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# Operating Instructions and Parts Manual
# Electronic Variable Speed Turret Mill
## Models: JTM-949EVS/230, JTM-949EVS4
## JTM-1050EVS2, JTM-1050EVS4

JTM-949EVS/230 shown

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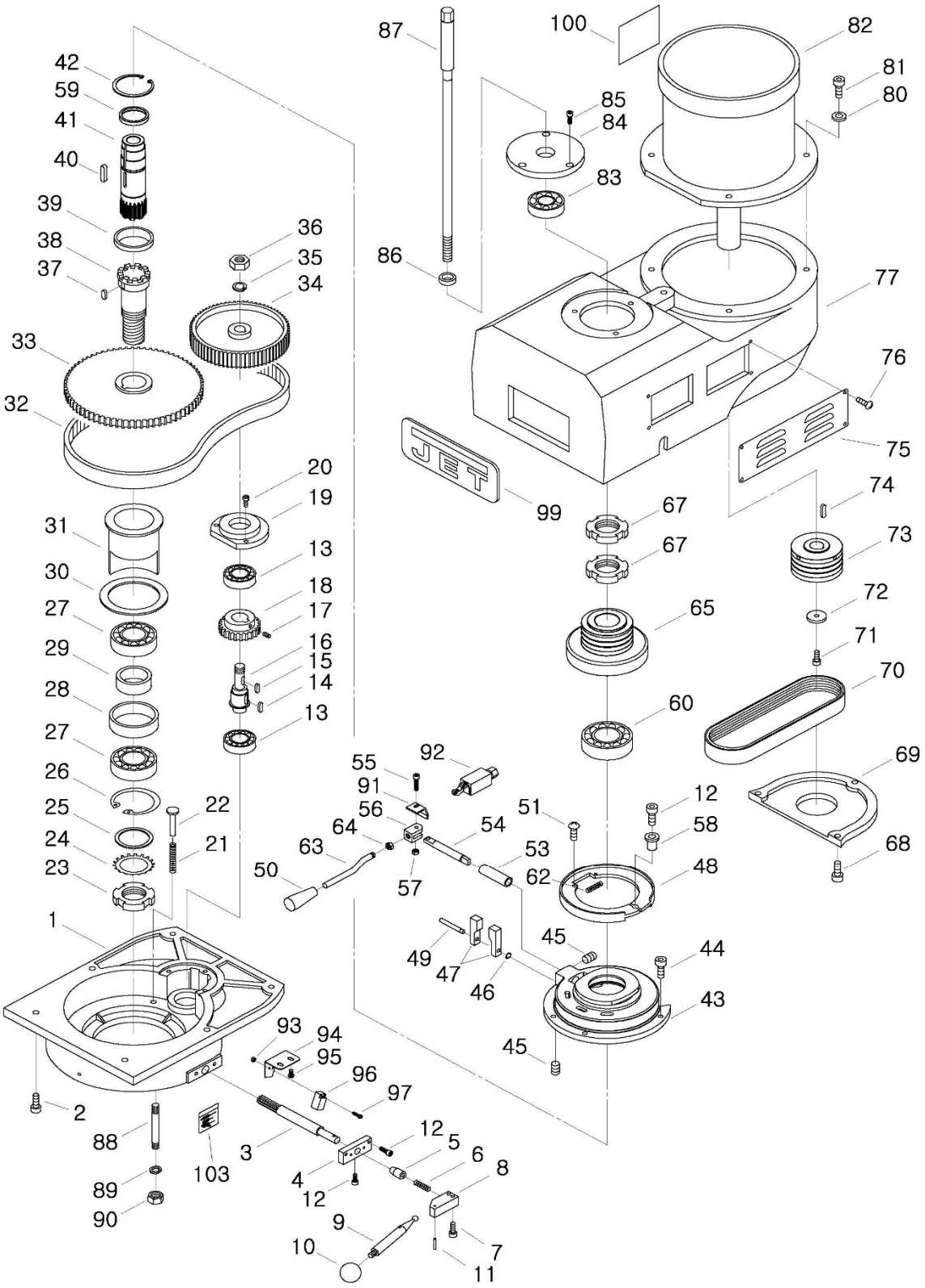
### 13.1.1 **JTM-949EVS/JTM-1050EVS Upper Head Assembly – Exploded View**

