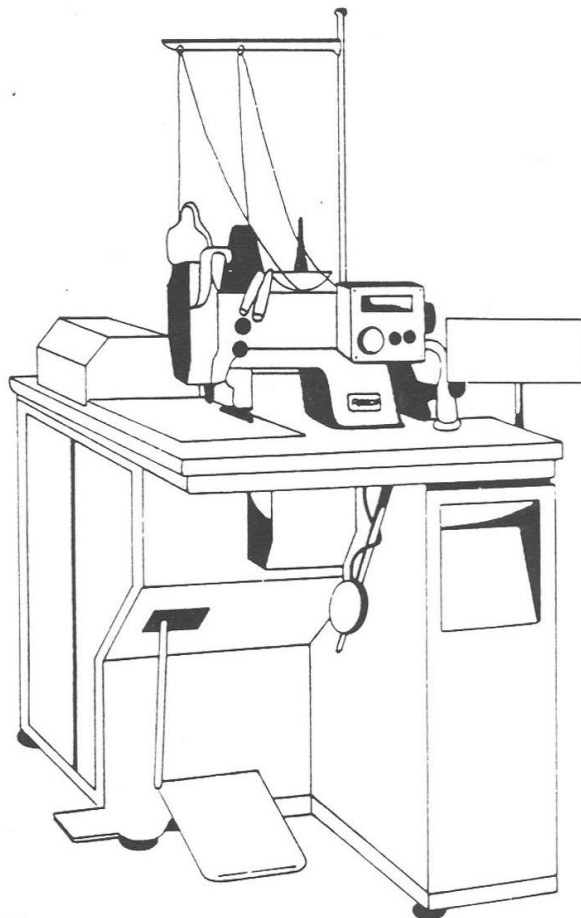


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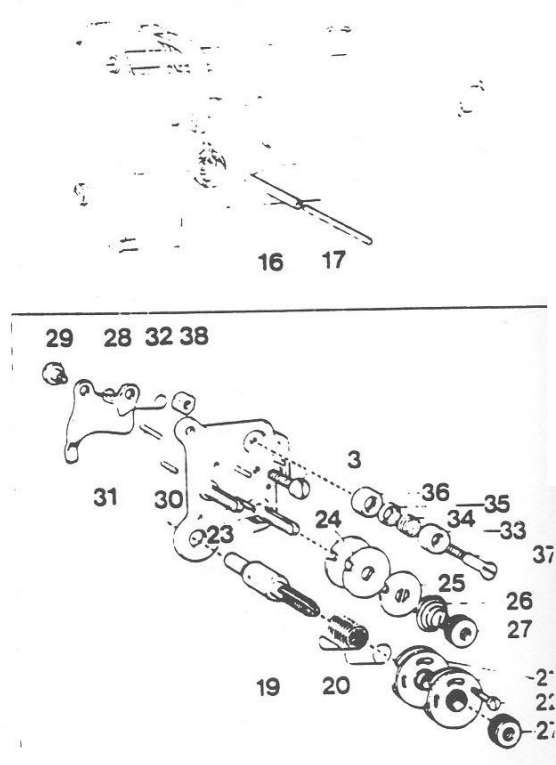
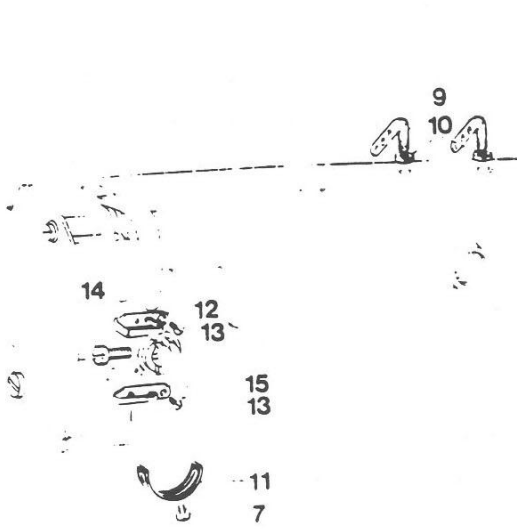
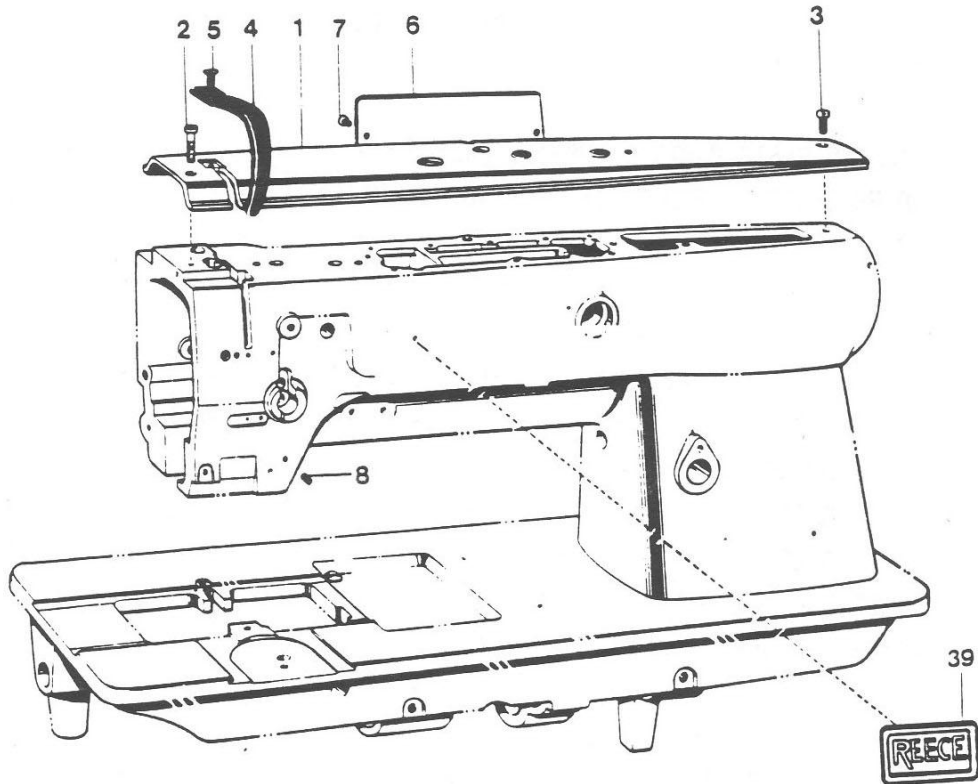


Illustrated Parts Manual

CONTENTS

| | Page |
|----------------------------------------------------------------------|------|
| MACHINE BASIC PARTS & THREAD TENSION | 1 |
| UPPER SHAFT & NEEDLE BAR ROCKING MECHANISM | 2 |
| ROTARY HOOK | 3 |
| LOWER SHAFT | 4 |
| LUBRICATION COMPONENTS | 5 |
| THREAD STAND, BOBBIN WINDER, BELT COVER | 6 |
| THREAD MONITOR | 7 |
| PATCH GUIDE MECHANISM | 8 |
| PHOTO OPTICS, TENSION RELEASE, LOCATING LIGHT, HINGE PARTS | 9 |
| FRAME & COVERS | 10 |
| TABLE TOP & ASSOCIATE PARTS | 11 |
| UPPER & LOWER THREAD TRIMMING PARTS | 12 |
| CENTER KNIFE ASSEMBLY | 13 |
| TAB KNIFE SUPPORT PARTS | 14 |
| TAB KNIFE DRIVE PARTS | 15 |
| CARRIAGE ASSEMBLY | 16 |
| CLAMPING & FOLDING PARTS | 17 |
| CARRIAGE DRIVE COMPONENTS | 18 |
| FOOT TREADLE ASSOCIATE PARTS | 19 |
| CONTROL PANELS, KNEE SWITCH, EPROM LIST | 20 |
| OPERATIONAL MAGNETIC SWITCH, RECEPTACLE BOX | 21 |
| MAIN POWER SUPPLY & DRIVE MOTOR | 22 |
| PNEUMATIC & HYDRAULIC PARTS | 23 |
| Series 46 CLAMPING & FOLDING PARTS | 24 |
| Series 46 PNEUMATIC VALVES, CONTROL PANELS, ELEVATOR PARTS | 25 |
| BITE GAUGE PARTS | 26 |
| BITE GAUGE PARTS 16,18,20 mm ONLY | 27 |
| TAB KNIFE GAUGE PARTS 16,18,20 mm | 28 |
| TROUSER PANEL STACKER | 29 |
| WORK REMOVER | 30 |
| TROUSER AIR EJECTOR | 31 |
| ACCESSORY PARTS(1) | 32 |
| ACCESSORY PARTS(2) | 33 |
| TOOLS, SPARE PARTS | 34 |
| BITE SIZE CONVERSION CHART 8,10,12,14 mm | 35 |
| BITE SIZE CONVERSION CHART 16,18,20 mm | 36 |
| PARTS INDEX | 37 |

1



MACHINE BASIC PARTS & THREAD TENSION

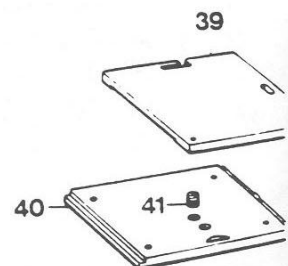
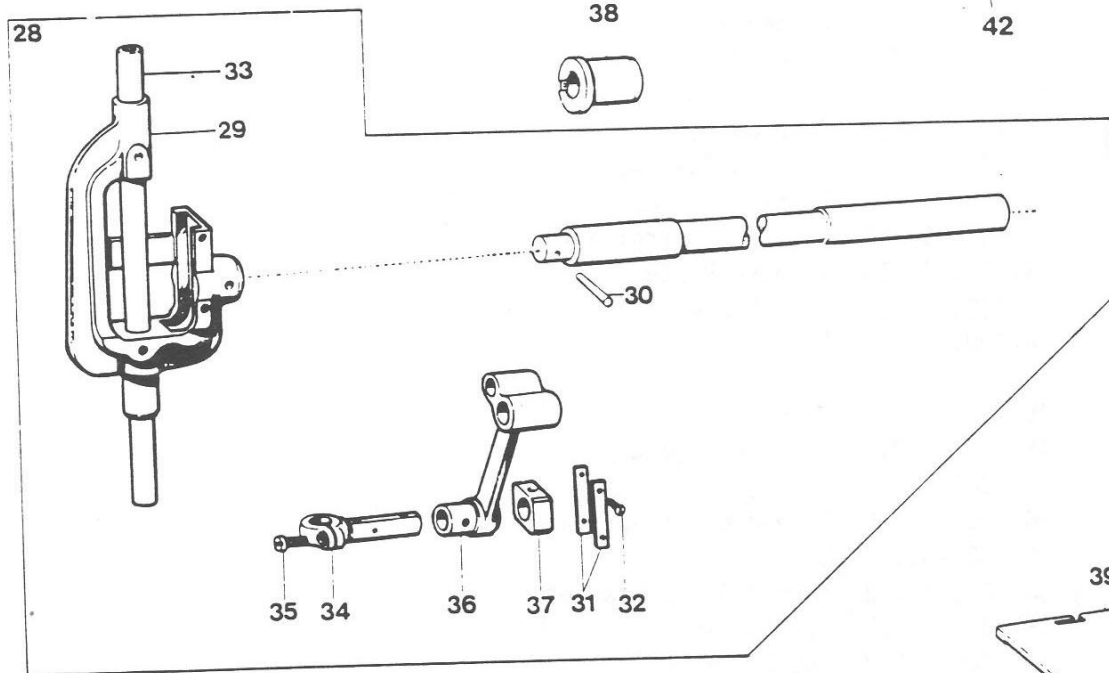
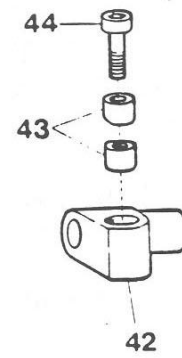
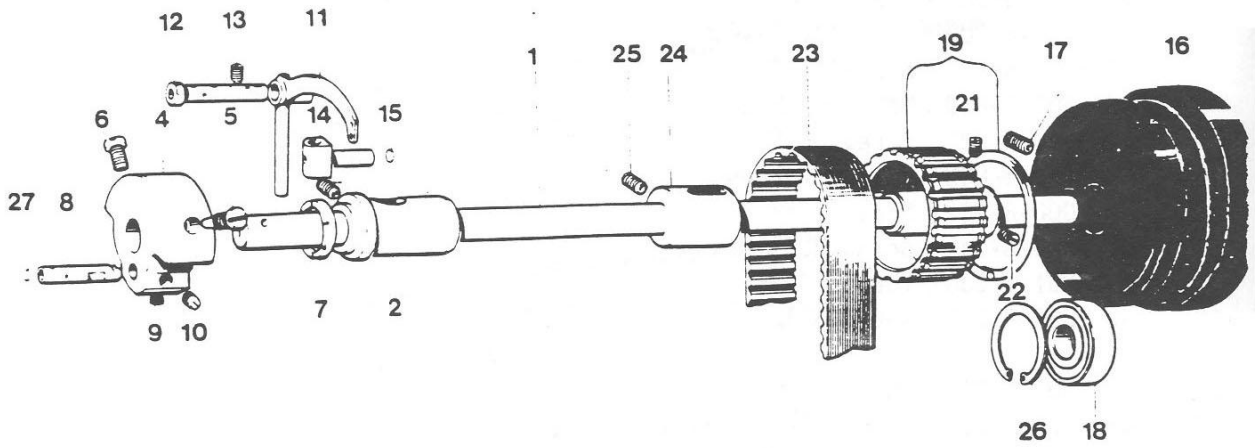
| Det. No | Parts No | Description |
|---------|---------------|--------------------------------|
| 1 | 46-1001-5-001 | Arm Top Cover |
| 2 | 46-1000-8-200 | Screw(4.37-40×16) |
| 3 | 46-1000-8-201 | Screw(4.37-40×16) |
| 4 | 46-1001-5-000 | Take-up Cover |
| 5 | 46-1000-8-228 | Screw(4.76) |
| 6 | 46-1001-5-002 | Rear Cover |
| 7 | 46-1000-8-202 | Screw(3.57-40×6) |
| 8 | 46-1000-8-245 | Screw(4.37) |
| 9 | 46-1001-5-003 | Thread Guide |
| 10 | 46-1000-8-252 | Nut(5.95) |
| 11 | 46-1001-5-019 | Stop |
| 12 | 46-1001-5-020 | Thread Guide(Upper) |
| 13 | 46-1000-8-229 | Screw(3.57) |
| 14 | 46-1000-8-203 | Screw(3.57) |
| 15 | 46-1001-5-021 | Thread Guide(Center) |
| 16 | 46-1001-5-022 | Pipe |
| 17 | 46-1001-5-023 | Tension Release Bar |
| 18 | 46-1001-5-111 | Upper Tension Control Assembly |
| 19 | 46-1001-5-017 | Tension Stud |
| 20 | 46-1001-5-018 | Take-up Spring |
| 21 | 46-1001-5-016 | Spring Guide Assembly |
| 22 | 46-1000-8-204 | Screw(2.38) |
| 23 | 46-1001-5-110 | Tension Stud |
| 24 | 46-1001-5-011 | Tension Disc |
| 25 | 46-1001-5-010 | Tension Disc Washer |
| 26 | 46-1001-5-009 | Tension Spring |
| 27 | 46-1000-8-256 | Tension Control Nut |
| 28 | 46-1001-5-014 | Release Plate |
| 29 | 46-1000-8-224 | Stud Screw(3.57) |
| 30 | 46-1001-5-013 | Pin |
| 31 | 46-1001-5-012 | Pin |
| 32 | 46-1001-5-015 | Release Spring |
| 33 | 46-1001-5-005 | Cap |
| 34 | 46-1001-5-006 | Thread Guide Spring |
| 35 | 46-1001-5-007 | Disc |
| 36 | 46-1001-5-008 | Thread Guide Bracket |
| 37 | 46-1000-8-225 | Stud Screw |
| 38 | 46-1000-8-253 | Nut(3.57) |
| 39 | 05-1116-0-000 | Decal |

Revised 08/2006

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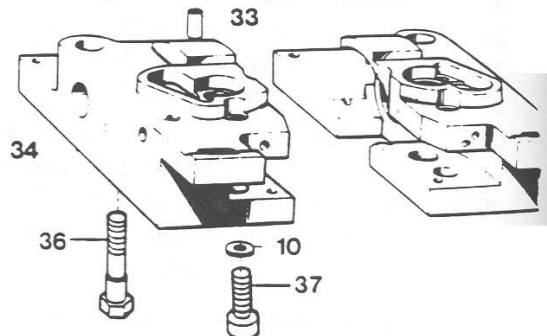
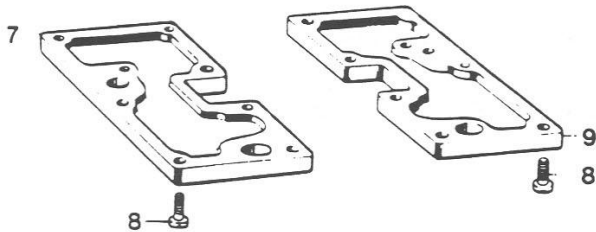
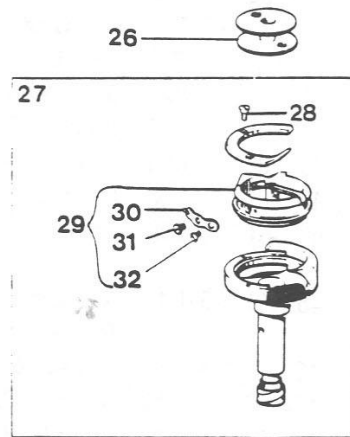
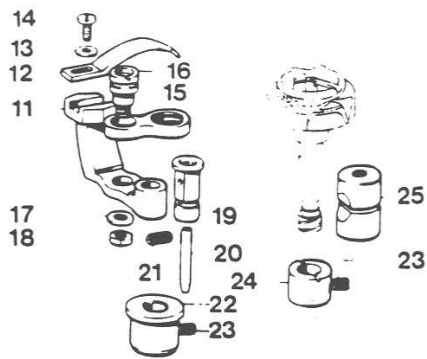
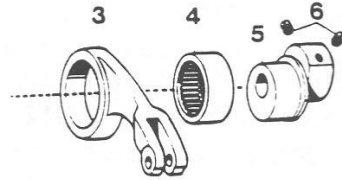
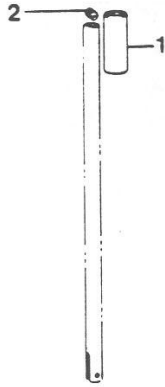
2



UPPER SHAFT & NEEDLE BAR ROCKING MECHANISM

| Det. No | Parts No | Description | Det. No | Parts No | Description |
|---------|---------------|----------------------------------------|---------|---------------|-----------------|
| 1 | 46-1001-5-036 | Upper Shaft | 41 | 46-1000-8-238 | Screw(5.16) |
| 2 | 46-1001-5-035 | Bushing(Left) | 42 | 46-1001-5-183 | Rock Shaft Stop |
| 3 | 46-1000-8-233 | Screw(5.95) | 43 | 46-1001-5-184 | Pinch Sleeve |
| 4 | 46-1001-5-033 | Counter Weight | 44 | 46-1000-9-753 | Screw(M6-1×30) |
| 5 | 46-1000-8-205 | Screw(7.14) | | | |
| 6 | 46-1000-8-206 | Screw(7.14) | | | |
| 7 | 46-1001-5-034 | Thrust Ring | | | |
| 8 | 46-1001-5-031 | Needle Bar Crank | | | |
| 9 | 46-1000-8-234 | Screw(6.35) | | | |
| 10 | 46-1000-8-235 | Screw(6.35) | | | |
| 11 | 46-1001-5-028 | Thread Take-up | | | |
| 12 | 46-1001-5-027 | Stud | | | |
| 13 | 46-1000-8-233 | Screw(5.95) | | | |
| 14 | 46-1001-5-029 | Take-up Slide Block | | | |
| 15 | 46-1001-5-030 | Pusher | | | |
| 16 | 46-1001-5-042 | Pulley | | | |
| 17 | 46-1000-8-233 | Screw(5.95) | | | |
| 18 | 46-1001-5-041 | Bearing(6204) | | | |
| 19 | 46-1001-5-039 | Timing Belt Wheel (Upper) Assembly | | | |
| 20 | ..... | ..... |  |  |  |
| 21 | 46-1000-8-236 | Screw(6.35×12) | | | |
| 22 | 46-1000-8-237 | Screw(6.35×12) | | | |
| 23 | 46-1001-5-038 | Timing Belt | | | |
| 24 | 46-1001-5-037 | Bushing (Center) | | | |
| 25 | 46-1000-8-233 | Screw(5.95) | | | |
| 26 | 46-1001-5-040 | Stop Ring | | | |
| 27 | 46-1001-5-032 | Pusher | | | |
| 28 | 46-1001-5-050 | Crank Rod Assembly | | | |
| 29 | 46-1001-5-048 | Needle Bar Support | | | |
| 30 | 46-1001-5-109 | Taper Pin | | | |
| 31 | 46-1001-5-049 | Needle Bar Guide Plate | | | |
| 32 | 46-1000-8-230 | Screw(2.38) | | | |
| 33 | 46-1001-5-044 | Needle Bar | | | |
| 34 | 46-1001-5-045 | Needle Bar Clamp | | | |
| 35 | 46-1000-8-207 | Screw(3.57-40×8) | | | |
| 36 | 46-1001-5-046 | Crank Rod | | | |
| 37 | 46-1001-5-047 | Guide Slide Block | | | |
| 38 | 46-1001-5-051 | Needle Bar Rock Shaft Bushing(Left) | | | |
| 39 | 46-1001-5-025 | Slide Plate(Right) | | | |
| 40 | 46-1001-5-026 | Slide Plate Front. Assembly | | | |

3



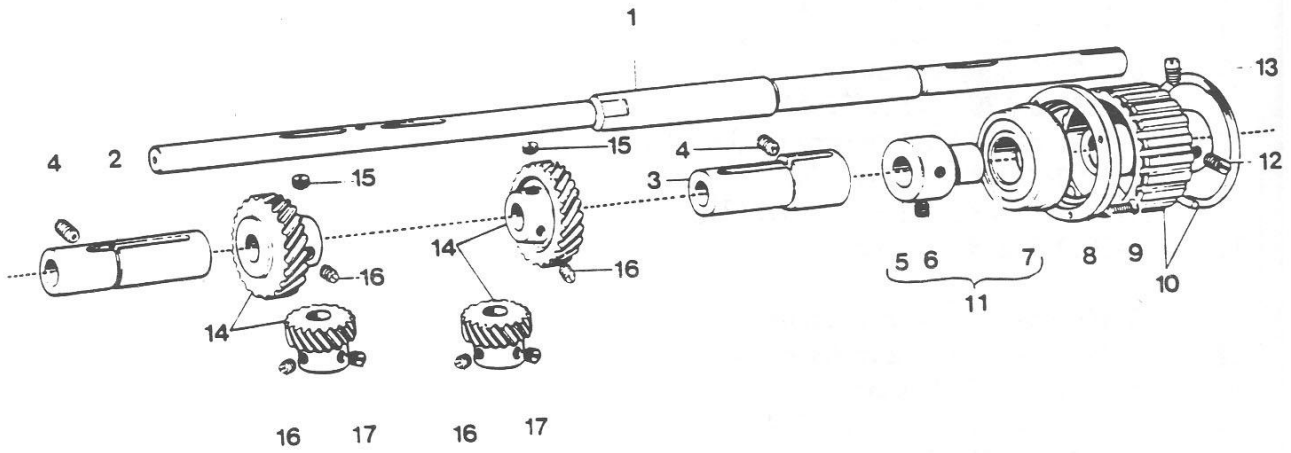
ROTARY HOOK

| Det. No | Parts No | Description |
|---------|---------------|-------------------------------------|
| 1 | 46-1001-5-054 | Bushing |
| 2 | 46-1000-8-289 | Screw(5.95) |
| 3 | 46-1001-5-056 | Connecting Rod |
| 4 | 46-1001-5-057 | Needle Bearing |
| 5 | 46-1001-5-058 | Eccentric Wheel |
| 6 | 46-1000-8-239 | Screw(5.95) |
| 7 | 46-1001-5-084 | Oil Reservoir(Left) |
| 8 | 46-1000-8-208 | Screw(4.76) |
| 9 | 46-1001-5-088 | Oil Reservoir(Right) |
| 10 | 46-1000-8-258 | Washer |
| 11 | 46-1001-5-069 | Opener Crank |
| 12 | 46-1001-5-068 | Bobbin Case Opener |
| 13 | 46-1000-8-259 | Washer |
| 14 | 46-1000-8-207 | Screw(3.57-40×8) |
| 15 | 46-1001-5-070 | Opener Link |
| 16 | 46-1001-5-071 | Link Stud Opener |
| 17 | 46-1000-8-257 | Washer(4.76) |
| 18 | 46-1000-8-254 | Nut(4.76) |
| 19 | 46-1001-5-072 | Opener Crank Stud |
| 20 | 46-1001-5-073 | Pipe |
| 21 | 46-1000-8-241 | Screw(4.76) |
| 22 | 46-1001-5-074 | Rotary Hook Shaft Bushing(Lower) |
| 23 | 46-1000-8-240 | Screw(4.76) |
| 24 | 46-1001-5-075 | Rotary Hook Shaft Bushing(Upper) |
| 25 | 46-1001-5-076 | Pinch Sleeve |
| 26 | 46-1001-5-081 | Bobbin |
| 27 | 46-1001-5-112 | Outer Rotary Hook Assembly |
| 28 | 46-1000-8-232 | Screw |
| 29 | 46-1001-5-079 | Inner Rotary Hook Assembly |
| 30 | 46-1001-5-078 | Adjusting Spring |
| 31 | 46-1000-8-209 | Adjusting Screw |
| 32 | 46-1000-8-210 | Screw |
| 33 | 46-1001-5-086 | Oil Pipe |
| 34 | 46-1001-5-082 | Rotary Hook Base(L) |
| 35 | 46-1001-5-087 | Rotary Hook Base(R) |
| 36 | 46-1000-6-195 | Screw(15/64-28×31) |
| 37 | 46-1000-6-197 | Screw(1/4-24×22) |

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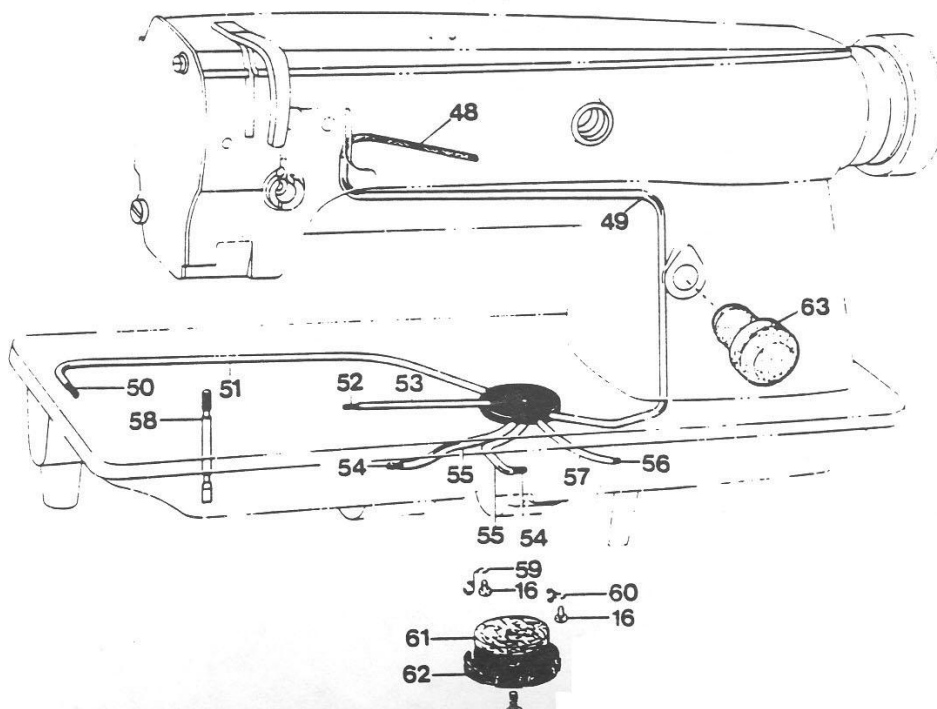
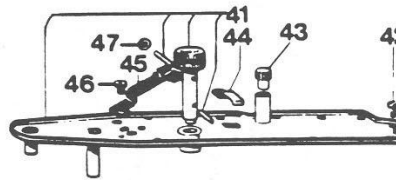
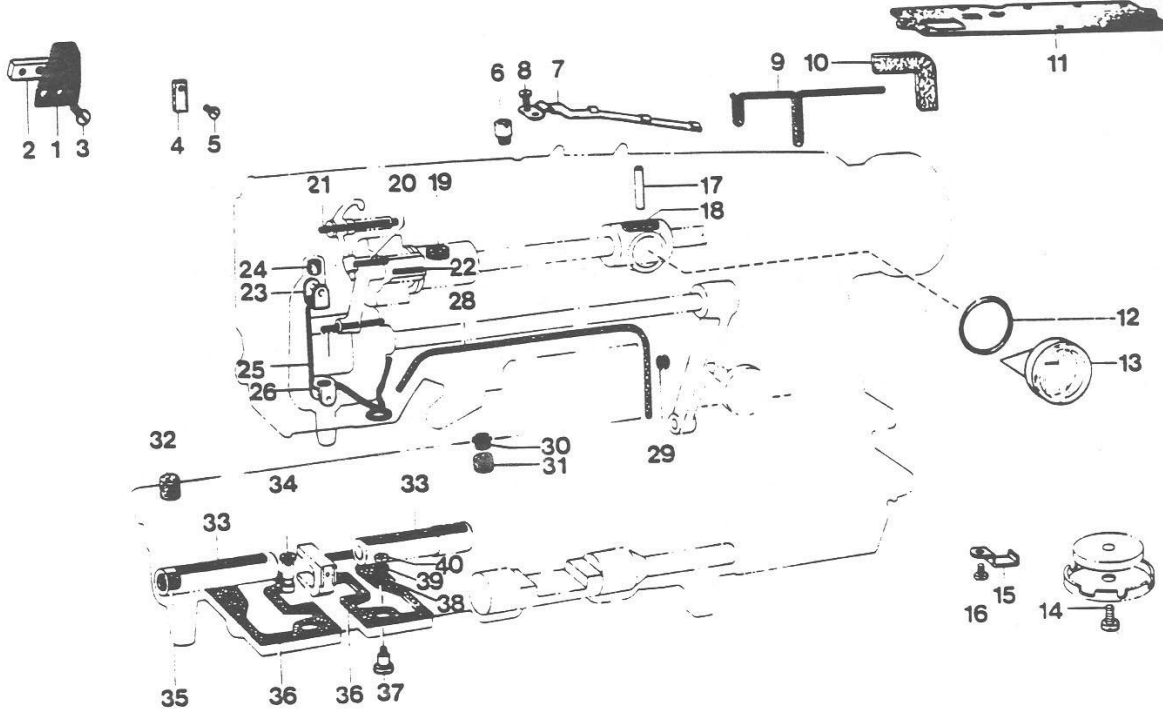
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LOWER SHAFT

| Det. No | Parts No | Description |
|---------|---------------|---------------------------------------|
| 1 | 46-1001-5-059 | Lower Shaft |
| 2 | 46-1001-5-060 | Rotary Hook Base Bushing(Left) |
| 3 | 46-1001-5-061 | Rotary Hook Base Bushing(Right) |
| 4 | 46-1000-8-239 | Screw(5.95) |
| 5 | 46-1001-5-062 | Bearing Holder |
| 6 | 46-1000-8-242 | Screw(6.35×7) |
| 7 | 46-1001-5-063 | Bushing |
| 8 | 46-1001-5-065 | Presser |
| 9 | 46-1000-8-231 | Screw(3.57×12) |
| 10 | 46-1001-5-066 | Timing Belt Wheel (Lower) Assembly |
| 11 | 46-1001-5-064 | Bearing Holder Assembly |
| 12 | 46-1000-8-237 | Screw(6.35×12) |
| 13 | 46-1000-8-236 | Screw(6.35×12) |
| 14 | 46-1001-5-067 | Spiral Gear Assembly |
| 15 | 46-1000-8-243 | Screw(6.35) |
| 16 | 46-1000-8-235 | Screw(6.35) |
| 17 | 46-1000-8-234 | Screw(6.35) |

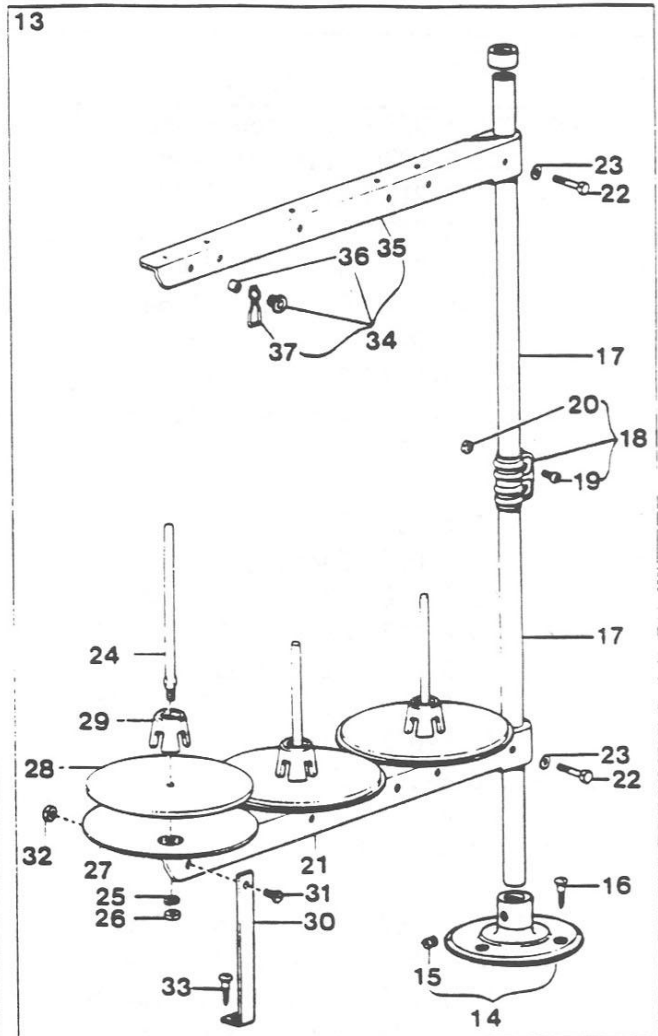
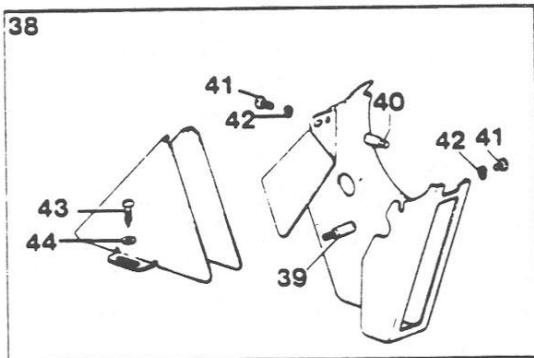
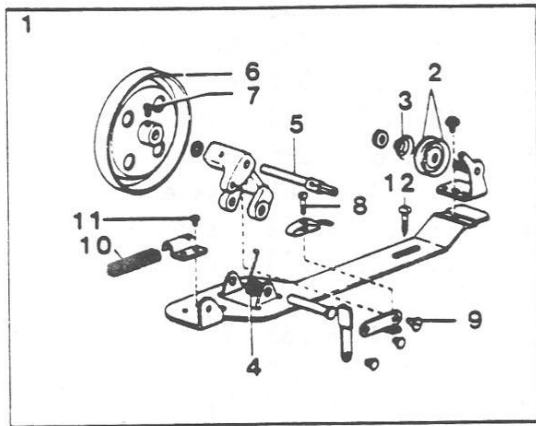
5



