

## 8.1 BELT TENSION

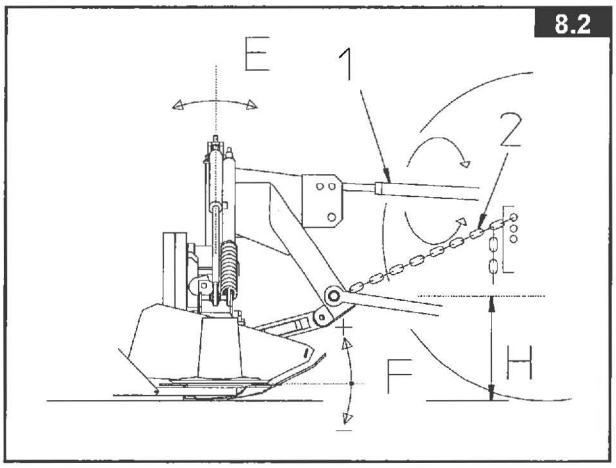



Belt tension must be checked regularly particularly during the first few hours of use. In order to adjust tension proceed as follows (see pict. 8.1):

1) In order to have the right belt tension, you have to tighten screw A till the spacing pipe C is in contact with upright D and washer B, then you have to tighten screw A for other 2 compete turns.
2) Finally check that tension is correct. Distance, visible through opening on rear side of belt cover, is about 20 mm (0.8 inches) when pressure is applied to the belt.

Note : You have to tighten the screw A for the 2 final turns, just for the first assembling and the following replacements of belts.
If a belt has to be replaced, all belts should be replaced at the same time.
The belts must be loosened at the end of the season.

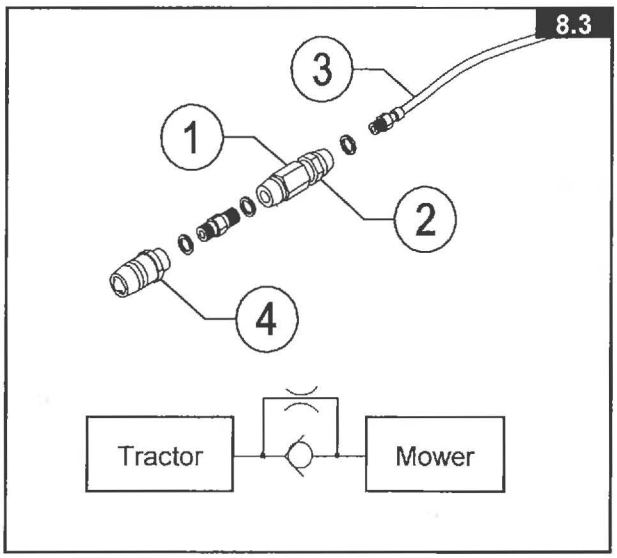
## 8.2 CUTTING HEIGHT




The cutting height can be adjusted by using turn-buckle 1 on the third tractor point to vary the tilt of the knives compared to the ground (distance F in fig. 8.2).
Cutting height may vary within the range of 16/60 mm (0.63/2.36 inches) even though uneven land may influence these values.

## 8.3 HYDRAULIC FLOW ADJUSTER

The hydraulic flow adjuster 1 in fig. 8.3 (item 4 rapid-coupling and item 3 hydraulic hose) is used to move down to the ground the cutting bar slowly to prevent it from damage.
To set hydraulic flow adjuster turn nut 1:
The standard adjustments is two complete turns from max slow position.
When setting operation is ended lock nut 1 with counter-nut 2.