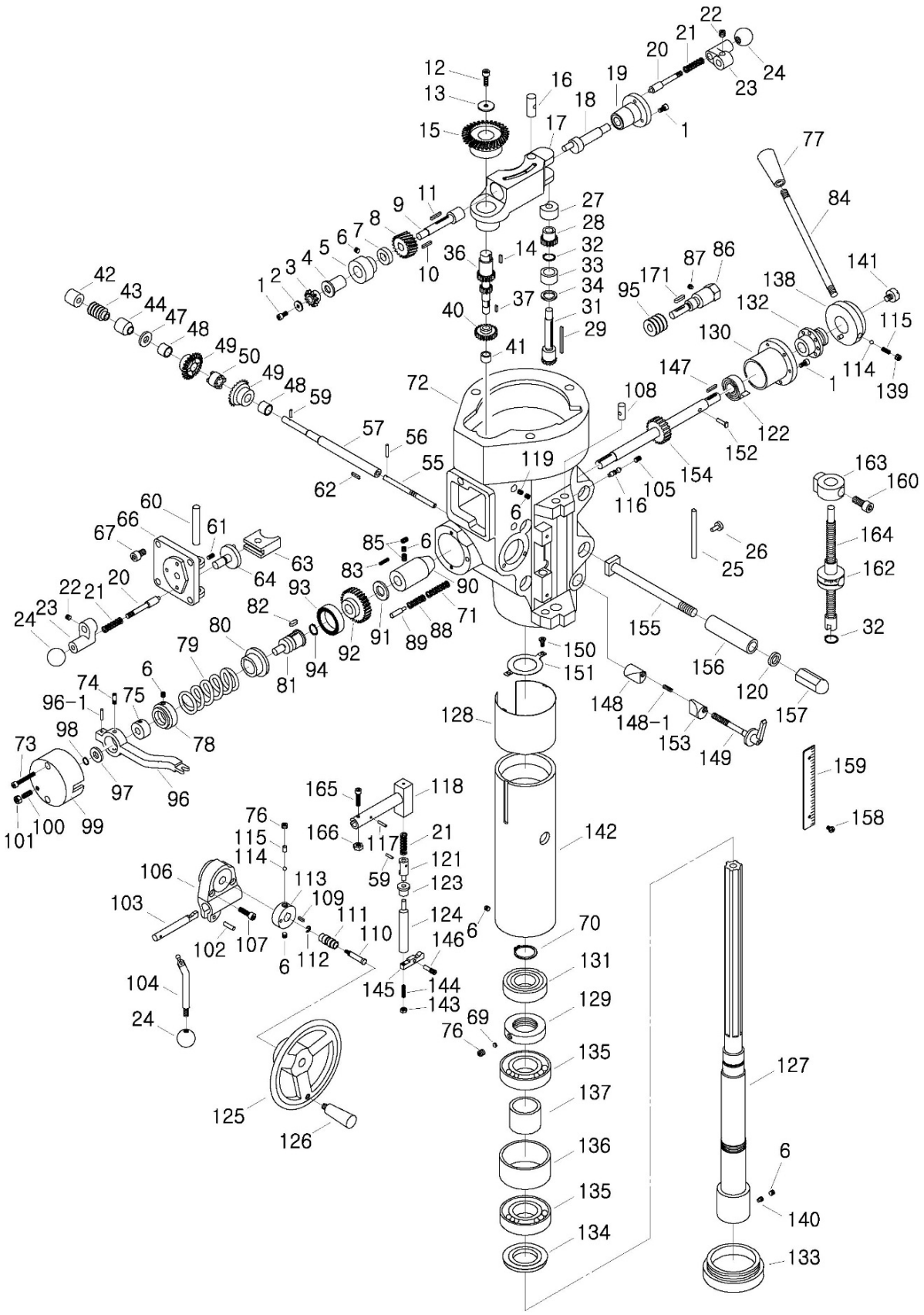


## 13.1.2 JTM-949EVS/JTM-1050EVS Upper Head Assembly – Parts List

| Index No | Part No | Description | Size | Qty |
|---|---|---|---|---|
| 1 | JTM949EVS-A01 | Upper Pulley Housing | | 1 |
| 2 | TS-1504041 | Hex Socket Cap Screw | M8x20 | 4 |
| 3 | JTM949EVS-A03 | Bull Gear Shifter Pinion Shaft | | 1 |
| 4 | JTM949EVS-A04 | Hi-Lo Detent Plate | | 1 |
| 5 | JTM949EVS-A05 | Sleeve | | 1 |
| 6 | JTM949EVS-A06 | Spring | | 1 |
| 7 | TS-1502031 | Hex Socket Cap Screw | M5x12 | 2 |
| 8 | JTM949EVS-A08 | Hi-Lo Pinion Block | | 1 |
| 9 | JTM949EVS-A09 | Hi-Lo Shift Handle | | 1 |
| 10 | BH1/4 | Black Plastic Ball | 1/4" | 1 |
| 11 | B-56 | Spring Pin | 3x20 | 1 |
| 12 | TS-1502041 | Hex Socket Cap Screw | M5x16 | 3 |
| 13 | BB-6203ZZ | Ball Bearing | 6203ZZ | 2 |
| 14 | KF2R5518 | Key | 5x5x18 | 1 |
| 15 | KF2R5515 | Key | 5x5x15 | 1 |
| 16 | JTM949EVS-A16 | Gear Shaft | | 1 |
| 17 | TS-1523011 | Set Screw | M6x6 | 4 |
| 18 | JTM949EVS-A18 | Gear | | 4 |
| 19 | JTM949EVS-A19 | Ball Bearing Bracket | | 1 |
| 20 | TS-1504041 | Hex Socket Cap Screw | M8x20 | 3 |
| 21 | JTM949EVS-A21 | Pressure Spring | | 3 |
| 22 | JTM949EVS-A22 | Spring Shaft | | 3 |
| 23 | AN08 | Bearing Nut | AN08 | 1 |
| 24 | AW08 | Bearing Washer | AW08 | 1 |
| 25 | JTM949EVS-A25 | Spacer | | 1 |
| 26 | RTW62 | Retaining Ring | RTW62 | 1 |
| 27 | BB-6908ZZ | Ball Bearing | 6908ZZ | 2 |
| 28 | JTM949EVS-A28 | Gear Bearing Spacer (Large) | | 1 |
| 28A | JTM949EVS-A28A | Gear Bearing Spacer Assembly (#28,29) | | |
| 29 | JTM949EVS-A29 | Gear Bearing Spacer (Small) | | 1 |
| 30 | JTM949EVS-A30 | Washer | | 1 |
| 31 | JTM949EVS-A31 | Bearing Sleeve | | 1 |
| 32 | JTM949EVS-A32 | Timing Belt | 225L100 | 1 |
| 33 | JTM949EVS-A33 | Gear | | 1 |
| 34 | JTM949EVS-A34 | Timing Pulley | | 1 |
| 35 | TS-0720131 | Spring Washer | 5/8" | 1 |
| 36 | NH(T)5/8-18UNF | Hex Nut | 5/8”-18UNF | 1 |
| 37 | KF2R8712 | Key | 8x7x12 | 1 |
| 38 | JTM949EVS-A38 | Output Clutch | | 1 |
| 39 | JTM949EVS-A39 | Clutch Collar | | 1 |
| 40 | JTM949EVS-A40 | Key | 7x7x40 | 1 |
| 41 | JTM949EVS-A41 | Input Clutch | | 1 |
| 42 | RTW80 | Retaining Ring | RTW80 | 1 |
| 43 | JTM949EVS-A43 | Brake Base (RE: JTM949EVS-A104) | | 1 |
| 44 | TS-1504041 | Hex Socket Cap Screw | M8x20 | 4 |
| 45 | TS-1523011 | Set Screw | M6x6 | 4 |
| 46 | JTM949EVS-A46 | Retaining Ring | STW8 | 1 |
| 47 | JTM949EVS-A47 | Brake Finger Stud (set of 2) | | 1 |
| 48 | JTM949EVS-A48 | Brake Shoe | | 1 |
| 49 | JTM949EVS-A49 | Brake Shaft | | 1 |
| 50 | JTM949EVS-A50 | Brake Lock Knob | 3/8" | 1 |
| 51 | JTM949EVS-A51 | Pan Head Screw | 1/8"x1/4" | 4 |
| 53 | JTM949EVS-A53 | Brake Sleeve | | 1 |
| 54 | JTM949EVS-A54 | Spindle Brake Shaft | | 1 |
| 55 | TS-1503071 | Hex Socket Cap Screw | M6x30 | 1 |
| 56 | JTM949EVS-A56 | Spindle Brake Lever Pivot | | 1 |
| 57 | TS-1540041 | Hex Nut | M6 | 1 |
| 58 | JTM949EVS-A58 | Lock Collar | | 1 |
| 59 | JTM949EVS-A59 | Collar | | 1 |
| 60 | BB-6010ZZ | Ball Bearing | 6010ZZ | 1 |

| Index No | Part No | Description | Size | Qty |
|---|---|---|---|---|
| 61 | JTM949EVS-A61 | Bracket (RE: JTM949EVS-A104) | | 1 |
| 62 | JTM949EVS-A62 | Brake Spring | | 1 |
| 63 | JTM949EVS-A63 | Spindle Brake Lever | | 1 |
| 64 | TS-0570031 | Hex Nut | 3/8" | 1 |
| 65 | JTM949EVS-A65 | Pulley | | 1 |
| 67 | AN10 | Bearing Nut | | 2 |
| 68 | TS-1504041 | Hex Socket Cap Screw | M8x20 | 3 |
| 69 | JTM949EVS-A69 | Motor Pulley Cover | | 1 |
| 70 | JTM949EVS-A70 | Belt | 3-11M-850 | 1 |
| 71 | TS-1504051 | Hex Socket Cap Screw | M8x25L | 1 |
| 72 | JTM949EVS-A72 | Washer | Ø9x Ø40x6t | 1 |
| 73 | JTM949EVS-A73 | Motor Pulley | | 1 |
| 74 | JTM949EVS-A74 | Key | | 1 |
| 75 | JTM949EVS-A75 | Side Belt Housing Cover | | 2 |
| 76 | F009884 | Socket Head Button Screw | M5 x 8L | 8 |
| 77 | JTM949EVS-A77 | Upper Guard | | 1 |
| 80 | TS-1550071 | Flat Washer | Ø10 | 4 |
| 81 | TS-1505031 | Hex Socket Cap Screw | M10x25 | 4 |
| 82 | JTM949EVS-A82 | Motor | 2.2kw, 3HP/3Ph | 1 |
| | JTM949EVS-A82-1 | Motor Fan (not shown) | | 1 |
| | JTM949EVS-A82-2 | Motor Fan Cover (not shown) | | 1 |
| | JTM949EVS-A82-3 | Junction Box Cover (not shown) | | 1 |
| 83 | BB-6009ZZ | Ball Bearing | 6009ZZ | 1 |
| 84 | JTM949EVS-A84 | Upper Cover | | 1 |
| 85 | TS-1503041 | Hex Socket Cap Screw | M6x16 | 3 |
| 86 | JTM949EVS-A86 | Spacer | | 1 |
| 87 | JTM949EVS-A87 | Draw Bar | 7/16" | 1 |
| 87A | JTM949EVS-A87A | Draw Bar Assembly (#86,87) | | 1 |
| 88 | JTM949EVS-A88 | Stud | 7/16"x4" | 3 |
| 89 | TS-0720101 | Spring Washer | 7/16" | 3 |
| 90 | TS-0561041 | Hex Nut | 7/16" | 3 |
| 91 | JTM949EVS-A91 | Push Plate | | 1 |
| 92 | JTM949EVS-A92 | Limit Switch | | 1 |
| 93 | TS-1540011 | Hex Nut | M3 | 2 |
| 94 | JTM949EVS-A94 | Sensor Bracket | | 1 |
| 95 | TS-2246102 | Socket Head Button Screw | M6x10 | 2 |
| 96 | JTM949EVS-A96 | Sensor | | 1 |
| 97 | ZX-S36 | Pan Head Screw | M3x20 | 2 |
| 99 | JET-203 | JET Logo | 203x84 mm | 1 |
| 100 | LM000001 | Motor Label | | 1 |
| 101 | JTM949EVS-A101 | Cable (Control Panel to Elec Box) – not shown | | 1 |
| 102 | JTM949EVS-A102 | Cable (Motor to Elec Box) – not shown | | 1 |
| 103 | LM000005 | Speed Range Label – not shown | | 1 |
| | JTM949EVS-A104 | Brake Base Assembly (includes #43, 61) | | 1 |