LUBRICATION COMPONENTS

| Det. No | Parts No | Description | Det. No | Parts No | Description |
|---------|---------------|---------------------|---------|---------------|-----------------------------|
| 1 | 46-1001-5-096 | Oil Stop Plate | 41 | 46-1001-5-089 | Oil Receiver Plate Assembly |
| 2 | 46-1001-5-097 | Plate Presser | 42 | 46-1000-8-202 | Screw(3.57-40×6) |
| 3 | 46-1000-8-211 | Screw(4.76-32×8) | 43 | 46-1001-5-092 | Cap for Oil Inlet |
| 4 | 46-1000-8-277 | Felt | 44 | 46-1001-5-091 | Felt Presser |
| 5 | 46-1000-8-215 | Screw(3.57×6) | 45 | 46-1001-5-090 | Spring Plate |
| 6 | 46-1000-8-248 | Oil Guide Tube | 46 | 46-1000-8-216 | Screw(3.57-40×4) |
| 7 | 46-1001-5-094 | Wick Holder | 47 | 46-1000-8-261 | Washer |
| 8 | 46-1000-8-212 | Screw(3.18) | 48 | 46-1000-8-282 | Wick 4×4 (75cm) |
| 9 | 46-1000-8-267 | Wick 4×4 (2.5cm) | 49 | 46-1001-5-099 | Oil Tube |
| 10 | 46-1000-8-273 | Felt | 50 | 46-1000-8-283 | Wick 4×4 (33cm) |
| 11 | 46-1001-5-093 | Packing | 51 | 46-1001-5-100 | Oil Tube |
| 12 | 46-1001-5-095 | Packing(P16) | 52 | 46-1000-8-284 | Wick 4×4 (40cm) |
| 13 | 46-1001-5-108 | Oil Gauge Window | 53 | 46-1001-5-101 | Oil Tube |
| 14 | 46-1000-8-213 | Screw(4.76-32×10) | 54 | 46-1000-8-285 | Wick 4×4 (15cm) |
| 15 | 46-1001-5-091 | Felt Presser | 55 | 46-1001-5-102 | Oil Tube |
| 16 | 46-1000-8-214 | Screw(3.57-40×5) | 56 | 46-1000-8-286 | Wick 4×4 (45cm) |
| 17 | 46-1001-5-073 | Pipe | 57 | 46-1001-5-103 | Oil Tube |
| 18 | 46-1000-8-279 | Felt | 58 | 46-1001-5-085 | Oil Gauge |
| 19 | 46-1000-8-274 | Felt | 59 | 46-1001-5-107 | Tube Holder |
| 20 | 46-1000-8-272 | Wick 3×3 (3cm) | 60 | 46-1001-5-106 | Tube Holder |
| 21 | 46-1000-8-269 | Wick 6×6 (10cm) | 61 | 46-1000-8-287 | Oil Felt |
| 22 | 46-1000-8-268 | Wick 4×4 (12cm) | 62 | 46-1001-5-105 | Oil Pipe Support |
| 23 | 46-1001-5-052 | Felt Support(Upper) | 63 | 46-1002-0-758 | Oil Shield |
| 24 | 46-1001-5-043 | Needle Bar Cap | | | |
| 25 | 46-1000-8-266 | Wick 4×4 (35cm) | | | |
| 26 | 46-1001-5-053 | Felt Support(Lower) | | | |
| 27 | 46-1000-8-271 | Wick 4×4 (5cm) | | | |
| 28 | 46-1000-8-270 | Wick 4×4 (85cm) | | | |
| 29 | 46-1001-5-104 | Cap | | | |
| 30 | 46-1001-5-098 | Oil Cap | | | |
| 31 | 46-1000-8-275 | Felt | | | |
| 32 | 46-1000-8-276 | Felt | | | |
| 33 | 46-1000-8-278 | Felt | | | |
| 34 | 46-1000-8-280 | Felt | | | |
| 35 | 46-1000-8-281 | Felt | | | |
| 36 | 46-1001-5-083 | Packing | | | |
| 37 | 46-1000-8-226 | Oil Adjusting Screw | | | |
| 38 | 46-1000-8-260 | Washer | | | |
| 39 | 46-1000-8-264 | Spring Washer | | | |
| 40 | 46-1000-8-255 | Nut(4.37) | | | |

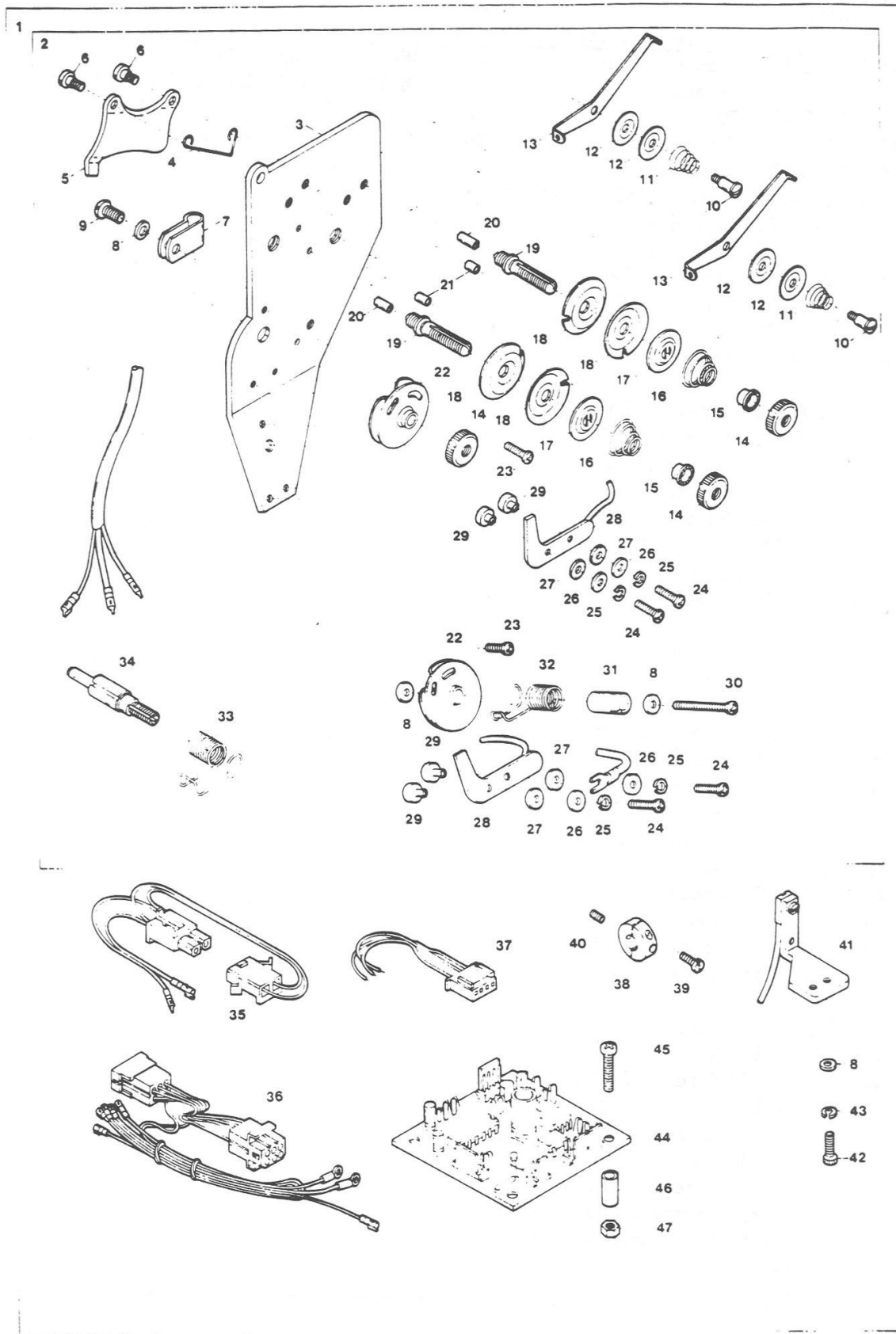
6



THREAD STAND, BOBBIN WINDER, BELT COVER

| Det. Na | Parts Na | Description | Det. Na | Parts Na | Description |
|---------|---------------|------------------------------|---------|---------------|---------------------|
| 1 | 46-1001-5-174 | Bobbin Winder Assembly | 41 | 46-1000-8-223 | Screw(4.37-40×8) |
| 2 | 46-1001-5-170 | Tension Disc | 42 | 46-1000-8-264 | Spring Washer(4.37) |
| 3 | 46-1001-5-169 | Tension Spring | 43 | 46-1000-8-246 | Screw(5.5×20) |
| 4 | 46-1001-5-171 | Spring | 44 | 46-1000-8-263 | Washer(5.56) |
| 5 | 46-1001-5-168 | Bobbin Winder Shaft | | | |
| 6 | 46-1001-5-173 | Bobbin Winder Wheel Assembly | | | |
| 7 | 46-1000-8-217 | Screw(4.37×5) | | | |
| 8 | 46-1000-8-218 | Screw(3.18) | | | |
| 9 | 46-1000-8-227 | Stud Screw(3.18) | | | |
| 10 | 46-1001-5-172 | Stop | | | |
| 11 | 46-1000-8-219 | Screw(3.57×3.5) | | | |
| 12 | 46-1000-8-246 | Screw(5.5×20) | | | |
| 13 | 46-1001-5-167 | Thread Stand Assembly | | | |
| 14 | 46-1001-5-166 | Base Assembly | | | |
| 15 | 46-1000-8-244 | Screw(6×7) | | | |
| 16 | 46-1000-8-247 | Screw(4.5×22) | | | |
| 17 | 46-1001-5-157 | Pipe | | | |
| 18 | 46-1001-5-158 | Joint | | | |
| 19 | 46-1000-8-220 | Screw(5×14) | | | |
| 20 | 46-1000-8-251 | Nut(5) | | | |
| 21 | 46-1001-5-164 | Spool Holder | | | |
| 22 | 46-1000-8-221 | Bolt(5×28) | | | |
| 23 | 46-1000-8-262 | Washer(5) | | | |
| 24 | 46-1001-5-159 | Spool Shaft(B) | | | |
| 25 | 46-1000-8-265 | Spring Washer | | | |
| 26 | 46-1000-8-251 | Nut(5) | | | |
| 27 | 46-1001-5-162 | Spool Stand Base | | | |
| 28 | 46-1001-5-161 | Spool Mat | | | |
| 29 | 46-1001-5-160 | Spool Cushion | | | |
| 30 | 46-1001-5-163 | Support | | | |
| 31 | 46-1000-8-222 | Screw(5×10) | | | |
| 32 | 46-1000-8-251 | Nut(5) | | | |
| 33 | 46-1000-8-247 | Screw(4.5×22) | | | |
| 34 | 46-1001-5-156 | Thread Hanger Assembly | | | |
| 35 | 46-1001-5-164 | Spool Holder | | | |
| 36 | 46-1001-5-181 | Thread Bushing | | | |
| 37 | 46-1001-5-182 | Thread Guide Spring | | | |
| 38 | 46-1001-5-175 | Belt Cover Assembly | | | |
| 39 | 46-1000-8-249 | Belt Cover Stud(B) | | | |
| 40 | 46-1000-8-250 | Belt Cover Stud(D) | | | |

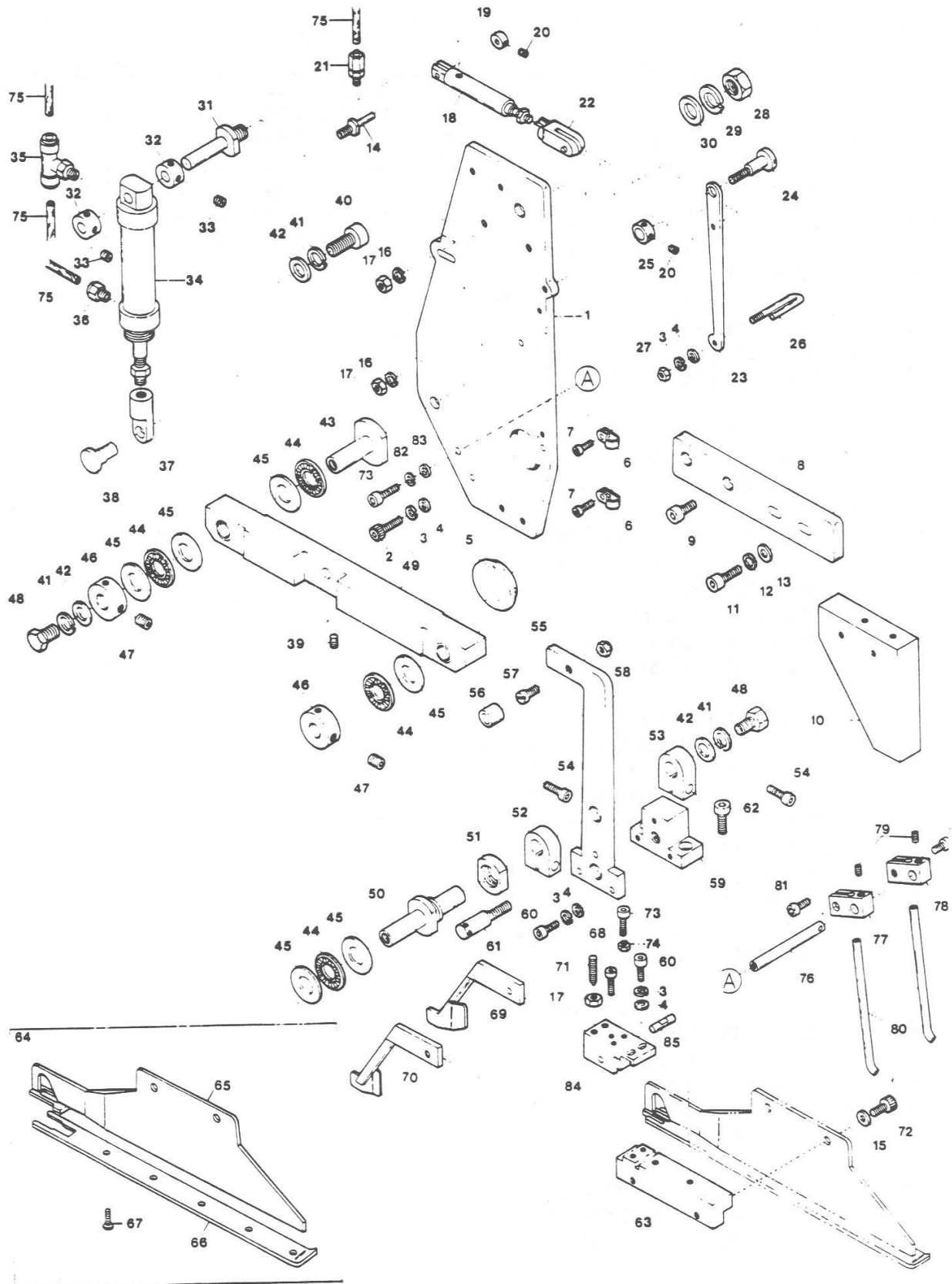
7



THREAD MONITOR

| Det. No | Parts No | Description | Det. No | Parts No | Description |
|---------|---------------|-------------------------|---------|---------------|------------------|
| 1 | 46-1001-5-431 | Thread Monitor Complete | 41 | 46-1001-5-433 | IC Unit |
| 2 | 46-1001-5-432 | Thread Tension Complete | 42 | 46-1000-9-748 | Screw(M4-0.7×12) |
| 3 | 46-1001-5-420 | Thread Tension Plate | 43 | 46-1000-0-644 | Spring Washer |
| 4 | 46-1001-5-015 | Release Spring | 44 | 46-1001-4-948 | Circuit Board |
| 5 | 46-1001-5-014 | Release Plate | 45 | 46-1000-9-993 | Screw(M3-0.5×16) |
| 6 | 46-1000-8-224 | Stud (3.57) | 46 | 46-1001-0-914 | Support |
| 7 | 46-1006-0-248 | Cord Clamp(φ 5.3-3N) | 47 | 46-1000-0-012 | Nut |
| 8 | 46-1000-0-665 | Washer | | | |
| 9 | 46-1000-4-127 | Screw(M4-0.7×6) | | | |
| 10 | 46-1000-1-092 | Screw(1/8-44×3) | | | |
| 11 | 46-1009-3-514 | Tension Spring | | | |
| 12 | 46-1003-7-108 | Tension Disc | | | |
| 13 | 46-1009-3-535 | Thread Guide | | | |
| 14 | 46-1000-0-182 | Adjusting Nut | | | |
| 15 | 46-1002-0-126 | Spring Bushing | | | |
| 16 | 46-1008-5-276 | Tension Spring | | | |
| 17 | 46-1008-0-705 | Spring Washer | | | |
| 18 | 46-1008-0-232 | Tension Disc | | | |
| 19 | 46-1000-9-804 | Tension Post | | | |
| 20 | 46-1001-5-425 | Release Pin | | | |
| 21 | 46-1000-0-038 | Stop Pin | | | |
| 22 | 46-1001-5-016 | Spring Guide Assmly | | | |
| 23 | 46-1000-9-805 | Screw(M2.5-0.45×8) | | | |
| 24 | 46-1000-9-956 | Screw(M3-0.5×10) | | | |
| 25 | 46-1000-0-002 | Spring Washer | | | |
| 26 | 46-1000-0-014 | Washer | | | |
| 27 | 46-1000-0-257 | Washer | | | |
| 28 | 46-1001-5-421 | Sensing Plate | | | |
| 29 | 46-1001-4-979 | Insulating Bushing | | | |
| 30 | 46-1000-9-883 | Screw(M4-0.7×25) | | | |
| 31 | 46-1001-5-422 | Spring Sleeve | | | |
| 32 | 46-1001-5-423 | Spring(Right) | | | |
| 33 | 46-1001-5-424 | Spring(Left) | | | |
| 34 | 46-1001-5-113 | Tension Post | | | |
| 35 | 46-1001-1-304 | Power Cord | | | |
| 36 | 46-1001-1-305 | Signal Cord | | | |
| 37 | 46-1001-1-306 | Switch Cord | | | |
| 38 | 46-1001-5-427 | Magnet Ring Unit | | | |
| 39 | 46-1000-7-609 | Screw(9/64-40×9) | | | |
| 40 | 46-1000-9-209 | Screw(11/64-40×9) | | | |

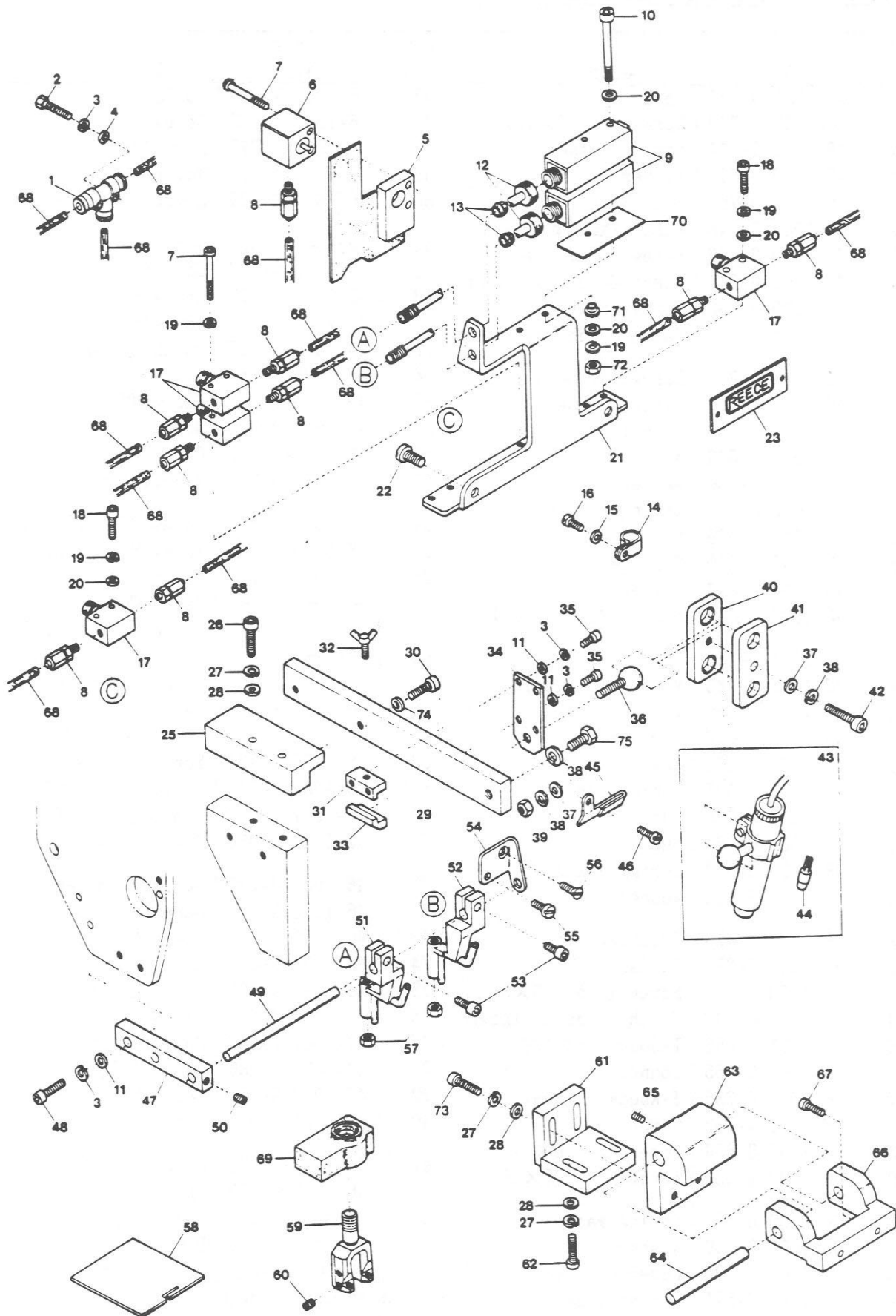
8



PATCH GUIDE MECHANISM

| Det. No | Parts No | Description | Det. No | Parts No | Description |
|---------|---------------|----------------------|---------|----------------|----------------------------------------|
| 1 | 46-1001-4-546 | Head Cover | 46 | 46-1007-7-286 | Collar |
| 2 | 46-1000-9-749 | Screw(M4-0.7×16) | 47 | 46-1000-3-635 | Screw(1/4-40×6) |
| 3 | 46-1000-0-644 | Spring Washer | 48 | 46-1000-9-777 | Screw(M8-1.25×14) |
| 4 | 46-1000-0-665 | Washer | 49 | 46-1001-4-536 | Moving Lever |
| 5 | 46-1002-0-759 | Seal Plug | 50 | 46-1001-4-527 | Lever Pin(Front) |
| 6 | 46-1006-0-248 | Cord Clamp(φ 5.3-3N) | 51 | 46-1001-4-526 | Nut |
| 7 | 46-1000-9-956 | Screw(M3-0.5×10) | 52 | 46-1001-4-520 | Collar(Left) |
| 8 | 46-1001-4-534 | Patch Guide Cam Arm | 53 | 46-1001-4-519 | Collar(Right) |
| 9 | 46-1000-9-980 | Screw(M6-1×10) | 54 | 46-1000-9-935 | Screw(M5-0.8×20) |
| 10 | 46-1001-4-976 | Patch Guide Cam | 55 | 46-1001-4-215 | Patch Guide Lever |
| 11 | 46-1000-9-970 | Screw(M6-1×20) | 56 | 46-1001-4-186 | Cam Roller |
| 12 | 46-1000-0-667 | Spring Washer | 57 | 46-1000-6-186 | Screw(M6-1×10) |
| 13 | 46-1000-0-663 | Washer | 58 | 46-1000-0-063 | Nut |
| 14 | 46-1001-4-539 | Wiper Lever Pin | 59 | 46-1001-4-222 | Patch Guide Holder |
| 15 | 46-1000-0-669 | Washer | 60 | 46-1000-9-748 | Screw(M4-0.7×12) |
| 16 | 46-1000-0-600 | Spring Washer | 61 | 46-1000-6-191 | Screw(M8-1.25×12) |
| 17 | 46-1000-0-009 | Nut | 62 | 46-1000-6-210 | Screw(M6-1×12) |
| 18 | 46-1001-0-249 | Cylinder | 63 | 46-1001-4-223 | Mount Block |
| 19 | 46-1008-0-714 | Collar | 64 | ----- | Patch Guide, C. (See Page 35,36) |
| 20 | 46-1000-3-637 | Screw(1/8-44×2.5) | 65 | ----- | Patch Guide(Upper) (See Page 35,36) |
| 21 | 46-1001-0-258 | Joint | 66 | ----- | Patch Guide(Lower) (See Page 35,36) |
| 22 | 46-1001-0-283 | Y-Knuckle (3mm) | 67 | 46-1000-9-734 | Screw(M2-0.4×4.8) |
| 23 | 46-1001-4-566 | Wiper Lever | 68 | 46-1000-9-745 | Screw(M3-0.5×15) |
| 24 | 46-1000-6-192 | Screw(M5-0.8×21) | 69 | 46-1001-4-957 | Jumping Guide(Right) |
| 25 | 46-1009-4-562 | Collar | 70 | 46-1001-4-958 | Jumping Guide(Left) |
| 26 | 46-1001-4-525 | Wiping Bar | 71 | 46-1001-4-535 | Spring Plunger |
| 27 | 46-1000-0-015 | Nut | 72 | 46-1000-9-751 | Screw(M5-0.8×10) |
| 28 | 46-1000-0-260 | Nut | 73 | 46-1000-9-744 | Screw(M3-0.5×10) |
| 29 | 46-1000-0-439 | Spring Washer | 74 | 46-1000-0-012 | Lock Nut |
| 30 | 46-1000-0-612 | Washer | 75 ※ | 46-1001-0-260 | Air Tubing(4×2.5mm) |
| 31 | 46-1001-4-523 | Cylinder Pin | 76 | 47-1001-4-968 | Air Nozzle Shaft |
| 32 | 46-1007-7-296 | Collar | 77 | 47-1001-4-967 | Holder(Left) |
| 33 | 46-1000-7-650 | Screw(11/64-40×5) | 78 | 47-1001-4-966 | Holder(Right) |
| 34 | 46-1001-0-247 | Patch Guide Cylinder | 79 | 46-1000-9-735 | Screw(M4-0.7×4) |
| 35 | 46-1001-0-056 | T-Joint(φ 4-1/8) | 80 | 47-1001-4-965 | Air Nozzle |
| 36 | 46-1001-0-055 | Connector(φ 4-1/8) | 81 | 46-1000-9-779 | Screw(M3-0.5×6) |
| 37 | 46-1001-0-285 | I-Knuckle (8mm) | 82 | 46-1000-0-002 | Spring Washer |
| 38 | 46-1001-4-533 | Connecting Pin | 83 | 46-1000-0-014 | Washer |
| 39 | 46-1000-3-659 | Screw(M5-0.8×5) | 84 | 46-1001-4-537 | Block(10mm) |
| 40 | 46-1000-9-936 | Screw(M8-1.25×20) | 85 | 46-1001-4-521 | Shaft(10mm) |
| 41 | 46-1000-0-676 | Spring Washer | ※ | Specify Length | |
| 42 | 46-1000-0-666 | Washer | | | |
| 43 | 46-1001-4-524 | Lever Pin(Rear) | | | |
| 44 | 46-1001-4-571 | Thrust Bearing | | | |
| 45 | 46-1001-4-572 | Spacer | | | |

9



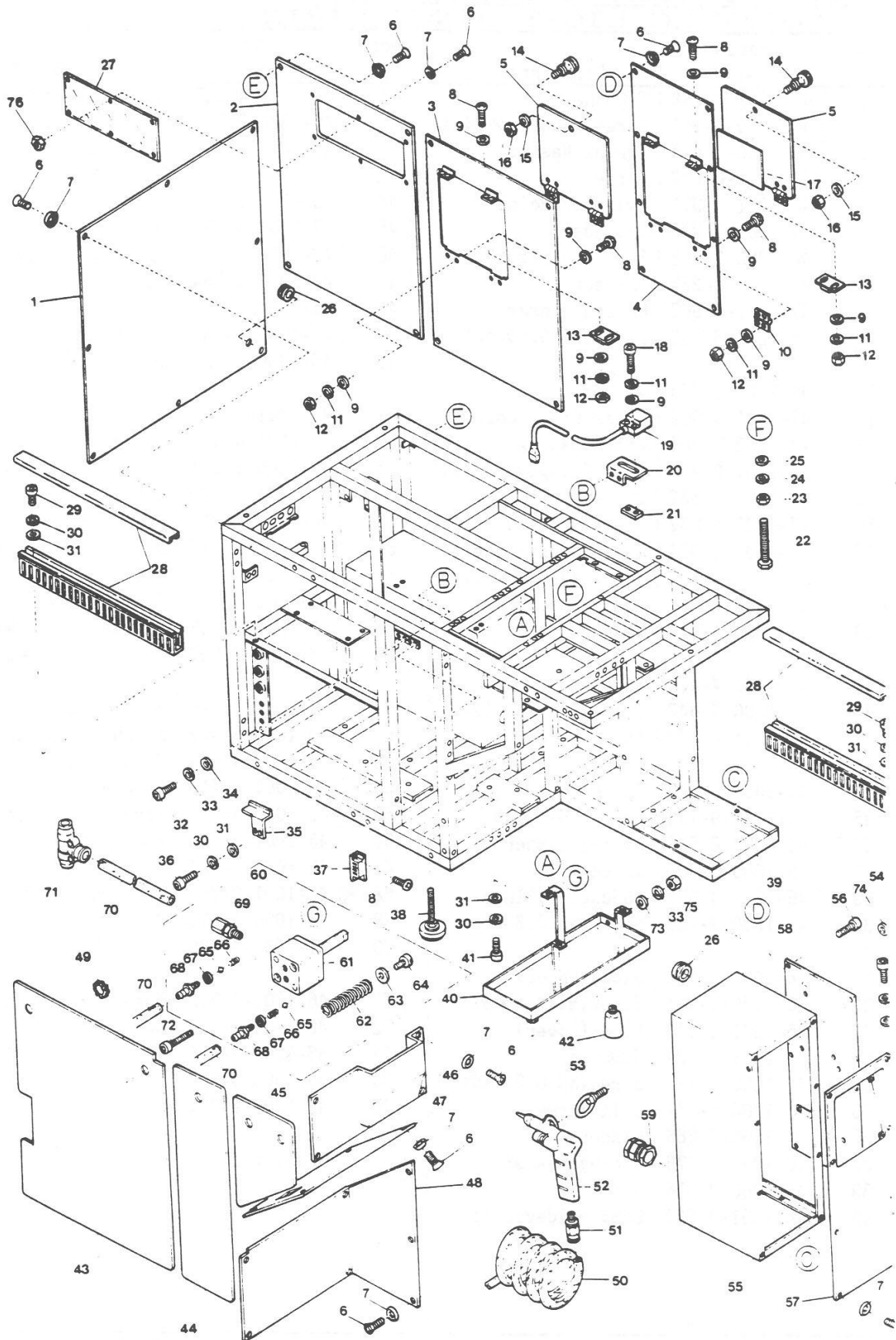
Revised 08/2006

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**PHOTO OPTICS, TENSION RELEASE,
LOCATING LIGHT. HINGE PARTS**

| Det. No | Parts No | Description | Det. No | Parts No | Description |
|---------|---------------|------------------------|---------|---------------|------------------------------|
| 1 | 47-1001-0-288 | T-Connector | 41 | 46-1001-4-225 | Lamp Holder (Right) |
| 2 | 46-1000-4-104 | Screw (9/64-40 × 18.8) | 42 | 46-1000-9-758 | Screw (M8-1.25 × 30) |
| 3 | 46-1000-0-644 | Spring Washer | 43 | 46-1001-0-901 | Work Locating Lamp, Complete |
| 4 | 46-1000-0-532 | Washer | 44 | 46-1001-0-920 | Lamp |
| 5 | 46-1001-4-971 | Cylinder Holder | 45 | 47-1001-4-413 | Needle Thread Eyelet |
| 6 | 46-1001-0-246 | Cylinder | 46 | 46-1000-5-000 | Screw (9/64-40 × 5.7) |
| 7 | 46-1000-9-768 | Screw (M3-0.5 × 30) | 47 | 47-1001-4-964 | Shaft Holder (Left) |
| 8 | 46-1001-0-258 | Connector | 48 | 46-1000-9-749 | Screw (M4-0.7 × 16) |
| 9 | 47-1001-0-907 | Optics Senser | 49 | 47-1001-4-432 | Shaft |
| 10 | 46-1000-6-236 | Screw (M3-0.5 × 50) | 50 | 46-1000-3-656 | Screw (M3-0.5 × 3) |
| 11 | 46-1000-0-665 | Washer | 51 | 47-1001-4-951 | Holder (Left) |
| 12 | 47-1001-0-908 | Glass Fiber Unit | 52 | 47-1001-4-950 | Holder (Right) |
| 13 | 47-1002-1-465 | Cord Bushing | 53 | 46-1000-9-746 | Screw (M4-0.7 × 8) |
| 14 | 46-1001-0-721 | Cord Clamp (φ 19-11N) | 54 | 47-1001-4-963 | Shaft Holder (Right) |
| 15 | 46-1000-0-532 | Washer | 55 | 46-1000-9-604 | Screw (11/64-40 × 5.5) |
| 16 | 46-1000-4-352 | Screw (9/64-40 × 11.3) | 56 | 46-1000-9-127 | Screw (11/64-40 × 8) |
| 17 | 46-1001-0-054 | Speed Controller | 57 | 46-1000-1-124 | Nut |
| 18 | 46-1000-9-745 | Screw (M3-0.5 × 15) | 58 | 46-1001-4-408 | Slide Plate |
| 19 | 46-1000-0-002 | Spring Washer | 59 | 46-1001-4-433 | Needle Head (10mm) |
| 20 | 46-1000-0-014 | Washer | 60 | 46-1000-3-637 | Screw (1/8-44 × 2.5) |
| 21 | 47-1001-4-428 | Support | 61 | 46-1001-4-425 | Hinge (Lower) |
| 22 | 46-1000-4-642 | Screw (1/4-24 × 12) | 62 | 46-1000-9-977 | Screw (M6-1 × 25) |
| 23 | 46-1001-4-409 | Name Plate | 63 | 46-1001-4-424 | Hinge (Middle) |
| 24 | ..... | ..... | 64 | 46-1001-4-411 | Hinge Shaft |
| 25 | 46-1001-4-529 | Block | 65 | 46-1000-9-736 | Screw (M4-0.7 × 6) |
| 26 | 46-1000-9-753 | Screw (M6-1 × 30) | 66 | 46-1001-4-423 | Hinge (Upper) |
| 27 | 46-1000-0-667 | Spring Washer | 67 | 46-1000-5-061 | Screw (1/4-24 × 16.7) |
| 28 | 46-1000-0-663 | Washer | 68 * | 46-1001-0-260 | Air Tubing (4 × 2.5mm) |
| 29 | 46-1001-4-530 | Adjusting Plate | 69 | 46-1001-4-972 | Rubber |
| 30 | 46-1000-9-752 | Screw (M5-0.8 × 15) | 70 | 47-1001-4-980 | Insulator |
| 31 | 46-1001-4-531 | Block (Upper) | 71 | 46-1001-4-979 | Insulating Bushing |
| 32 | 46-1000-9-911 | Screw (M5-0.8 × 8) | 72 | 46-1000-0-012 | Nut |
| 33 | 46-1001-4-532 | Block (Lower) | 73 | 46-1000-9-970 | Screw (M6-1 × 20) |
| 34 | 46-1001-4-528 | Support | 74 | 46-1000-0-669 | Washer |
| 35 | 46-1000-9-747 | Screw (M4-0.7 × 10) | 75 | 46-1000-9-777 | Screw (M8-1.25 × 14) |
| 36 | 46-1000-6-187 | Ball Screw | | | |
| 37 | 46-1000-0-666 | Washer | | | |
| 38 | 46-1000-0-676 | Spring Washer | | | |
| 39 | 46-1000-0-016 | Nut | | | |
| 40 | 46-1001-4-224 | Lamp Holder (Left) | | | |

* Specify Length.