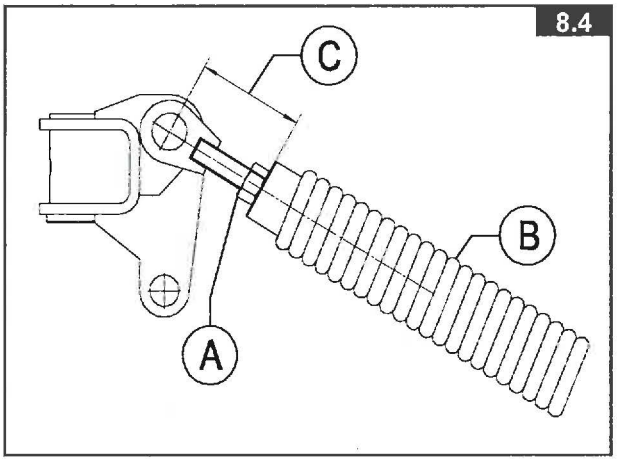



⚠ DANGER !!! ⚠

**Pay attention to hydraulic flow adjustment: try to move up and down the cutting bar during setting operation to check the right adjustment.**

**The hydraulic flow adjuster works in only one direction so always check the right assembly as in figure.**

## 8.4 SPRING TENSION




To adjust spring tension (fig. 8.4):
1) Lift the disk carrier bar until spring is not tensioned.
2) Loose the nut A and turn the spring B.
3) When adjust is completed, tighten the nut A.

The dimension C is (standard adjustment):
100 mm (4") for 7-8 discs model
130 mm (4") for 6 discs model

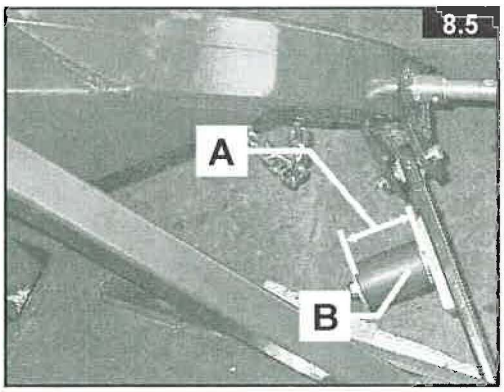
DANGER !!!

**The dimension C must be always lower than**

**130 mm ( 5" 7/32) for 7-8 discs model**
**150 mm ( 5" 57/64) for 6 discs model**

**for transport position**

## 8.5 SAFETY DEVICE




Safety device B (fig. 8.5) unhook when it receives blows that are too strong for the machine structure.
The dimension A is the length of the rubber spring of safety device when tensioned between the two washers; it is 95 mm (3" 47/64) for the standard adjustment.
When adjust the length of the spring, tighten the relevant screw very carefully until unhooking occurs at reasonable intervals only.

DANGER !!!

**The dimension A must be always higher than 85 mm (3" 11/32).**

**Danger of not unhooking when it receives blows that are too strong for the machine structure**

# SECTION 9 FAULTS: REASONS AND REMEDIES

## 9.1 The disk carrier bar vibrates too much during work:

the nylon bushings of the joints in question are over worn or completely worn out.
⇒ replace the bushings;
the pins and/or respective bushings/bearings of the joints in question are over worn.
⇒ replace the worn-out parts and lubricate regularly;
the outer conveyor is too slack
⇒ check that it is fastened correctly.

## 9.2 The disk carrier bar does not adapt correctly to uneven ground:

the height of the tractor coupling plate is not adjusted correctly
⇒ readjust as specified in point 7.1 (in particular check that both ball-and-socket joints are the same height above ground);
the machine joints resist free rotation
⇒ clean and lubricate the parts in question.

## 9.3 The disk carrier bar is not raised parallel to the ground:

the entire machine is leaning to one side
⇒ check that both hoist ball-and-socket joints are at the same height above ground;
Earth accumulates between two sliding blocks in the front part of the disk carrier bar:

## 9.4 7.4 Earth accumulates between two sliding blocks in the front part of the disk carrier bar

The ground is exceptionally wet;
the bar presses to hard on the ground
⇒ increase tension of the spring B fig. 8.4;
the disk carrier bar tilts too far forward
⇒ adjust the tilt of axle E fig. 8.2 by moving turnbuckle 1 on the third point.

## 9.5 Safety device (fig. 8.5) often unhooks under impact:

The rubber buffer B is worn out or is not adjusted correctly.
⇒ check the condition of the rubber buffer and if necessary, tighten the relevant screw very carefully **(danger of not unhooking when it receives blows that are too strong for the machine structure)** until unhooking occurs at reasonable intervals only.