### 13.2.1 **JTM-949EVS/JTM-1050EVS Lower Head Assembly – Exploded View**



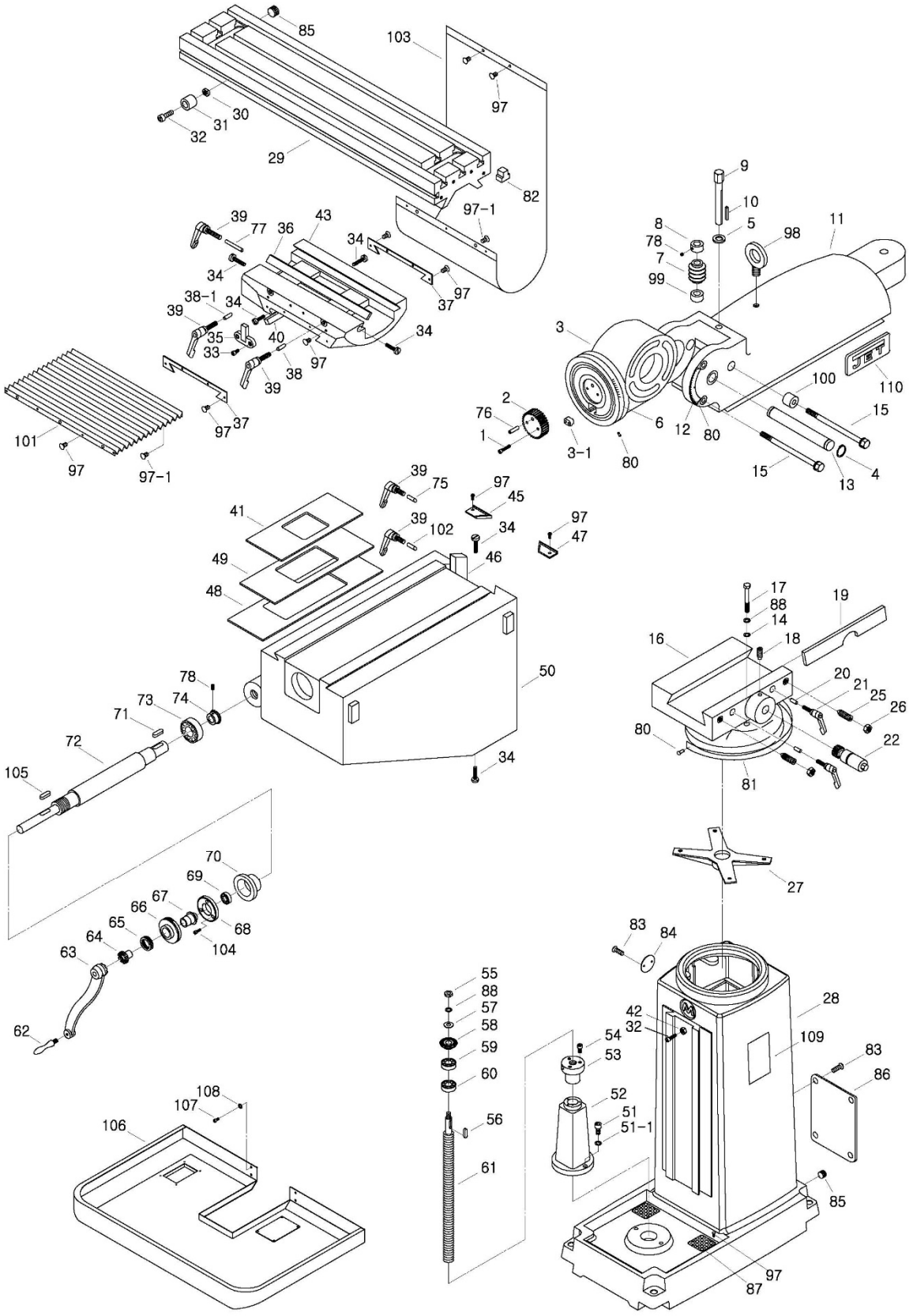
## 13.2.2 JTM-949EVS/JTM-1050EVS Lower Head Assembly – Parts List

| Index No | Part No | Description | Size | Qty |
|---|---|---|---|---|
| 1 | TS-1502031 | Hex Socket Cap Screw | M5x12 | 6 |
| 2 | JTM949EVS-B02 | Flat Washer | Ø5 | 1 |
| 3 | JTM949EVS-B03 | Feed Gear | | 1 |
| 4 | JTM949EVS-B04 | Shaft Sleeve | | 1 |
| 5 | JTM949EVS-B05 | Worm Cradle Bushing | | 1 |
| 6 | TS-1523011 | Socket Set Screw | M6x6 | 8 |
| 7 | JTM949EVS-B07 | Worm Gear Spacer | | 1 |
| 8 | JTM949EVS-B08 | Feed Drive Worm Gear | | 1 |
| 9 | JTM949EVS-B09 | Worm Gear Shaft | | 1 |
| 10 | JTM949EVS-B10 | Worm Shaft Key | 3x3x8 | 1 |
| 11 | KF2R3320 | Key | 3x3x20 | 1 |
| 12 | TS-1503041 | Hex Socket Cap Screw | M6x16 | 1 |
| 13 | JTM949EVS-B13 | Flat Washer | Ø6 | 1 |
| 14 | KF2R5508 | Key | 5x5x8 | 1 |
| 15 | JTM949EVS-B15 | Feed Reverse Bevel Gear | | 1 |
| 16 | JTM949EVS-B16 | Feed Engage Pin | | 1 |
| 17 | JTM949EVS-B17 | Worm Gear Cradle | | 1 |
| 18 | JTM949EVS-B18 | Cam Rod | | 1 |
| 19 | JTM949EVS-B19 | Shift Sleeve | | 1 |
| 20 | JTM949EVS-B20 | Lock Rod | | 2 |
| 21 | JTM949EVS-B21 | Spring | | 3 |
| 22 | 5302731 | Socket Set Screw | M8x6 | 2 |
| 23 | JTM949EVS-B23 | Crank | | 2 |
| 24 | BH1/4 | Black Plastic Ball | 1/4" | 3 |
| 25 | JTM949EVS-B25 | Indicator Rod | | 1 |
| 26 | JTM949EVS-B26 | Indicator Rod Screw | | 1 |
| 27 | JTM949EVS-B27 | Upper Bushing | | 1 |
| 28 | JTM949EVS-B28 | Cluster Gear | | 1 |
| 29 | KF2R4445 | Key | 4x4x45 | 1 |
| 31 | JTM949EVS-B31 | Bevel Gear Shaft | | 1 |
| 32 | STW16 | Retaining Ring | STW16 | 2 |
| 33 | JTM949EVS-B33 | Bevel Gear Bushing | | 1 |
| 34 | JTM949EVS-B34 | Spacer | | 1 |
| 36 | JTM949EVS-B36 | Feed Drive Gear | | 1 |
| 36A | JTM949EVS-B36A | Feed Drive Gear Assembly (#36,37) | | |
| 37 | KF2R5512 | Key | 5x5x12 | 1 |
| 40 | JTM949EVS-B40 | Feed Drive Gear | | 1 |
| 41 | BB-BA78Z | Needle Bearing | BA78Z | 1 |
| 42 | JTM949EVS-B42 | Bushing | | 1 |
| 43 | JTM949EVS-B43 | Worm | | 1 |
| 44 | JTM949EVS-B44 | Feed Worm Shaft Bushing | | 1 |
| 47 | JTM949EVS-B47 | Bevel Gear Thrust Spacer | | 1 |
| 48 | JTM949EVS-B48 | Bushing | | 2 |
| 49 | JTM949EVS-B49 | Feed Reverse Bevel Gear | | 2 |
| 50 | JTM949EVS-B50 | Feed Reverse Clutch | | 1 |
| 55 | JTM949EVS-B55 | Reverse Clutch Rod | | 1 |
| 56 | TS-209203 | Spring Pin | 3x20 | 1 |
| 57 | JTM949EVS-B57 | Feed Worm Shaft | | 1 |
| 59 | 5302611 | Spring Pin | 3x12 | 2 |
| 60 | JTM949EVS-B60 | Feed Shift Rod | | 1 |
| 61 | TS-1522031 | Socket Set Screw | M5x10 | 1 |
| 62 | KF2R3315 | Key | 3x3x15 | 1 |
| 63 | JTM949EVS-B63 | Feed Gear Shift Fork | | 1 |
| 64 | JTM949EVS-B64 | Cluster Gear Shift Crank | | 1 |
| 66 | JTM949EVS-B66 | Cluster Gear Cover | | 1 |
| 67 | TS-1502021 | Hex Socket Cap Screw | M5x10 | 4 |
| 69 | JTM949EVS-B69 | Lock Block | | 1 |
| 70 | 2210-266 | Retaining Ring | STW30 | 1 |
| 71 | JTM949EVS-B71 | Spring | 10x20 | 1 |
| 72 | JTM949EVS-B72 | Quill Housing | 105mm | 1 |