FRAME & COVERS

| Det. No. | Parts No | Description | Det. No. | Parts No | Description |
|----------|---------------|-------------------|----------|---------------|---------------------------|
| 1 | 46-1001-4-728 | Cover | 41 | 46-1000-9-746 | Screw(M4-0.7×8) |
| 2 | 46-1001-4-583 | Cover | 42 | 46-1001-4-656 | Oil Retainer |
| 3 | 46-1001-4-730 | Cover | 43 | 46-1001-4-727 | Cover |
| 4 | 46-1001-4-814 | Cover | 44 | 46-1001-4-922 | Cover |
| 5 | 46-1001-4-515 | Cover | 45 | 46-1001-4-926 | Cover |
| 6 | 46-1000-9-774 | Screw(M4-0.7×9.7) | 46 | 46-1001-4-923 | Cover |
| 7 | 46-1000-0-670 | Washer | 47 | 46-1001-4-924 | Cover |
| 8 | 46-1000-6-233 | Screw(M3-0.5×7)40 | 48 | 46-1001-4-925 | Cover |
| 9 | 46-1000-0-014 | Washer | 49 | 46-1001-4-824 | Universal Bushing |
| 10 | ..... | ..... | 50 | 46-1001-0-256 | Spiral Tube(6×4mm) |
| 11 | 46-1000-0-002 | Spring Washer | 51 | 46-1001-0-264 | Connector(φ 6-1/4) |
| 12 | 46-1000-0-012 | Nut | 52 | 46-1001-0-094 | Air Gun |
| 13 | 46-1001-4-721 | Magnetic Stop | 53 | 46-1000-6-226 | Eye Bolt |
| 14 | 46-1000-6-434 | Finger Knob | 54 | 46-1000-0-011 | Nut(M6) |
| 15 | 46-1000-0-532 | Washer | 55 | 46-1001-4-732 | Control Box |
| 16 | 46-1000-0-335 | Nut | 56 | 46-1000-9-980 | Screw(M6-1×10) |
| 17 | 46-1000-2-484 | Decal | 57 | 46-1001-4-812 | Cover |
| 18 | 46-1000-9-745 | Screw(M3-0.5×15) | 58 | 46-1001-4-740 | Control Box Plate |
| 19 | 46-1001-0-902 | Sensing Switch | 59 | 46-1001-0-959 | Bushing |
| 20 | 46-1001-4-779 | Switch Support | 60 | 46-1001-5-220 | Oil Return Pump, Complete |
| 21 | 46-1001-4-780 | Nut Plate | 61 | 46-1001-0-304 | Oil Return Pump |
| 22 | 46-1000-6-232 | Bolt(M8-1.25×80) | 62 | 46-1001-4-977 | Pump Cylinder Spring |
| 23 | 46-1000-0-016 | Nut | 63 | 46-1000-0-555 | Washer |
| 24 | 46-1000-0-676 | Spring Washer | 64 | 46-1000-9-751 | Screw(M5-0.8×10) |
| 25 | 46-1000-0-666 | Washer | 65 | 46-1001-5-221 | Steel Ball |
| 26 | 46-1001-0-958 | Cord Bushing | 66 | 46-1003-6-104 | Spring |
| 27 | 46-1001-4-584 | Sight Window | 67 | 46-1000-0-623 | Seal |
| 28 | 46-1001-1-415 | Cord Duct(280mm) | 68 | 46-1001-0-018 | Connector |
| | 46-1001-1-416 | " (430mm) | 69 | 46-1001-0-258 | Connector |
| | 46-1001-1-417 | " (460mm) | 70 ※ | 46-1001-0-260 | Air Tubing(4×2.5mm) |
| | 46-1001-1-418 | " (490mm) | 71 | 46-1001-0-271 | T-Connector |
| | 46-1001-1-419 | " (540mm) | 72 | 46-1000-6-229 | Screw(M5-0.8×40) |
| 29 | 46-1000-9-974 | Screw(M4-0.7×8) | 73 | 46-1000-0-426 | Washer |
| 30 | 46-1000-0-644 | Spring Washer | 74 | 46-1000-0-663 | Washer |
| 31 | 46-1000-0-665 | Washer | 75 | 46-1000-0-009 | Nut |
| 32 | 46-1000-9-752 | Screw(M5-0.8×15) | 76 | 46-1000-0-015 | Nut |
| 33 | 46-1000-0-600 | Spring Washer | | | |
| 34 | 46-1000-0-669 | Washer | | | |
| 35 | 46-1001-4-715 | Switch Cover | | | |
| 36 | 46-1000-9-747 | Screw(M4-0.7×10) | | | |
| 37 | 46-1001-4-719 | Magnetic Stop | | | |
| 38 | 46-1001-5-228 | Adjustable Foot | | | |
| 39 | 46-1001-4-915 | Frame | | | |
| 40 | 46-1001-4-770 | Oil Pan | | | |

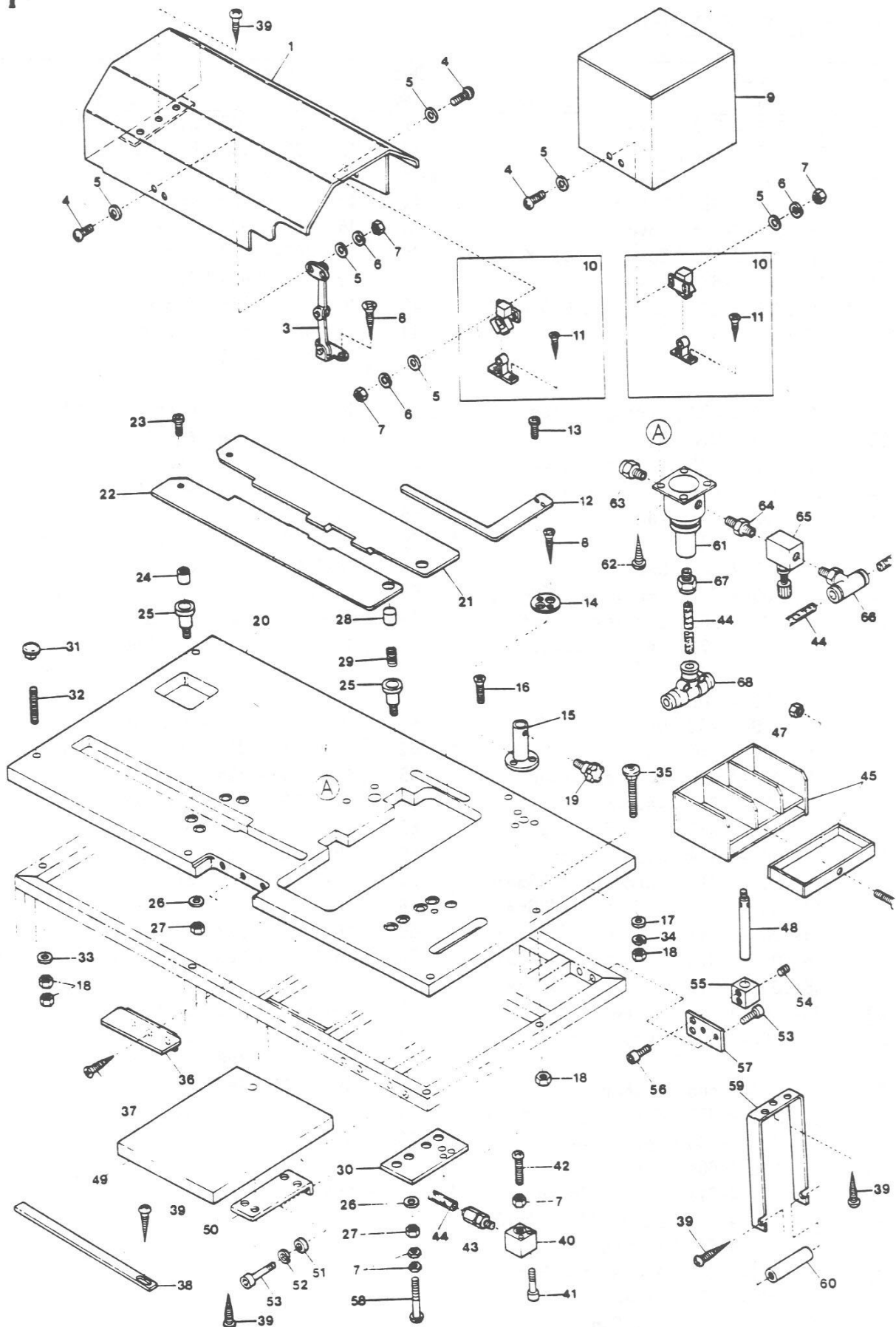
※ Specify Length.

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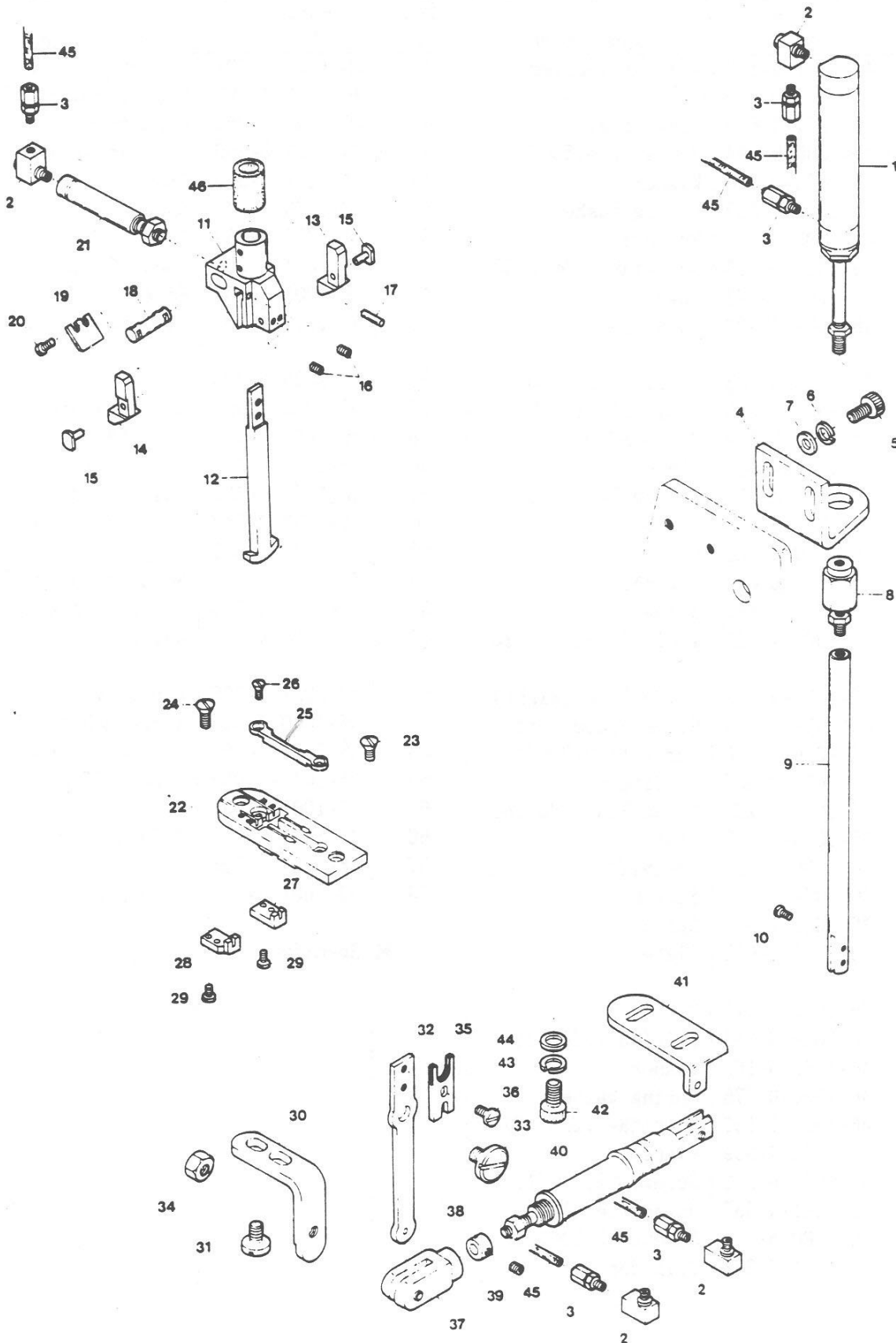
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11



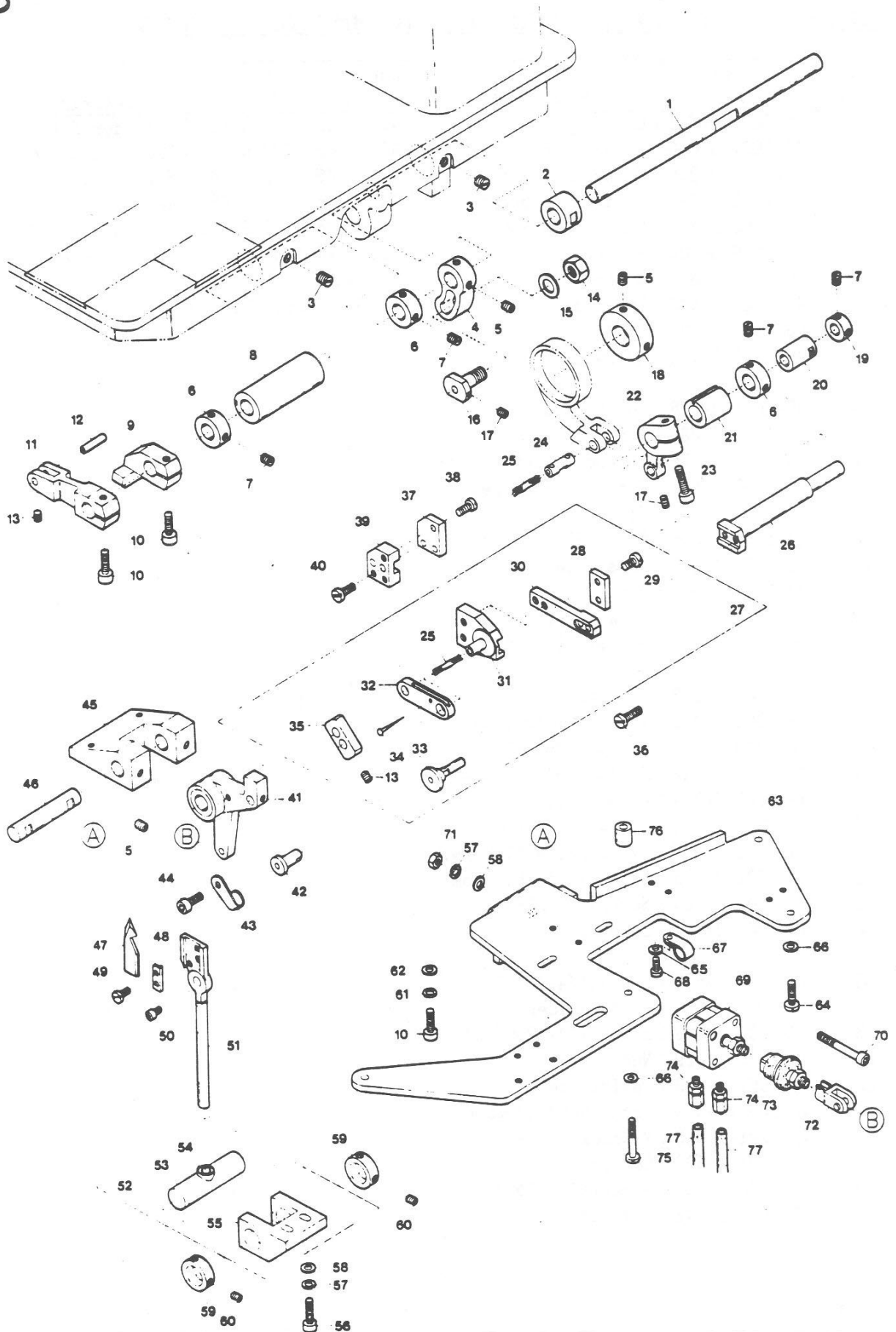
12



UPPER & LOWER THREAD TRIMMING PARTS

| Det. No | Parts No | Description | Det. No | Parts No | Description |
|---------|---------------|----------------------|---------|-------------------|---------------------|
| 1 | 46-1001-0-241 | Cylinder | 41 | 46-1001-4-510 | Cylinder Support |
| 2 | 46-1001-0-019 | L-Connector | 42 | 46-1000-9-747 | Screw(M4-0.7×10) |
| 3 | 46-1001-0-258 | Connector | 43 | 46-1000-0-644 | Spring Washer |
| 4 | 46-1001-4-481 | Cylinder Support | 44 | 46-1000-0-665 | Washer |
| 5 | 46-1000-9-752 | Screw(M5-0.8×10) | 45 ※ | 46-1001-0-260 | Air Tubing(4×2.5mm) |
| 6 | 46-1000-0-600 | Spring Washer | 46 | 46-1001-4-579 | Rubber Shield |
| 7 | 46-1000-0-669 | Washer | | | |
| 8 | 46-1001-4-840 | Universal Joint | | ※ Specify Length. | |
| 9 | 46-1001-4-482 | Shaft | | | |
| 10 | 46-1000-6-178 | Screw(1/8-44×5.6) | | | |
| 11 | 46-1001-4-578 | Mount Block | | | |
| 12 | 46-1001-4-483 | Pick-up(10mm) | | | |
| 13 | 46-1001-4-575 | Thread Holder(Right) | | | |
| 14 | 46-1001-4-576 | Thread Holder(Left) | | | |
| 15 | 46-1001-4-574 | Pin | | | |
| 16 | 46-1000-3-656 | Screw(M3-0.5×3) | | | |
| 17 | 46-1001-4-577 | Press Pin | | | |
| 18 | 46-1001-4-573 | Pin | | | |
| 19 | 46-1001-4-244 | Trim Blade | | | |
| 20 | 46-1000-1-222 | Screw(1/8-44×4.8) | | | |
| 21 | 46-1001-0-253 | Cylinder | | | |
| 22 | 46-1001-4-426 | Throat Plate(10mm) | | | |
| 23 | 46-1000-9-127 | Screw(11/64-40×8) | | | |
| 24 | 46-1000-9-142 | Screw(9/64-40×4.8) | | | |
| 25 | 46-1001-4-267 | Lower Knife | | | |
| 26 | 46-1000-1-613 | Screw(3/32-56×3.1) | | | |
| 27 | 46-1001-4-505 | Fixed Knife(R)(10mm) | | | |
| 28 | 46-1001-4-506 | Fixed Knife(L)(10mm) | | | |
| 29 | 46-1000-4-404 | Screw(3/32-56×5.1) | | | |
| 30 | 46-1001-4-501 | Support Plate | | | |
| 31 | 46-1000-7-678 | Screw(1/4-40×8) | | | |
| 32 | 46-1001-4-509 | Knife Holder | | | |
| 33 | 46-1000-6-198 | Screw(1/4-40×7.5) | | | |
| 34 | 46-1000-0-419 | Nut | | | |
| 35 | 46-1001-4-503 | Knife(10mm) | | | |
| 36 | 46-1000-4-358 | Screw(9/64-40×5.6) | | | |
| 37 | 46-1001-0-283 | Y-Knuckle(3mm) | | | |
| 38 | 46-1001-4-502 | Collar | | | |
| 39 | 46-1000-9-735 | Screw(M4-0.7×4) | | | |
| 40 | 46-1001-0-242 | Cylinder | | | |

13

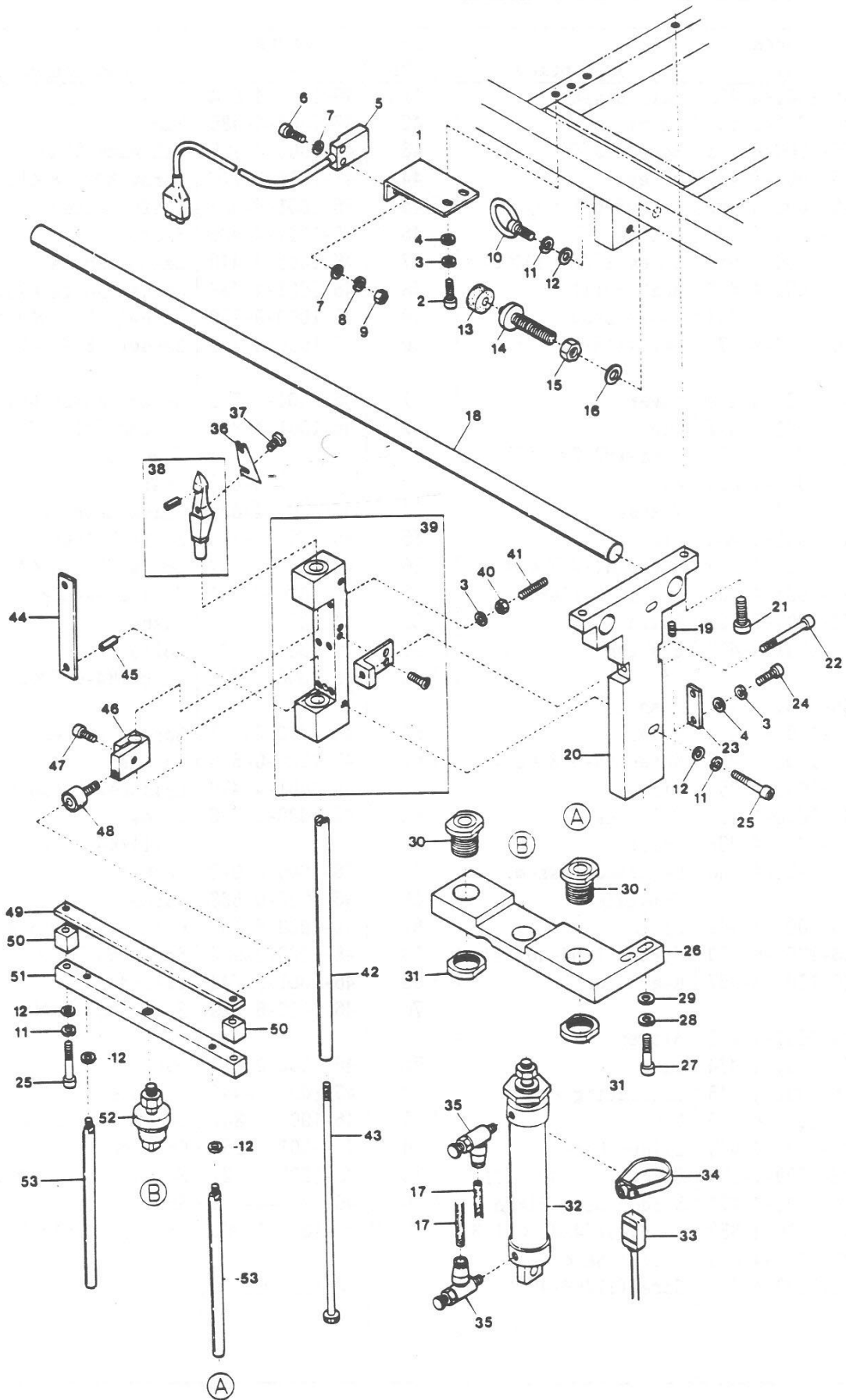


CENTER KNIFE ASSEMBLY

| Det. No | Parts No | Description | Det. No | Parts No | Description |
|---------|---------------|------------------------------|---------|---------------|-----------------------------|
| 1 | 46-1001-4-458 | Main Shaft | 41 | 46-1001-4-894 | Lever |
| 2 | 46-1001-5-185 | Bushing(2) | 42 | 46-1001-4-480 | Pin |
| 3 | 46-1000-8-233 | Screw(15/64) | 43 | 46-1001-4-799 | Oil Wick Stay |
| 4 | 46-1001-4-469 | Lever | 44 | 46-1000-9-746 | Screw(M4-0.8×8) |
| 5 | 46-1000-3-662 | Screw(M6-1×6) | 45 | 46-1001-4-438 | Shaft Holder |
| 6 | 46-1003-2-820 | Collar | 46 | 46-1001-4-436 | Shaft |
| 7 | 46-1000-7-650 | Screw(11/64-40×5) | 47 | 46-1001-4-478 | Center Knife |
| 8 | 46-1001-4-460 | Bushing(1) | 48 | 46-1001-4-459 | Center Knife Clamp |
| 9 | 46-1001-4-448 | Lever Stop | 49 | 46-1000-9-730 | Screw(1/8-44×4.5) |
| 10 | 46-1000-9-976 | Screw(M6-1×15) | 50 | 46-1000-4-258 | Screw(1/8-44×2.1) |
| 11 | 46-1001-4-449 | Lever | 51 | 46-1001-4-832 | Center Knife Holder |
| 12 | 46-1001-4-447 | Pin | 52 | 46-1001-4-895 | Center Knife Guide Complete |
| 13 | 46-1000-3-656 | Screw(M3-0.5×3) | 53 | 46-1001-4-834 | Shaft |
| 14 | 46-1000-0-054 | Nut | 54 | 46-1001-4-836 | Slide Bearing |
| 15 | 46-1000-0-432 | Washer | 55 | 46-1001-4-833 | Shaft Holder |
| 16 | 46-1001-4-454 | Pin | 56 | 46-1000-9-752 | Screw(M5-0.8×15) |
| 17 | 46-1000-9-735 | Screw(M4-0.7×4) | 57 | 46-1000-0-600 | Spring Washer |
| 18 | 46-1001-4-462 | Thrust Collar | 58 | 46-1000-0-669 | Washer |
| 19 | 46-1007-7-296 | Collar | 59 | 46-1001-4-835 | Collar |
| 20 | 46-1001-4-456 | Bushing | 60 | 46-1000-9-736 | Screw(M4-0.7×6) |
| 21 | 46-1001-4-457 | Bushing | 61 | 46-1000-0-667 | Spring Washer |
| 22 | 46-1001-4-463 | Lever | 62 | 46-1000-0-663 | Washer |
| 23 | 46-1000-9-935 | Screw(M5-0.8×20) | 63 | 46-1001-4-479 | Cylinder Support |
| 24 | 46-1001-4-464 | Pin | 64 | 46-1000-1-156 | Screw (11/64-40×13.3) |
| 25 | 46-1000-1-117 | Oil Wick | 65 | 46-1000-0-014 | Washer |
| 26 | 46-1001-4-468 | Shaft | 66 | 46-1000-0-538 | Washer |
| 27 | 46-1001-4-830 | Regulator Assem. Complete | 67 | 46-1003-6-133 | Cord Clamp(φ 8.4-5N) |
| 28 | 46-1001-4-466 | Plate | 68 | 46-1000-9-994 | Screw(M3-0.5×7) |
| 29 | 46-1000-9-150 | Screw(11/64-40×11) | 69 | 46-1001-0-243 | Cylinder |
| 30 | 46-1001-4-467 | Regulator | 70 | 46-1000-6-229 | Screw(M5-0.8×40) |
| 31 | 46-1001-4-472 | Slider | 71 | 46-1000-0-009 | Nut |
| 32 | 46-1001-4-474 | Link | 72 | 46-1001-4-442 | Y-Knuckle |
| 33 | 46-1001-4-445 | Connecting Pin | 73 | 46-1001-4-841 | Universal Joint |
| 34 | 46-1000-0-755 | Pin | 74 | 46-1001-0-258 | Connector |
| 35 | 46-1001-4-465 | Slider Link | 75 | 46-1000-5-121 | Screw(11/64-40×28) |
| 36 | 46-1000-1-170 | Screw(9/64-40×12) | 76 | 46-1001-4-455 | Spacer |
| 37 | 46-1001-4-471 | Slider Stop Plate | 77 ※ | 46-1001-0-260 | Air Tubing(4×2.5mm) |
| 38 | 46-1000-4-352 | Screw(9/64-40×11.3) | | | |
| 39 | 46-1001-4-473 | Slider Stop | | | |
| 40 | 46-1000-4-440 | Screw(11/64-40×8.3) | | | |

※ Specify Length.

14



TAB KNIFE SUPPORT PARTS

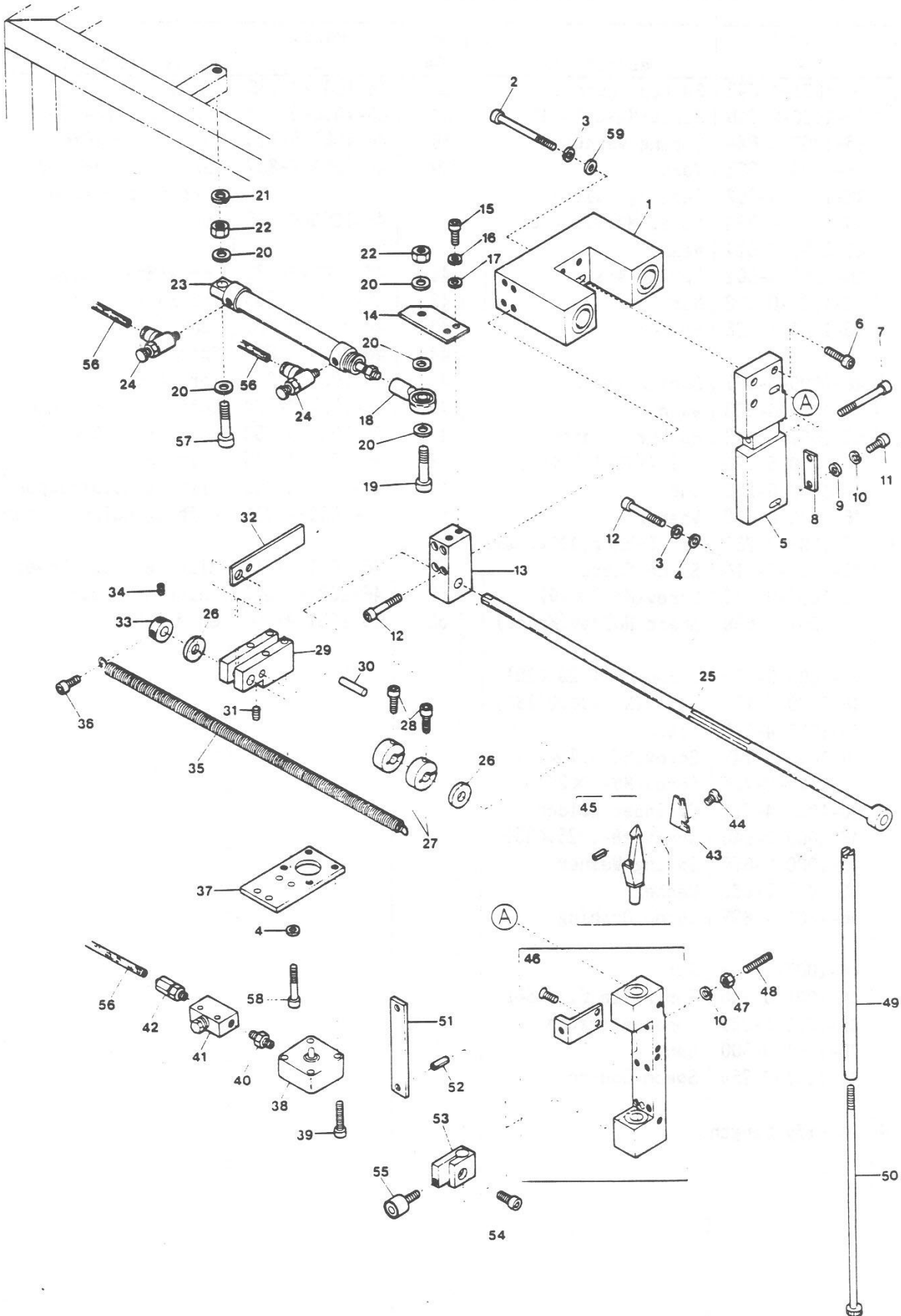
| Det. No | Parts No | Description | Det. No | Parts No | Description |
|-------------------|---------------|---------------------|---------|---------------|----------------------------------------|
| 1 | 46-1001-4-695 | Switch Support | 36 | 46-1001-4-136 | Tab Knife |
| 2 | 46-1000-9-746 | Screw(M4-0.7×8) | 37 | 46-1000-9-798 | Screw(11/128-56×4) |
| 3 | 46-1000-0-644 | Spring Washer | 38 | 46-1001-5-216 | Tab Finger(10mm) |
| 4 | 46-1000-0-665 | Washer | 39 | 46-1001-4-897 | Tab Finger Holder (Front), Complete |
| 5 | 46-1001-0-902 | Sensing Switch | 40 | 46-1000-0-015 | Nut |
| 6 | 46-1000-9-764 | Screw(M3-0.5×20) | 41 | 46-1000-9-737 | Screw(M4-0.7×20) |
| 7 | 46-1000-0-014 | Washer | 42 | 46-1001-4-700 | Tab Knife Shaft |
| 8 | 46-1000-0-002 | Spring Washer | 43 | 46-1001-4-692 | Lock Screw |
| 9 | 46-1000-0-012 | Nut | 44 | 46-1001-4-691 | Spacer |
| 10 | 46-1000-6-226 | Eyebolt | 45 | 46-1000-0-035 | Spring Pin |
| 11 | 46-1000-0-667 | Spring Washer | 46 | 46-1001-4-704 | Shaft Holder(Front) |
| 12 | 46-1000-0-663 | Washer | 47 | 46-1000-9-752 | Screw(M5-0.8×15) |
| 13 | 46-1001-4-143 | Rubber Cushion | 48 | 46-1001-4-144 | Bearing |
| 14 | 46-1000-6-190 | Bolt(M10-1.5×50) | 49 | 46-1001-4-815 | Lifting Guide(Upper) |
| 15 | 46-1000-0-260 | Nut | 50 | 46-1001-4-817 | Lifting Guide Spacer |
| 16 | 46-1000-0-612 | Washer | 51 | 46-1001-4-816 | Lifting Guide(Lower) |
| 17 ※ | 46-1001-0-260 | Air Tubing(4×2.5mm) | 52 | 46-1001-4-842 | Universal Joint |
| 18 | 46-1001-4-110 | Slide Shaft | 53 | 46-1001-4-701 | Guide Shaft |
| 19 | 46-1000-9-740 | Screw(M6-1×10) | | | |
| 20 | 46-1001-4-699 | Shaft Holder(Front) | | | |
| 21 | 46-1000-9-936 | Screw(M8-1.25×20) | | | |
| 22 | 46-1000-6-176 | Screw(M6-1×50(18)) | | | |
| 23 | 46-1001-4-129 | Plate | | | |
| 24 | 46-1000-9-747 | Screw(M4-0.7×10) | | | |
| 25 | 46-1000-9-754 | Screw(M6-1×35) | | | |
| 26 | 46-1001-4-711 | Cylinder Holder | | | |
| 27 | 46-1000-9-940 | Screw(M8-1.25×35) | | | |
| 28 | 46-1000-0-676 | Spring Washer | | | |
| 29 | 46-1000-0-666 | Washer | | | |
| 30 | 46-1001-4-899 | Guide Bushing | | | |
| 31 | 46-1001-4-709 | Nut | | | |
| 32 | 46-1001-0-240 | Tab Knife Cylinder | | | |
| 33 | 46-1001-0-921 | Sensing Switch | | | |
| 34 | 46-1001-0-300 | Band | | | |
| 35 | 46-1001-0-254 | Speed Control | | | |
| ※ Specify length. | | | | | |

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15

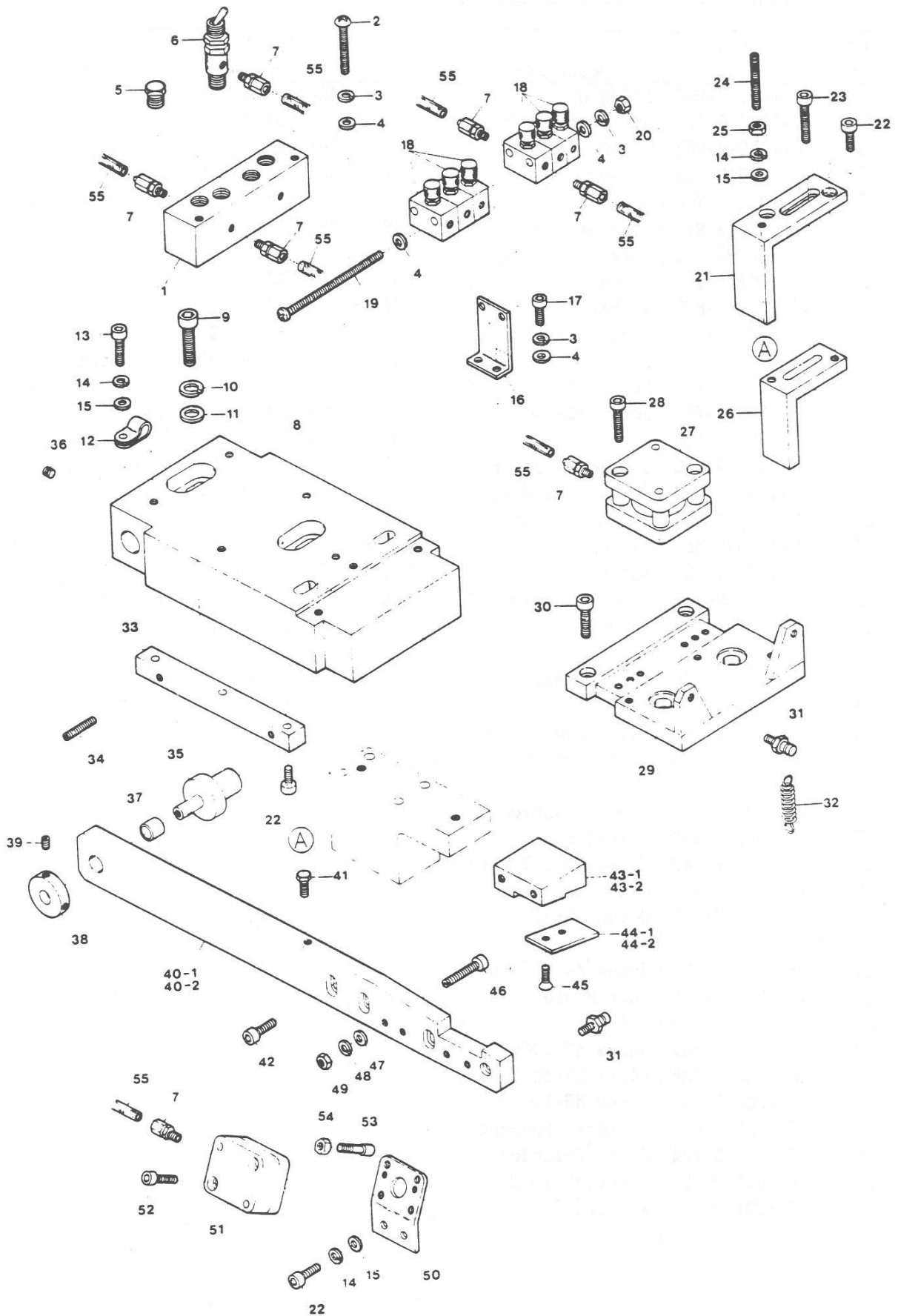


TAB KNIFE DRIVE PARTS

| Det. No | Parts No | Description |
|---------|---------------|--------------------|
| 1 | 46-1001-4-896 | Slide Unit |
| 2 | 46-1000-6-225 | Screw(M6-1×65) |
| 3 | 46-1000-0-667 | Spring Washer |
| 4 | 46-1000-0-663 | Washer |
| 5 | 46-1001-4-706 | Block |
| 6 | 46-1000-9-970 | Screw(M6-1×20) |
| 7 | 46-1000-6-176 | Screw(M6-1×50) |
| 8 | 46-1001-4-129 | Plate |
| 9 | 46-1000-0-665 | Washer |
| 10 | 46-1000-0-644 | Spring Washer |
| 11 | 46-1000-9-747 | Screw(M4-0.7×10) |
| 12 | 46-1000-9-754 | Screw(M6-1×35) |
| 13 | 46-1001-4-698 | Block |
| 14 | 46-1001-4-810 | Cylinder Support |
| 15 | 46-1000-9-752 | Screw(M5-0.8×10) |
| 16 | 46-1000-0-600 | Spring Washer |
| 17 | 46-1000-0-669 | Washer |
| 18 | 46-1001-4-402 | Rod End |
| 19 | 46-1000-9-758 | Screw(M8-1.25×30) |
| 20 | 46-1000-0-666 | Washer |
| 21 | 46-1000-0-676 | Spring Washer |
| 22 | 46-1000-0-016 | Nut |
| 23 | 46-1001-0-245 | Tab Knife Cylinder |
| 24 | 46-1001-0-254 | Speed Control |
| 25 | 46-1001-5-233 | Shaft |
| 26 | 46-1001-4-120 | Rubber Cushion |
| 27 | 46-1001-5-232 | Switch Ring |
| 28 | 46-1000-9-749 | Screw(M4-0.7×16) |
| 29 | 46-1001-4-697 | Cylinder Holder |
| 30 | 46-1001-4-117 | Holder Shaft |
| 31 | 46-1000-9-736 | Screw(M4-0.7×6) |
| 32 | 46-1001-4-116 | Lock Plate |
| 33 | 46-1001-4-119 | Collar |
| 34 | 46-1000-3-662 | Screw(M6-1×6) |
| 35 | 46-1001-4-108 | Clamp Shaft Spring |
| 36 | 46-1000-9-980 | Screw(M6-1×10) |
| 37 | 46-1001-4-693 | Cylinder Support |
| 38 | 46-1001-0-244 | Clamp Cylinder |
| 39 | 46-1000-9-753 | Screw(M6-1×25) |
| 40 | 46-1001-0-032 | Nipple(M5) |

| Det. No | Parts No | Description |
|-------------------|---------------|------------------------------------|
| 41 | 46-1001-0-054 | Speed Control |
| 42 | 46-1001-0-258 | Connector |
| 43 | 46-1001-4-136 | Tab Knife |
| 44 | 46-1000-9-798 | Screw(11/128-56×4) |
| 45 | 46-1001-5-216 | Tab Finger(10mm) |
| 46 | 46-1001-4-898 | Tab Finger Holder (Rear), Complete |
| 47 | 46-1000-0-015 | Nut |
| 48 | 46-1000-9-737 | Screw(M4-0.7×20) |
| 49 | 46-1001-4-700 | Tab Knife Shaft |
| 50 | 46-1001-4-692 | Lock Screw |
| 51 | 46-1001-4-691 | Spacer |
| 52 | 46-1000-0-035 | Spring Pin |
| 53 | 46-1001-4-705 | Shaft Holder (Rear) |
| 54 | 46-1000-9-752 | Screw(M5-0.8×15) |
| 55 | 46-1001-4-144 | Bearing |
| 56* | 46-1001-0-260 | Air Tubing(4×2.5mm) |
| 57 | 46-1000-6-220 | Screw(M8-1.25×40) |
| 58 | 46-1000-9-755 | Screw(M6-1×45) |
| 59 | 46-1000-0-428 | Washer |
| * Specify Length. | | |