## 9.6 The stubble is too high or too sparse:

The disk carrier bar does not tilt correctly (axle E in fig. 8.2)
⇒ use turnbuckle 1 on the third point to adjust the tilt.

## 9.7 The stubble is not the same height all along the cutting width:

the disk carrier bar tilts too much
⇒ reduce the tilt of the disk carrier bar (fig. 8.2);
the knives are over worn
⇒ replace the knives;
power takeoff speed is insufficient
⇒ increase power takeoff rotation speed up to, but not over, 540 revs/min;
forward movement speed is too fast
⇒ reduce tractor speed.

## 9.8 The forage is pushed forward before being cut:

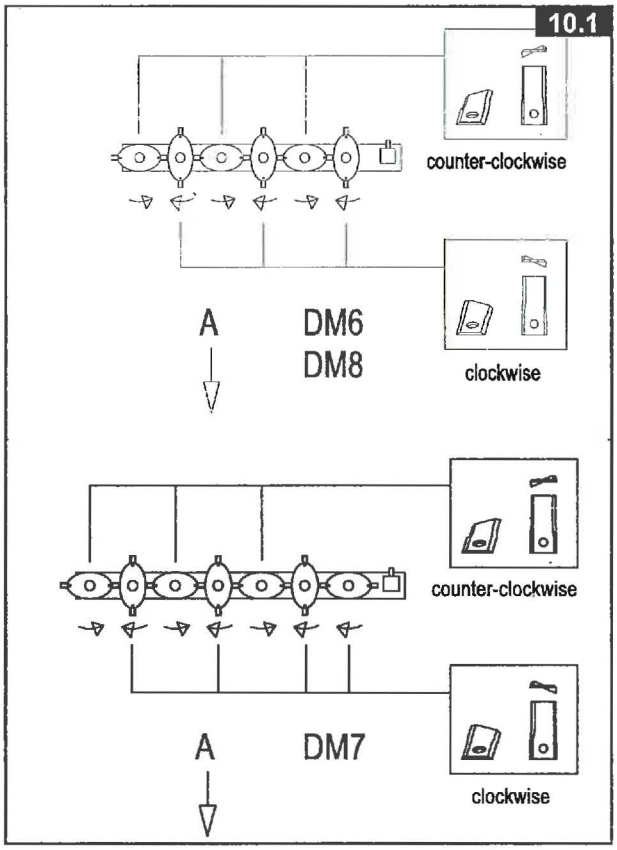
the ventilating effect of the knives is too strong
⇒ reduce power takeoff rotation speed and increase tractor forward movement speed.

# SECTION 10 MAINTENANCE

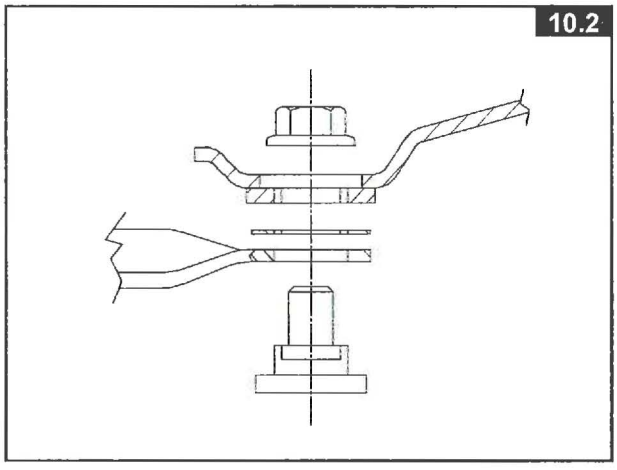
## 10.1 HOW TO FASTEN CUTTING DEVICES

After they have been used the first time, the disks, knives and relevant parts to fasten them must be controlled regularly every 15-20 working hours. More frequent checks will have to be made if mowing is carried out on stoned ground and after impact with an obstacle.
The oval disks are splined to a shaft and have to be positioned so that the main axle is at right angles with those next to it (fig. 10.1).
The knives are fastened by means of a special self-tapping screw and an M12 nut (fig. 10.2); the nut must be tightened with a 16 kgm (160 Nm) torque.
Cupped washer 1 (fig. 10.3) must be mounted with its concavity facing downwards. The self-locking nut 2 must be tightened with a dynamometric spanner set at 32 kgm (320 Nm).
The six screws 3 must be tightened with a dynamometric spanner set at 70-80 Nm torque.
Pay attention to the direction of disk rotation. Worn knives can be replaced by carefully looking at fig. 10.1 (A is the work moving direction); the second cutter (if still in good condition) can be used by putting it back turned up-down at the same side of the disk. If worn knives are used to mow, the cut will be less precise and more power will be used.