| Index No | Part No | Description | Size | Qty |
|---|---|---|---|---|
| 73 | TS-1502081 | Hex Socket Cap Screw | M5x35 | 2 |
| 74 | JTM949EVS-B74 | Clutch Ring Pin | | 2 |
| 75 | JTM949EVS-B75 | Clutch Ring | | 1 |
| 76 | 5302731 | Socket Set Screw | M8x6 | 2 |
| 77 | JTM949EVS-B77 | Handle | | 1 |
| 78 | JTM949EVS-B78 | Overload Clutch Lockout | | 1 |
| 79 | JTM949EVS-B79 | Safety Clutch Spring | | 1 |
| 80 | JTM949EVS-B80 | Overload Clutch | | 1 |
| 80A | JTM949EVS-B80A | Overload Clutch Assembly (#78,80,81) | | |
| 81 | JTM949EVS-B81 | Overload Clutch Sleeve | | 1 |
| 82 | KF2R5516 | Key | 5x5x16 | 1 |
| 83 | TS-1532052 | Pan Head Machine Screw | M4x16 | 3 |
| 85 | TS-1523031 | Socket Set Screw | M6x10 | 2 |
| 86 | JTM949EVS-B86 | Worm Shaft | | 1 |
| 87 | TS-1523011 | Set Screw | M6x6 | 1 |
| 88 | JTM949EVS-B88 | Spring | | 1 |
| 89 | JTM949EVS-B89 | Spring Plunger | | 1 |
| 90 | JTM949EVS-B90 | Pinion Shaft | | 1 |
| 91 | JTM949EVS-B91 | Spacer | | 1 |
| 92 | JTM949EVS-B92 | Overload Clutch Worm Gear | | 1 |
| 93 | JTM949EVS-B93 | Overload Clutch Ring | | 1 |
| 94 | STW22 | Retaining Ring | STW22 | 1 |
| 95 | JTM949EVS-B95 | Worm Gear | | 1 |
| 96 | JTM949EVS-B96 | Trip Lever | | 1 |
| 96-1 | GA7X-122 | Spring Pin | Ø5x20 | 1 |
| 97 | JTM949EVS-B97 | Washer | | 1 |
| 98 | STW10 | Retaining Ring | STW10 | 1 |
| 99 | JTM949EVS-B99 | Clutch Arm Cover | | 1 |
| 100 | TS-1523051 | Socket Set Screw | M6x16 | 1 |
| 101 | TS-2311061 | Hex Nut | M6 | 1 |
| 102 | 5625391 | Spring Pin | Ø5x16 | 1 |
| 103 | JTM949EVS-B103 | Cam Rod | | 1 |
| 104 | JTM949EVS-B104 | Trip Handle | | 1 |
| 105 | 5302731 | Socket Set Screw | M8x6 | 1 |
| 106 | JTM949EVS-B106 | Feed Trip Bracket | | 1 |
| 107 | TS-1503051 | Hex Socket Cap Screw | M6x20 | 2 |
| 108 | JTM949EVS-B108 | Plunger | | 1 |
| 109 | KF2R3312 | Key | 3x3x12 | 1 |
| 110 | JTM949EVS-B110 | Feed Reverse Stud Bolt | | 1 |
| 110A | JTM949EVS-B110A | Feed Reverse Stud Assembly (#110,111,112) | | |
| 111 | JTM949EVS-B111 | Feed Reverse Stud | | 1 |
| 112 | ETW6 | Retaining Ring | ETW6 | 1 |
| 113 | JTM949EVS-B113 | Handwheel Clutch | | 1 |
| 114 | SB-3/16 | Steel Ball | 3/16" | 2 |
| 115 | JTM949EVS-B115 | Spring | | 2 |
| 116 | JTM949EVS-B116 | Lever | | 1 |
| 117 | JTM949EVS-B117 | Spring Pin | Ø3x16 | 1 |
| 118 | JTM949EVS-B118 | Cam Rod Sleeve Assembly | | 1 |
| 119 | TS-1523011 | Socket Set Screw | M6x6 | 2 |
| 120 | JTM949EVS-B120 | Flat Washer | Ø13 | 4 |
| 121 | JTM949EVS-B121 | Trip Plunger | | 1 |
| 122 | JTM949EVS-B122 | Adjustable Spring | | 1 |
| 123 | JTM949EVS-B123 | Bushing | | 1 |
| 124 | JTM949EVS-B124 | Feed Trip Plunger | | 1 |
| 125 | JTM949EVS-B125 | Handwheel | | 1 |
| 125A | JTM949EVS-B125A | Handwheel Assembly (#125,126) | | |
| 126 | JTM949EVS-B126 | Handle | | 1 |
| 127 | JTM949EVS-B127 | Spindle | R8 | 1 |
| 128 | JTM949EVS-B128 | Quill Skirt | | 1 |
| 129 | JTM949EVS-B129 | Lock Nut | M35 | 1 |
| 130 | JTM949EVS-B130 | Spring Cover | | 1 |

| Index No | Part No | Description | Size | Qty |
|---|---|---|---|---|
| 131 | BB-6206ZZ | Ball Bearing | 6206ZZ | 1 |
| 132 | JTM949EVS-B132 | Hub Sleeve | | 1 |
| 133 | JTM949EVS-B133 | Nose Piece | | 1 |
| 134 | JTM949EVS-B134 | Spindle Shield | | 1 |
| 135 | BB-7207C | Ball Bearing | 7207C | 2 |
| 136 | JTM949EVS-B136 | Bearing Spacer (large) | | 1 |
| 136A | JTM949EVS-B136A | Bearing Spacer Assembly (#136,137) | | |
| 137 | JTM949EVS-B137 | Bearing Spacer (small) | | 1 |
| 138 | JTM949EVS-B138 | Hub | | 1 |
| 139 | TS-0270011 | Socket Set Screw | 5/16"x1/4" | 1 |
| 140 | TS-1523011 | Socket Set Screw | M6x6 | 1 |
| 141 | JTM949EVS-B141 | Pinion Shaft Hub | | 1 |
| 142 | JTM949EVS-B142 | Quill | | 1 |
| 143 | TS-1540021 | Hex Nut | M4 | 1 |
| 144 | TS-1521071 | Socket Set Screw | M4x20 | 1 |
| 145 | JTM949EVS-B145 | Feed Trip Lever | | 1 |
| 146 | JTM949EVS-B146 | Trip Lever Pin | | 1 |
| 147 | KF2R5525 | Key | 5x5x25 | 1 |
| 148 | JTM949EVS-B148 | Quill Lock Sleeve | | 1 |
| 148-1 | JTM949EVS-B148-1 | Spring | | 1 |
| 149 | JTM949EVS-B149 | Lock Handle | | 1 |
| 150 | TS-1533032 | Pan Head Screw | M5x10 | 2 |
| 151 | JTM949EVS-B151 | Washer | | 1 |
| 152 | JTM949EVS-B152 | T-type Pin | | 1 |
| 153 | JTM949EVS-B153 | Quill Lock Sleeve | | 1 |
| 154 | JTM949EVS-B154 | Quill Pinion Shaft | | 1 |
| 154A | JTM949EVS-B154A | Quill Pinion Shaft Assembly (#152,154) | | |
| 155 | JTM949EVS-B155 | T-Bolt Assembly | | 4 |
| 156 | JTM949EVS-B156 | Spacer | | 4 |
| 157 | JTM949EVS-B157 | Lock Nut | | 4 |
| 158 | TS-2171012 | Pan Head Screw | M4x6 | 2 |
| 159 | JTM949EVS-B159 | Micrometer Scale | | 1 |
| 160 | TS-0209032 | Hex Socket Cap Screw | 3/8"-24UNFx3/4" | 1 |
| 162 | JTM949EVS-B162 | Micrometer Nut | | 1 |
| 163 | JTM949EVS-B163 | Quill Stop Knob | | 1 |
| 164 | JTM949EVS-B164 | Quill Micro-Screw | | 1 |
| 165 | TS-1502051 | Hex Socket Cap Screw | M5x20 | 1 |
| 166 | TS-1540031 | Hex Nut | M5 | 1 |
| 171 | KF2R4418 | Key | 4x4x18 | 1 |