16



CARRIAGE ASSEMBLY

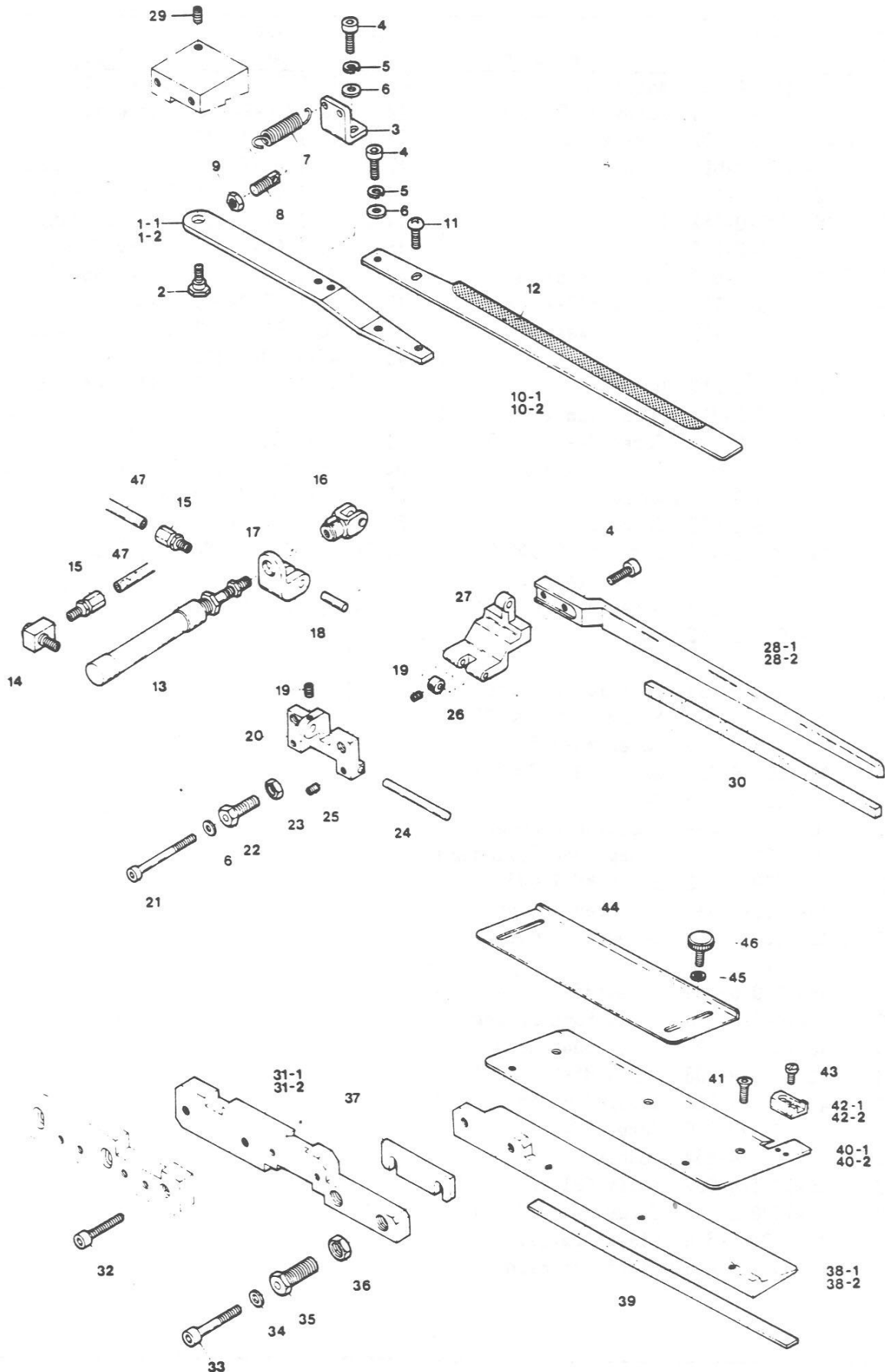
| Det. No | Parts No | Description | Det. No | Parts No | Description |
|---------|---------------|---------------------|---------|---------------|---------------------|
| 1 | 46-1001-4-625 | Manifold | 41 | 46-1000-6-215 | Screw(M4-0.7×10) |
| 2 | 46-1000-6-214 | Screw(M3-0.5×40) | 42 | 46-1000-9-976 | Screw(M6-1×15) |
| 3 | 46-1000-0-002 | Spring Washer | 43-1 | 46-1001-4-604 | Support(Left) |
| 4 | 46-1000-0-014 | Washer | 43-2 | 46-1001-4-603 | " (Right) |
| 5 | 46-1001-0-117 | Seal Plug | 44-1 | 46-1001-4-011 | Plate(Left) |
| 6 | 46-1001-0-182 | TAC Valve | 44-2 | 46-1001-4-010 | " (Right) |
| 7 | 46-1001-0-258 | Connector | 45 | 46-1000-9-776 | Screw(M4-1.7×10) |
| 8 | 46-1001-4-623 | Carriage Block | 46 | 46-1000-6-216 | Screw(M6-1×40) |
| 9 | 46-1000-9-761 | Screw(M10-1.5×55) | 47 | 46-1000-0-663 | Washer |
| 10 | 46-1000-0-439 | Spring Washer | 48 | 46-1000-0-667 | Spring Washer |
| 11 | 46-1000-0-612 | Washer | 49 | 46-1000-0-011 | Nut |
| 12 | 46-1006-3-612 | Cord Clamp(φ6.8-4N) | 50 | 46-1001-4-597 | Cylinder Bracket |
| 13 | 46-1000-9-992 | Screw(M4-0.7×10) | 51 | 46-1001-0-251 | Cylinder |
| 14 | 46-1000-0-644 | Spring Washer | 52 | 46-1000-9-935 | Screw(M5-0.8×20) |
| 15 | 46-1000-0-665 | Washer | 53 | 46-1001-4-605 | Screw |
| 16 | 46-1001-4-606 | Support | 54 | 46-1000-0-009 | Nut |
| 17 | 46-1000-9-744 | Screw(M3-0.5×10) | 55 ※ | 46-1001-0-260 | Air Tubing(4×2.5mm) |
| 18 | 46-1001-0-054 | Speed Control | | | ※ Specify Length. |
| 19 | 46-1000-6-248 | Screw(M3-0.5×80) | | | |
| 20 | 46-1000-0-012 | Nut | | | |
| 21 | 46-1001-4-598 | Positioner(Upper) | | | |
| 22 | 46-1000-9-747 | Screw(M4-0.7×10) | | | |
| 23 | 46-1000-9-750 | Screw(M4-0.7×20) | | | |
| 24 | 46-1000-6-213 | Screw(M4-0.7×30) | | | |
| 25 | 46-1000-0-015 | Nut | | | |
| 26 | 46-1001-4-599 | Positioner(Lower) | | | |
| 27 | 46-1001-0-250 | Clamp Foot Cylinder | | | |
| 28 | 46-1000-9-755 | Screw(M6-1×45) | | | |
| 29 | 46-1001-4-622 | Cylinder Holder | | | |
| 30 | 46-1000-9-970 | Screw(M6-1×20) | | | |
| 31 | 46-1000-6-183 | Screw(M6-1×6.5) | | | |
| 32 | 46-1001-4-030 | Clamp Foot Spring | | | |
| 33 | 46-1001-4-005 | Adjustment Block | | | |
| 34 | 46-1000-9-738 | Screw(M5-0.8×30) | | | |
| 35 | 46-1001-4-591 | Clamp Foot Shaft | | | |
| 36 | 46-1000-9-740 | Screw(M6-1×10) | | | |
| 37 | 46-1001-4-654 | Bushing | | | |
| 38 | 46-1001-4-592 | Shaft Collar | | | |
| 39 | 46-1000-3-655 | Screw(M4-0.7×10) | | | |
| 40-1 | 46-1001-4-638 | Clamp Arm(Left) | | | |
| 40-2 | 46-1001-4-639 | Clamp Arm(Right) | | | |

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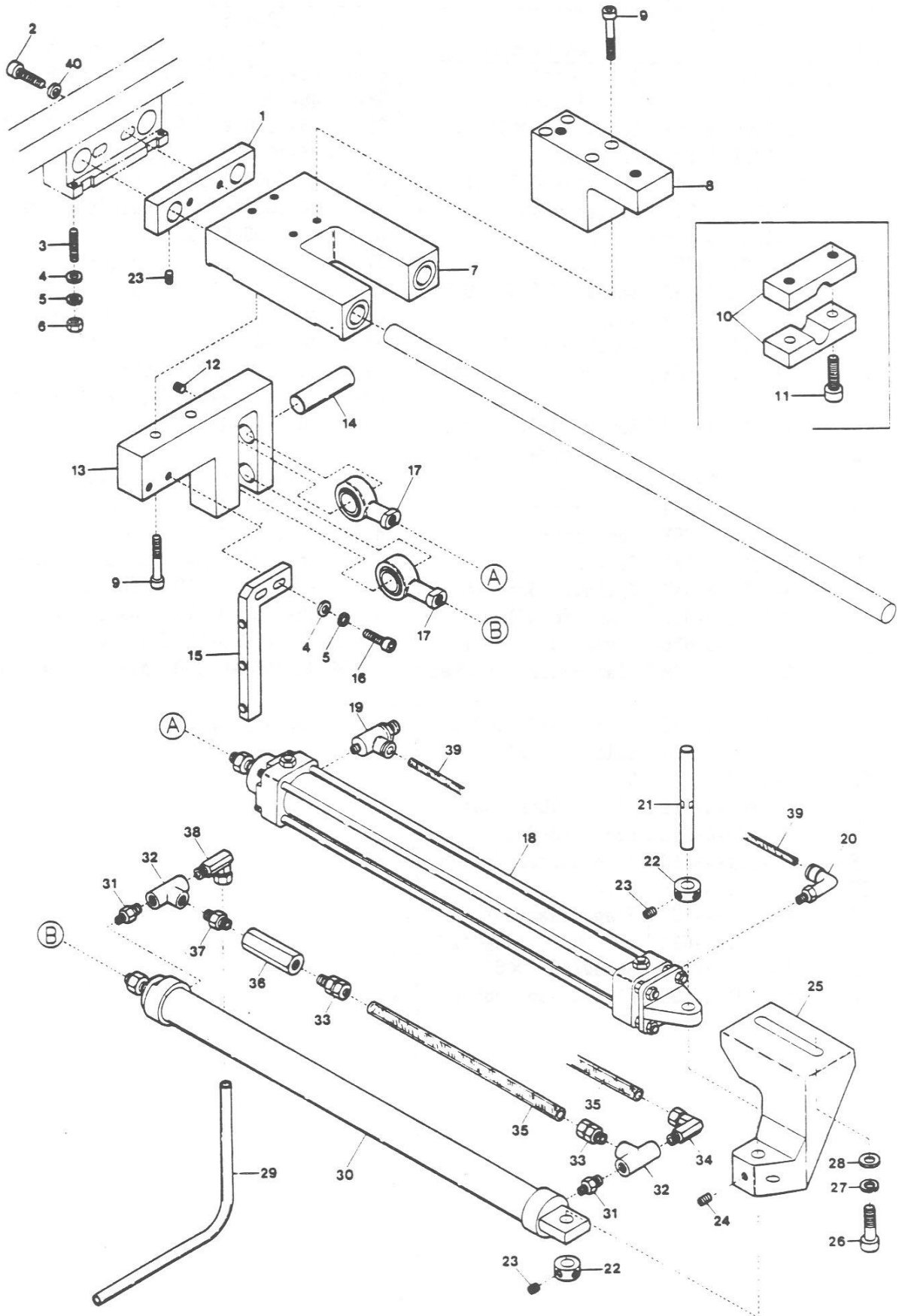
17



CLAMPING & FOLDING PARTS

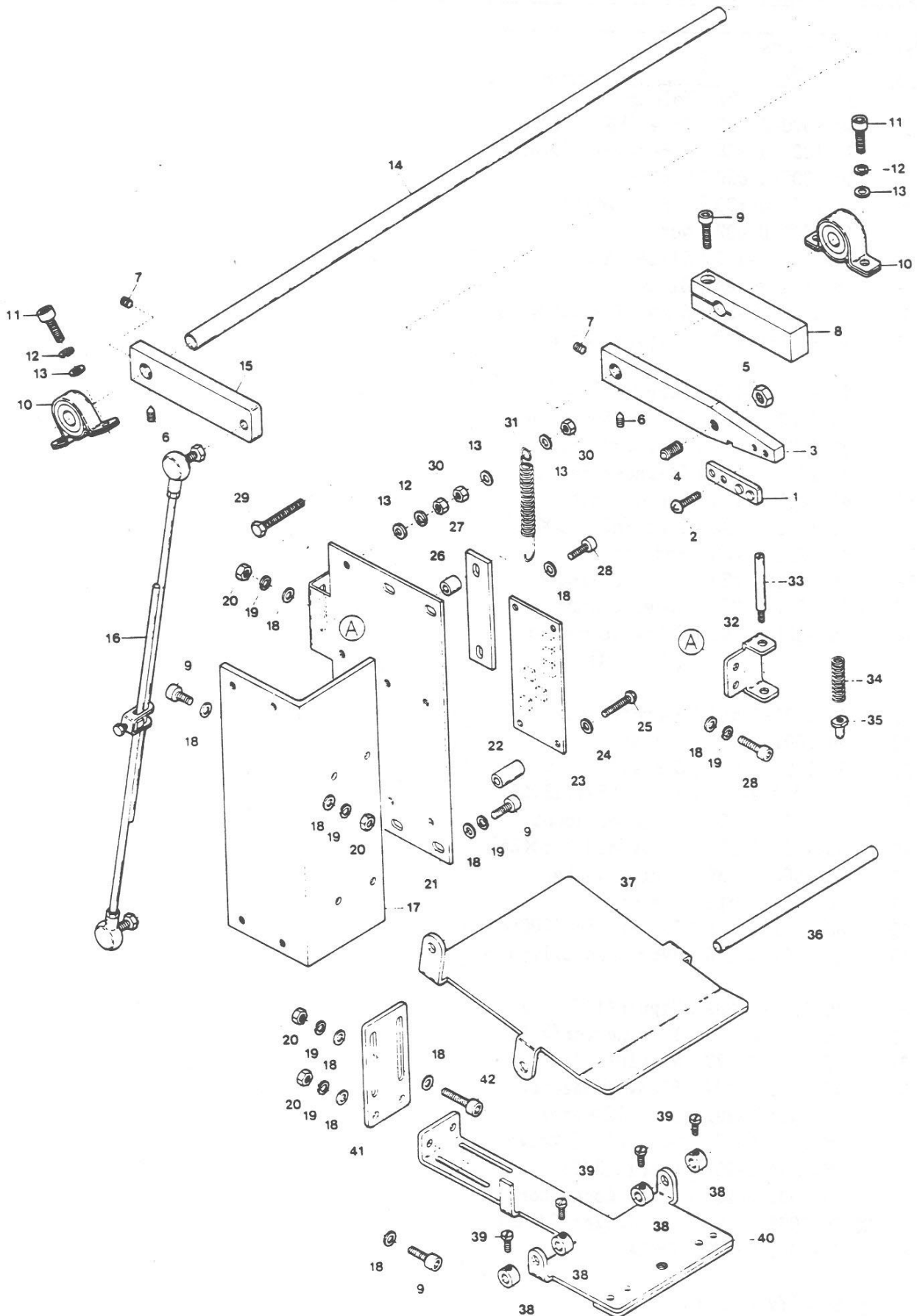
| Det. No | Parts No | Description | Det. No | Parts No | Description |
|---------|---------------|---------------------|---------|---------------|----------------------|
| 1-1 | 46-1001-4-620 | Arm (Left) | 31-1 | 46-1001-4-646 | Connecting Arm(Left) |
| 1-2 | 46-1001-4-621 | " (Right) | 31-2 | 46-1001-4-645 | " (Right) |
| 2 | 46-1000-6-188 | Screw(M6-1×8) | 32 | 46-1000-9-976 | Screw(M6-1×15) |
| 3 | 46-1001-4-607 | Bracket | 33 | 46-1000-9-964 | Screw(M6-1×40) |
| 4 | 46-1000-9-746 | Screw(M4-0.7×8) | 34 | 46-1000-0-663 | Washer |
| 5 | 46-1000-0-644 | Spring Washer | 35 | 46-1000-6-184 | Bolt(M12-1×21) |
| 6 | 46-1000-0-665 | Washer | 36 | 46-1000-6-185 | Nut |
| 7 | 46-1001-4-653 | Spring | 37 | ----- | Spacer |
| 8 | 46-1000-6-638 | Screw(5/32-40×9.5) | | | (See page 35,36) |
| 9 | 46-1000-0-339 | Nut | 38-1 | 46-1001-4-629 | Clamp Foot(Left) |
| 10-1 | 46-1001-4-970 | Brush Blade(Left) | 38-2 | 46-1001-4-628 | " (Right) |
| 10-2 | 46-1001-4-969 | " (Right) | 39 | 46-1001-4-589 | Clamp Foot Rubber |
| 11 | 46-1000-6-227 | Screw(M4-0.7×5) | 40-1 | 46-1001-4-644 | Cover Plate(Left) |
| 12 | | Reflective Sheet | 40-2 | 46-1001-4-643 | " (Right) |
| 13 | 46-1001-0-274 | Cylinder | 41 | 46-1000-6-217 | Screw(M3-0.5×3.25) |
| 14 | 46-1001-0-019 | L-Connector | 42-1 | 46-1001-4-640 | Stop(Left) |
| 15 | 46-1001-0-258 | Connector | 42-2 | 46-1001-4-641 | " (Right) |
| 16 | 46-1001-0-284 | Clevis | 43 | 46-1000-5-044 | Screw(1/8-44×2.4) |
| 17 | 46-1001-4-587 | Cylinder Bracket | 44 | 46-1001-4-619 | Flap Gauge |
| 18 | 46-1001-4-609 | Shaft(for47) | 45 | 46-1000-0-014 | Washer |
| 19 | 46-1000-3-656 | Screw(M3-0.5×3) | 46 | 46-1000-9-791 | Screw(M3-0.5×6) |
| 20 | 46-1001-4-608 | Flap Holder Bracket | 47 ※ | 46-1001-0-260 | Air Tubing(4×2.5mm) |
| 21 | 46-1000-6-235 | Screw(M4-0.7×35) | | | ※ Specify Length. |
| 22 | 46-1000-6-193 | Bolt(M8×19) | | | |
| 23 | 46-1000-0-145 | Nut | | | |
| 24 | 46-1001-4-611 | Flap Holder Shaft | | | |
| 25 | 46-1000-6-212 | Screw(M5-0.8×6) | | | |
| 26 | 46-1001-4-610 | Flap Holder Collar | | | |
| 27 | 46-1001-4-614 | Flap Holder | | | |
| 28-1 | 46-1001-4-627 | Flap Clamp(Left) | | | |
| 28-2 | 46-1001-4-626 | " (Right) | | | |
| 29 | 46-1000-3-662 | Screw(M6-1×6) | | | |
| 30 | 46-1001-4-590 | Flap Clamp Rubber | | | |

18



CARRIAGE DRIVE COMPONENTS

| Det. No | Parts No | Description |
|---------|---------------|------------------------------|
| 1 | 46-1001-4-101 | Holder |
| 2 | 46-1000-6-220 | Screw(M8-1.25×30) |
| 3 | 46-1000-9-738 | Screw(M5-0.8×30) |
| 4 | 46-1000-0-669 | Washer |
| 5 | 46-1000-0-600 | Spring Washer |
| 6 | 46-1000-0-009 | Nut |
| 7 | 46-1001-4-112 | Slide Unit |
| 8 | 46-1001-4-106 | Block |
| 9 | 46-1000-9-759 | Screw(M8-1.25×55) |
| 10 | 46-1001-4-613 | Shipping Lock |
| 11 | 46-1000-9-753 | Screw(M6-1×30) |
| 12 | 46-1000-6-212 | Screw(M5-0.8×6) |
| 13 | 46-1001-4-624 | Cylinder Holder |
| 14 | 46-1001-4-600 | Cylinder Shaft |
| 15 | 46-1001-4-773 | Magnet Unit |
| 16 | 46-1000-9-935 | Screw(M5-0.8×20) |
| 17 | 46-1001-4-400 | Rod End |
| 18 | 46-1001-0-252 | Drive Cylinder |
| 19 | 46-1001-0-255 | Speed Control |
| 20 | 46-1001-0-267 | Elbow Connector (φ 6-1/4) |
| 21 | 46-1001-4-648 | Support Shaft |
| 22 | 46-1001-4-651 | Collar |
| 23 | 46-1000-3-662 | Screw(M6-1×6) |
| 24 | 46-1000-9-916 | Screw(M8-1.25×8) |
| 25 | 46-1001-4-652 | Cylinder Mount |
| 26 | 46-1000-9-760 | Screw(M10-1.5×35) |
| 27 | 46-1000-0-439 | Spring Washer |
| 28 | 46-1000-0-612 | Washer |
| 29 | 46-1001-0-295 | Copper Pipe(600mm) |
| 30 | 46-1001-0-276 | Hydraulic Cylinder |
| 31 | 46-1001-0-209 | Nipple(1/4-3/8) |
| 32 | 46-1001-0-210 | T-Connector(3/8) |
| 33 | 46-1001-0-277 | Nipple(3/8) |
| 34 | 46-1001-0-207 | Elbow Connector |
| 35 ※ | 46-1001-0-282 | Tube(12×8mm) |
| 36 | 46-1001-0-176 | Oil Relief Valve |
| 37 | 46-1001-0-208 | Nipple(3/8) |
| 38 | 46-1001-0-205 | Elbow Connector |
| 39 ※ | 46-1001-0-261 | Air Tubing(6×4mm) |
| 40 | 46-1000-0-429 | Washer |
| | ※ | Specify Length. |



FOOT TREADLE ASSOCIATE PARTS

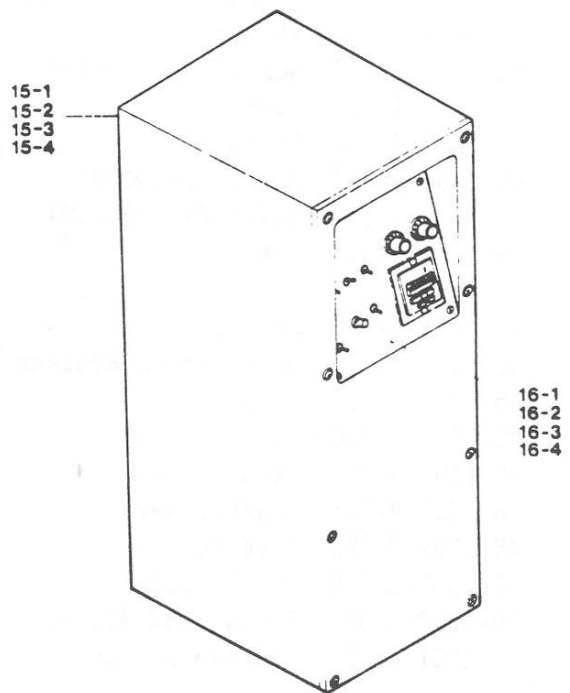
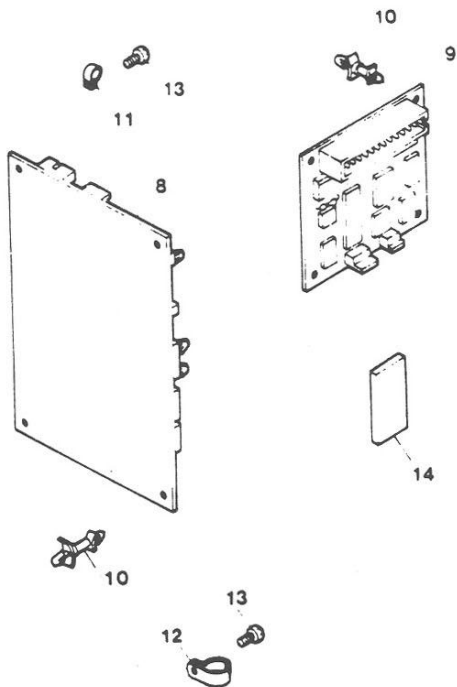
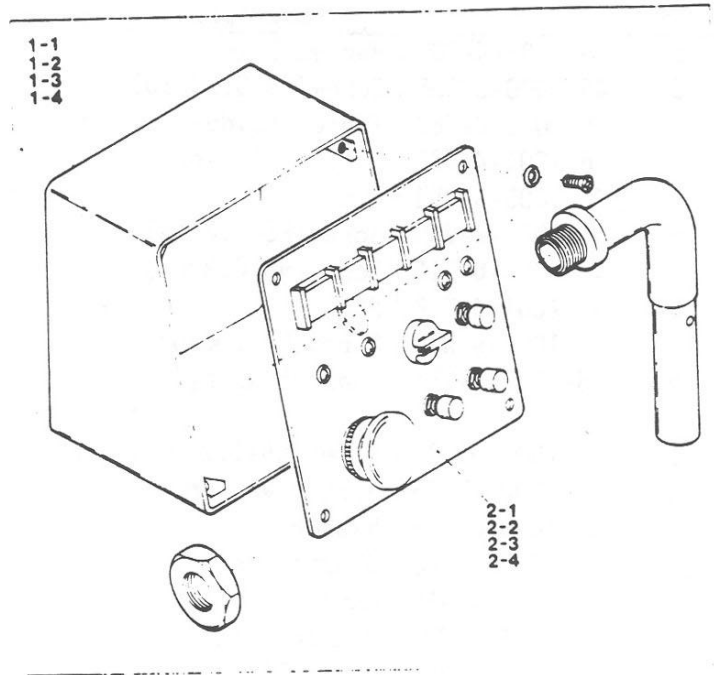
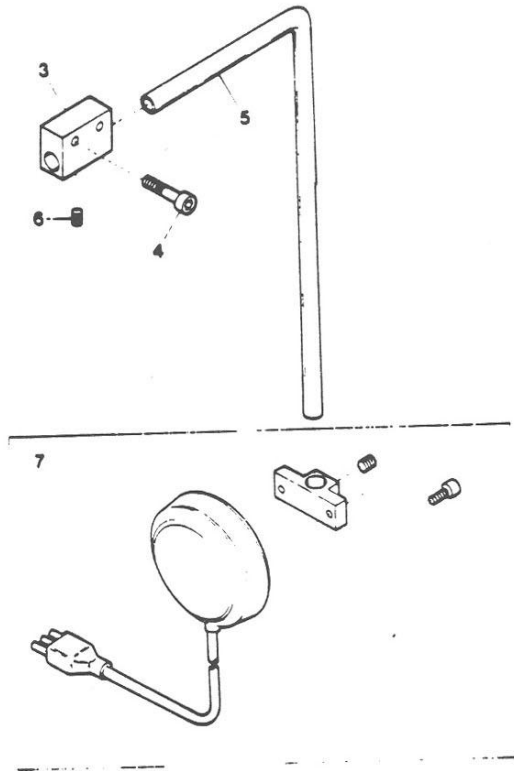
| Det. No | Parts No | Description |
|---------|---------------|---------------------|
| 1 | 46-1001-4-767 | Magnet Unit |
| 2 | 46-1000-9-956 | Screw(M3-0.5×10) |
| 3 | 46-1001-4-763 | Magnet Holder |
| 4 | 46-1001-4-725 | Spring Plunger |
| 5 | 46-1000-0-054 | Nut |
| 6 | 46-1000-6-206 | Screw(M5-0.8×8) |
| 7 | 46-1000-6-212 | Screw(M5-0.8×6) |
| 8 | 46-1001-4-918 | Stop |
| 9 | 46-1000-9-970 | Screw(M6-1×20) |
| 10 | 46-1001-4-758 | Shaft Bearing |
| 11 | 46-1000-9-936 | Screw(M8-1.25×20) |
| 12 | 46-1000-0-676 | Spring Washer |
| 13 | 46-1000-0-666 | Washer |
| 14 | 46-1001-4-769 | Shaft(Upper) |
| 15 | 46-1001-4-919 | Lever |
| 16 | 46-1001-4-722 | Pitman Unit |
| 17 | 46-1001-4-921 | Angle Plate |
| 18 | 46-1000-0-663 | Washer |
| 19 | 46-1000-0-667 | Spring Washer |
| 20 | 46-1000-0-011 | Nut |
| 21 | 46-1001-4-920 | Plate |
| 22 | 46-1001-0-914 | Spacer |
| 23 | 46-1001-4-903 | Treadle Switch Unit |
| 24 | 46-1000-0-014 | Washer |
| 25 | 46-1000-9-957 | Screw(M3-0.5×16) |
| 26 | 46-1001-4-917 | Spacer |
| 27 | 46-1001-4-723 | Plate |
| 28 | 46-1000-9-970 | Screw(M6-1×20) |
| 29 | 46-1000-9-978 | Bolt(M8-1.25×50) |
| 30 | 46-1000-0-016 | Nut |
| 31 | 46-1001-4-757 | Spring |
| 32 | 46-1001-4-759 | Stop Spring Bracket |
| 33 | 46-1001-4-756 | Stop Pin |
| 34 | 46-1001-4-760 | Stop Spring |
| 35 | 46-1001-4-761 | Stop(Upper) |
| 36 | 46-1001-4-765 | Shaft(Lower) |
| 37 | 46-1001-4-752 | Treadle |
| 38 | 46-1003-2-719 | Shaft Collar |
| 39 | 46-1000-4-351 | Screw(9/64-40×7) |
| 40 | 46-1001-4-753 | Treadle Support |
| 41 | 46-1001-4-739 | Plate |
| 42 | 46-1000-6-201 | Screw(M6-1×50) |

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20



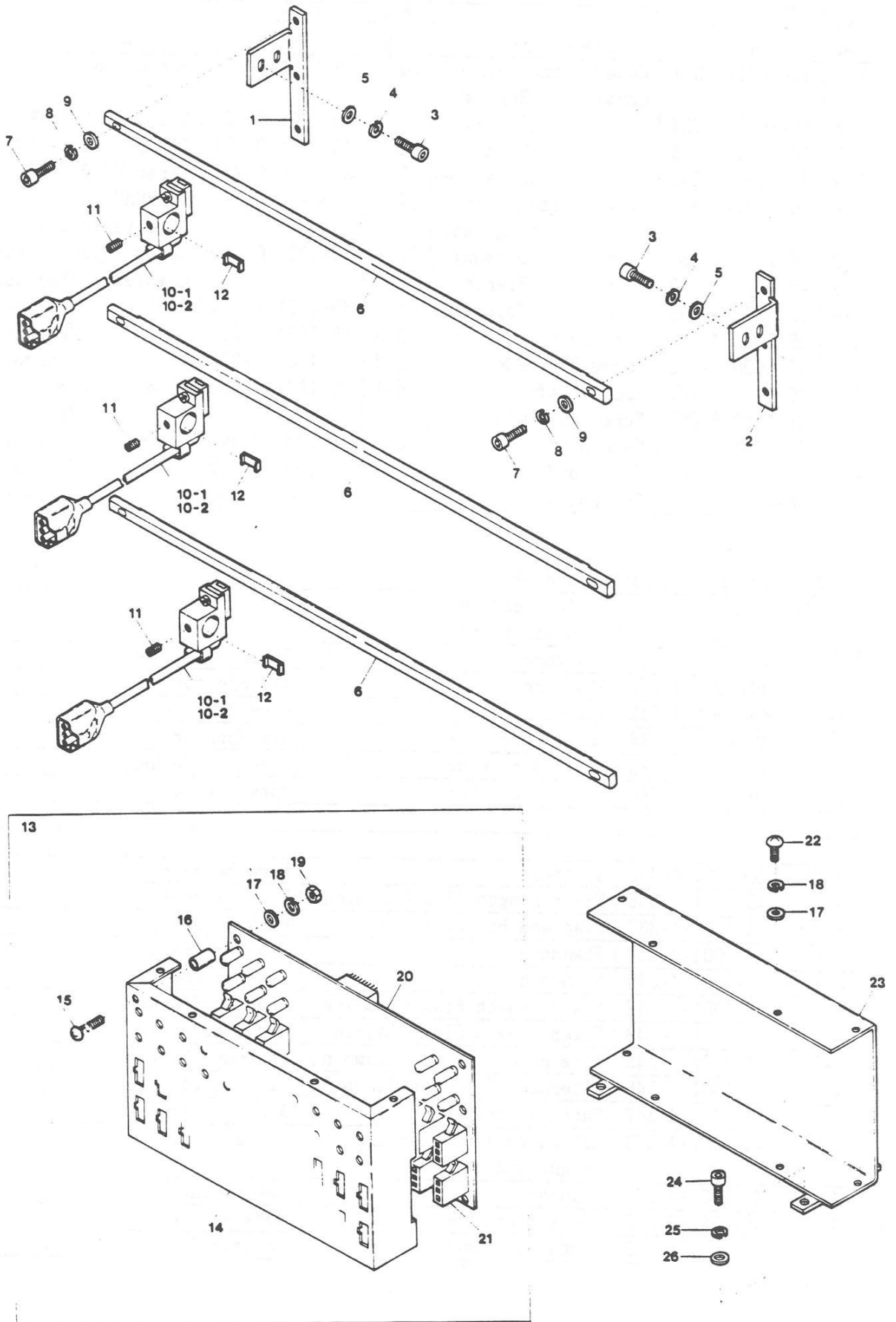
CONTROL PANELS, KNEE SWITCH, EPROM LIST

| Ref. No | Parts No | Description | Ref. No | Parts No | Description |
|---------|---------------|---------------------------------------|---------|---------------|---------------------------------------|
| 1-1 | 46-1001-4-911 | Upper Switch Plate Complete (English) | 10 | 46-1001-0-954 | Board Support |
| 1-2 | 46-1001-4-254 | " (German) | 11 | 46-1001-0-720 | Clamp (φ 12.2-7N) |
| 1-3 | 46-1001-4-255 | " (French) | 12 | 46-1001-0-721 | Clamp (φ 19.0-11N) |
| 1-4 | 46-1001-4-270 | " (Japanese) | 13 | 46-1000-9-975 | Screw (M4-0.7×8.8) |
| 2-1 | 46-1001-4-987 | Upper Switch Plate (English) | 14 | ----- | "EPROM" (See table below.) |
| 2-2 | 46-1001-4-988 | " (German) | 15-1 | 46-1001-0-916 | Lower Switch Plate Complete (English) |
| 2-3 | 46-1001-4-989 | " (French) | 15-2 | 46-1001-4-256 | " (German) |
| 2-4 | 46-1001-4-995 | " (Japanese) | 15-3 | 46-1001-4-257 | " (French) |
| 3 | 46-1001-4-738 | Knee Switch Holder | 15-4 | 46-1001-4-271 | " (Japanese) |
| 4 | 46-1000-6-205 | Screw (M5-0.8×30) | 16-1 | 46-1001-4-990 | Lower Switch Plate (English) |
| 5 | 46-1001-4-747 | Mount Shaft | 16-2 | 46-1001-4-991 | " (German) |
| 6 | 46-1000-3-662 | Screw (M6-1×6) | 16-3 | 46-1001-4-992 | " (French) |
| 7 | 46-1001-4-909 | Knee Switch | 16-4 | 46-1001-4-996 | " (Japanese) |
| 8 | 46-1001-4-901 | I,O Board | | | |
| 9 | 46-1001-4-900 | CPU Board | | | |

"EPROM" list for Series 46 and 47

| EPROM No | Parts No | Application description | for use with |
|----------|---------------|-------------------------------------------|--------------------|
| 3-2 | 46-1001-4-280 | Standard | Trouser Stacker |
| 3-3 | 46-1001-4-281 | Standard | Air Ejector |
| 3-4 | 46-1001-4-282 | Standard | Work Remover |
| 3-6 | 46-1001-4-284 | Darts Stretcher | Air Ejector |
| 3-7 | 46-1001-4-285 | Darts Stretcher | Trouser Stacker |
| 3-8 | 46-1001-4-286 | Darts Stretcher | Work Remover |
| | | | |
| 4-2 | 46-1001-4-335 | Standard | Work Remover |
| 4-3 | 46-1001-4-336 | Fixed Length Flap Clamping | Work Remover |
| 4-4 | 46-1001-4-337 | Flap and Bag Clamping | Work Remover |
| 4-6 | 46-1001-4-339 | Standard | Trouser Stacker |
| 4-7 | 46-1001-4-340 | Standard | Air Ejector |
| 4-9 | 46-1001-4-342 | Fixed Length Flap Clamping | Trouser Stacker |
| 4-10 | 46-1001-4-343 | Fixed Length Flap Clamping | Air Ejector |
| 4-12 | 46-1001-4-345 | Alternate Flap/Bag Clamping | Trouser Stacker |
| 4-13 | 46-1001-4-346 | Alternate Flap/Bag Clamping | Air Ejector |
| 4-14 | 46-1001-4-347 | Darts Stretcher | Air Ejector |
| 4-15 | 46-1001-4-348 | Alternate Work Clamping Right and Left | Air Ejector |
| 4-16 | 46-1001-4-349 | Standard | Reece Coat Stacker |
| 4-17 | 46-1001-4-350 | Darts Stretcher | Work Remover |
| 4-18 | 46-1001-4-351 | Darts Stretcher | Trouser Stacker |