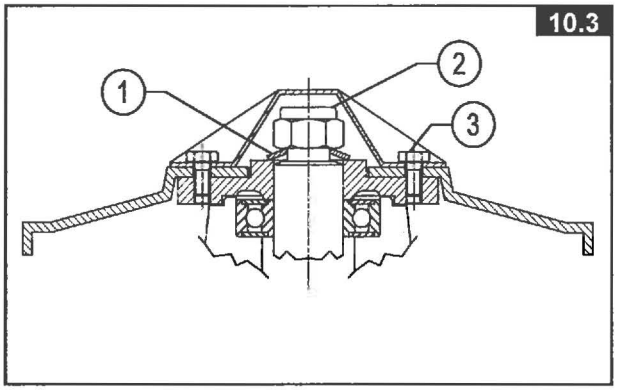
10.1




10.2



10.3



## 10.2 HOW TO CHECK THE MOWING DEVICES

The knives should be replaced when:

⇒ the width of the knife at point B=1 cm (0.4 inches) from the edge of the disk is 3/4 of the original width A (fig. 10.4).

⇒ the oval shape of the hole is more than a distance of C=2 mm (0.08 inches) of the size of the original hole (fig. 10.5).

The clamp parts should be replaced when:

⇒ the screw to fasten the knives is bent or too worn out below the head (fig. 10.6).

⇒ the self-tapping layer 1 of the screw to fasten the knives is missing or too worn out; we advise changing the screw after it has been tightened 5 times (fig. 10.7).

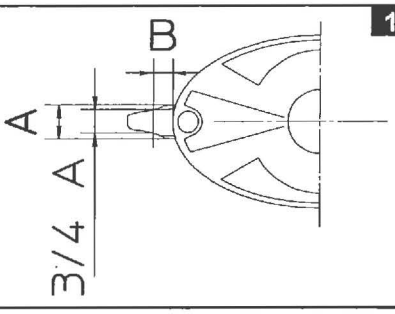
⇒ the clamp screw is worn down where it holds the knife to a distance of E higher than or equal to 3 mm (0.12 inches) (fig.10.8).

⇒ the height of the lock nut at any point whatsoever is less than or equal to 1/2 of the total nut height (fig. 10.9).

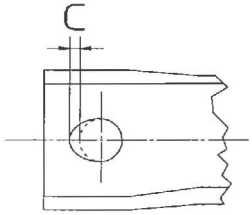
DANGER !!!

**Worn out or damaged pieces must be replaced with original spare parts.**

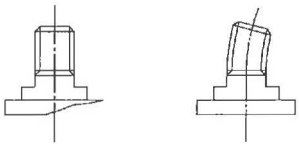
10.4



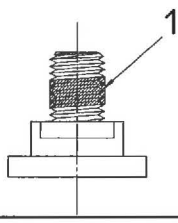

10.5



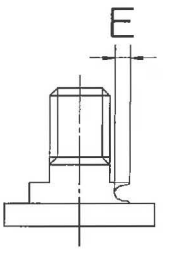

10.6



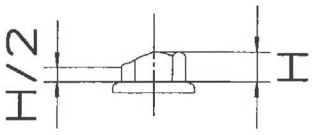
10.7




10.8




10.9




## 10.3 GENERAL MAINTENANCE

Before carrying out any cleaning or maintenance operation etc. comply with all the safety warnings given in this use and maintenance handbook. Before carrying out any operation directly, first:

- switch off the engine;
- remove the key from the dashboard and put the brake on the tractor;
- release circuit pressure;

check that the mower is stable.