## 13.3.1 **JTM-949EVS Base Machine – Exploded View**

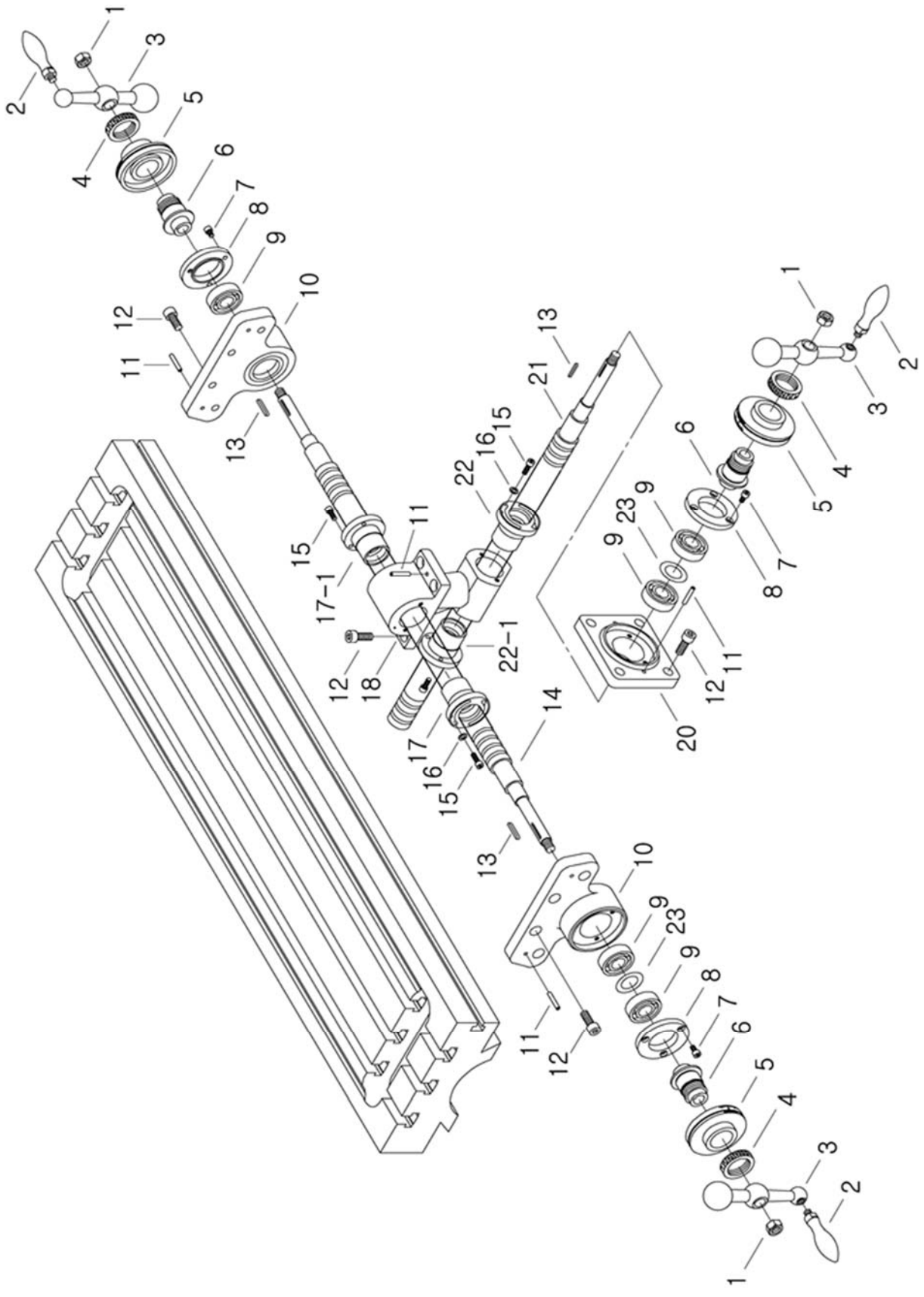


## 13.3.2 **JTM-949EVS Base Machine – Parts List**

| Index No | Part No | Description | Size | Qty |
|---|---|---|---|---|
| 1 | TS-1504061 | Hex Socket Cap Screw | M8x30L | 2 |
| 2 | JTM949EVS-C02 | Worm | | 1 |
| 3 | JTM949EVS-C03 | Ram Adapter | | 1 |
| 3-1 | JTM949EVS-C03-1 | Lock Stud | | 1 |
| 4 | STW28 | Retaining Ring | STW28 | 2 |
| 5 | JTM949EVS-C05 | Washer | | 1 |
| 6 | JTM949EVS-C06 | Adapter Scale | | 1 |
| 7 | JTM949EVS-C07 | Worm | | 1 |
| 8 | JTM949EVS-C08 | Worm Thrust Washer | | 1 |
| 9 | JTM949EVS-C09 | Shaft | | 1 |
| 10 | KF2R5540 | Key | 5x5x40L | 1 |
| 11 | JTM949EVS-C11 | Ram | | 1 |
| 12 | JTM949EVS-C12 | Angle Scale | | 1 |
| 13 | JTM949EVS-C13 | Adapter Shaft | | 1 |
| 14 | WP13 | Washer | Ø13 | 4 |
| 15 | JTM949EVS-C15 | Adapter Locking Bolt | M12x205L | 3 |
| 16 | JTM949EVS-C16 | Turret | | 1 |
| 17 | SNH12L165 | Hex Cap Screw | M12x165L | 4 |
| 18 | JWS35X-222 | Socket Set Screw | M8x30L | 1 |
| 19 | JTM949EVS-C19 | Turret Gib | | 1 |
| 20 | JTM949EVS-C20 | Ram Lock Plunger | 10x30L | 2 |
| 21 | JTM949EVS-C21 | Handle | M12x25L | 2 |
| 22 | JTM949EVS-C22 | Ram Pinion | | 1 |
| 25 | JTM1055-B13 | Socket Set Screw | M10x60L | 2 |
| 26 | TS-2311101 | Hex Nut | M10 | 2 |
| 27 | JTM949EVS-C27 | Spider | | 1 |
| 28 | JTM949EVS-C28 | Column | | 1 |
| 29 | JTM949EVS-C29 | Table (Inch) | 9"x49" | 1 |
| 30 | JTM949EVS-C30 | Nut | | 2 |
| 31 | JTM949EVS-C31 | Bushing | | 2 |
| 32 | TS-1505041 | Hex Socket Cap Screw | M10x30L | 3 |
| 33 | TS-1505021 | Hex Socket Cap Screw | M10x20L | 2 |
| 34 | JTM949EVS-C34 | Gib Adjusting Screw | M8x37L | 6 |
| 35 | JTM949EVS-C35 | Stop Block | | 1 |
| 36 | JTM949EVS-C36 | Table Gib | | 1 |
| 37 | JTM949EVS-C37 | Wiper | | 2 |
| 38 | JTM949EVS-C38 | Table Lock Plunger | 16mm | 1 |
| 38-1 | JTM949EVS-C38-1 | Table Lock Plunger | 13mm | 1 |
| 39 | JTM949EVS-C39 | Handle | M12x25L | 5 |
| 40 | JTM949EVS-C40 | Saddle Gib | | 1 |
| 41 | JTM949EVS-C41 | Chip Guard (Top) | 360mm L | 1 |
| 42 | TS-2311101 | Hex Nut | M10 | 1 |
| 43 | JTM949EVS-C43 | Saddle | | 1 |
| 44 | JTM949EVS-C44 | Washer | | 1 |
| 45 | JTM949EVS-C45 | Knee Wiper (left) | | 1 |
| 46 | JTM949EVS-C46 | Knee Gib | | 1 |
| 47 | JTM949EVS-C47 | Knee Wiper (right) | | 1 |
| 48 | JTM949EVS-C48 | Chip Guard (Bottom) | 580mm L | 1 |
| 49 | JTM949EVS-C49 | Chip Guard (Middle) | 470mm L | 1 |
| 50 | JTM949EVS-C50 | Knee | | 1 |
| 51 | TS-1505051 | Hex Socket Cap Screw | M10x35L | 2 |
| 51-1 | TS-2361101 | Lock Washer | M10 | 2 |
| 52 | JTM949EVS-C52 | Elevating Screw Housing | | 1 |
| 53 | JTM949EVS-C53 | Elevating Nut (Inch) | Ø32 x 5 TPI | 1 |
| 54 | TS-1503041 | Hex Socket Cap Screw | M6x16L | 3 |
| 55 | TS-0561052 | Hex Nut | 1/2-20UNF | 1 |
| 56 | KF2R5525 | Key | 5x5x25L | 1 |
| 57 | TS-0680061 | Washer | Ø13 | 1 |
| 58 | JTM949EVS-C58 | Bevel Gear | 36T | 1 |
| 59 | BB-6205ZZ | Ball Bearing | 6205ZZ | 2 |