21



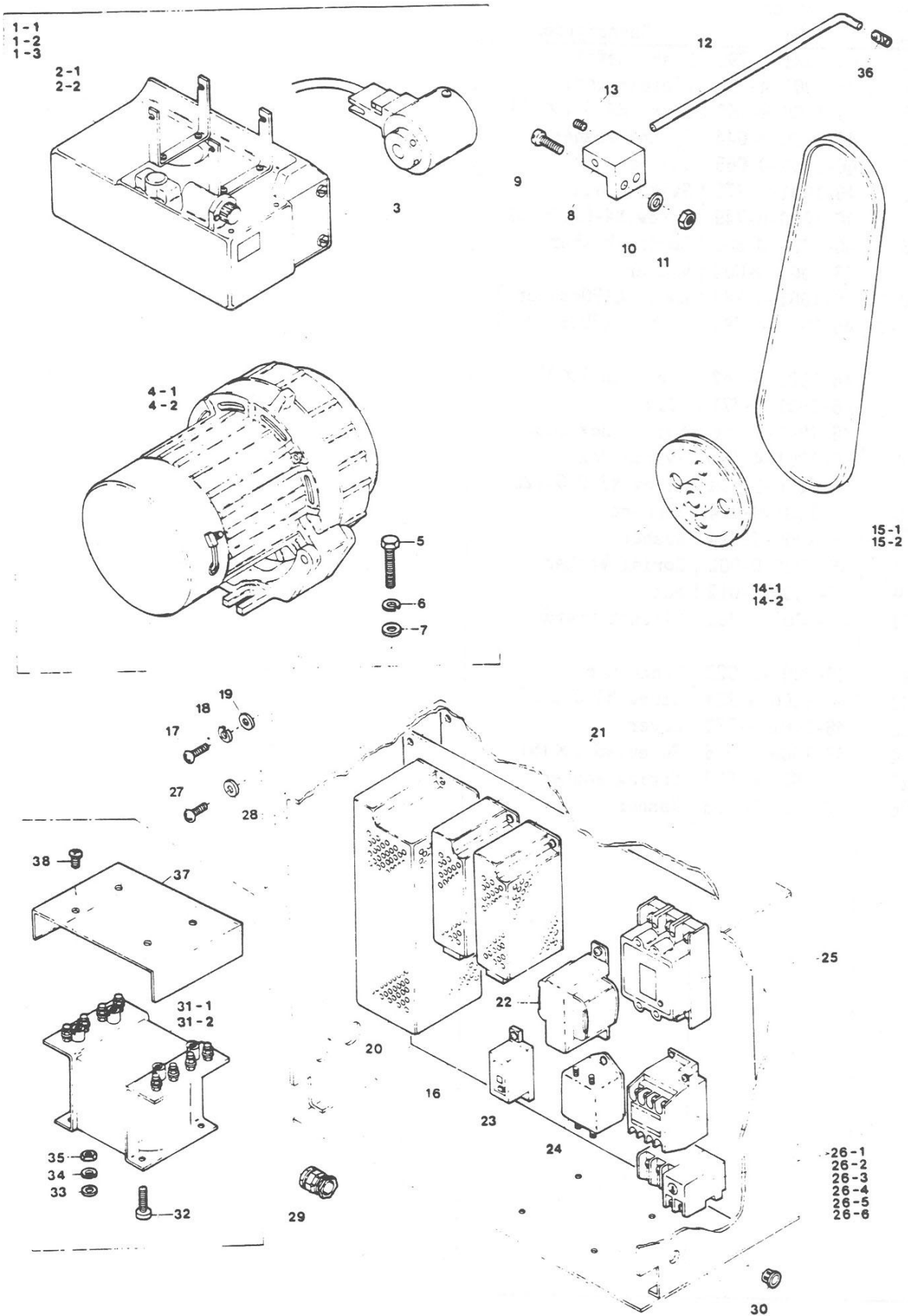
OPERATIONAL MAGNETIC SWITCH,
RECEPTACLE BOX

| Ref. No | Parts No | Description |
|---------|---------------|---------------------|
| 1 | 46-1001-4-790 | Plate(Left) |
| 2 | 46-1001-4-791 | Plate(Right) |
| 3 | 46-1000-9-748 | Screw(M4-0.7×12) |
| 4 | 46-1000-0-644 | Spring Washer |
| 5 | 46-1000-0-665 | Washer |
| 6 | 46-1001-4-772 | Switch Rail |
| 7 | 46-1000-9-749 | Screw(M4-0.7×15) |
| 8 | 46-1000-0-600 | Spring Washer |
| 9 | 46-1000-0-669 | Washer |
| 10-1 | 46-1001-4-783 | Hall IC(90cm-Cord) |
| 10-2 | 46-1001-4-784 | " (70cm ") |
| 11 | 46-1000-3-662 | Screw(M6-1×6) |
| 12 | 46-1001-4-771 | Clip |
| 13 | 46-1001-4-916 | Switch Box Complete |
| 14 | 46-1001-4-787 | Switch Box |
| 15 | 46-1000-9-799 | Screw(M3-0.5×25) |
| 16 | 46-1001-0-924 | Support |
| 17 | 46-1000-0-014 | Washer |
| 18 | 46-1000-0-002 | Spring Washer |
| 19 | 46-1000-0-012 | Nut |
| 20 | 46-1001-4-902 | Circuit Board |
| 21 | 46-1001-0-923 | Connector |
| 22 | 46-1000-9-994 | Screw(M3-0.5×7) |
| 23 | 46-1001-4-789 | Cover |
| 24 | 46-1000-9-976 | Screw(M6-1×15) |
| 25 | 46-1000-0-667 | Spring Washer |
| 26 | 46-1000-0-663 | Washer |

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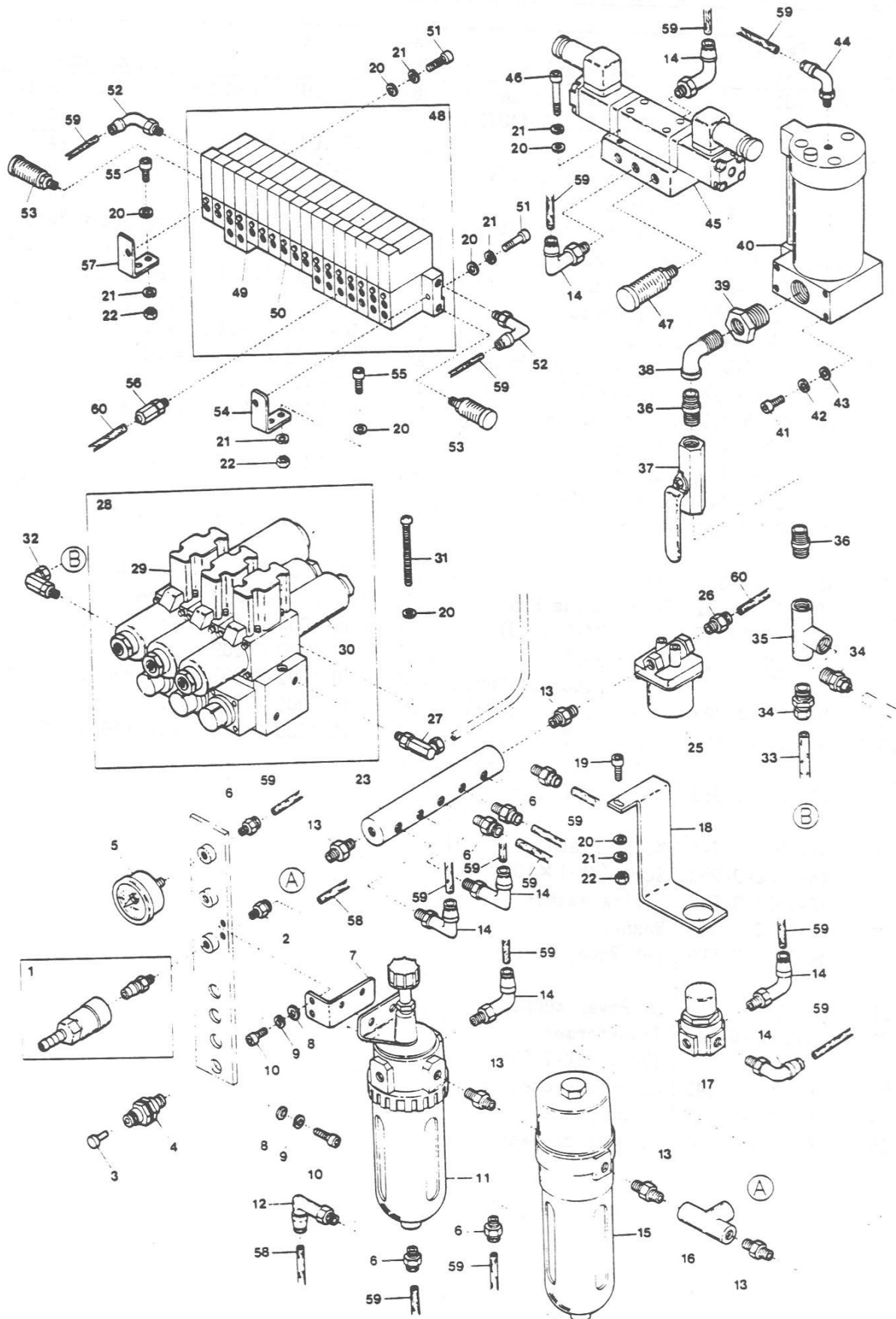
Phone: +420 582 309 146 (Service), +420 582 309 286 (Spare Parts); Fax: +420 582 360 606



MAIN POWER SUPPLY & DRIVE MOTOR

| Det. No | Parts No | Description | Det. No | Parts No | Description |
|---------|---------------|----------------------------------------|---------|---------------|------------------------------------------|
| 1-1 | 46-1001-0-900 | Motor Unit(3Phase 200,220,380,440V) | 26-1 | 46-1001-0-894 | Motor Start Relay (200V) |
| 1-2 | 46-1001-0-965 | Motor Unit (Single Phase 100V) | 26-2 | 46-1001-0-895 | " (220V) |
| 1-3 | 46-1001-0-978 | Motor Unit (Single Phase 220V) | 26-3 | 46-1001-0-896 | " (380V) |
| 2-1 | 46-1001-0-957 | Motor Control | 26-4 | 46-1001-0-897 | " (440V) |
| 2-2 | 46-1001-0-977 | " (Single Phase) | 26-5 | 46-1001-0-913 | Motor Start Relay (Single Phase 100V) |
| 3 | 46-1001-0-956 | Synchronizer | 26-6 | 46-1001-0-979 | Motor Start Relay (Single Phase 220V) |
| 4-1 | 46-1001-0-955 | Motor | 27 | 46-1000-9-992 | Screw(M4-0.7×10) |
| 4-2 | 46-1001-0-976 | " (Single Phase) | 28 | 46-1000-0-665 | Washer |
| 5 | 46-1000-9-928 | Screw(M10-1.5×30) | 29 | 46-1001-0-959 | Bushing |
| 6 | 46-1000-0-439 | Spring Washer | 30 | 46-1001-0-958 | Bushing |
| 7 | 46-1000-0-432 | Washer | 31-1 | 46-1001-0-137 | Transformer (380,440V) |
| 8 | 46-1001-4-418 | Pin Holder | 31-2 | 46-1001-0-998 | Transformer (100,110V) |
| 9 | 46-1000-4-445 | Screw(11/64-40×11) | 32 | 46-1000-9-751 | Screw(M5-0.8×15) |
| 10 | 46-1000-0-530 | Washer | 33 | 46-1000-0-669 | Washer |
| 11 | 46-1000-0-334 | Nut | 34 | 46-1000-0-600 | Spring Washer |
| 12 | 46-1001-4-421 | Positioning Pin | 35 | 46-1000-0-009 | Nut |
| 13 | 46-1000-9-736 | Screw(M4-0.7×6) | 36 | 46-1002-2-837 | Synchronizer Cushion |
| 14-1 | 46-1001-4-797 | Motor Pulley (100mm)(60Hz) | 37 | 46-1001-4-999 | Transformer Cover |
| 14-2 | 46-1001-4-798 | " (120") (50Hz) | 38 | 46-1000-9-770 | Screw(M4-0.7×8) |
| 15-1 | 46-1001-0-987 | V-Belt(M52 inch) (60Hz) | | | |
| 15-2 | 46-1001-0-988 | " (M53 inch) (50Hz) | | | |
| 16 | 46-1001-4-746 | Mount Plate | | | |
| 17 | 46-1000-9-953 | Screw(M6-1×10) | | | |
| 18 | 46-1000-0-667 | Spring Washer | | | |
| 19 | 46-1000-0-663 | Washer | | | |
| 20 | 46-1001-0-899 | 24V Power Supply | | | |
| 21 | 46-1001-0-898 | 5V Power Supply | | | |
| 22 | 46-1001-0-845 | Transformer (200,220V-2.5V) | | | |
| 23 | 46-1001-0-842 | Circuit Protector | | | |
| 24 | 46-1001-0-846 | Noise Filter | | | |
| 25 | 46-1001-0-893 | Circuit Breaker | | | |

23



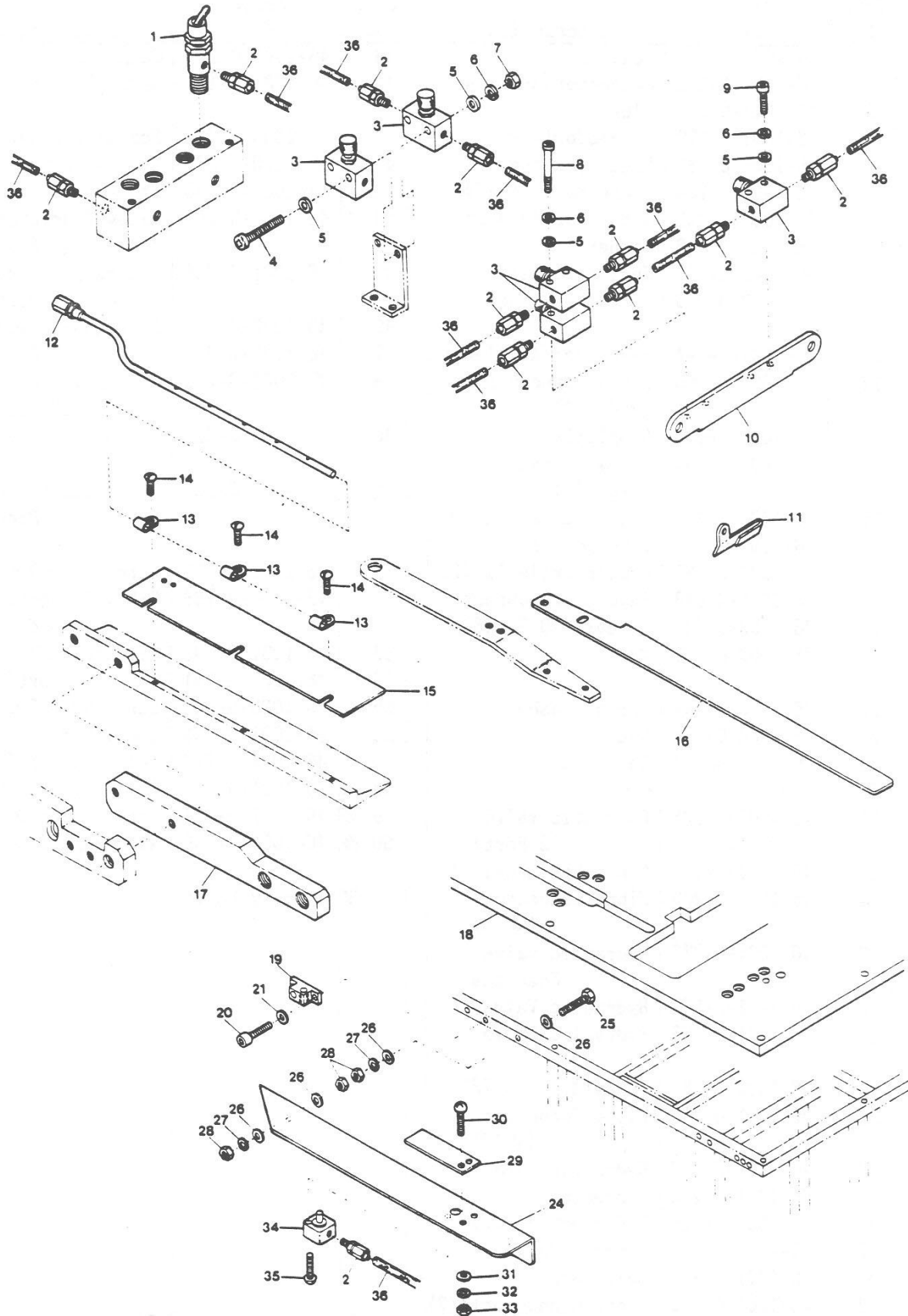
PNEUMATIC & HYDRAULIC PARTS

| Det. No | Parts No | Description | Det. No | Parts No | Description |
|---------|---------------|------------------------------|---------|-----------------|-----------------------------------------|
| 1 | 46-1001-0-227 | Coupler | 39 | 46-1001-0-221 | Connector |
| 2 | 46-1001-0-265 | Connector (φ 8-1/4) | 40 | 46-1001-0-181 | Hydraulic Converter |
| 3 | 46-1001-0-278 | Plug | 41 | 46-1000-9-752 | Screw (M5-0.8×15) |
| 4 | 46-1001-0-270 | Connector (φ 4) | 42 | 46-1000-0-600 | Spring Washer |
| 5 | 46-1001-0-188 | Pressure Gauge | 43 | 46-1000-0-669 | Washer |
| 6 | 46-1001-0-264 | Connector (φ 6-1/4) | 44 | 46-1001-0-268 | Elbow Connector (φ 6-3/8) |
| 7 | 46-1001-4-745 | Regulator Support | 45 | 46-1001-0-238 | Pneumatic Valve (5 Port, 3 Position) |
| 8 | 46-1000-0-663 | Washer | 46 | 46-1000-6-219 | Screw (M4-0.7×30) |
| 9 | 46-1000-0-667 | Spring Washer | 47 | 46-1001-0-257 | Silencer (MF8) |
| 10 | 46-1000-9-976 | Screw (M6-1×15) | 48 | 47-1001-0-273 | Pneumatic Valve Block (17 Valves) |
| 11 | 46-1001-0-184 | Regulator (AW211-02B) | 49 | 46-1001-0-235 | Pneumatic Valve (4 Port) |
| 12 | 46-1001-0-269 | Elbow Connector (φ 8-1/4) | 50 | 46-1001-0-234 | Pneumatic Valve (3 Port) |
| 13 | 46-1001-0-023 | Nipple (1/4) | 51 | 46-1000-9-750 | Screw (M4-0.7×20) |
| 14 | 46-1001-0-267 | Elbow Connector (φ 6-1/4) | 52 | 46-1001-0-266 | Elbow Connector (φ 6-1/8) |
| 15 | 46-1001-0-239 | Oil Mist Separator | 53 | 46-1001-0-143 | Silencer (MF6) |
| 16 | 46-1001-0-021 | T-Connector | 54 | 46-1001-4-741 | Valve Support (Right) |
| 17 | 46-1001-0-185 | Regulator (AR111-02) | 55 | 46-1000-9-747 | Screw (M4-0.7×10) |
| 18 | 46-1001-4-913 | Regulator Support | 56 | 46-1001-0-258 | Connector |
| 19 | 46-1000-9-749 | Screw (M4-0.7×16) | 57 | 46-1001-4-742 | Valve Support (Left) |
| 20 | 46-1000-0-665 | Washer | 58 | ※ 46-1001-0-262 | Air Tubing (8×6 mm) |
| 21 | 46-1000-0-644 | Spring Washer | 59 | ※ 46-1001-0-261 | Air Tubing (6×4 ") |
| 22 | 46-1000-0-015 | Nut | 60 | ※ 46-1001-0-260 | Air Tubing (4×2.5 ") |
| 23 | 46-1001-4-744 | Manifold | | | |
| 24 | ..... | ..... |  |  |  |
| 25 | 46-1001-0-125 | Pneumatic Valve (2 Port) | | | |
| 26 | 46-1001-0-078 | Connector (φ 4-1/4) | | | |
| 27 | 46-1001-0-205 | Elbow Connector (φ 10) | | | |
| 28 | 46-1001-0-275 | Hydraulic Valve Complete | | | |
| 29 | 46-1001-0-172 | Hydraulic Valve | | | |
| 30 | 46-1001-0-173 | Hydraulic Valve | | | |
| 31 | 46-1000-9-783 | Screw (M4-0.7×75) | | | |
| 32 | 46-1001-0-207 | Elbow Connector (φ 12) | | | |
| 33 | 46-1001-0-282 | Hydraulic Tube | | | |
| 34 | 46-1001-0-204 | Connector | | | |
| 35 | 46-1001-0-216 | T-Connector (1/2) | | | |
| 36 | 46-1001-0-213 | Nipple (1/2) | | | |
| 37 | 46-1001-0-212 | Ball Cock | | | |
| 38 | 46-1001-0-220 | Elbow Connector (1/2) | | | |

※ Specify Length.

24

Series 46(1)



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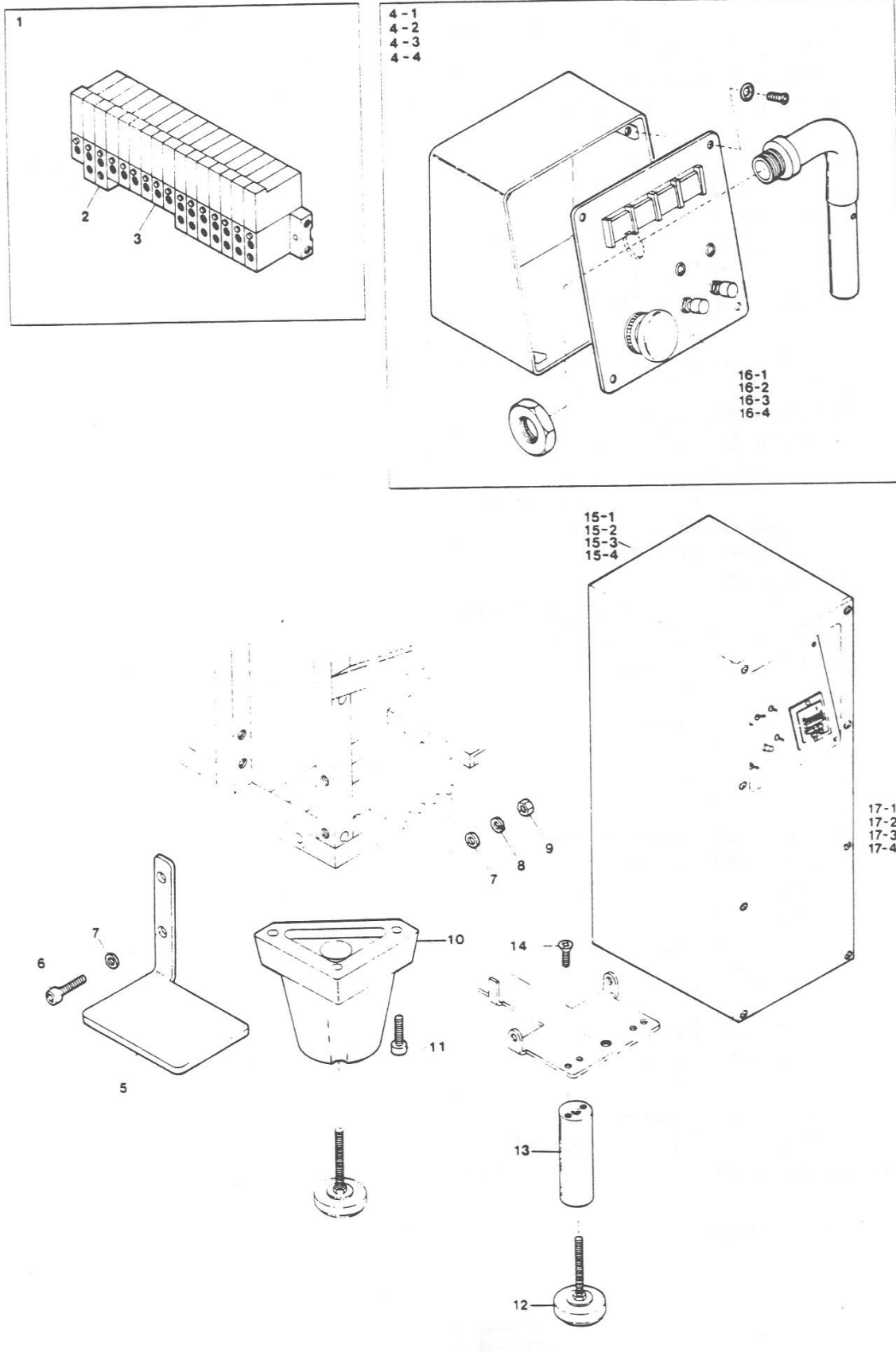
e-mail: service@amfreece.cz; parts@amfreece.cz; website: www.amfreece.com
Phone: +420 582 309 146 (Service), +420 582 309 286 (Spare Parts); Fax: +420 582 360 606

Series 46 CLAMPING & FOLDING PARTS

| Det. No | Parts No | Description |
|---------|-------------------|--------------------------------|
| 1 | 46-1001-0-182 | TAC Valve |
| 2 | 46-1001-0-258 | Connector |
| 3 | 46-1001-0-054 | Speed Control |
| 4 | 46-1000-9-793 | Screw (M3-0.5×35) |
| 5 | 46-1000-0-014 | Washer |
| 6 | 46-1000-0-002 | Spring Washer |
| 7 | 46-1000-0-012 | Nut |
| 8 | 46-1000-9-768 | Screw (M3-0.5×30) |
| 9 | 46-1000-9-745 | Screw (M3-0.5×15) |
| 10 | 46-1001-4-430 | Support |
| 11 | 46-1001-4-260 | Needle Thread Eyelet |
| 12 | 46-1001-4-601 | Air Nozzle |
| 13 | 46-1001-4-647 | Clamp |
| 14 | 46-1000-6-233 | Screw (M3-0.5×5) |
| 15 | 46-1001-4-612 | Cover Plate (8,10,12,14 mm) |
| 16 | 46-1001-4-023 | Brush Blade |
| 17 | 46-1001-4-618 | Connecting Arm |
| 18 | 46-1001-4-674 | Table Top (8,10,12,14 mm) |
| 19 | 46-1001-4-792 | Shaft Holder |
| 20 | 46-1000-6-225 | Screw (M6-1×65) |
| 21 | 46-1000-0-663 | Washer |
| 22 | ..... | ..... |
| 23 | ..... | ..... |
| 24 | 46-1001-4-670 | Extension Plate |
| 25 | 46-1000-6-232 | Screw (M8-1.25×80) |
| 26 | 46-1000-0-666 | Washer |
| 27 | 46-1000-0-676 | Spring Washer |
| 28 | 46-1000-0-016 | Nut |
| 29 | 46-1001-4-660 | Material Clamp |
| 30 | 46-1000-9-770 | Screw (M4-0.7×8) |
| 31 | 46-1000-0-665 | Washer |
| 32 | 46-1000-0-644 | Spring Washer |
| 33 | 46-1000-0-015 | Nut |
| 34 | 46-1001-0-248 | Cylinder |
| 35 | 46-1000-9-801 | Screw (M3-0.5×20) |
| 36 ※ | 46-1001-0-260 | Air Tubing (4×2.5mm) |
| | ※ Specify Length. | |

25

Series 46(2)

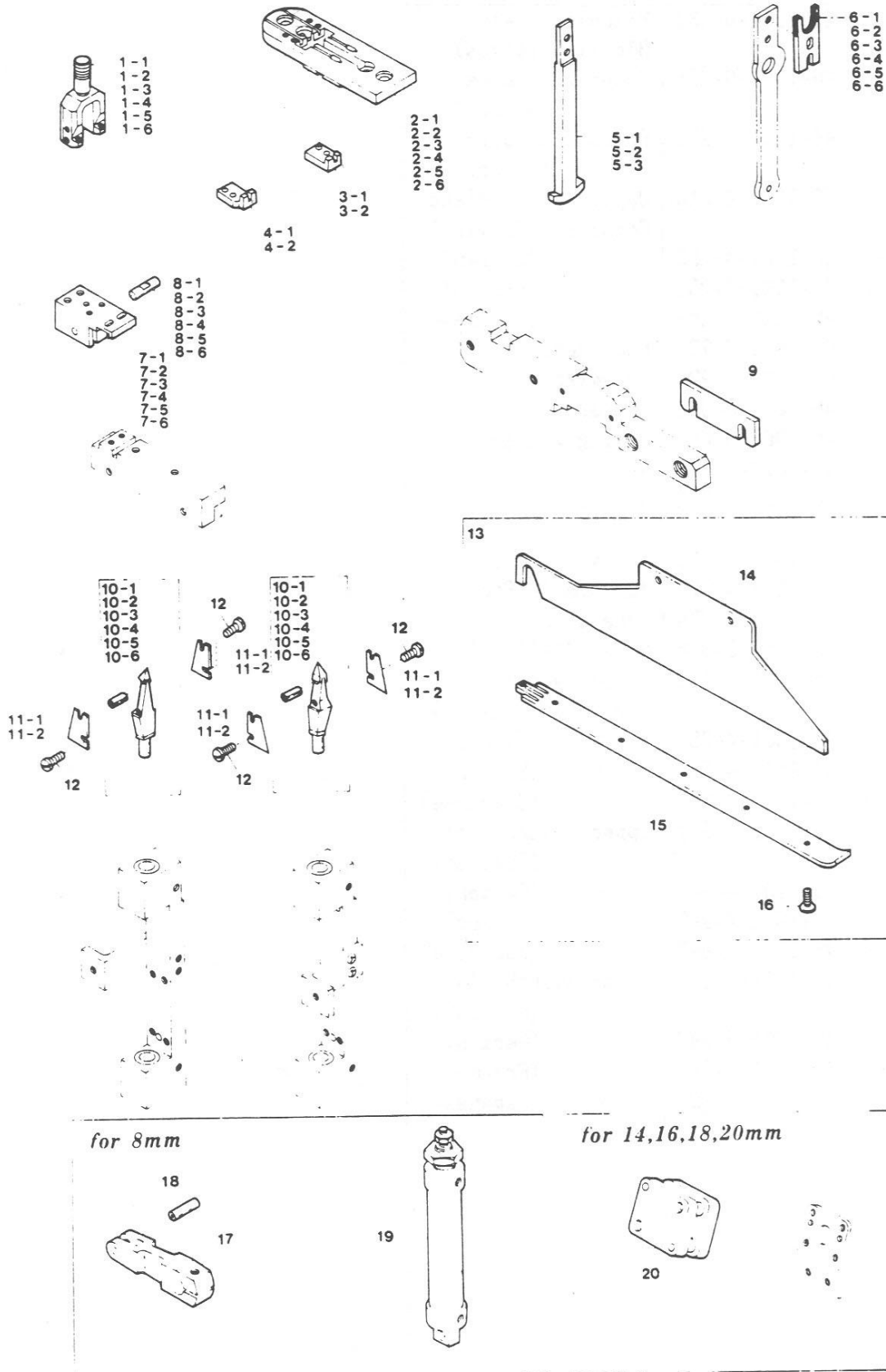


**Series 46 PNEUMATIC VALVES,
CONTROL PANELS, ELEVATOR PARTS**

| Det. No | Parts No | Description |
|---------|---------------|---------------------------------------|
| 1 | 46-1001-0-237 | Pneumatic Valve Block (16 Valves) |
| 2 | 46-1001-0-235 | Pneumatic Valve (4 Port) |
| 3 | 46-1001-0-234 | Pneumatic Valve (3 Port) |
| 4-1 | 46-1001-4-910 | Upper Switch Plate Complete (English) |
| 4-2 | 46-1001-4-250 | " (German) |
| 4-3 | 46-1001-4-251 | " (French) |
| 4-4 | 46-1001-4-268 | " (Japanese) |
| 5 | 46-1001-4-735 | Foot Rest |
| 6 | 46-1000-9-970 | Screw (M6-1 X 20) |
| 7 | 46-1000-0-663 | Washer |
| 8 | 46-1000-0-667 | Spring Washer |
| 9 | 46-1000-0-011 | Nut |
| 10 | 46-1001-4-808 | Holder |
| 11 | 46-1000-9-761 | Screw (M10-1.5 X 55) |
| 12 | 46-1001-4-724 | Adjustable Foot |
| 13 | 46-1001-4-734 | Extension |
| 14 | 46-1000-9-895 | Screw (M6-1 X 20) |
| 15-1 | 46-1001-0-915 | Lower Switch Plate Complete (English) |
| 15-2 | 46-1001-4-252 | " (German) |
| 15-3 | 46-1001-4-253 | " (French) |
| 15-4 | 46-1001-4-269 | " (Japanese) |
| 16-1 | 46-1001-4-981 | Upper Switch Plate (English) |
| 16-2 | 46-1001-4-982 | " (German) |
| 16-3 | 46-1001-4-983 | " (French) |
| 16-4 | 46-1001-4-993 | " (Japanese) |
| 17-1 | 46-1001-4-984 | Lower Switch Plate (English) |
| 17-2 | 46-1001-4-985 | " (German) |
| 17-3 | 46-1001-4-986 | " (French) |
| 17-4 | 46-1001-4-994 | " (Japanese) |

26

Series 46, 47-8, 12, 14, 16, 18, 20mm(1)



for 8mm

for 14,16,18,20mm

BITE GAUGE PARTS

| Det. No | Parts No | Description | Det. No | Parts No | Description |
|---------|---------------|--------------------------------------------|---------|---------------|----------------------------------------------------------|
| 1-1 | 46-1001-5-446 | Needle Head (8mm) | 10-1 | 46-1001-5-451 | Tab Finger (8mm) |
| 1-2 | 46-1001-4-434 | " (12mm) | 10-2 | 46-1001-5-217 | " (12mm) |
| 1-3 | 46-1001-5-203 | " (14mm) | 10-3 | 46-1001-5-218 | " (14mm) |
| 1-4 | 46-1001-5-251 | " (16mm) | 10-4 | 46-1001-5-356 | " (16mm) |
| 1-5 | 46-1001-5-252 | " (18mm) | 10-5 | 46-1001-5-357 | " (18mm) |
| 1-6 | 46-1001-5-253 | " (20mm) | 10-6 | 46-1001-5-358 | " (20mm) |
| 2-1 | 46-1001-5-448 | Throat Plate(8mm) | 11-1 | 46-1001-4-136 | Tab Knife 1,12" - <i>cl</i> <i>ORC</i> (8,10,12,14mm) |
| 2-2 | 46-1001-4-427 | " (12mm) | 11-2 | 46-1001-5-289 | " (16,18,20mm) |
| 2-3 | 46-1001-4-489 | " (14mm) | 12 | 46-1000-9-798 | Screw(11/128-56×4) |
| 2-4 | 46-1001-5-254 | " (16mm) | 13 | ----- | Patch Guide Complete (See Page 35,36) |
| 2-5 | 46-1001-5-255 | " (18mm) | 14 | ----- | Patch Guide(Upper) (See Page 35,36) |
| 2-6 | 46-1001-5-256 | " (20mm) | 15 | ----- | Patch Guide(Lower) (See Page 35,36) |
| 3-1 | 46-1001-4-505 | Fixed Knife(Right) (8,10,14,16,18,20mm) | 16 | 46-1000-9-734 | Screw(M2-0.4×4.8) |
| 3-2 | 46-1001-4-507 | " (12mm) | 17 | 46-1001-5-447 | Center Knife Lever |
| 4-1 | 46-1001-4-506 | Fixed Knife(Left) (8,10,14,16,18,20mm) | 18 | 46-1001-5-449 | Pin |
| 4-2 | 46-1001-4-508 | " (12mm) | 19 | 46-1001-0-314 | Tab Knife Cylinder |
| 5-1 | 46-1001-4-483 | Pick-up (8,10,12,14mm) | 20 | 46-1001-0-311 | Cylinder |
| 5-2 | 46-1001-5-302 | " (16,18,20mm) | | | |
| 6-1 | 46-1001-4-503 | Knife (8,10mm) | | | |
| 6-2 | 46-1001-4-504 | " (12mm) | | | |
| 6-3 | 46-1001-5-201 | " (14mm) | | | |
| 6-4 | 46-1001-5-299 | " (16mm) | | | |
| 6-5 | 46-1001-5-300 | " (18mm) | | | |
| 6-6 | 46-1001-5-301 | " (20mm) | | | |
| 7-1 | 46-1001-5-452 | Block (8mm) | | | |
| 7-2 | 46-1001-4-538 | " (12mm) | | | |
| 7-3 | 46-1001-5-202 | " (14mm) | | | |
| 7-4 | 46-1001-5-293 | " (16mm) | | | |
| 7-5 | 46-1001-5-294 | " (18mm) | | | |
| 7-6 | 46-1001-5-295 | " (20mm) | | | |
| 8-1 | 46-1001-5-445 | Shaft (8mm) | | | |
| 8-2 | 46-1001-4-522 | " (12mm) | | | |
| 8-3 | 46-1001-5-200 | " (14mm) | | | |
| 8-4 | 46-1001-5-296 | " (16mm) | | | |
| 8-5 | 46-1001-5-297 | " (18mm) | | | |
| 8-6 | 46-1001-5-298 | " (20mm) | | | |
| 9 | ----- | Clamp Foot Spacer (See Page 35,36) | | | |