The following points should be checked on each new machine 8 working hours:

- the screws are correctly tightened;
- the tension of all the belts;
- that no parts of the hydraulic system are leaking;
- that the driving gear parts are correctly lubricated.

Carry out the following checks regularly particularly at the beginning of each season:

- check/replace the oil, lubricate/grease each point necessary, according to the instructions;
- check wear and tear of the knives and respective clamp parts;
- check wear and tear of protection parts;
- reset correct belt tension;

check that all the screws are tightened correctly.

Before beginning to mow, make sure that the machine is working correctly and there are no vibrations.

## 10.4 LUBRICATION

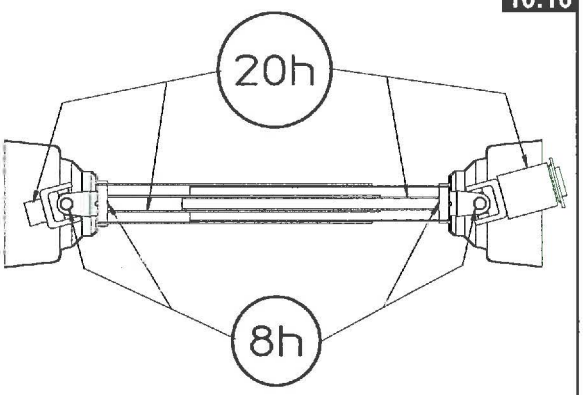
Change the oil in the disk carrier bar and the over-gear box after the first 50 hours use. After this first change, we advise changing the oil every 100 working hours or at least once a year.

- The cardan shaft should be greased regularly as shown in fig.10.10.
- The joints, supports, hinges, and points equipped with lubricator as shown in figs. 10.13 should be lubricated or greased frequently, at least every 20 working hours.

DANGER !!!

**When in use, check the oil levels every day and top up if necessary.**

10.10

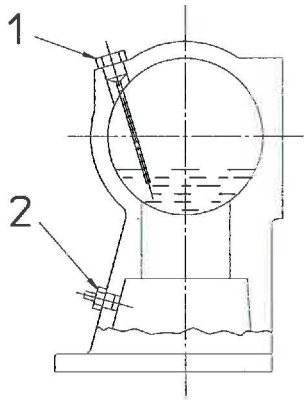



### 10.4.1 OVER-GEAR BOX (fig.10.11)

1= drain/loading cap with level rod
2= breather cap on disk carrier bar.

Use SAE EP 80 W 90 oil in the quantities shown in the table. Check the level with the special rod on the drain/loading cap when the bar is lying horizontally.
Oil can be drained through the hole in cap 1 when the bar is vertical.

10.11

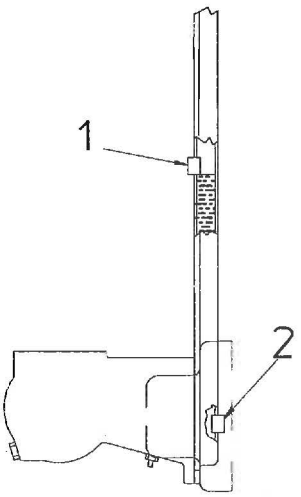



### 10.4.2 DISK CARRIER BAR (fig. 10.12)

1= loading cap - level cap
2= drain cap

Use SAE EP 80 W 90 oil in the quantities shown in the table.
Oil is loaded and the oil level is checked when the disk carrier bar is vertical (it must have been in the vertical position for at least 5 minutes).
In order to fill up the oil unscrew both caps 1 (filling and level) and pour in the amount shown or the amount needed to top up the level through the hole in cap 1 (tilt the bar slightly if necessary so it is easier to pour in the oil) until the level of cap 1 is reached.