| Index No | Part No | Description | Size | Qty |
|---|---|---|---|---|
| 60 | BTH51305 | Thrust Bearing | 51305 | 1 |
| 61 | JTM949EVS-C61 | Lead Screw (Inch) | Ø32 x 5 tpi (545) | 1 |
| 62 | JTM949EVS-C62 | Handle | | 1 |
| 63 | JTM949EVS-C63 | Elevating Crank | | 1 |
| 64 | JTM949EVS-C64 | Clutch Insert | | 1 |
| 65 | JTM949EVS-C65 | Dial Lock Nut | | 1 |
| 66 | JTM949EVS-C66 | Dial (Inch) | 100/0.001" | 1 |
| 67 | JTM949EVS-C67 | Dial Holder | | 1 |
| 68 | JTM949EVS-C68 | Bearing Housing | | 1 |
| 69 | BB-6204ZZ | Ball Bearing | 6204ZZ | 1 |
| 70 | JTM949EVS-C70 | Bearing Seat | | 1 |
| 71 | KF2R4418 | Key | 4x4x18L | 1 |
| 72 | JTM949EVS-C72 | Elevating Shaft | 480L | 1 |
| 73 | BB-6204ZZ | Ball Bearing | 6204ZZ | 1 |
| 74 | JTM949EVS-C74 | Bevel Gear | 18T | 1 |
| 75 | JTM949EVS-C75 | Knee Lock Plunger | 35L | 1 |
| 76 | AP2-16 | Spring Pin | Ø6x25L | 1 |
| 77 | JTM949EVS-C77 | Saddle Lock Plunger | 140mm | 1 |
| 78 | TS-1523021 | Socket Set Screw | M6x8L | 2 |
| 80 | RN2L6 | Rivet | Ø2x6L | 12 |
| 81 | JTM949EVS-C81 | Turret Scale | | 1 |
| 82 | JTM949EVS-C82 | T-Rubber | 16x32mm | 6 |
| 83 | TS-2246122 | Socket Head Button Screw | M6x12L | 6 |
| 84 | JTM949EVS-C84 | Side Cover | | 1 |
| 85 | SH(PT)1/2B | Oil Plug | 1/2"PT | 3 |
| 86 | JTM949EVS-C86 | Cover | | 1 |
| 87 | JTM949EVS-C87 | Strainer Net | | 2 |
| 88 | TS-2361121 | Spring Washer | Ø12 | 5 |
| 97 | TS-2245102 | Socket Head Button Screw | M5x10L | 22 |
| 98 | JTM949EVS-C98 | Lifting Ring | 3/4” | 1 |
| 99 | JTM949EVS-C99 | Worm Thrust Washer | | 1 |
| 100 | JTM949EVS-C100 | Collar | | 1 |
| 101 | JTM949EVS-C101 | Pleated Way Cover | | 1 |
| 102 | JTM949EVS-C102 | Knee Lock Plunger | 32 mm | 1 |
| 103 | JTM949EVS-C103 | Flat Way Cover | | 1 |
| 104 | TS-1503051 | Hex Socket Cap Screw | M6x20L | 6 |
| 105 | KF2R3320 | Key | 3x3x20 | 1 |
| 106 | JTM949EVS-C106 | Chip Pan | | 1 |
| 107 | TS-1503031 | Hex Socket Cap Screw | M6x12L | 4 |
| 108 | TS-1550041 | Flat Washer | M6 | 2 |
| 109 | LM000002 | ID/Warning Label (JTM-949EVS/230) | | 1 |
| 110 | JET-254 | JET Logo | 254x105 mm | 2 |
| | JTM9494EVS-TB | Tool Box Kit Complete (not shown) | | |

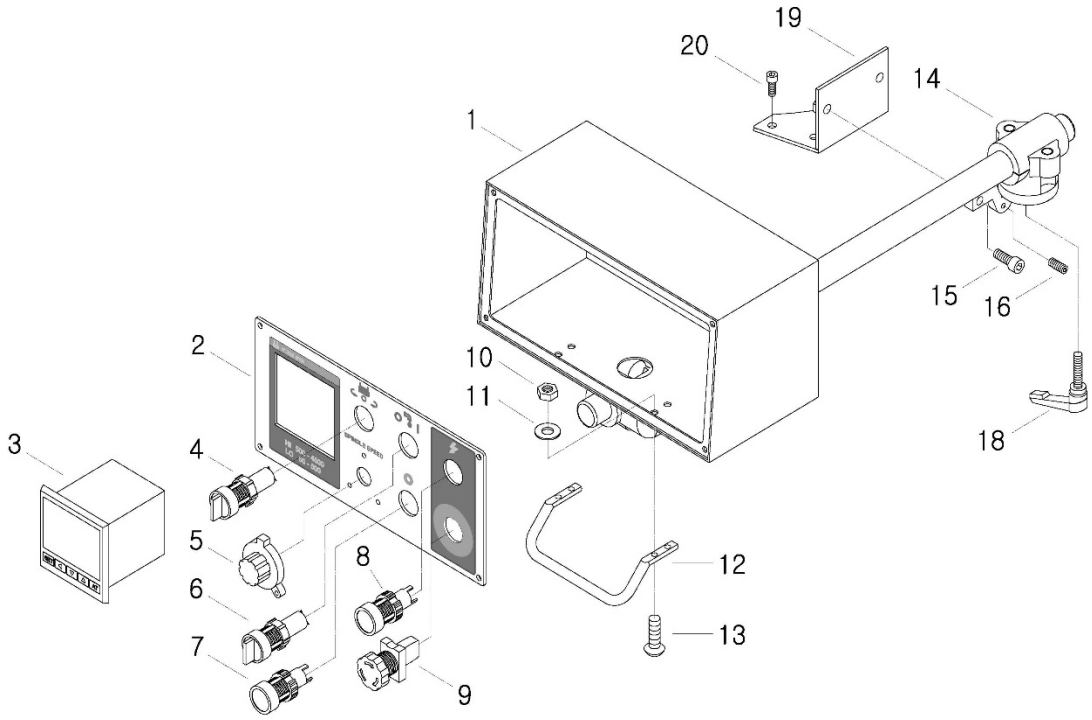
### 13.5.1 **JTM-949EVS Table Assembly – Exploded View**



## 13.5.2 **JTM-949EVS Table Assembly – Parts List**

| Index No | Part No | Description | Size | Qty |
|---|---|---|---|---|
| 1 | TS-0561052 | Hex Nut | 1/2-20UNF | 3 |
| 2 | JTM949EVS-D02 | Handle | 3/8" | 3 |
| 3 | JTM949EVS-D03 | Ball Crank | | 3 |
| 4 | JTM949EVS-D04 | Dial Nut | | 3 |
| 5 | JTM949EVS-D05 | Dial (Inch) | 200/0.001" | 3 |
| 6 | JTM949EVS-D06 | Dial Holder | | 3 |
| 7 | TS-1503031 | Hex Socket Cap Screw | M6x12 | 9 |
| 8 | JTM949EVS-D08 | Cover | | 3 |
| 9 | BB-6204 | Ball Bearing | 6204ZZ | 5 |
| 10 | JTM949EVS-D10 | Bearing Bracket | | 2 |
| 11 | 5311251 | Spring Pin | Ø5x30 | 6 |
| 12 | TS-1505011 | Hex Socket Cap Screw | M10x16 | 16 |
| 13 | KF2R3325 | Key | 3x3x25 | 3 |
| 14 | JTM949EVS-D14 | Longitudinal Feed Screw | Ø32 x 5 TPI (1505) | 1 |
| 15 | TS-1503041 | Hex Socket Cap Screw | M6x16 | 10 |
| 16 | TS-1550041 | Flat Washer | M6 | 4 |
| 17 | JTM949EVS-D17 | Longitudinal Feed Adjustment Nut (inch) | Ø32 x 5 TPI | 1 |
| 17-1 | JTM949EVS-D17-1 | Longitudinal Feed Nut (inch) | Ø32 x 5 TPI | 1 |
| 18 | JTM949EVS-D18 | Feed Nut Bracket | | 1 |
| 20 | JTM949EVS-D20 | Cross Feed Bearing Bracket | | 1 |
| 21 | JTM949EVS-D21 | Cross Feed Screw | Ø32 x 5 TPI (591) | 1 |
| 22 | JTM949EVS-D22 | Cross Feed Adjustment Nut (inch) | Ø32 x 5 TPI | 1 |
| 22-1 | JTM949EVS-D22-1 | Cross Feed Nut (inch) | Ø32 x 5 TPI | 1 |
| 23 | JTM949EVS-D23 | Adjusting Washer | Ø45xØ34x0.15t | 2 |

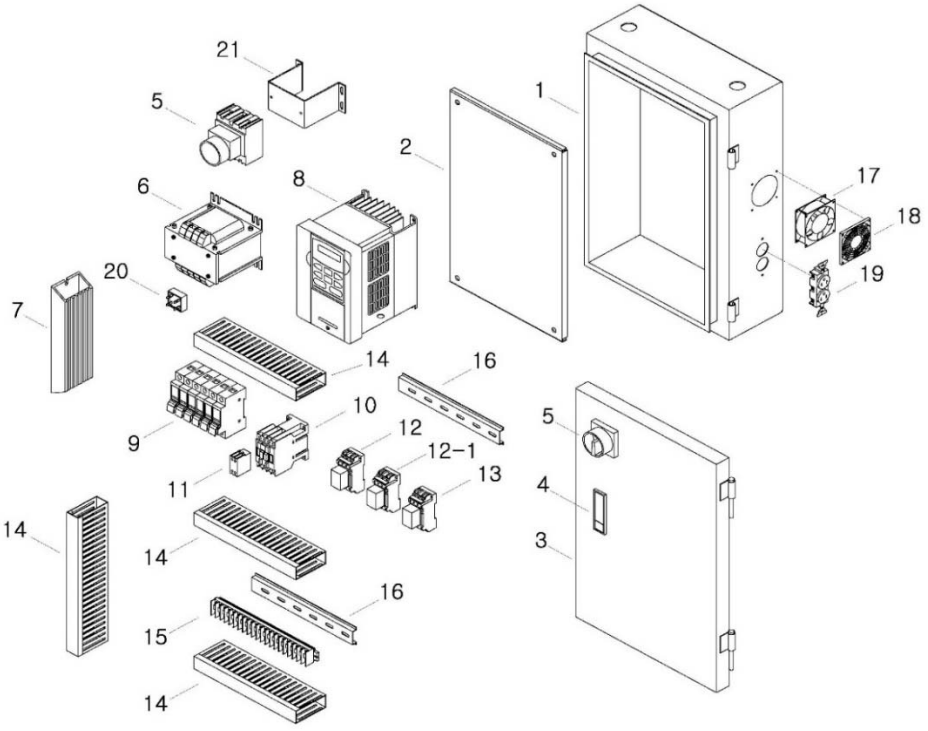
## 13.7.1 **JTM-949EVS/JTM-1050EVS Control Panel Assembly – Exploded View**