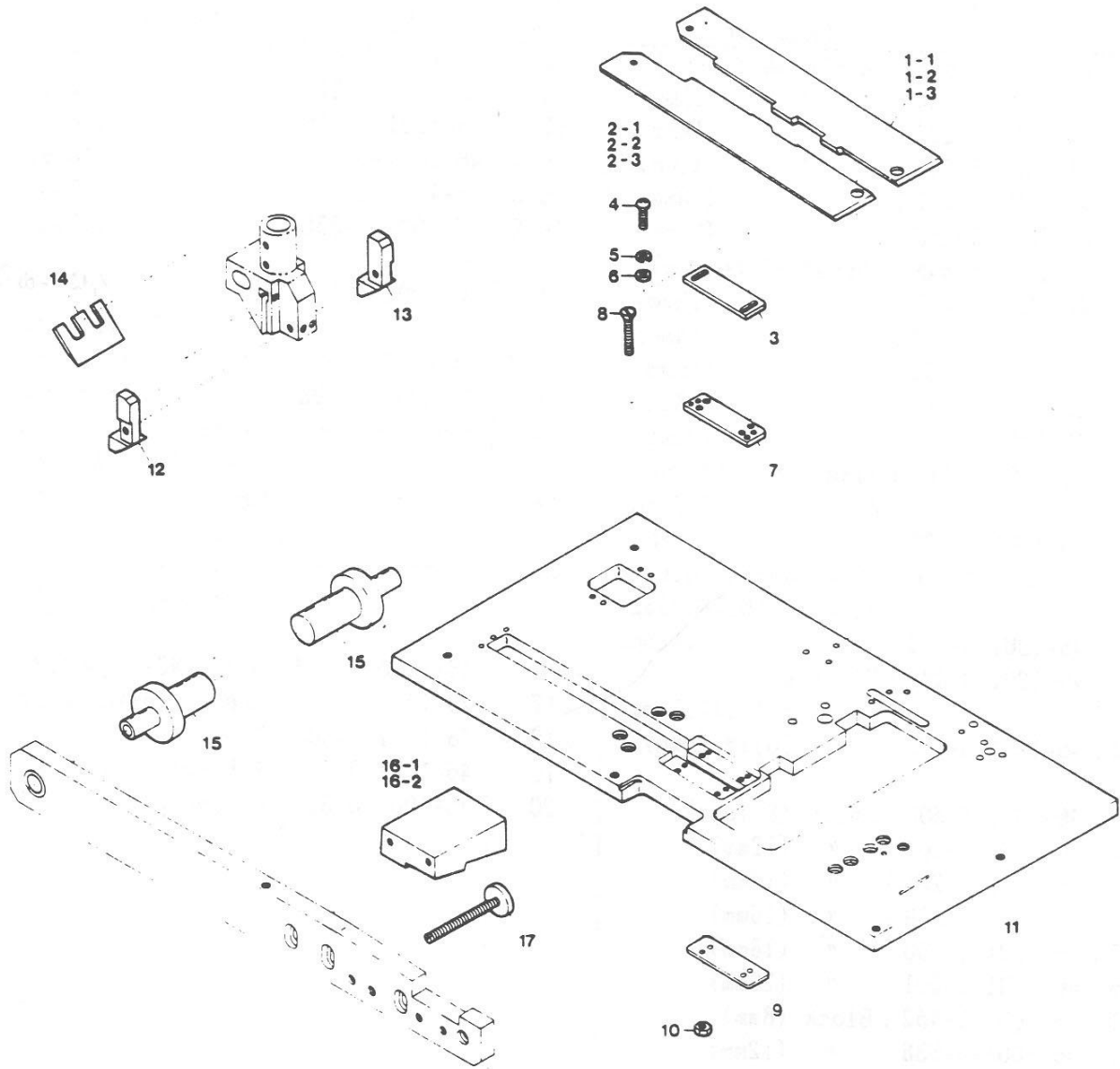
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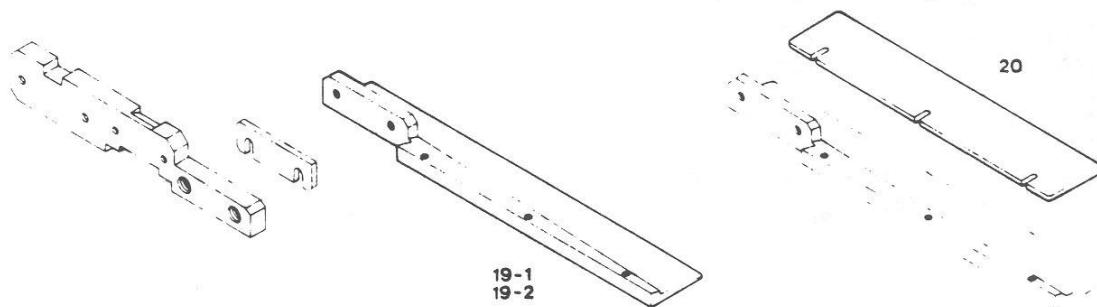
Phone: +420 582 309 146 (Service), +420 582 309 286 (Spare Parts); Fax: +420 582 360 606

27

Series 46, 47-16, 18, 20mm(2)



Series 46 only



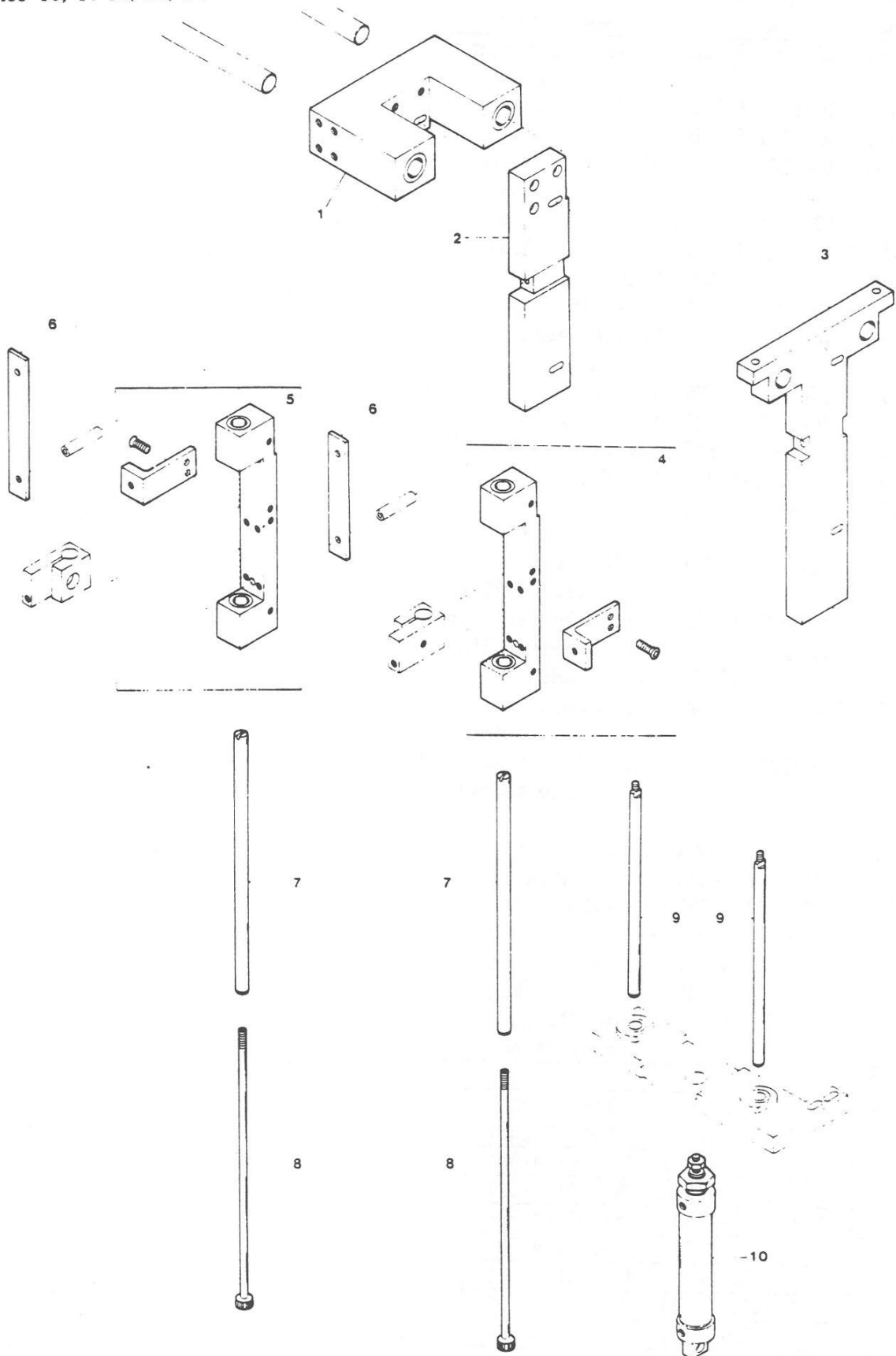
BITE GAUGE PARTS 16, 18, 20 mm ONLY

| Det. No | Parts No | Description |
|---------|---------------|---------------------------------------|
| 1-1 | 46-1001-5-308 | Slide Plate (Right) (16mm) |
| 1-2 | 46-1001-5-309 | " (18mm) |
| 1-3 | 46-1001-5-310 | " (20mm) |
| 2-1 | 46-1001-5-311 | Slide Plate (Left) (16mm) |
| 2-2 | 46-1001-5-312 | " (18mm) |
| 2-3 | 46-1001-5-313 | " (20mm) |
| 3 | 46-1001-5-330 | Plate |
| 4 | 46-1000-9-954 | Screw (M6-1×8) |
| 5 | 46-1000-0-676 | Spring Washer |
| 6 | 46-1000-0-666 | Washer |
| 7 | 46-1001-5-329 | Support Plate |
| 8 | 46-1000-9-807 | Screw (M8-1.25×36) |
| 9 | 46-1001-5-328 | Nut Plate |
| 10 | 46-1000-0-016 | Nut |
| 11 | 46-1001-5-331 | Table Top (16, 18, 20 mm) |
| 12 | 46-1001-5-290 | Thread Holder (Left) |
| 13 | 46-1001-5-291 | Thread Holder (Right) |
| 14 | 46-1001-5-292 | Trim Blade |
| 15-1 | 46-1001-4-591 | Clamp Foot Shaft (See Table below) |
| 15-2 | 46-1001-5-244 | Clamp Foot Shaft (See Table below) |
| 16-1 | 46-1001-5-304 | Support (Left) |
| 16-2 | 46-1001-5-303 | " (Right) |
| 17 | 46-1000-9-733 | Screw (M6-1×55) |
| 18 | ..... | ..... |
| 19-1 | 46-1001-5-247 | Clamp Foot (Left) |
| 19-2 | 46-1001-5-248 | " (Right) |
| 20 | 46-1001-5-241 | Cover Plate (Series 46 only) |

| Bite (mm) | Clamp Foot Shaft (Left) | Clamp Foot Shaft (Right) |
|-----------|-------------------------|--------------------------|
| 8 | 46-1001-4-591 | 46-1001-4-591 |
| 10 | 46-1001-4-591 | 46-1001-4-591 |
| 12 | 46-1001-4-591 | 46-1001-4-591 |
| 14 | 46-1001-4-591 | 46-1001-4-591 |
| 16 | 46-1001-5-244 | 46-1001-4-591 |
| 18 | 46-1001-5-244 | 46-1001-4-591 |
| 20 | 46-1001-5-244 | 46-1001-5-244 |

28

Series 46, 47-16, 18, 20mm(3)

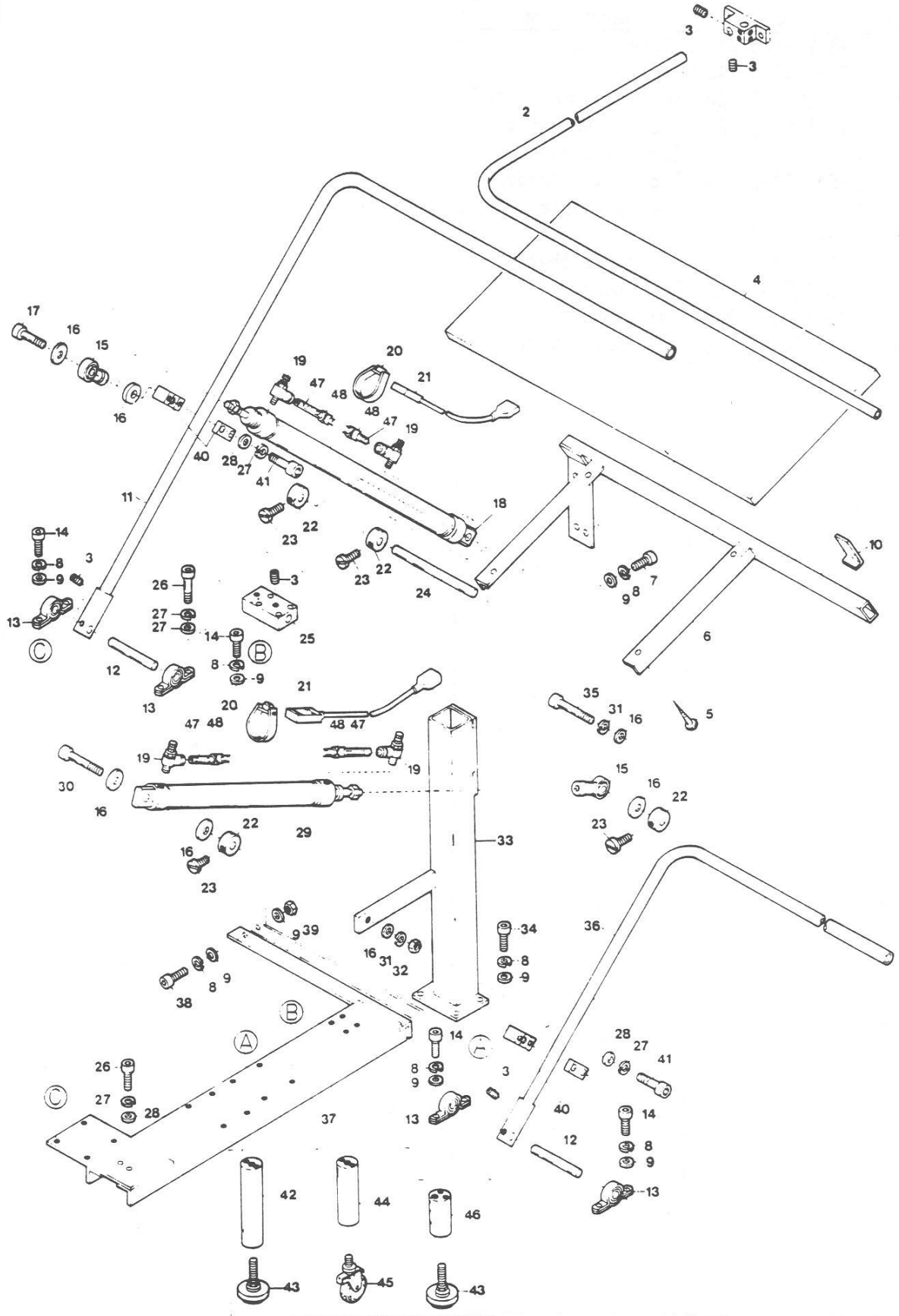


TAB KNIFE GAUGE PARTS 16, 18, 20 mm

| Det. No | Parts No | Description |
|---------|---------------|---------------------------------------|
| 1 | 46-1001-5-236 | Slide Unit |
| 2 | 46-1001-5-245 | Block |
| 3 | 46-1001-5-250 | Shaft Holder(Front) |
| 4 | 46-1001-5-237 | Tab Finger Holder (Front) Complete |
| 5 | 46-1001-5-238 | Tab Finger Holder (Rear) Complete |
| 6 | 46-1001-5-242 | Plate |
| 7 | 46-1001-5-240 | Tab Knife Shaft |
| 8 | 46-1001-5-243 | Lock Screw |
| 9 | 46-1001-5-257 | Guide Shaft |
| 10 | 46-1001-0-312 | Tab Knife Cylinder |

29

1-1
1-2
1-3



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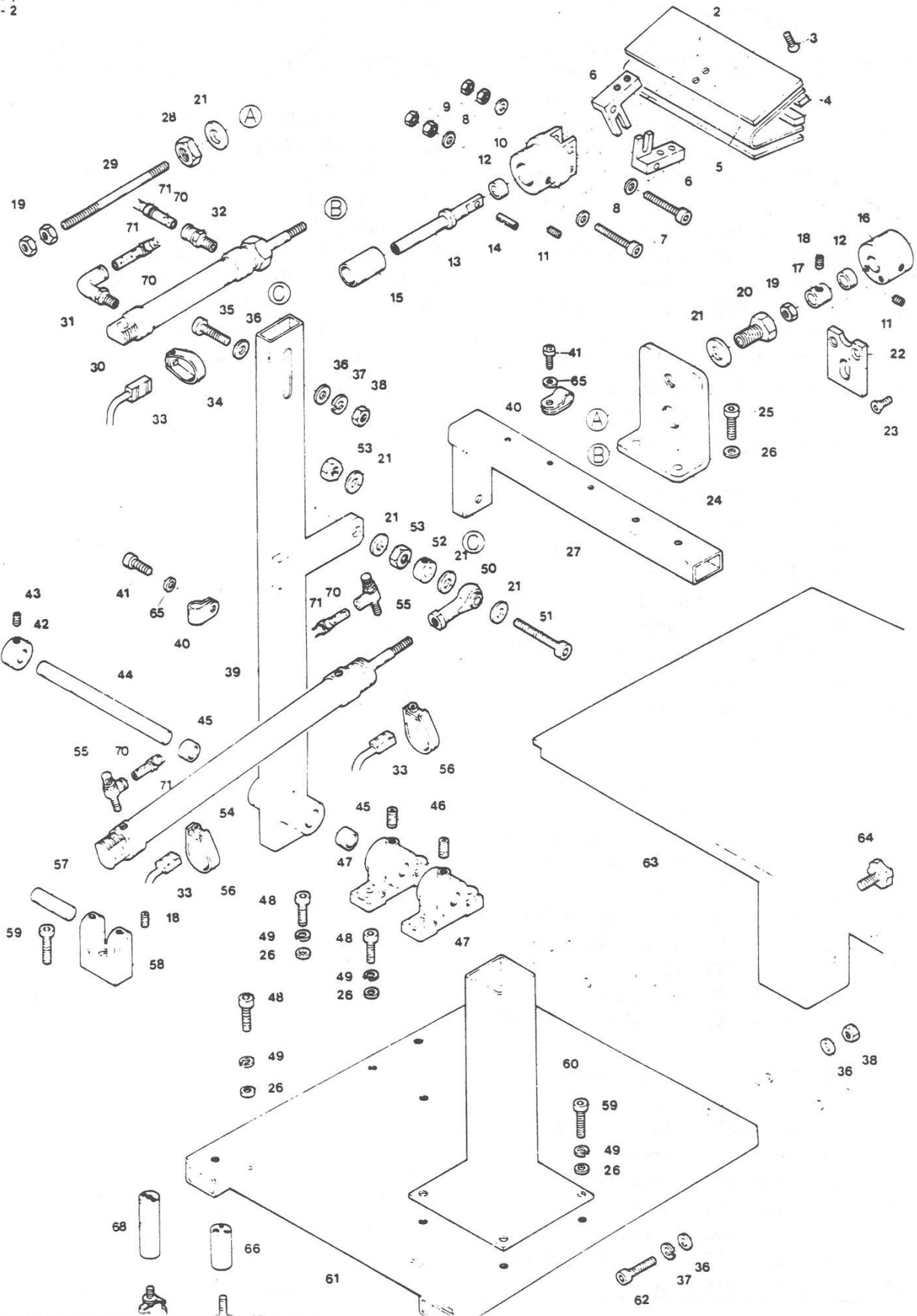
TROUSER PANEL STACKER

| Det. No | Parts No | Description |
|---------|---------------|------------------------------------|
| 1-1 | 46-1001-4-940 | Stacker Complete with Det.No 42,43 |
| 1-2 | 46-1001-5-429 | Stacker Complete with Det.No 44,45 |
| 1-3 | 46-1001-5-440 | Stacker Complete with Det.No 46,43 |
| 2 | 46-1001-4-887 | Guard |
| 3 | 46-1000-3-662 | Screw(M6-1×6) |
| 4 | 46-1001-4-885 | Table |
| 5 | 46-1000-6-905 | Screw(φ 5.1×20) |
| 6 | 46-1001-4-889 | Table Holder |
| 7 | 46-1000-9-757 | Screw(M8-1.25×15) |
| 8 | 46-1000-0-676 | Spring Washer |
| 9 | 46-1000-0-666 | Washer |
| 10 | 46-1001-5-239 | Rubber |
| 11 | 46-1001-4-946 | Arm |
| 12 | 46-1001-4-884 | Shaft |
| 13 | 46-1001-4-758 | Shaft Bearing |
| 14 | 46-1000-9-936 | Screw(M8-1.25×20) |
| 15 | 46-1001-4-401 | Rod End |
| 16 | 46-1000-0-432 | Washer |
| 17 | 46-1000-9-760 | Screw(M10-1.5×35) |
| 18 | 46-1001-0-297 | Cylinder |
| 19 | 46-1001-0-254 | Speed Control |
| 20 | 46-1001-0-302 | Band |
| 21 | 46-1001-0-922 | Sensing Switch |
| 22 | 46-1003-2-719 | Collar |
| 23 | 46-1000-4-351 | Screw(9/64-40×7) |
| 24 | 46-1001-4-883 | Cylinder Shaft |
| 25 | 46-1001-4-881 | Shaft Holder |
| 26 | 46-1000-9-970 | Screw(M6-1×20) |
| 27 | 46-1000-0-667 | Spring Washer |
| 28 | 46-1000-0-663 | Washer |
| 29 | 46-1001-0-298 | Cylinder |
| 30 | 46-1000-9-761 | Screw(M10-1.5×55) |
| 31 | 46-1000-0-439 | Spring Washer |
| 32 | 46-1000-0-260 | Nut |
| 33 | 46-1001-4-891 | Stacker Support |
| 34 | 46-1000-9-758 | Screw(M8-1.25×30) |
| 35 | 46-1000-6-208 | Screw(M10-1.5×40) |
| 36 | 46-1001-4-944 | Clamp Arm |
| 37 | 46-1001-4-890 | Stacker Base |
| 38 | 46-1000-9-759 | Screw(M8-1.25×55) |
| 39 | 46-1000-0-016 | Nut |

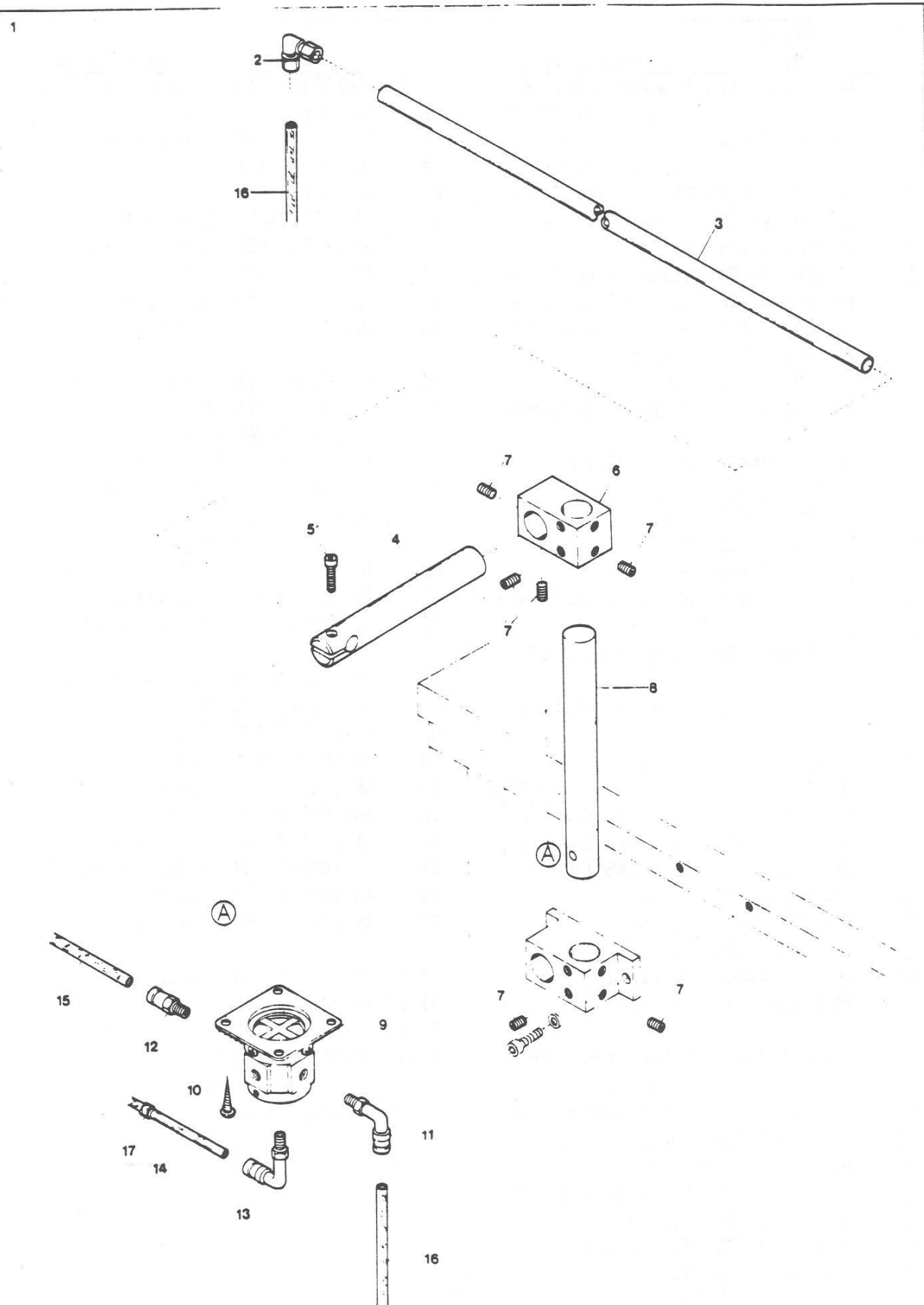
| Det. No | Parts No | Description |
|---------|---------------|---------------------|
| 40 | 46-1001-4-942 | Cylinder Holder |
| 41 | 46-1000-9-753 | Screw(M6-1×30) |
| 42 | 46-1001-4-892 | Holder(180mm) |
| 43 | 46-1001-4-724 | Adjustable Foot |
| 44 | 46-1001-4-734 | Holder(97mm) |
| 45 | 46-1001-5-235 | Caster |
| 46 | 46-1001-4-809 | Holder(50mm) |
| 47 ※ | 46-1001-0-260 | Air Tubing(4×2.5mm) |
| 48-1 | 46-1001-1-095 | Marker (1) |
| 48-2 | 46-1001-1-096 | " (2) |
| 48-3 | 46-1001-1-097 | " (3) |
| 48-4 | 46-1001-1-098 | " (4) |
| | ※ | Specify Length. |

30

1-1
1-2



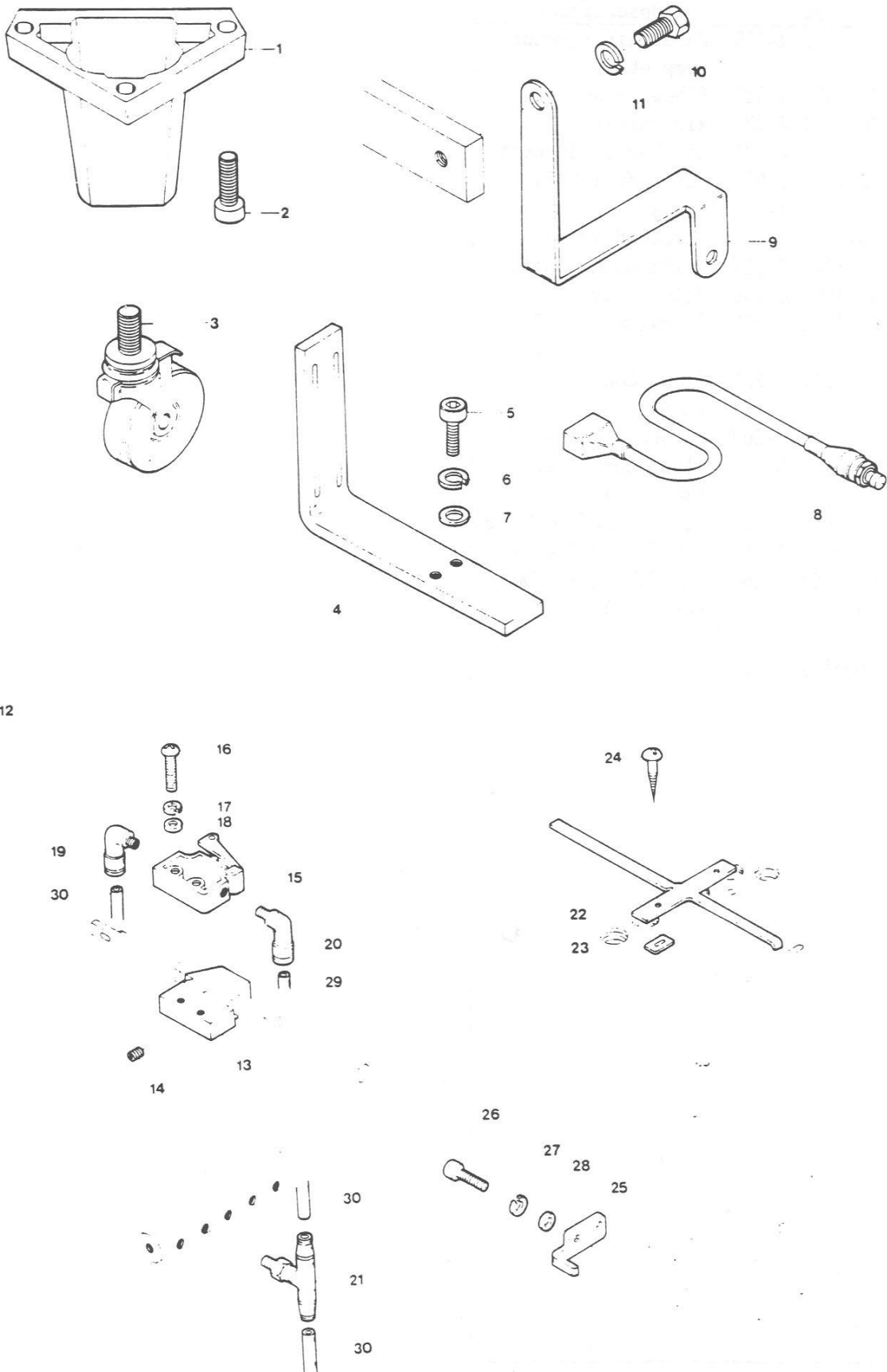
31



TROUSER AIR EJECTOR

| Det. No | Parts No | Description |
|---------|---------------|------------------------------------|
| 1 | 46-1001-4-939 | Panel Air Ejector Complete |
| 2 | 46-1001-0-313 | Elbow Connector |
| 3 | 46-1001-4-935 | Air Nozzle |
| 4 | 46-1001-4-938 | Air Nozzle Support |
| 5 | 46-1000-9-976 | Screw(M6-1×15) |
| 6 | 46-1001-4-936 | Block |
| 7 | 46-1000-3-662 | Screw(M6-1×6) |
| 8 | 46-1001-4-937 | Positioning Shaft |
| 9 | 46-1001-0-148 | Pilot Valve |
| 10 | 46-1000-6-905 | Screw(ϕ 5.1×20) |
| 11 | 46-1001-0-265 | Elbow Connector (ϕ 8-1/4) |
| 12 | 46-1001-0-264 | Connector(ϕ 6-1/4) |
| 13 | 46-1001-0-057 | Elbow Connector (ϕ 4-1/8) |
| 14 ※ | 46-1001-0-260 | Air Tubing(4×2.5mm) |
| 15 ※ | 46-1001-0-261 | Air Tubing(6×4mm) |
| 16 ※ | 46-1001-0-262 | Air Tubing(8×6mm) |
| 17 | 46-1001-1-095 | Marker (1) |
| | ※ | Specify Length. |

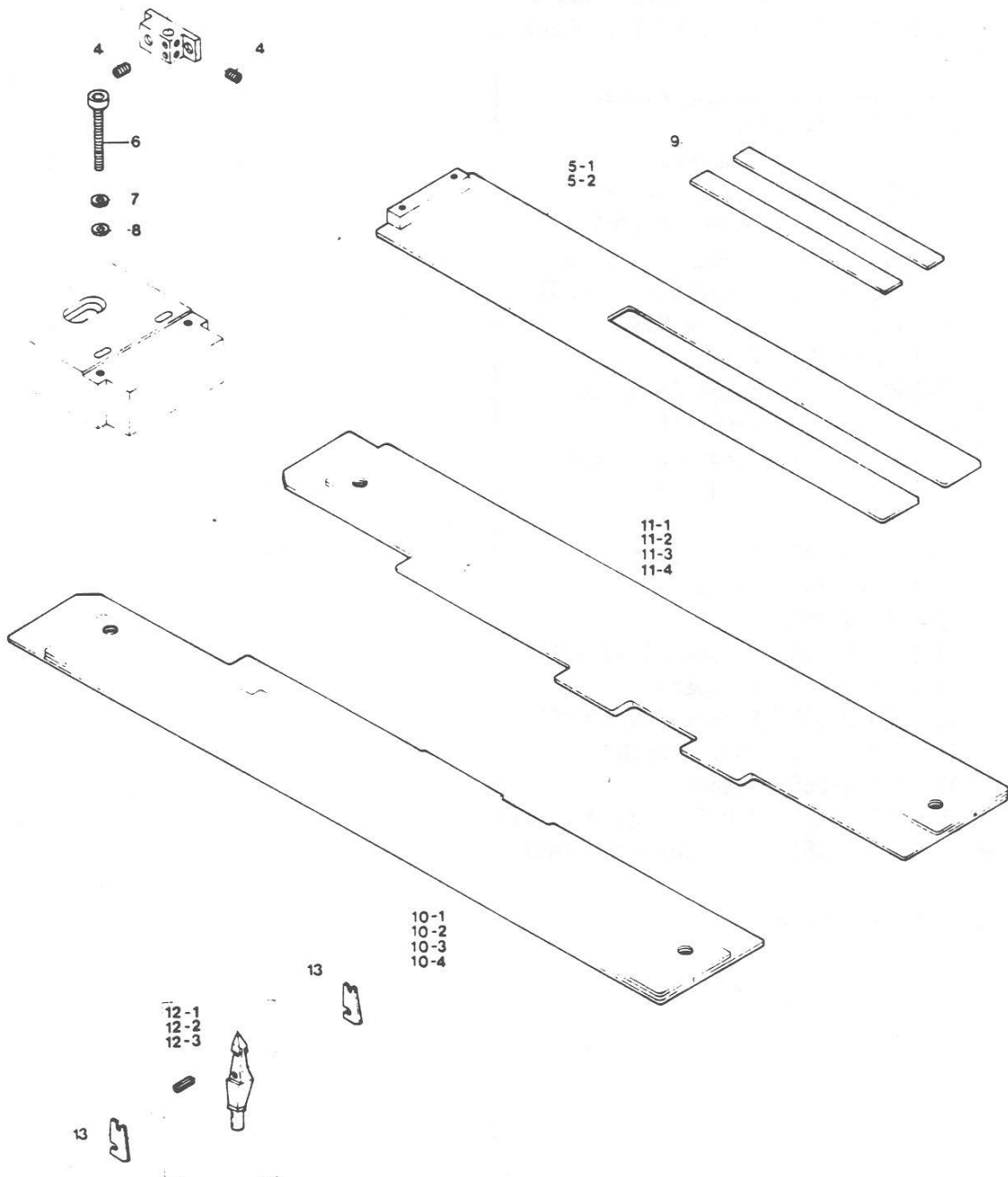
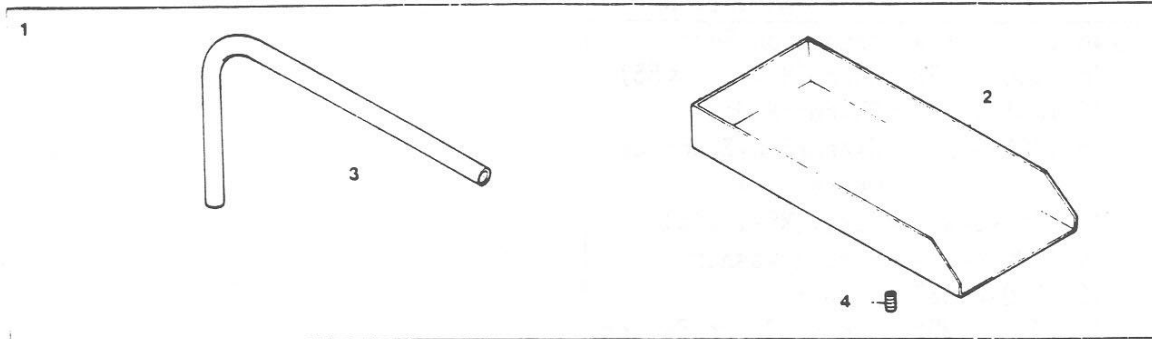
32



ACCESSORY PARTS (1)

| Det. No | Parts No | Description |
|---------|-----------------|--------------------------------|
| 1 | 46-1001-4-808 | Extension Foot |
| 2 | 46-1000-9-761 | Screw (M10-1.5×55) |
| 3 | 46-1001-5-224 | Caster (M20) |
| 4 | 46-1001-5-226 | Extension (Stand up Operation) |
| 5 | 46-1000-9-976 | Screw (M6-1×15) |
| 6 | 46-1000-0-667 | Spring Washer |
| 7 | 46-1000-0-663 | Washer |
| 8 | 46-1001-4-998 | Manual Start Switch |
| 9 | 46-1001-4-564 | Start Switch Support |
| 10 | 46-1000-9-777 | Screw (M8-1.25×14) |
| 11 | 46-1000-0-676 | Spring Washer |
| 12 | 46-1001-4-845 | Stay Bracker Complete |
| 13 | 46-1001-4-846 | Valve Holder |
| 14 | 46-1000-3-662 | Screw (M6-1×6) |
| 15 | 46-1001-0-306 | Pneumatic Valve |
| 16 | 46-1000-6-219 | Screw (M4-0.7×30) |
| 17 | 46-1000-0-644 | Spring Washer |
| 18 | 46-1000-0-665 | Washer |
| 19 | 46-1001-0-266 | Elbow Connector (φ 6-1/8) |
| 20 | 46-1001-0-057 | Elbow Connector (φ 4-1/8) |
| 21 | 46-1001-0-289 | T-Connector |
| 22 | 46-1001-4-848 | Holder |
| 23 | 46-1001-4-849 | Spacer |
| 24 | 46-1000-6-905 | Screw (φ 5.1×20) |
| 25 | 46-1001-4-847 | Acuator |
| 26 | 46-1000-9-935 | Screw (M5-0.8×20) |
| 27 | 46-1000-0-600 | Spring Washer |
| 28 | 46-1000-0-669 | Washer |
| 29 | ※ 46-1001-0-260 | Air Tubing (4×2.5mm) |
| 30 | ※ 46-1001-0-261 | Air Tubing (6×4mm) |
| | ※ | Specify Length. |