10.12

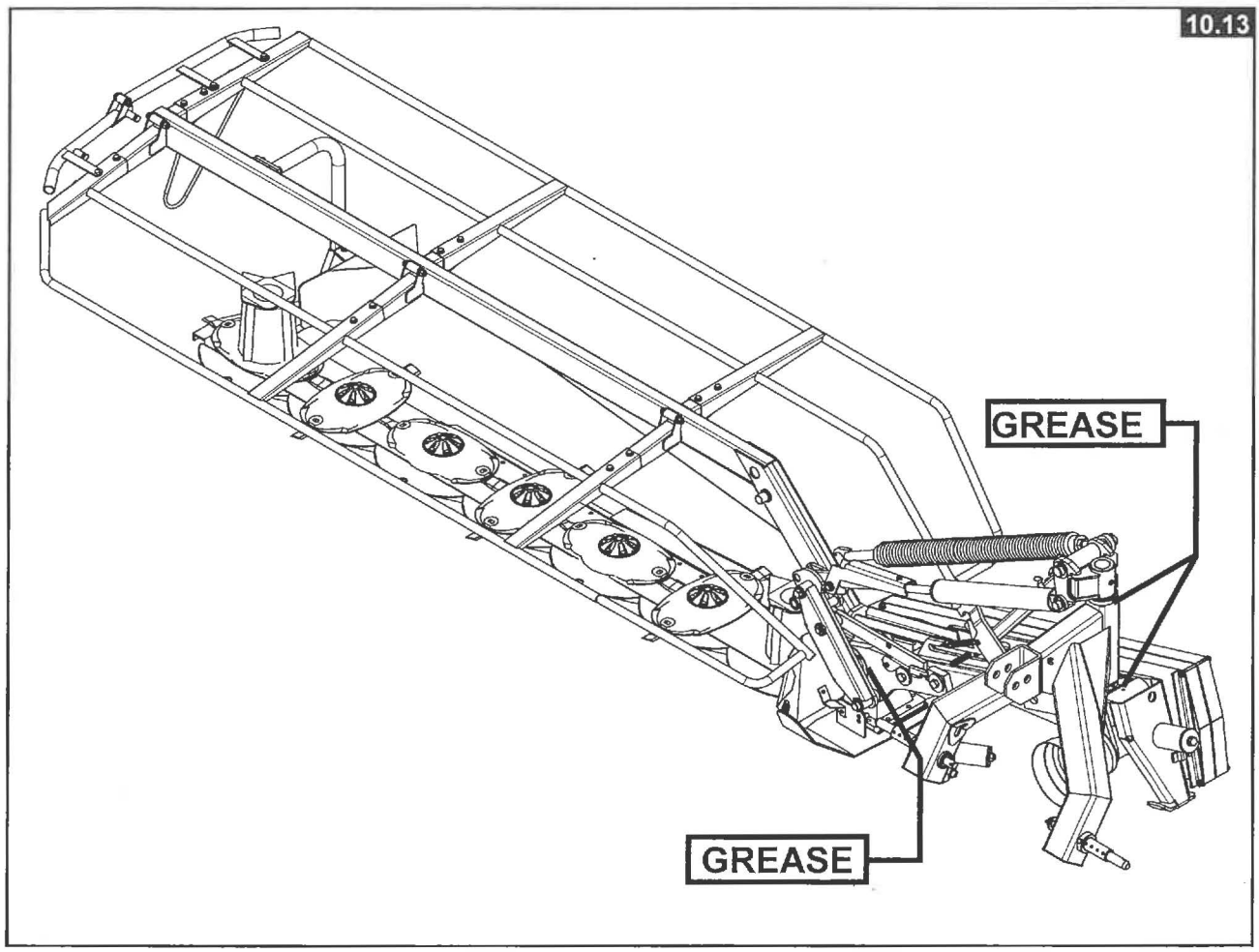



| | litres | Gall. UK | Gall. USA |
|---|---|---|---|
| Over-gear box | 0,7 | 0.16 | 0.19 |
| 6 disk bar | 2,9 | 0.64 | 0.77 |
| 7 disk bar | 3,6 | 0.80 | 0.95 |
| 8 disk bar | 3,8 | 0.85 | 1 |

## 10.5 END OF SEASON STORAGE

At the end of the season we recommend storing the machine with the bar lying horizontally after having cleaned it carefully. You should also:

- lubricate and grease each point shown in this use and maintenance handbook;
- protect the areas subject to rubbing with a layer of anti-rust paint;
- loosen the trapezoidal belts and check that the protection plate is lying flat.



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