## 13.7.2 **JTM-949EVS/JTM-1050EVS Control Panel Assembly – Parts List**

| Index No | Part No | Description | Size | Qty |
|---|---|---|---|---|
| | JTM949EVS-CBA | Control Box Assembly (includes #1~9 and 21) | | 1 |
| 1 | JTM949EVS-E01 | Control Box | | 1 |
| 2 | LM000004 | Control Panel | | 1 |
| 3 | JTM949EVS-E03 | Display | | 1 |
| 4 | JTM949EVS-E04 | F/R Select Switch | | 1 |
| 5 | JTM949EVS-E05 | Speed Adjuster | | 1 |
| 6 | JTM949EVS-E06 | Coolant Pump Switch | | 1 |
| 7 | JTM949EVS-E07 | Spindle Stop Button | | 1 |
| 8 | JTM949EVS-E08 | Power Start Button | | 1 |
| 9 | JTM949EVS-E09 | Emergency Switch | | 1 |
| 10 | TS-1540031 | Hex Nut | M5 | 4 |
| 11 | TS-1550031 | Flat Washer | Ø5 | 4 |
| 12 | JTM949EVS-E12 | Handle | | 1 |
| 13 | TS-2245162 | Socket Head Button Screw | M5x16 | 4 |
| 14 | JTM949EVS-E14 | Support Rod Unit | | 1 |
| 15 | TS-1504051 | Hex Socket Cap Screw | M8X25 | 2 |
| 16 | TS-1523031 | Socket Set Screw | M6x10 | 3 |
| 17 | TS-1550071 | Flat Washer | Ø10 | 1 |
| 18 | JTM949EVS-E18 | Lock Handle | M12x35 | 1 |
| 19 | JTM949EVS-E19 | Bracket | | 1 |
| 20 | TS-1523051 | Hex Socket Cap Screw | M6x16L | 3 |
| 21 | JTM949EVS-A101 | Cable (Control Panel to Elec Box) – not shown | | 1 |

## 13.8.1 **JTM-949EVS/JTM-1050EVS Electrical Box – Exploded View**

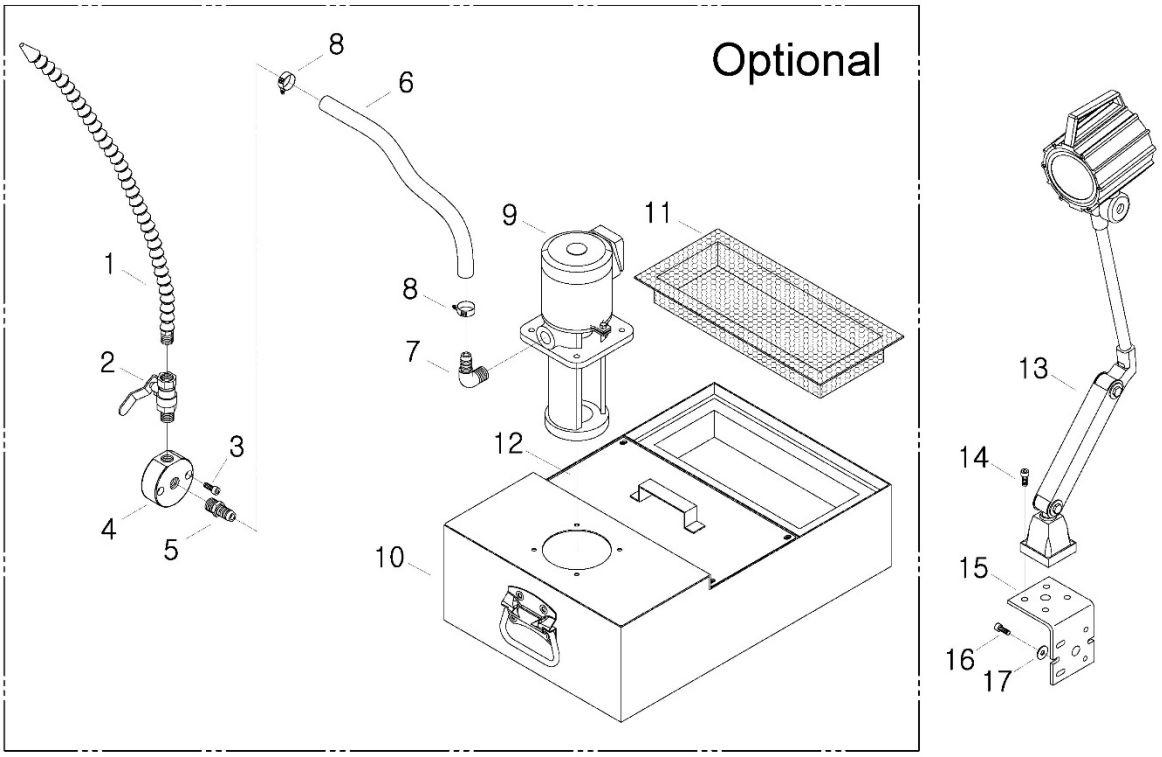



## 13.8.2 **JTM-949EVS/JTM-1050EVS Electrical Box – Parts List**

| Index No | Part No | Description | Size | Qty |
|---|---|---|---|---|
| 1 | JTM949EVS-F01 | Electrical Cabinet (RE: JTM949EVS-F21) | | 1 |
| 2 | JTM949EVS-F02 | Electrical Plate (RE: JTM949EVS-F21) | | 1 |
| 3 | JTM949EVS-F03 | Electrical Cabinet Door (RE: JTM949EVS-F21). | | 1 |
| | JTM949EVS-EBC | Electrical Box Compound (includes #1-3) | | 1 |
| 4 | JTM949EVS-F04 | Door Latch | | 1 |
| 5 | JTM949EVS-F05 | Door Switch | | 1 |
| 6 | JTM949EVS-F06 | Transformer | 400VA | 1 |
| 7 | JTM949EVS-F07 | Resistor | 300W, 100 Ω | 1 |
| 8 | JTM949EVS-F08 | Inverter | VFD-B 022B21A | 1 |
| | JTM949EVS4-F08 | Inverter | VFD022B43B | 1 |
| 9 | JTM949EVS-F09 | Fuse Base | | 6 |
| | JTM949EVS-F20A | Fuse (TC) | 25A | 3 |
| | JTM949EVS4-F12A | Fuse (TC) | 12A | 3 |
| | JTM949EVS-F2A | Fuse (220V) | 2A | 1 |
| | JTM949EVS-F5A | Fuse (110V) | 5A | 1 |
| | JTM949EVS-F5A | Fuse (24V) | 5A | 1 |
| 10 | JTM949EVS-F10 | Magnetic Contactor | TECO/CU-18 | 1 |
| 11 | JTM949EVS-F11 | Auxiliary Contactor | TECO/CUA-2 | 1 |
| 12 | JTM949EVS-F12 | Relay for Pump RMI A4524VAC | 24VAC | 1 |
| 12-1 | JTM949EVS-F12-1 | Relay For Power RM1A2024VAC | | 1 |
| 13 | JTM949EVS-F13 | Relay | 24VDC | 2 |
| 14 | JTM949EVS-F14 | Wire Casing | | 4 |
| 15 | JTM949EVS-F15 | Terminal Block | | 1 |
| 16 | JTM949EVS-F16 | Aluminum Rail | | 2 |
| 17 | JTM949EVS-F17 | Fan (RE: JTM949EVS-F22) | | 1 |
| 18 | JTM949EVS-F18 | Fan Cover (RE: JTM949EVS-F22) | | 1 |
| 19 | JTM949EVS-F19 | Electric Receptacle | | 1 |
| 20 | JTM949EVS-F20 | Rectifier | | 1 |
| 21 | JTM949EVS-F21 | Switch Bracket | | 1 |
| | JTM949EVS-F22 | Fan Assembly (#17,18) | | 1 |