33



ACCESSORY PARTS (2)

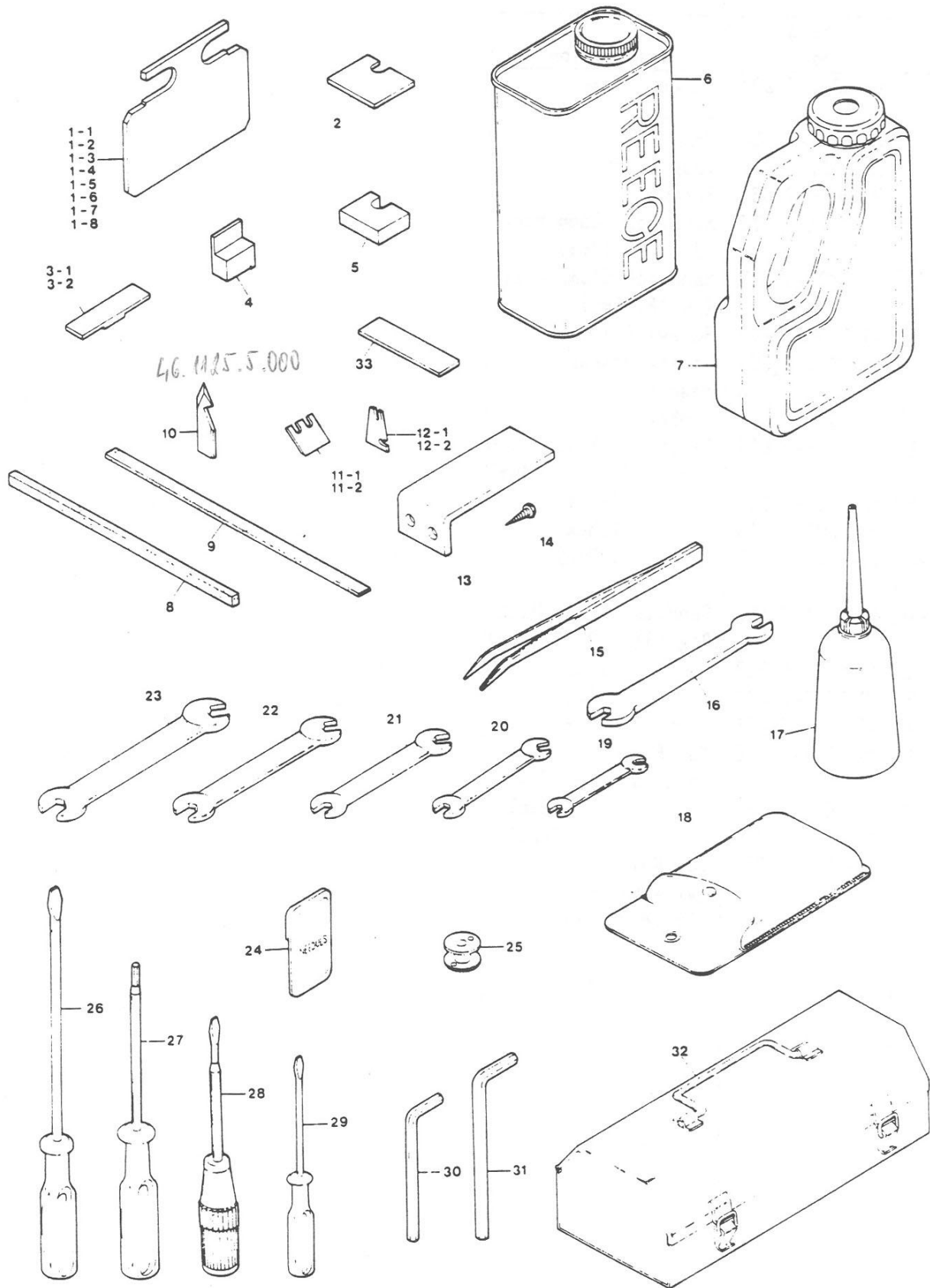
| Det. No | Parts No | Description |
|---------|---------------|---------------------------------------------|
| 1 | 46-1001-4-997 | Bagging Tray Complete |
| 2 | 46-1001-4-934 | Tray |
| 3 | 46-1001-4-931 | Tray Shaft |
| 4 | 46-1000-3-662 | Screw |
| 5-1 | 46-1001-4-678 | Sandwich Clamp Foot (8,10,12,14mm) |
| 5-2 | 46-1001-5-327 | Sandwich Clamp Foot (16,18,20mm) |
| 6 | 46-1000-9-810 | Screw (M6-1 X 55) |
| 7 | 46-1000-0-667 | Spring Washer |
| 8 | 46-1000-0-663 | Washer |
| 9 | 46-1001-4-588 | Rubber |
| 10-1 | 46-1001-4-634 | Sandwich Slide Plate (Left) (8,10,12,14mm) |
| 10-2 | 46-1001-5-317 | " (16mm) |
| 10-3 | 46-1001-5-318 | " (18mm) |
| 10-4 | 46-1001-5-319 | " (20mm) |
| 11-1 | 46-1001-4-630 | Sandwich Slide Plate (Right) (8,10,12,14mm) |
| 11-2 | 46-1001-5-323 | " (16mm) |
| 11-3 | 46-1001-5-324 | " (18mm) |
| 11-4 | 46-1001-5-325 | " (20mm) |
| 12-1 | 46-1001-5-466 | Tab Finger (Wide Width) (16mm) |
| 12-2 | 46-1001-5-468 | " (18mm) |
| 12-3 | 46-1001-5-470 | " (20mm) |
| 13 | 46-1001-5-230 | Tab Knife (Wide Width) (16,18,20 mm) |

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34



TOOLS, SPARE PARTS

| Det. No | Parts No | Description |
|---------|---------------|----------------------------------|
| 1-1 | 46-1001-5-434 | Clamp Arm Gauge (2.0 mm) |
| 1-2 | 46-1001-5-435 | " (2.5 ") |
| 1-3 | 46-1001-4-801 | " (2.75 ") |
| 1-4 | 46-1001-5-436 | " (3.0 ") |
| 1-5 | 46-1001-5-437 | " (3.5 ") |
| 1-6 | 46-1001-5-438 | " (4.0 ") |
| 1-7 | 46-1001-4-802 | " (4.5 ") |
| 1-8 | 46-1001-5-439 | " (8.0 ") |
| 2 | 46-1001-4-806 | Needle & Hook Gauge |
| 3-1 | 46-1001-4-803 | Height Gauge(0.75mm) |
| 3-2 | 46-1001-4-804 | " (0.9 ") |
| 4 | 46-1001-4-800 | Needle Height Gauge |
| 5 | 46-1001-4-805 | Needle & Hook Gauge |
| 6 | 46-1009-9-133 | Hydraulic Oil(1Liter) |
| 7 | 46-1001-5-177 | Oil Tank |
| 8 | 46-1001-4-590 | Flap Clamp Rubber |
| 9 | 46-1001-4-589 | Clamp Rubber |
| 10 | 46-1001-4-478 | Center Knife |
| | 46 1125.5.000 | - |
| 11-1 | 46-1001-4-244 | Trim Blade (8,10,12,14 mm) |
| 11-2 | 46-1001-5-292 | Trim Blade (16,18,20 mm) |
| 12-1 | 46-1001-4-136 | Tab Knife (8,10,12,14 mm) |
| 12-2 | 46-1001-5-289 | Tab Knife (16,18,20 mm) |
| 13 | 46-1001-4-689 | Lamp Holder |
| 14 | 46-1000-6-209 | Screw(ϕ 3.5 \times 21.5) |
| 15 | 46-1009-9-045 | Tweezers |
| 16 | 46-1001-5-154 | Wrench(8 \times 9mm) |
| 17 | 46-1001-5-176 | Oiler |
| 18 | 46-1009-9-134 | Wrench (8 pcs,per set) |
| 19 | 46-1009-9-136 | Wrench (7 \times 5.5mm) |
| 20 | 46-1009-9-137 | " (8 \times 7 ") |
| 21 | 46-1009-9-138 | " (12 \times 10 ") |
| 22 | 46-1009-9-139 | " (13 \times 11 ") |
| 23 | 46-1009-9-140 | " (17 \times 14 ") |

| Det. No | Parts No | Description |
|---------|---------------|--------------------------------------------|
| 24 | 02-0150-0-110 | Needle,rd.pt., Fine (0) |
| | 02-0150-0-111 | Needle,rd.pt., Medium (1) |
| | 02-0150-0-112 | Needle,rd.pt., Heavy (2) |
| | 02-0150-0-113 | Needle,rd.pt., Very Heavy (3) |
| | 02-0150-0-114 | Needle,rd.pt., Extra Heavy |
| 25 | 46-1001-5-081 | Bobbin |
| 26 | 46-1001-5-151 | Screwdriver (5.5 \times 190mm) |
| 27 | 46-1003-7-919 | Hexagonal Screw- driver(1.58mm.1/16) |
| 28 | 46-1001-5-152 | Screwdriver (3.4 \times 70mm) |
| 29 | 46-1001-5-153 | Screwdriver (1.9 \times 52mm) |
| 30 | 46-1001-5-180 | Wrench(2mm) |
| 31 | 46-1001-5-179 | Wrench(3mm) |
| 32 | 46-1009-9-135 | Accessory Box |
| 33 | 46-1001-4-807 | Fixed Knife Posi- tioning Gauge(2.95mm) |

35

BITE SIZE CONVERSION CHART 8, 10, 12, 14 mm

| Bite Size | Patch Guide Width | Style | Needle Head | Throat Plate | Pick-up | Movable Knife <i>SPODINI NIT</i> | Fixed Knife (Left) <i>SPODINI NIT</i> | Fixed Knife (Right) <i>SPODINI NIT</i> | Tab Finger |
|-----------|-------------------|-------|---------------|---------------|---------------|-------------------------------------|------------------------------------------|-------------------------------------------|---------------|
| S46-8 | 130 | D | 46-1001-5-446 | 46-1001-5-448 | 46-1001-4-483 | 46-1001-4-503 | 46-1001-4-506 | 46-1001-4-505 | 46-1001-5-451 |
| -8 | 130 | S | " | " | " | " | " | " | " |
| -8 | 145 | S L/R | " | " | " | " | " | " | " |
| -10 | 170 | D | 46-1001-4-433 | 46-1001-4-426 | " | " | " | " | 46-1001-5-216 |
| -10 | 170 | S | " | " | " | " | " | " | " |
| -10 | 230 | S L/R | " | " | " | " | " | " | " |
| -10 | 175 | D | " | " | " | " | " | " | " |
| -10 | 175 | S | " | " | " | " | " | " | " |
| -10 | 240 | S L/R | " | " | " | " | " | " | " |
| -10 | 180 | D | " | " | " | " | " | " | " |
| -10 | 180 | S | " | " | " | " | " | " | " |
| -10 | 250 | S L/R | " | " | " | " | " | " | " |
| -12 | 210 | D | 46-1001-4-434 | 46-1001-4-427 | 46-1001-4-484 | 46-1001-4-504 | 46-1001-4-508 | 46-1001-4-507 | 46-1001-5-217 |
| -12 | 210 | S | " | " | " | " | " | " | " |
| -12 | 290 | S L/R | " | " | " | " | " | " | " |
| -12 | 220 | D | " | " | " | " | " | " | " |
| -12 | 220 | S | " | " | " | " | " | " | " |
| -12 | 310 | S L/R | " | " | " | " | " | " | " |
| -12 | 230 | D | " | " | " | " | " | " | " |
| -12 | 230 | S | " | " | " | " | " | " | " |
| -12 | 330 | S L/R | " | " | " | " | " | " | " |
| -14 | 260 | D | 46-1001-5-203 | 46-1001-4-489 | " | 46-1001-5-201 | 46-1001-4-506 | 46-1001-4-505 | 46-1001-5-218 |
| -14 | 260 | S | " | " | " | " | " | " | " |
| -14 | 370 | S L/R | " | " | " | " | " | " | " |
| -14 | 270 | D | " | " | " | " | " | " | " |
| -14 | 270 | S | " | " | " | " | " | " | " |
| -14 | 390 | S L/R | " | " | " | " | " | " | " |

| Part Number | Patch Guide Width | Style | Shaft | Block | Patch Guide Complete | Patch Guide (Upper) | Patch Guide (Lower) | Slide Plate (Left) | Slide Plate (Right) | Clamp Foot Spacer | Spacer Width (mm.) |
|-------------|-------------------|-------|---------------|---------------|----------------------|---------------------|---------------------|--------------------|---------------------|-------------------|--------------------|
| 16-8 | 130 | D | 46-1001-5-445 | 46-1001-5-452 | 46-1001-5-459 | 46-1001-5-456 | 46-1001-5-453 | 46-1001-4-636 | 46-1001-4-635 | 46-1001-5-455 | 2.0 |
| -8 | 130 | S | " | " | 46-1001-5-460 | " | 46-1001-5-454 | " | " | " | " |
| -8 | 145 | S L/R | " | " | 46-1001-5-461 | " | 46-1001-5-458 | " | " | 46-1001-5-457 | 1.5 |
| -10 | 170 | D | 46-1001-4-521 | 46-1001-4-537 | 46-1001-5-384 | 46-1001-5-360 | 46-1001-5-363 | " | " | 46-1001-4-593 | 3.0 |
| -10 | 170 | S | " | " | 46-1001-5-385 | " | 46-1001-5-370 | " | " | " | " |
| -10 | 230 | S L/R | " | " | 46-1001-5-386 | " | 46-1001-5-377 | " | " | " | " |
| -10 | 175 | D | " | " | 46-1001-5-387 | " | 46-1001-5-364 | " | " | 46-1001-4-594 | 3.25 |
| -10 | 175 | S | " | " | 46-1001-5-388 | " | 46-1001-5-371 | " | " | " | " |
| -10 | 240 | S L/R | " | " | 46-1001-5-389 | " | 46-1001-5-378 | " | " | " | " |
| -10 | 180 | D | " | " | 46-1001-5-408 | " | 46-1001-5-405 | " | " | 46-1001-5-411 | 3.5 |
| -10 | 180 | S | " | " | 46-1001-5-409 | " | 46-1001-5-406 | " | " | " | " |
| -10 | 250 | S L/R | " | " | 46-1001-5-410 | " | 46-1001-5-407 | " | " | " | " |
| -12 | 210 | D | 46-1001-4-522 | 46-1001-4-538 | 46-1001-5-390 | 46-1001-5-361 | 46-1001-5-365 | " | " | 46-1001-5-219 | 4.0 |
| -12 | 210 | S | " | " | 46-1001-5-391 | " | 46-1001-5-372 | " | " | " | " |
| -12 | 290 | S L/R | " | " | 46-1001-5-392 | " | 46-1001-5-379 | " | " | " | " |
| -12 | 220 | D | " | " | 46-1001-5-393 | " | 46-1001-5-366 | " | " | 46-1001-4-595 | 4.5 |
| -12 | 220 | S | " | " | 46-1001-5-394 | " | 46-1001-5-373 | " | " | " | " |
| -12 | 310 | S L/R | " | " | 46-1001-5-395 | " | 46-1001-5-380 | " | " | " | " |
| -12 | 230 | D | " | " | 46-1001-5-396 | " | 46-1001-5-367 | " | " | 46-1001-4-596 | 5.0 |
| -12 | 230 | S | " | " | 46-1001-5-397 | " | 46-1001-5-374 | " | " | " | " |
| -12 | 330 | S L/R | " | " | 46-1001-5-398 | " | 46-1001-5-381 | " | " | " | " |
| -14 | 260 | D | 46-1001-5-200 | 46-1001-5-202 | 46-1001-5-399 | 46-1001-5-362 | 46-1001-5-368 | " | " | 46-1001-5-213 | 5.5 |
| -14 | 260 | S | " | " | 46-1001-5-400 | " | 46-1001-5-375 | " | " | " | " |
| -14 | 370 | S L/R | " | " | 46-1001-5-401 | " | 46-1001-5-382 | " | " | " | " |
| -14 | 270 | D | " | " | 46-1001-5-402 | " | 46-1001-5-369 | " | " | 46-1001-5-214 | 6.0 |
| -14 | 270 | S | " | " | 46-1001-5-403 | " | 46-1001-5-376 | " | " | " | " |
| -14 | 390 | S L/R | " | " | 46-1001-5-404 | " | 46-1001-5-383 | " | " | " | " |

BITE SIZE CONVERSION CHART 16, 18, 20 mm

| Bite Size | Patch Guide Width | Style | Needle Head | Throat Plate | Pick-up | Movable Knife | Fixed Knife (Left) | Fixed Knife (Right) | Tab Finger |
|-----------|-------------------|-------|---------------|---------------|---------------|---------------|--------------------|---------------------|---------------|
| S46-16 | 280 | S | 46-1001-5-251 | 46-1001-5-254 | 46-1001-5-302 | 46-1001-5-299 | 46-1001-4-506 | 46-1001-4-505 | 46-1001-5-356 |
| -16 | 280 | D | " | " | " | " | " | " | " |
| -16 | 290 | S | " | " | " | " | " | " | " |
| -16 | 290 | D | " | " | " | " | " | " | " |
| -16 | 300 | S | " | " | " | " | " | " | " |
| -16 | 300 | D | " | " | " | " | " | " | " |
| -16 | 310 | S | " | " | " | " | " | " | " |
| -16 | 310 | D | " | " | " | " | " | " | " |
| -18 | 320 | S | 46-1001-5-252 | 46-1001-5-255 | " | 46-1001-5-300 | " | " | 46-1001-5-357 |
| -18 | 320 | D | " | " | " | " | " | " | " |
| -18 | 330 | S | " | " | " | " | " | " | " |
| -18 | 330 | D | " | " | " | " | " | " | " |
| -18 | 340 | S | " | " | " | " | " | " | " |
| -18 | 340 | D | " | " | " | " | " | " | " |
| -18 | 350 | S | " | " | " | " | " | " | " |
| -18 | 350 | D | " | " | " | " | " | " | " |
| -20 | 360 | S | 46-1001-5-253 | 46-1001-5-256 | " | 46-1001-5-301 | " | " | 46-1001-5-358 |
| -20 | 360 | D | " | " | " | " | " | " | " |
| -20 | 370 | S | " | " | " | " | " | " | " |
| -20 | 370 | S | " | " | " | " | " | " | " |
| -20 | 380 | S | " | " | " | " | " | " | " |
| -20 | 380 | D | " | " | " | " | " | " | " |
| -20 | 390 | S | " | " | " | " | " | " | " |
| -20 | 390 | D | " | " | " | " | " | " | " |

PARTS INDEX

| Parts No. | Page No. | Ref. No. |
|---------------|----------|----------|
| 02-0150-0-110 | 34 | 24 |
| 02-0150-0-111 | 34 | 24 |
| 02-0150-0-112 | 34 | 24 |
| 02-0150-0-113 | 34 | 24 |
| 02-0150-0-114 | 34 | 24 |
| 05-1116-0-000 | 1 | 39 |
| 46-1000-0-002 | 8 | 82 |
| 46-1000-0-002 | 9 | 19 |
| 46-1000-0-002 | 10 | 11 |
| 46-1000-0-002 | 11 | 6 |
| 46-1000-0-002 | 14 | 8 |
| 46-1000-0-002 | 16 | 3 |
| 46-1000-0-002 | 21 | 18 |
| 46-1000-0-002 | 24 | 6 |
| 46-1000-0-002 | 7 | 25 |
| 46-1000-0-009 | 8 | 17 |
| 46-1000-0-009 | 10 | 75 |
| 46-1000-0-009 | 13 | 71 |
| 46-1000-0-009 | 16 | 54 |
| 46-1000-0-009 | 18 | 6 |
| 46-1000-0-009 | 22 | 35 |
| 46-1000-0-011 | 10 | 54 |
| 46-1000-0-011 | 16 | 49 |
| 46-1000-0-011 | 19 | 20 |
| 46-1000-0-011 | 25 | 9 |
| 46-1000-0-011 | 30 | 19 |
| 46-1000-0-012 | 8 | 74 |
| 46-1000-0-012 | 9 | 72 |
| 46-1000-0-012 | 10 | 12 |
| 46-1000-0-012 | 11 | 7 |
| 46-1000-0-012 | 14 | 9 |
| 46-1000-0-012 | 16 | 20 |
| 46-1000-0-012 | 21 | 19 |
| 46-1000-0-012 | 24 | 7 |
| 46-1000-0-012 | 30 | 9 |
| 46-1000-0-012 | 7 | 47 |
| 46-1000-0-014 | 8 | 83 |
| 46-1000-0-014 | 9 | 20 |
| 46-1000-0-014 | 10 | 9 |
| 46-1000-0-014 | 11 | 5 |
| 46-1000-0-014 | 13 | 65 |
| 46-1000-0-014 | 14 | 7 |
| 46-1000-0-014 | 16 | 4 |
| 46-1000-0-014 | 17 | 45 |
| 46-1000-0-014 | 19 | 24 |
| 46-1000-0-014 | 21 | 17 |
| 46-1000-0-014 | 24 | 5 |
| 46-1000-0-014 | 30 | 8 |
| 46-1000-0-014 | 7 | 26 |
| 46-1000-0-015 | 8 | 27 |

| Parts No. | Page No. | Ref. No. |
|---------------|----------|----------|
| 46-1000-0-015 | 10 | 26 |
| 46-1000-0-015 | 14 | 40 |
| 46-1000-0-015 | 15 | 47 |
| 46-1000-0-015 | 16 | 25 |
| 46-1000-0-015 | 23 | 22 |
| 46-1000-0-015 | 24 | 33 |
| 46-1000-0-016 | 9 | 39 |
| 46-1000-0-016 | 10 | 23 |
| 46-1000-0-016 | 11 | 18 |
| 46-1000-0-016 | 15 | 22 |
| 46-1000-0-016 | 19 | 30 |
| 46-1000-0-016 | 24 | 28 |
| 46-1000-0-016 | 27 | 10 |
| 46-1000-0-016 | 29 | 39 |
| 46-1000-0-016 | 30 | 38 |
| 46-1000-0-035 | 14 | 45 |
| 46-1000-0-035 | 15 | 52 |
| 46-1000-0-037 | 30 | 14 |
| 46-1000-0-038 | 7 | 21 |
| 46-1000-0-054 | 13 | 14 |
| 46-1000-0-054 | 19 | 5 |
| 46-1000-0-054 | 30 | 28 |
| 46-1000-0-063 | 8 | 58 |
| 46-1000-0-070 | 11 | 31 |
| 46-1000-0-145 | 17 | 23 |
| 46-1000-0-162 | 11 | 33 |
| 46-1000-0-182 | 7 | 14 |
| 46-1000-0-257 | 7 | 27 |
| 46-1000-0-260 | 8 | 28 |
| 46-1000-0-260 | 14 | 15 |
| 46-1000-0-260 | 29 | 32 |
| 46-1000-0-260 | 30 | 53 |
| 46-1000-0-332 | 11 | 47 |
| 46-1000-0-334 | 22 | 11 |
| 46-1000-0-335 | 10 | 16 |
| 46-1000-0-339 | 17 | 9 |
| 46-1000-0-419 | 12 | 34 |
| 46-1000-0-421 | 11 | 27 |
| 46-1000-0-426 | 10 | 73 |
| 46-1000-0-428 | 11 | 51 |
| 46-1000-0-428 | 15 | 59 |
| 46-1000-0-429 | 11 | 17 |
| 46-1000-0-429 | 18 | 40 |
| 46-1000-0-432 | 13 | 15 |
| 46-1000-0-432 | 22 | 7 |
| 46-1000-0-342 | 29 | 16 |
| 46-1000-0-432 | 30 | 21 |
| 46-1000-0-433 | 11 | 26 |
| 46-1000-0-439 | 8 | 29 |
| 46-1000-0-439 | 16 | 10 |

| Parts No. | Page No. | Ref. No. |
|---------------|----------|----------|
| 46-1000-0-439 | 18 | 27 |
| 46-1000-0-439 | 22 | 6 |
| 46-1000-0-439 | 29 | 31 |
| 46-1000-0-530 | 22 | 10 |
| 46-1000-0-532 | 9 | 4 |
| 46-1000-0-532 | 9 | 15 |
| 46-1000-0-532 | 10 | 15 |
| 46-1000-0-538 | 13 | 66 |
| 46-1000-0-555 | 10 | 63 |
| 46-1000-0-600 | 8 | 16 |
| 46-1000-0-600 | 10 | 33 |
| 46-1000-0-600 | 12 | 6 |
| 46-1000-0-600 | 13 | 57 |
| 46-1000-0-600 | 15 | 16 |
| 46-1000-0-600 | 18 | 5 |
| 46-1000-0-600 | 21 | 8 |
| 46-1000-0-600 | 22 | 34 |
| 46-1000-0-600 | 23 | 42 |
| 46-1000-0-600 | 32 | 27 |
| 46-1000-0-612 | 8 | 30 |
| 46-1000-0-612 | 14 | 16 |
| 46-1000-0-612 | 16 | 11 |
| 46-1000-0-612 | 18 | 28 |
| 46-1000-0-623 | 10 | 67 |
| 46-1000-0-644 | 8 | 3 |
| 46-1000-0-644 | 9 | 3 |
| 46-1000-0-644 | 10 | 30 |
| 46-1000-0-644 | 12 | 43 |
| 46-1000-0-644 | 14 | 3 |
| 46-1000-0-644 | 15 | 10 |
| 46-1000-0-644 | 16 | 14 |
| 46-1000-0-644 | 17 | 5 |
| 46-1000-0-644 | 21 | 4 |
| 46-1000-0-644 | 23 | 21 |
| 46-1000-0-644 | 24 | 32 |
| 46-1000-0-644 | 32 | 17 |
| 46-1000-0-644 | 7 | 43 |
| 46-1000-0-663 | 8 | 13 |
| 46-1000-0-663 | 9 | 28 |
| 46-1000-0-663 | 10 | 74 |
| 46-1000-0-663 | 13 | 62 |
| 46-1000-0-663 | 14 | 12 |
| 46-1000-0-663 | 15 | 4 |
| 46-1000-0-663 | 16 | 47 |
| 46-1000-0-663 | 17 | 34 |
| 46-1000-0-663 | 19 | 18 |
| 46-1000-0-663 | 21 | 26 |
| 46-1000-0-663 | 22 | 19 |
| 46-1000-0-663 | 23 | 8 |
| 46-1000-0-663 | 24 | 21 |

| Parts No. | Page No. | Ref. No. |
|---------------|----------|----------|
| 46-1000-0-663 | 25 | 7 |
| 46-1000-0-663 | 29 | 28 |
| 46-1000-0-663 | 30 | 26 |
| 46-1000-0-663 | 32 | 7 |
| 46-1000-0-663 | 33 | 8 |
| 46-1000-0-665 | 8 | 4 |
| 46-1000-0-665 | 9 | 11 |
| 46-1000-0-665 | 10 | 31 |
| 46-1000-0-665 | 12 | 44 |
| 46-1000-0-665 | 14 | 4 |
| 46-1000-0-665 | 15 | 9 |
| 46-1000-0-665 | 16 | 15 |
| 46-1000-0-665 | 17 | 6 |
| 46-1000-0-665 | 21 | 5 |
| 46-1000-0-665 | 22 | 28 |
| 46-1000-0-665 | 23 | 20 |
| 46-1000-0-665 | 24 | 31 |
| 46-1000-0-665 | 30 | 65 |
| 46-1000-0-665 | 32 | 18 |
| 46-1000-0-665 | 7 | 8 |
| 46-1000-0-666 | 8 | 42 |
| 46-1000-0-666 | 9 | 37 |
| 46-1000-0-666 | 10 | 25 |
| 46-1000-0-666 | 14 | 29 |
| 46-1000-0-666 | 15 | 20 |
| 46-1000-0-666 | 19 | 13 |
| 46-1000-0-666 | 24 | 26 |
| 46-1000-0-666 | 27 | 6 |
| 46-1000-0-666 | 29 | 9 |
| 46-1000-0-666 | 30 | 36 |
| 46-1000-0-667 | 8 | 12 |
| 46-1000-0-667 | 9 | 27 |
| 46-1000-0-667 | 11 | 52 |
| 46-1000-0-667 | 13 | 61 |
| 46-1000-0-667 | 14 | 11 |
| 46-1000-0-667 | 15 | 3 |
| 46-1000-0-667 | 16 | 48 |
| 46-1000-0-667 | 19 | 19 |
| 46-1000-0-667 | 21 | 25 |
| 46-1000-0-667 | 22 | 18 |
| 46-1000-0-667 | 23 | 9 |
| 46-1000-0-667 | 25 | 8 |
| 46-1000-0-667 | 29 | 27 |
| 46-1000-0-667 | 30 | 49 |
| 46-1000-0-667 | 32 | 6 |
| 46-1000-0-667 | 33 | 7 |
| 46-1000-0-669 | 8 | 15 |
| 46-1000-0-669 | 9 | 74 |
| 46-1000-0-669 | 10 | 34 |
| 46-1000-0-669 | 12 | 7 |

| Parts No. | Page No. | Ref. No. |
|---------------|----------|----------|
| 46-1000-0-669 | 13 | 58 |
| 46-1000-0-669 | 15 | 17 |
| 46-1000-0-669 | 18 | 4 |
| 46-1000-0-669 | 21 | 9 |
| 46-1000-0-669 | 22 | 33 |
| 46-1000-0-669 | 23 | 43 |
| 46-1000-0-669 | 32 | 28 |
| 46-1000-0-670 | 10 | 7 |
| 46-1000-0-676 | 8 | 41 |
| 46-1000-0-676 | 9 | 38 |
| 46-1000-0-676 | 10 | 24 |
| 46-1000-0-676 | 11 | 34 |
| 46-1000-0-676 | 14 | 28 |
| 46-1000-0-676 | 15 | 21 |
| 46-1000-0-676 | 19 | 12 |
| 46-1000-0-676 | 24 | 27 |
| 46-1000-0-676 | 27 | 5 |
| 46-1000-0-676 | 29 | 8 |
| 46-1000-0-676 | 30 | 37 |
| 46-1000-0-676 | 32 | 11 |
| 46-1000-0-755 | 13 | 34 |
| 46-1000-1-092 | 7 | 10 |
| 46-1000-1-117 | 13 | 25 |
| 46-1000-1-124 | 9 | 57 |
| 46-1000-1-156 | 13 | 64 |
| 46-1000-1-170 | 13 | 36 |
| 46-1000-1-222 | 12 | 20 |
| 46-1000-1-613 | 12 | 26 |
| 46-1000-2-484 | 10 | 17 |
| 46-1000-3-635 | 8 | 47 |
| 46-1000-3-637 | 8 | 20 |
| 46-1000-3-637 | 9 | 60 |
| 46-1000-3-655 | 16 | 39 |
| 46-1000-3-655 | 30 | 46 |
| 46-1000-3-656 | 9 | 50 |
| 46-1000-3-656 | 12 | 16 |
| 46-1000-3-656 | 13 | 13 |
| 46-1000-3-656 | 17 | 19 |
| 46-1000-3-659 | 8 | 39 |
| 46-1000-3-662 | 13 | 5 |
| 46-1000-3-662 | 15 | 34 |
| 46-1000-3-662 | 17 | 29 |
| 46-1000-3-662 | 18 | 23 |
| 46-1000-3-662 | 20 | 6 |
| 46-1000-3-662 | 21 | 11 |
| 46-1000-3-662 | 29 | 3 |
| 46-1000-3-662 | 30 | 11 |

| Parts No. | Page No. | Ref. No. |
|---------------|----------|----------|
| 46-1000-3-662 | 31 | 7 |
| 46-1000-3-662 | 32 | 14 |
| 46-1000-3-662 | 33 | 4 |
| 46-1000-4-104 | 9 | 2 |
| 46-1000-4-127 | 7 | 9 |
| 46-1000-4-258 | 13 | 50 |
| 46-1000-4-351 | 19 | 39 |
| 46-1000-4-351 | 29 | 23 |
| 46-1000-4-352 | 9 | 16 |
| 46-1000-4-352 | 13 | 38 |
| 46-1000-4-358 | 12 | 36 |
| 46-1000-4-404 | 12 | 29 |
| 46-1000-4-440 | 13 | 40 |
| 46-1000-4-445 | 22 | 9 |
| 46-1000-4-642 | 9 | 22 |
| 46-1000-5-000 | 9 | 46 |
| 46-1000-5-044 | 17 | 43 |
| 46-1000-5-061 | 9 | 67 |
| 46-1000-5-121 | 13 | 75 |
| 46-1000-6-176 | 14 | 22 |
| 46-1000-6-176 | 15 | 7 |
| 46-1000-6-178 | 12 | 10 |
| 46-1000-6-183 | 16 | 31 |
| 46-1000-6-184 | 17 | 35 |
| 46-1000-6-185 | 17 | 36 |
| 46-1000-6-186 | 8 | 57 |
| 46-1000-6-187 | 9 | 36 |
| 46-1000-6-188 | 17 | 2 |
| 46-1000-6-190 | 14 | 14 |
| 46-1000-6-191 | 8 | 61 |
| 46-1000-6-192 | 8 | 24 |
| 46-1000-6-193 | 17 | 22 |
| 46-1000-6-195 | 3 | 36 |
| 46-1000-6-196 | 11 | 35 |
| 46-1000-6-197 | 3 | 37 |
| 46-1000-6-198 | 12 | 33 |
| 46-1000-6-199 | 30 | 20 |
| 46-1000-6-201 | 19 | 42 |
| 46-1000-6-203 | 11 | 11 |
| 46-1000-6-205 | 20 | 4 |
| 46-1000-6-206 | 19 | 6 |
| 46-1000-6-208 | 29 | 35 |
| 46-1000-6-209 | 11 | 37 |
| 46-1000-6-209 | 34 | 14 |
| 46-1000-6-210 | 8 | 62 |
| 46-1000-6-212 | 17 | 25 |
| 46-1000-6-212 | 18 | 12 |

| Parts No. | Page No. | Ref. No. |
|---------------|----------|----------|
| 46-1000-6-212 | 19 | 7 |
| 46-1000-6-212 | 30 | 43 |
| 46-1000-6-213 | 16 | 24 |
| 46-1000-6-214 | 16 | 2 |
| 46-1000-6-215 | 16 | 41 |
| 46-1000-6-216 | 16 | 46 |
| 46-1000-6-217 | 17 | 41 |
| 46-1000-6-218 | 11 | 16 |
| 46-1000-6-219 | 23 | 46 |
| 46-1000-6-219 | 32 | 16 |
| 46-1000-6-220 | 15 | 57 |
| 46-1000-6-220 | 18 | 2 |
| 46-1000-6-223 | 11 | 58 |
| 46-1000-6-225 | 15 | 2 |
| 46-1000-6-225 | 24 | 20 |
| 46-1000-6-226 | 10 | 53 |
| 46-1000-6-226 | 14 | 10 |
| 46-1000-6-227 | 17 | 11 |
| 46-1000-6-229 | 10 | 72 |
| 46-1000-6-229 | 13 | 70 |
| 46-1000-6-232 | 10 | 22 |
| 46-1000-6-232 | 24 | 25 |
| 46-1000-6-233 | 10 | 8 |
| 46-1000-6-233 | 24 | 14 |
| 46-1000-6-235 | 17 | 21 |
| 46-1000-6-236 | 9 | 10 |
| 46-1000-6-248 | 16 | 19 |
| 46-1000-6-434 | 10 | 14 |
| 46-1000-6-444 | 11 | 46 |
| 46-1000-6-638 | 17 | 8 |
| 46-1000-6-905 | 11 | 39 |
| 46-1000-6-905 | 11 | 62 |
| 46-1000-6-905 | 29 | 5 |
| 46-1000-6-905 | 31 | 10 |
| 46-1000-6-905 | 32 | 24 |
| 46-1000-7-609 | 7 | 39 |
| 46-1000-7-650 | 8 | 33 |
| 46-1000-7-650 | 13 | 7 |
| 46-1000-7-678 | 12 | 31 |
| 46-1000-8-200 | 1 | 2 |
| 46-1000-8-201 | 1 | 3 |
| 46-1000-8-202 | 1 | 7 |
| 46-1000-8-202 | 5 | 42 |
| 46-1000-8-203 | 1 | 14 |
| 46-1000-8-204 | 1 | 22 |
| 46-1000-8-205 | 2 | 5 |
| 46-1000-8-206 | 2 | 6 |
| 46-1000-8-207 | 2 | 35 |