## 13.9.1 **JTM-949EVS/JTM-1050EVS Coolant Pump (Optional) – Exploded View**

## 13.10.1 **JTM-949EVS/JTM-1050EVS Work Lamp – Exploded View**



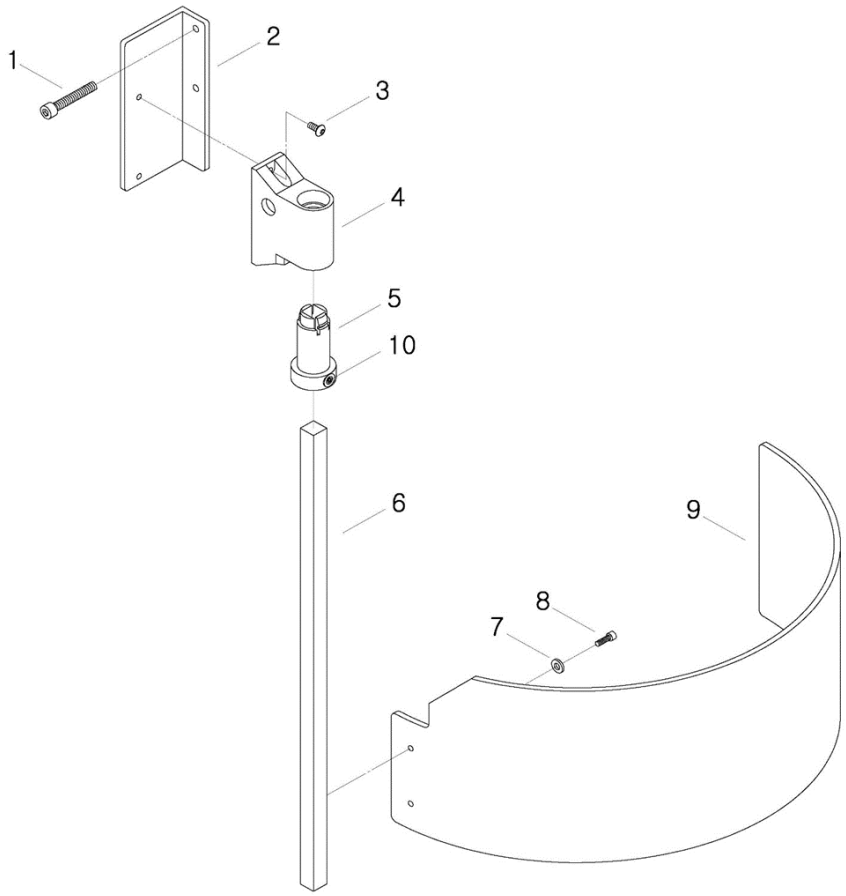

## 13.9.2 **JTM-949EVS/JTM-1050EVS Coolant Pump (Optional) – Parts List**

| Index No | Part No | Description | Size | Qty |
|---|---|---|---|---|
| | 660125 | Coolant Pump Kit (includes #1 thru 12) | | |
| 1 | JTM949EVS-G01 | Plastic Nozzle | | 1 |
| 2 | JTM949EVS-G02 | Valve | PT 3/8" x 1/2" | 1 |
| 3 | TS-1503091 | Hex Socket Cap Screw | M6 x 40 | 2 |
| 4 | JTM949EVS-G04 | Block | | 1 |
| 5 | JTM949EVS-G05 | Hose Fitting | PT 3/8" x 1/2" | 1 |
| 6 | JTM949EVS-G06 | Hose | 1/2" | 1 |
| 7 | JTM949EVS-G07 | Hose Fitting | PT 3/8" x 1/2" (90°) | 1 |
| 8 | JTM949EVS-G08 | Hose Clamp | 5/6" (11 ~ 20) | 2 |
| 9 | JTM949EVS-G09 | Coolant Pump | 1/8HP | 1 |
| 10 | JTM949EVS-G10 | External Coolant Tank | | 1 |
| 11 | JTM949EVS-G11 | Strainer | | 1 |
| 12 | JTM949EVS-G12 | Cover with handle | | 1 |

## 13.10.2 **JTM-949EVS/JTM-1050EVS Work Lamp – Parts List**

| | | | | |
|---|---|---|---|---|
| 13 | JTM949EVS-G13 | Work Lamp | 24V / LED | 1 |
| 14 | TS-1502041 | Hex Socket Cap Screw | M5X16 | 4 |
| 15 | JTM949EVS-G15 | Work Light Bracket | | 1 |
| 16 | TS-1503041 | Hex Socket Cap Screw | M6X16 | 6 |
| 17 | TS-1550041 | Flat Washer | M6 | 6 |
| 18 | JTM949EVS-G18 | LED Bulb (not shown) | 24V | 1 |

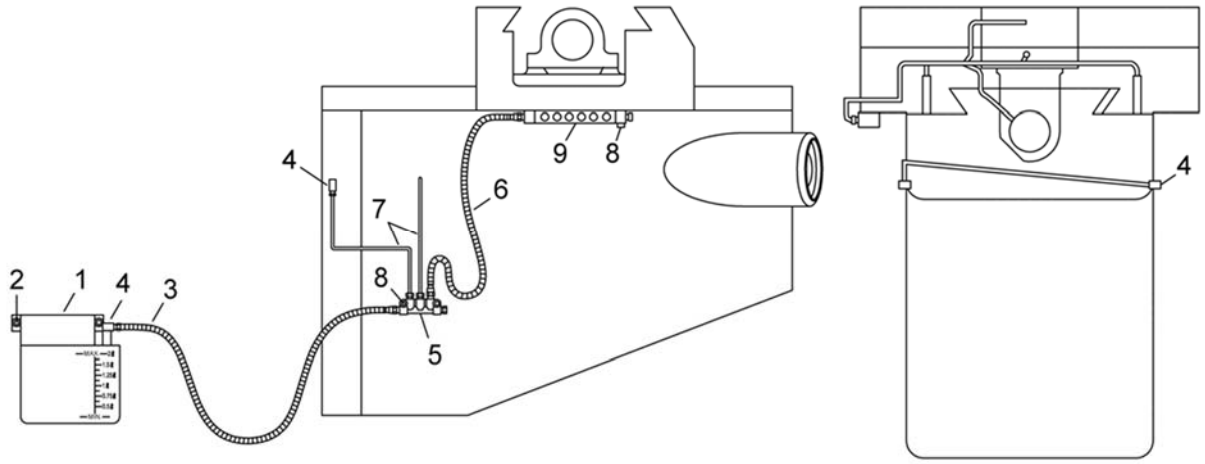
## 13.11.1 **JTM-949EVS/JTM-1050EVS Spindle Guard Assembly – Exploded View**




## 13.11.2 **JTM-949EVS/JTM-1050EVS Spindle Guard Assembly – Parts List**

| Index No | Part No | Description | Size | Qty |
|---|---|---|---|---|
| | JTM949EVS-SGA | Spindle Guard Assembly (#1 thru 9) | | |
| 1 | TS-1502101 | Hex Socket Cap Screw | M5x45 | 2 |
| 2 | JTM949EVS-H02 | Support Plate | | 1 |
| 3 | TS-2245102 | Socket Head Button Screw | M5x10 | 2 |
| 4 | JTM949EVS-H04 | Bushing Bracket (Re: JTM949EVS-H04A) | | 1 |
| | JTM949EVS-H04A | Bushing Bracket Assembly (includes #4,5) | | 1 |
| 5 | JTM949EVS-H05 | Bushing | | 1 |
| 6 | JTM949EVS-H06 | Support Rod | | 1 |
| 7 | TS-1550031 | Washer | Ø5 | 2 |
| 8 | TS-1502031 | Hex Socket Cap Screw | M5x12 | 2 |
| 9 | JTM949EVS-H09 | Spindle Guard | | 1 |
| 10 | TS-1522021 | Socket Set Screw | M5x8 | 1 |

## 13.12.1 **JTM-949EVS Lubrication System – Exploded View**




## 13.12.2 **JTM-949EVS Lubrication System – Parts List**

| Index No | Part No | Description | Size | Qty |
|---|---|---|---|---|
| 1 | JTM949EVS-J01 | Automatic Oiler | 2L, 0~180min | 1 |
| 2 | TS-1503061 | Hex Socket Cap Screw | M6x25L | 2 |
| 3 | JTM949EVS-J03 | Flexible Steel Tube | Ø4 | 1 |
| 4 | JTM949EVS-J04 | Elbow Adaptor | Ø4 | 3 |
| 5 | JTM949EVS-J05 | Oil Distributor | Ø4, 4 holes | 2 |
| 6 | JTM949EVS-J06 | Flexible Steel Tube | | 1 |
| 7 | JTM949EVS-J07 | Aluminum Pipe | Ø4 | 2 |
| 8 | TS-1502061 | Hex Socket Cap Screw | M5x25L | 4 |
| 9 | JTM949EVS-J09 | Oil Distributor | Ø4, 8 holes | 1 |
| | JTM949EVS-J05A | Oil Distributor Kit (incl. #3,5,6,9) | | |