| Parts No. | Page No. | Ref. No. |
|---------------|----------|----------|
| 46-1000-8-207 | 3 | 14 |
| 46-1000-8-208 | 3 | 8 |
| 46-1000-8-209 | 3 | 31 |
| 46-1000-8-210 | 3 | 32 |
| 46-1000-8-211 | 5 | 3 |
| 46-1000-8-212 | 5 | 8 |
| 46-1000-8-213 | 5 | 14 |
| 46-1000-8-214 | 5 | 16 |
| 46-1000-8-215 | 5 | 5 |
| 46-1000-8-216 | 5 | 46 |
| 46-1000-8-217 | 6 | 7 |
| 46-1000-8-218 | 6 | 8 |
| 46-1000-8-219 | 6 | 11 |
| 46-1000-8-220 | 6 | 19 |
| 46-1000-8-221 | 6 | 22 |
| 46-1000-8-222 | 6 | 31 |
| 46-1000-8-223 | 6 | 41 |
| 46-1000-8-224 | 1 | 29 |
| 46-1000-8-224 | 7 | 6 |
| 46-1000-8-225 | 1 | 37 |
| 46-1000-8-226 | 5 | 37 |
| 46-1000-8-227 | 6 | 9 |
| 46-1000-8-228 | 1 | 5 |
| 46-1000-8-229 | 1 | 13 |
| 46-1000-8-230 | 2 | 32 |
| 46-1000-8-231 | 4 | 9 |
| 46-1000-8-232 | 3 | 28 |
| 46-1000-8-233 | 2 | 3 |
| 46-1000-8-233 | 2 | 13 |
| 46-1000-8-233 | 2 | 17 |
| 46-1000-8-233 | 2 | 25 |
| 46-1000-8-233 | 13 | 3 |
| 46-1000-8-234 | 2 | 9 |
| 46-1000-8-234 | 4 | 17 |
| 46-1000-8-235 | 2 | 10 |
| 46-1000-8-235 | 4 | 16 |
| 46-1000-8-236 | 2 | 21 |
| 46-1000-8-236 | 4 | 13 |
| 46-1000-8-237 | 2 | 22 |
| 46-1000-8-237 | 4 | 12 |
| 46-1000-8-238 | 2 | 41 |
| 46-1000-8-239 | 3 | 6 |
| 46-1000-8-239 | 4 | 4 |
| 46-1000-8-240 | 3 | 23 |
| 46-1000-8-241 | 3 | 21 |
| 46-1000-8-242 | 4 | 6 |
| 46-1000-8-243 | 4 | 15 |
| 46-1000-8-244 | 6 | 15 |
| 46-1000-8-245 | 1 | 8 |
| 46-1000-8-246 | 6 | 12 |

| Parts No. | Page No. | Ref. No. |
|---------------|----------|----------|
| 46-1000-8-246 | 6 | 43 |
| 46-1000-8-247 | 6 | 16 |
| 46-1000-8-247 | 6 | 33 |
| 46-1000-8-248 | 5 | 6 |
| 46-1000-8-249 | 6 | 39 |
| 46-1000-8-250 | 6 | 40 |
| 46-1000-8-251 | 6 | 20 |
| 46-1000-8-251 | 6 | 26 |
| 46-1000-8-251 | 6 | 32 |
| 46-1000-8-252 | 1 | 10 |
| 46-1000-8-253 | 1 | 38 |
| 46-1000-8-254 | 3 | 18 |
| 46-1000-8-255 | 5 | 40 |
| 46-1000-8-256 | 1 | 27 |
| 46-1000-8-257 | 3 | 17 |
| 46-1000-8-258 | 3 | 10 |
| 46-1000-8-259 | 3 | 13 |
| 46-1000-8-260 | 5 | 38 |
| 46-1000-8-261 | 5 | 47 |
| 46-1000-8-262 | 6 | 23 |
| 46-1000-8-263 | 6 | 44 |
| 46-1000-8-264 | 5 | 39 |
| 46-1000-8-264 | 6 | 42 |
| 46-1000-8-265 | 6 | 25 |
| 46-1000-8-266 | 5 | 25 |
| 46-1000-8-267 | 5 | 9 |
| 46-1000-8-268 | 5 | 22 |
| 46-1000-8-269 | 5 | 21 |
| 46-1000-8-270 | 5 | 28 |
| 46-1000-8-271 | 5 | 27 |
| 46-1000-8-272 | 5 | 20 |
| 46-1000-8-273 | 5 | 10 |
| 46-1000-8-274 | 5 | 19 |
| 46-1000-8-275 | 5 | 31 |
| 46-1000-8-276 | 5 | 32 |
| 46-1000-8-277 | 5 | 4 |
| 46-1000-8-278 | 5 | 33 |
| 46-1000-8-279 | 5 | 18 |
| 46-1000-8-280 | 5 | 34 |
| 46-1000-8-281 | 5 | 35 |
| 46-1000-8-282 | 5 | 48 |
| 46-1000-8-283 | 5 | 50 |
| 46-1000-8-284 | 5 | 52 |
| 46-1000-8-285 | 5 | 54 |
| 46-1000-8-286 | 5 | 56 |
| 46-1000-8-287 | 5 | 61 |
| 46-1000-8-289 | 3 | 2 |
| 46-1000-9-127 | 9 | 56 |
| 46-1000-9-127 | 12 | 23 |

| Parts No. | Page No. | Ref. No. |
|---------------|----------|----------|
| 46-1000-9-142 | 12 | 24 |
| 46-1000-9-150 | 13 | 29 |
| 46-1000-9-209 | 7 | 40 |
| 46-1000-9-604 | 9 | 55 |
| 46-1000-9-730 | 13 | 49 |
| 46-1000-9-733 | 27 | 17 |
| 46-1000-9-734 | 8 | 67 |
| 46-1000-9-734 | 26 | 16 |
| 46-1000-9-735 | 8 | 79 |
| 46-1000-9-735 | 12 | 39 |
| 46-1000-9-735 | 13 | 17 |
| 46-1000-9-735 | 30 | 18 |
| 46-1000-9-736 | 9 | 65 |
| 46-1000-9-736 | 13 | 60 |
| 46-1000-9-736 | 15 | 31 |
| 46-1000-9-736 | 22 | 13 |
| 46-1000-9-737 | 14 | 41 |
| 46-1000-9-737 | 15 | 48 |
| 46-1000-9-738 | 16 | 34 |
| 46-1000-9-738 | 18 | 3 |
| 46-1000-9-740 | 11 | 54 |
| 46-1000-9-740 | 14 | 19 |
| 46-1000-9-740 | 16 | 36 |
| 46-1000-9-744 | 8 | 73 |
| 46-1000-9-744 | 16 | 17 |
| 46-1000-9-744 | 30 | 41 |
| 46-1000-9-745 | 8 | 68 |
| 46-1000-9-745 | 9 | 18 |
| 46-1000-9-745 | 10 | 18 |
| 46-1000-9-745 | 24 | 9 |
| 46-1000-9-746 | 9 | 53 |
| 46-1000-9-746 | 10 | 41 |
| 46-1000-9-746 | 13 | 44 |
| 46-1000-9-746 | 14 | 2 |
| 46-1000-9-746 | 17 | 4 |
| 46-1000-9-747 | 9 | 35 |
| 46-1000-9-747 | 10 | 36 |
| 46-1000-9-747 | 11 | 56 |
| 46-1000-9-747 | 12 | 42 |
| 46-1000-9-747 | 14 | 24 |
| 46-1000-9-747 | 15 | 11 |
| 46-1000-9-747 | 16 | 22 |
| 46-1000-9-747 | 23 | 55 |
| 46-1000-9-748 | 8 | 60 |
| 46-1000-9-748 | 21 | 3 |
| 46-1000-9-748 | 7 | 42 |
| 46-1000-9-749 | 8 | 2 |
| 46-1000-9-749 | 9 | 48 |
| 46-1000-9-749 | 15 | 28 |
| 46-1000-9-749 | 21 | 7 |

| Parts No. | Page No. | Ref. No. |
|---------------|----------|----------|
| 46-1000-9-749 | 23 | 19 |
| 46-1000-9-750 | 16 | 23 |
| 46-1000-9-750 | 23 | 51 |
| 46-1000-9-751 | 8 | 72 |
| 46-1000-9-751 | 10 | 64 |
| 46-1000-9-751 | 22 | 32 |
| 46-1000-9-725 | 9 | 30 |
| 46-1000-9-752 | 10 | 32 |
| 46-1000-9-752 | 12 | 5 |
| 46-1000-9-752 | 13 | 56 |
| 46-1000-9-752 | 14 | 47 |
| 46-1000-9-752 | 15 | 15 |
| 46-1000-9-752 | 15 | 54 |
| 46-1000-9-752 | 23 | 41 |
| 46-1000-9-753 | 2 | 44 |
| 46-1000-9-753 | 9 | 26 |
| 46-1000-9-753 | 15 | 39 |
| 46-1000-9-753 | 18 | 11 |
| 46-1000-9-753 | 29 | 41 |
| 46-1000-9-754 | 14 | 25 |
| 46-1000-9-754 | 15 | 12 |
| 46-1000-9-754 | 30 | 25 |
| 46-1000-9-755 | 11 | 53 |
| 46-1000-9-755 | 15 | 58 |
| 46-1000-9-755 | 16 | 28 |
| 46-1000-9-757 | 29 | 7 |
| 46-1000-9-758 | 9 | 42 |
| 46-1000-9-758 | 15 | 19 |
| 46-1000-9-758 | 29 | 34 |
| 46-1000-9-758 | 30 | 35 |
| 46-1000-9-759 | 18 | 9 |
| 46-1000-9-759 | 29 | 38 |
| 46-1000-9-759 | 30 | 62 |
| 46-1000-9-760 | 18 | 26 |
| 46-1000-9-760 | 29 | 17 |
| 46-1000-9-761 | 16 | 9 |
| 46-1000-9-761 | 25 | 11 |
| 46-1000-9-761 | 29 | 30 |
| 46-1000-9-761 | 30 | 51 |
| 46-1000-9-761 | 32 | 2 |
| 46-1000-9-764 | 14 | 6 |
| 46-1000-9-768 | 9 | 7 |
| 46-1000-9-768 | 24 | 8 |
| 46-1000-9-769 | 11 | 13 |
| 46-1000-9-770 | 11 | 23 |
| 46-1000-9-770 | 22 | 38 |
| 46-1000-9-770 | 24 | 30 |
| 46-1000-9-774 | 10 | 6 |
| 46-1000-9-775 | 30 | 23 |
| 46-1000-9-776 | 16 | 45 |

| Parts No. | Page No. | Ref. No. |
|---------------|----------|----------|
| 46-1000-9-776 | 30 | 3 |
| 46-1000-9-777 | 8 | 48 |
| 46-1000-9-777 | 9 | 75 |
| 46-1000-9-777 | 32 | 10 |
| 46-1000-9-779 | 8 | 81 |
| 46-1000-9-783 | 23 | 31 |
| 46-1000-9-791 | 17 | 46 |
| 46-1000-9-793 | 11 | 42 |
| 46-1000-9-793 | 24 | 4 |
| 46-1000-9-798 | 14 | 37 |
| 46-1000-9-798 | 15 | 44 |
| 46-1000-9-798 | 26 | 12 |
| 46-1000-9-799 | 21 | 15 |
| 46-1000-9-800 | 30 | 7 |
| 46-1000-9-801 | 11 | 41 |
| 46-1000-9-801 | 24 | 35 |
| 46-1000-9-804 | 7 | 19 |
| 46-1000-9-805 | 7 | 23 |
| 46-1000-9-807 | 27 | 8 |
| 46-1000-9-810 | 33 | 6 |
| 46-1000-9-858 | 11 | 32 |
| 46-1000-9-883 | 7 | 30 |
| 46-1000-9-895 | 25 | 14 |
| 46-1000-9-911 | 9 | 32 |
| 46-1000-9-916 | 18 | 24 |
| 46-1000-9-928 | 22 | 5 |
| 46-1000-9-929 | 11 | 8 |
| 46-1000-9-935 | 8 | 54 |
| 46-1000-9-935 | 13 | 23 |
| 46-1000-9-935 | 16 | 52 |
| 46-1000-9-935 | 18 | 16 |
| 46-1000-9-935 | 32 | 26 |
| 46-1000-9-936 | 8 | 40 |
| 46-1000-9-936 | 14 | 21 |
| 46-1000-9-936 | 19 | 11 |
| 46-1000-9-936 | 29 | 14 |
| 46-1000-9-940 | 14 | 27 |
| 46-1000-9-953 | 22 | 17 |
| 46-1000-9-954 | 27 | 4 |
| 46-1000-9-956 | 8 | 7 |
| 46-1000-9-956 | 19 | 2 |
| 46-1000-9-956 | 7 | 24 |
| 46-1000-9-957 | 19 | 25 |
| 46-1000-9-964 | 17 | 33 |
| 46-1000-9-970 | 8 | 11 |
| 46-1000-9-970 | 9 | 73 |
| 46-1000-9-970 | 15 | 6 |
| 46-1000-9-970 | 16 | 30 |
| 46-1000-9-970 | 19 | 9 |
| 46-1000-9-970 | 19 | 28 |

| Parts No. | Page No. | Ref. No. |
|---------------|----------|----------|
| 46-1000-9-970 | 25 | 6 |
| 46-1000-9-970 | 29 | 26 |
| 46-1000-9-970 | 30 | 48 |
| 46-1000-9-974 | 10 | 29 |
| 46-1000-9-975 | 20 | 13 |
| 46-1000-9-976 | 13 | 10 |
| 46-1000-9-976 | 16 | 42 |
| 46-1000-9-976 | 17 | 32 |
| 46-1000-9-976 | 21 | 24 |
| 46-1000-9-976 | 23 | 10 |
| 46-1000-9-976 | 30 | 59 |
| 46-1000-9-976 | 31 | 5 |
| 46-1000-9-976 | 32 | 5 |
| 46-1000-9-977 | 9 | 62 |
| 46-1000-9-978 | 19 | 29 |
| 46-1000-9-980 | 8 | 9 |
| 46-1000-9-980 | 10 | 56 |
| 46-1000-9-980 | 15 | 36 |
| 46-1000-9-992 | 16 | 13 |
| 46-1000-9-992 | 22 | 27 |
| 46-1000-9-993 | 7 | 45 |
| 46-1000-9-994 | 11 | 4 |
| 46-1000-9-994 | 13 | 68 |
| 46-1000-9-994 | 21 | 22 |
| 46-1001-0-018 | 10 | 68 |
| 46-1001-0-019 | 12 | 2 |
| 46-1001-0-019 | 17 | 14 |
| 46-1001-0-021 | 23 | 16 |
| 46-1001-0-023 | 23 | 13 |
| 46-1001-0-032 | 15 | 40 |
| 46-1001-0-054 | 9 | 17 |
| 46-1001-0-054 | 15 | 41 |
| 46-1001-0-054 | 16 | 18 |
| 46-1001-0-054 | 24 | 3 |
| 46-1001-0-055 | 8 | 36 |
| 46-1001-0-055 | 11 | 67 |
| 46-1001-0-055 | 30 | 32 |
| 46-1001-0-056 | 8 | 35 |
| 46-1001-0-056 | 11 | 66 |
| 46-1001-0-057 | 30 | 31 |
| 46-1001-0-057 | 31 | 13 |
| 46-1001-0-057 | 32 | 20 |
| 46-1001-0-065 | 11 | 64 |
| 46-1001-0-078 | 23 | 26 |
| 46-1001-0-084 | 11 | 65 |
| 46-1001-0-094 | 10 | 52 |
| 46-1001-0-117 | 16 | 5 |
| 46-1001-0-125 | 23 | 25 |
| 46-1001-0-137 | 22 | 31-1 |

| Parts No. | Page No. | Ref. No. |
|---------------|----------|----------|
| 46-1001-0-143 | 23 | 53 |
| 46-1001-0-148 | 31 | 9 |
| 46-1001-0-172 | 23 | 29 |
| 46-1001-0-173 | 23 | 30 |
| 46-1001-0-176 | 18 | 36 |
| 46-1001-0-181 | 23 | 40 |
| 46-1001-0-182 | 16 | 6 |
| 46-1001-0-182 | 24 | 1 |
| 46-1001-0-184 | 23 | 11 |
| 46-1001-0-185 | 23 | 17 |
| 46-1001-0-188 | 23 | 5 |
| 46-1001-0-204 | 23 | 34 |
| 46-1001-0-205 | 18 | 38 |
| 46-1001-0-205 | 23 | 27 |
| 46-1001-0-207 | 18 | 34 |
| 46-1001-0-207 | 23 | 32 |
| 46-1001-0-208 | 18 | 37 |
| 46-1001-0-209 | 18 | 31 |
| 46-1001-0-210 | 18 | 32 |
| 46-1001-0-212 | 23 | 37 |
| 46-1001-0-213 | 23 | 36 |
| 46-1001-0-216 | 23 | 35 |
| 46-1001-0-220 | 23 | 38 |
| 46-1001-0-221 | 23 | 39 |
| 46-1001-0-227 | 23 | 1 |
| 46-1001-0-234 | 23 | 50 |
| 46-1001-0-234 | 25 | 3 |
| 46-1001-0-235 | 23 | 49 |
| 46-1001-0-235 | 25 | 2 |
| 46-1001-0-237 | 25 | 1 |
| 46-1001-0-238 | 23 | 45 |
| 46-1001-0-239 | 23 | 15 |
| 46-1001-0-240 | 14 | 32 |
| 46-1001-0-241 | 12 | 1 |
| 46-1001-0-242 | 12 | 40 |
| 46-1001-0-243 | 13 | 69 |
| 46-1001-0-244 | 15 | 38 |
| 46-1001-0-245 | 15 | 23 |
| 46-1001-0-246 | 9 | 6 |
| 46-1001-0-247 | 8 | 34 |
| 46-1001-0-248 | 11 | 40 |
| 46-1001-0-248 | 24 | 34 |
| 46-1001-0-249 | 8 | 18 |
| 46-1001-0-250 | 16 | 27 |
| 46-1001-0-251 | 16 | 51 |
| 46-1001-0-252 | 18 | 18 |
| 46-1001-0-253 | 12 | 21 |
| 46-1001-0-254 | 14 | 35 |
| 46-1001-0-254 | 15 | 24 |
| 46-1001-0-254 | 29 | 19 |

| Parts No. | Page No. | Ref. No. |
|---------------|----------|----------|
| 46-1001-0-254 | 30 | 55 |
| 46-1001-0-255 | 18 | 19 |
| 46-1001-0-256 | 10 | 50 |
| 46-1001-0-257 | 23 | 47 |
| 46-1001-0-258 | 8 | 21 |
| 46-1001-0-258 | 9 | 8 |
| 46-1001-0-258 | 10 | 69 |
| 46-1001-0-258 | 11 | 43 |
| 46-1001-0-258 | 12 | 3 |
| 46-1001-0-258 | 13 | 74 |
| 46-1001-0-258 | 15 | 42 |
| 46-1001-0-258 | 16 | 7 |
| 46-1001-0-258 | 17 | 15 |
| 46-1001-0-258 | 23 | 56 |
| 46-1001-0-258 | 24 | 2 |
| 46-1001-0-260 | 8 | 75 |
| 46-1001-0-260 | 9 | 68 |
| 46-1001-0-260 | 10 | 70 |
| 46-1001-0-260 | 11 | 44 |
| 46-1001-0-260 | 12 | 45 |
| 46-1001-0-260 | 13 | 77 |
| 46-1001-0-260 | 14 | 17 |
| 46-1001-0-260 | 15 | 56 |
| 46-1001-0-260 | 16 | 55 |
| 46-1001-0-260 | 17 | 47 |
| 46-1001-0-260 | 23 | 60 |
| 46-1001-0-260 | 24 | 36 |
| 46-1001-0-260 | 29 | 47 |
| 46-1001-0-260 | 30 | 70 |
| 46-1001-0-260 | 31 | 14 |
| 46-1001-0-260 | 32 | 29 |
| 46-1001-0-261 | 18 | 39 |
| 46-1001-0-261 | 23 | 59 |
| 46-1001-0-261 | 31 | 15 |
| 46-1001-0-261 | 32 | 30 |
| 46-1001-0-262 | 23 | 58 |
| 46-1001-0-262 | 31 | 16 |
| 46-1001-0-263 | 11 | 63 |
| 46-1001-0-264 | 10 | 51 |
| 46-1001-0-264 | 23 | 6 |
| 46-1001-0-264 | 31 | 12 |
| 46-1001-0-265 | 23 | 2 |
| 46-1001-0-265 | 31 | 11 |
| 46-1001-0-266 | 23 | 52 |
| 46-1001-0-266 | 32 | 19 |
| 46-1001-0-267 | 18 | 20 |
| 46-1001-0-267 | 23 | 14 |
| 46-1001-0-268 | 23 | 44 |
| 46-1001-0-269 | 23 | 12 |
| 46-1001-0-270 | 23 | 4 |

| Parts No. | Page No. | Ref. No. |
|---------------|----------|----------|
| 46-1001-4-610 | 17 | 26 |
| 46-1001-4-611 | 17 | 24 |
| 46-1001-4-612 | 24 | 15 |
| 46-1001-4-613 | 18 | 10 |
| 46-1001-4-614 | 17 | 27 |
| 46-1001-4-618 | 24 | 17 |
| 46-1001-4-619 | 17 | 44 |
| 46-1001-4-620 | 17 | 1-1 |
| 46-1001-4-621 | 17 | 1-2 |
| 46-1001-4-622 | 16 | 29 |
| 46-1001-4-623 | 16 | 8 |
| 46-1001-4-624 | 18 | 13 |
| 46-1001-4-625 | 16 | 1 |
| 46-1001-4-626 | 17 | 28-2 |
| 46-1001-4-627 | 17 | 28-1 |
| 46-1001-4-628 | 17 | 38-2 |
| 46-1001-4-629 | 17 | 38-1 |
| 46-1001-4-630 | 33 | 11-1 |
| 46-1001-4-634 | 33 | 10-1 |
| 46-1001-4-635 | 11 | 21 |
| 46-1001-4-636 | 11 | 22 |
| 46-1001-4-638 | 16 | 40-1 |
| 46-1001-4-639 | 16 | 40-2 |
| 46-1001-4-640 | 17 | 42-1 |
| 46-1001-4-641 | 17 | 42-2 |
| 46-1001-4-643 | 17 | 40-2 |
| 46-1001-4-644 | 17 | 40-1 |
| 46-1001-4-645 | 17 | 31-2 |
| 46-1001-4-646 | 17 | 31-1 |
| 46-1001-4-647 | 24 | 13 |
| 46-1001-4-648 | 18 | 21 |
| 46-1001-4-651 | 18 | 22 |
| 46-1001-4-652 | 18 | 25 |
| 46-1001-4-653 | 17 | 7 |
| 46-1001-4-654 | 16 | 37 |
| 46-1001-4-655 | 11 | 3 |
| 46-1001-4-656 | 10 | 42 |
| 46-1001-4-657 | 11 | 38 |
| 46-1001-4-658 | 11 | 20 |
| 46-1001-4-659 | 11 | 36 |
| 46-1001-4-660 | 24 | 29 |
| 46-1001-4-661 | 11 | 14 |
| 46-1001-4-662 | 11 | 19 |
| 46-1001-4-663 | 11 | 30 |
| 46-1001-4-668 | 11 | 50 |
| 46-1001-4-670 | 24 | 24 |
| 46-1001-4-671 | 11 | 15 |
| 46-1001-4-674 | 24 | 18 |
| 46-1001-4-675 | 11 | 12 |
| 46-1001-4-678 | 33 | 5-1 |

| Parts No. | Page No. | Ref. No. |
|---------------|----------|----------|
| 46-1001-4-680 | 11 | 45 |
| 46-1001-4-687 | 11 | 49 |
| 46-1001-4-689 | 34 | 13 |
| 46-1001-4-691 | 14 | 44 |
| 46-1001-4-691 | 15 | 51 |
| 46-1001-4-692 | 14 | 43 |
| 46-1001-4-692 | 15 | 50 |
| 46-1001-4-693 | 15 | 37 |
| 46-1001-4-695 | 14 | 1 |
| 46-1001-4-697 | 15 | 29 |
| 46-1001-4-698 | 15 | 13 |
| 46-1001-4-699 | 14 | 20 |
| 46-1001-4-700 | 14 | 42 |
| 46-1001-4-700 | 15 | 49 |
| 46-1001-4-701 | 14 | 53 |
| 46-1001-4-704 | 14 | 46 |
| 46-1001-4-705 | 15 | 53 |
| 46-1001-4-706 | 15 | 5 |
| 46-1001-4-709 | 14 | 31 |
| 46-1001-4-711 | 14 | 26 |
| 46-1001-4-715 | 10 | 35 |
| 46-1001-4-717 | 11 | 60 |
| 46-1001-4-718 | 11 | 59 |
| 46-1001-4-719 | 10 | 37 |
| 46-1001-4-720 | 11 | 10 |
| 46-1001-4-721 | 10 | 13 |
| 46-1001-4-722 | 19 | 16 |
| 46-1001-4-723 | 19 | 27 |
| 46-1001-4-724 | 25 | 12 |
| 46-1001-4-724 | 29 | 43 |
| 46-1001-4-724 | 30 | 67 |
| 46-1001-4-725 | 19 | 4 |
| 46-1001-4-727 | 10 | 43 |
| 46-1001-4-728 | 10 | 1 |
| 46-1001-4-730 | 10 | 3 |
| 46-1001-4-732 | 10 | 55 |
| 46-1001-4-734 | 25 | 13 |
| 46-1001-4-734 | 29 | 44 |
| 46-1001-4-734 | 30 | 68 |
| 46-1001-4-735 | 25 | 5 |
| 46-1001-4-738 | 20 | 3 |
| 46-1001-4-739 | 19 | 41 |
| 46-1001-4-740 | 10 | 58 |
| 46-1001-4-741 | 23 | 54 |
| 46-1001-4-742 | 23 | 57 |
| 46-1001-4-744 | 23 | 23 |
| 46-1001-4-745 | 23 | 7 |
| 46-1001-4-746 | 22 | 16 |
| 46-1001-4-747 | 20 | 5 |
| 46-1001-4-752 | 19 | 37 |

| Parts No. | Page No. | Ref. No. |
|---------------|----------|----------|
| 46-1001-4-753 | 19 | 40 |
| 46-1001-4-756 | 19 | 33 |
| 46-1001-4-757 | 19 | 31 |
| 46-1001-4-758 | 19 | 10 |
| 46-1001-4-758 | 29 | 13 |
| 46-1001-4-759 | 19 | 32 |
| 46-1001-4-760 | 19 | 34 |
| 46-1001-4-761 | 19 | 35 |
| 46-1001-4-763 | 19 | 3 |
| 46-1001-4-765 | 19 | 36 |
| 46-1001-4-767 | 19 | 1 |
| 46-1001-4-769 | 19 | 14 |
| 46-1001-4-770 | 10 | 40 |
| 46-1001-4-771 | 21 | 12 |
| 46-1001-4-772 | 21 | 6 |
| 46-1001-4-773 | 18 | 15 |
| 46-1001-4-779 | 10 | 20 |
| 46-1001-4-780 | 10 | 21 |
| 46-1001-4-783 | 21 | 10-1 |
| 46-1001-4-784 | 21 | 10-2 |
| 46-1001-4-787 | 21 | 14 |
| 46-1001-4-789 | 21 | 23 |
| 46-1001-4-790 | 21 | 1 |
| 46-1001-4-791 | 21 | 2 |
| 46-1001-4-792 | 24 | 19 |
| 46-1001-4-797 | 22 | 14-1 |
| 46-1001-4-798 | 22 | 14-2 |
| 46-1001-4-799 | 13 | 43 |
| 46-1001-4-800 | 34 | 4 |
| 46-1001-4-801 | 34 | 1-3 |
| 46-1001-4-802 | 34 | 1-7 |
| 46-1001-4-803 | 34 | 3-1 |
| 46-1001-4-804 | 34 | 3-2 |
| 46-1001-4-805 | 34 | 5 |
| 46-1001-4-806 | 34 | 2 |
| 46-1001-4-807 | 34 | 33 |
| 46-1001-4-808 | 25 | 10 |
| 46-1001-4-808 | 32 | 1 |
| 46-1001-4-809 | 29 | 46 |
| 46-1001-4-809 | 30 | 66 |
| 46-1001-4-810 | 15 | 14 |
| 46-1001-4-812 | 10 | 57 |
| 46-1001-4-814 | 10 | 4 |
| 46-1001-4-815 | 14 | 49 |
| 46-1001-4-816 | 14 | 51 |
| 46-1001-4-817 | 14 | 50 |
| 46-1001-4-823 | 11 | 9 |
| 46-1001-4-824 | 10 | 49 |
| 46-1001-4-830 | 13 | 27 |
| 46-1001-4-832 | 13 | 51 |

| Parts No. | Page No. | Ref. No. |
|---------------|----------|----------|
| 46-1001-4-833 | 13 | 55 |
| 46-1001-4-834 | 13 | 53 |
| 46-1001-4-835 | 13 | 59 |
| 46-1001-4-836 | 13 | 54 |
| 46-1001-4-840 | 12 | 8 |
| 46-1001-4-841 | 13 | 73 |
| 46-1001-4-842 | 14 | 52 |
| 46-1001-4-845 | 32 | 12 |
| 46-1001-4-846 | 32 | 13 |
| 46-1001-4-847 | 32 | 25 |
| 46-1001-4-848 | 32 | 22 |
| 46-1001-4-849 | 32 | 23 |
| 46-1001-4-850 | 30 | 58 |
| 46-1001-4-855 | 30 | 45 |
| 46-1001-4-856 | 30 | 6 |
| 46-1001-4-858 | 30 | 2 |
| 46-1001-4-861 | 30 | 47 |
| 46-1001-4-863 | 30 | 13 |
| 46-1001-4-864 | 30 | 24 |
| 46-1001-4-865 | 30 | 16 |
| 46-1001-4-866 | 30 | 15 |
| 46-1001-4-867 | 30 | 12 |
| 46-1001-4-868 | 30 | 29 |
| 46-1001-4-869 | 30 | 17 |
| 46-1001-4-870 | 30 | 22 |
| 46-1001-4-871 | 30 | 44 |
| 46-1001-4-872 | 30 | 57 |
| 46-1001-4-873 | 30 | 60 |
| 46-1001-4-874 | 30 | 10 |
| 46-1001-4-975 | 30 | 63 |
| 46-1001-4-876 | 30 | 27 |
| 46-1001-4-877 | 30 | 39 |
| 46-1001-4-878 | 30 | 61 |
| 46-1001-4-881 | 29 | 25 |
| 46-1001-4-883 | 29 | 24 |
| 46-1001-4-884 | 29 | 12 |
| 46-1001-4-885 | 29 | 4 |
| 46-1001-4-887 | 29 | 2 |
| 46-1001-4-889 | 29 | 6 |
| 46-1001-4-890 | 29 | 37 |
| 46-1001-4-891 | 29 | 33 |
| 46-1001-4-892 | 29 | 42 |
| 46-1001-4-894 | 13 | 41 |
| 46-1001-4-895 | 13 | 52 |
| 46-1001-4-896 | 15 | 1 |
| 46-1001-4-897 | 14 | 39 |
| 46-1001-4-898 | 15 | 46 |
| 46-1001-4-899 | 14 | 30 |
| 46-1001-4-900 | 20 | 9 |
| 46-1001-4-901 | 20 | 8 |

| Parts No. | Page No. | Ref. No. |
|---------------|----------|----------|
| 46-1001-4-902 | 21 | 20 |
| 46-1001-4-903 | 19 | 23 |
| 46-1001-4-909 | 20 | 7 |
| 46-1001-4-910 | 25 | 4-1 |
| 46-1001-4-911 | 20 | 1-1 |
| 46-1001-4-913 | 23 | 18 |
| 46-1001-4-914 | 30 | 64 |
| 46-1001-4-915 | 10 | 39 |
| 46-1001-4-916 | 21 | 13 |
| 46-1001-4-917 | 19 | 26 |
| 46-1001-4-918 | 19 | 8 |
| 46-1001-4-919 | 19 | 15 |
| 46-1001-4-920 | 19 | 21 |
| 46-1001-4-921 | 19 | 17 |
| 46-1001-4-922 | 10 | 44 |
| 46-1001-4-923 | 10 | 46 |
| 46-1001-4-924 | 10 | 47 |
| 46-1001-4-925 | 10 | 48 |
| 46-1001-4-926 | 10 | 45 |
| 46-1001-4-928 | 30 | 4 |
| 46-1001-4-929 | 30 | 5 |
| 46-1001-4-931 | 33 | 3 |
| 46-1001-4-934 | 33 | 2 |
| 46-1001-4-935 | 31 | 3 |
| 46-1001-4-936 | 31 | 6 |
| 46-1001-4-937 | 31 | 8 |
| 46-1001-4-938 | 31 | 4 |
| 46-1001-4-939 | 31 | 1 |
| 46-1001-4-940 | 29 | 1 |
| 46-1001-4-941 | 30 | 1-1 |
| 46-1001-4-942 | 29 | 40 |
| 46-1001-4-944 | 29 | 36 |
| 46-1001-4-946 | 29 | 11 |
| 46-1001-4-948 | 7 | 44 |
| 46-1001-4-950 | 9 | 52 |
| 46-1001-4-951 | 9 | 51 |
| 46-1001-4-957 | 8 | 69 |
| 46-1001-4-958 | 8 | 70 |
| 46-1001-4-963 | 9 | 54 |
| 46-1001-4-964 | 9 | 47 |
| 46-1001-4-965 | 8 | 80 |
| 46-1001-4-966 | 8 | 78 |
| 46-1001-4-967 | 8 | 77 |
| 46-1001-4-968 | 8 | 76 |
| 46-1001-4-969 | 17 | 10-2 |
| 46-1001-4-970 | 17 | 10-1 |
| 46-1001-4-971 | 9 | 5 |
| 46-1001-4-972 | 9 | 69 |
| 46-1001-4-976 | 8 | 10 |
| 46-1001-4-977 | 10 | 62 |

| Parts No. | Page No. | Ref. No. |
|---------------|----------|----------|
| 46-1001-4-979 | 9 | 71 |
| 46-1001-4-979 | 7 | 29 |
| 46-1001-4-980 | 9 | 70 |
| 46-1001-4-981 | 25 | 16-1 |
| 46-1001-4-982 | 25 | 16-2 |
| 46-1001-4-983 | 25 | 16-3 |
| 46-1001-4-984 | 25 | 17-1 |
| 46-1001-4-985 | 25 | 17-2 |
| 46-1001-4-986 | 25 | 17-3 |
| 46-1001-4-987 | 20 | 2-1 |
| 46-1001-4-988 | 20 | 2-2 |
| 46-1001-4-989 | 20 | 2-3 |
| 46-1001-4-990 | 20 | 16-1 |
| 46-1001-4-991 | 20 | 16-2 |
| 46-1001-4-992 | 20 | 16-3 |
| 46-1001-4-993 | 25 | 16-4 |
| 46-1001-4-994 | 25 | 17-4 |
| 46-1001-4-995 | 20 | 2-4 |
| 46-1001-4-996 | 20 | 16-4 |
| 46-1001-4-997 | 33 | 1 |
| 46-1001-4-998 | 32 | 8 |
| 46-1001-4-999 | 22 | 37 |
| 46-1001-5-000 | 1 | 4 |
| 46-1001-5-001 | 1 | 1 |
| 46-1001-5-002 | 1 | 6 |
| 46-1001-5-003 | 1 | 9 |
| 46-1001-5-005 | 1 | 33 |
| 46-1001-5-006 | 1 | 34 |
| 46-1001-5-007 | 1 | 35 |
| 46-1001-5-008 | 1 | 36 |
| 46-1001-5-009 | 1 | 26 |
| 46-1001-5-010 | 1 | 25 |
| 46-1001-5-011 | 1 | 24 |
| 46-1001-5-012 | 1 | 31 |
| 46-1001-5-013 | 1 | 30 |
| 46-1001-5-014 | 1 | 28 |
| 46-1001-5-014 | 7 | 5 |
| 46-1001-5-015 | 1 | 32 |
| 46-1001-5-015 | 7 | 4 |
| 46-1001-5-016 | 1 | 21 |
| 46-1001-5-016 | 7 | 22 |
| 46-1001-5-017 | 1 | 19 |
| 46-1001-5-018 | 1 | 20 |
| 46-1001-5-019 | 1 | 11 |
| 46-1001-5-020 | 1 | 12 |
| 46-1001-5-021 | 1 | 15 |
| 46-1001-5-022 | 1 | 16 |
| 46-1001-5-023 | 1 | 17 |
| 46-1001-5-025 | 2 | 39 |

| Parts No. | Page No. | Ref. No. |
|---------------|----------|----------|
| 46-1001-0-271 | 10 | 71 |
| 46-1001-0-271 | 11 | 68 |
| 46-1001-0-273 | 23 | 48 |
| 46-1001-0-274 | 17 | 13 |
| 46-1001-0-275 | 23 | 28 |
| 46-1001-0-276 | 18 | 30 |
| 46-1001-0-277 | 18 | 33 |
| 46-1001-0-278 | 23 | 3 |
| 46-1001-0-282 | 18 | 35 |
| 46-1001-0-282 | 23 | 33 |
| 46-1001-0-283 | 8 | 22 |
| 46-1001-0-283 | 12 | 37 |
| 46-1001-0-284 | 17 | 16 |
| 46-1001-0-285 | 8 | 37 |
| 46-1001-0-288 | 9 | 1 |
| 46-1001-0-289 | 32 | 21 |
| 46-1001-0-295 | 18 | 29 |
| 46-1001-0-296 | 30 | 30 |
| 46-1001-0-297 | 29 | 18 |
| 46-1001-0-298 | 29 | 29 |
| 46-1001-0-299 | 30 | 54 |
| 46-1001-0-300 | 14 | 34 |
| 46-1001-0-301 | 30 | 34 |
| 46-1001-0-302 | 29 | 20 |
| 46-1001-0-302 | 30 | 56 |
| 46-1001-0-304 | 10 | 61 |
| 46-1001-0-305 | 11 | 61 |
| 46-1001-0-306 | 32 | 15 |
| 46-1001-0-311 | 26 | 20 |
| 46-1001-0-312 | 28 | 10 |
| 46-1001-0-313 | 31 | 2 |
| 46-1001-0-314 | 26 | 19 |
| 46-1001-0-720 | 20 | 11 |
| 46-1001-0-721 | 9 | 14 |
| 46-1001-0-721 | 20 | 12 |
| 46-1001-0-842 | 22 | 23 |
| 46-1001-0-845 | 22 | 22 |
| 46-1001-0-846 | 22 | 24 |
| 46-1001-0-893 | 22 | 25 |
| 46-1001-0-894 | 22 | 26-1 |
| 46-1001-0-895 | 22 | 26-2 |
| 46-1001-0-896 | 22 | 26-3 |
| 46-1001-0-897 | 22 | 26-4 |
| 46-1001-0-898 | 22 | 21 |
| 46-1001-0-899 | 22 | 20 |
| 46-1001-0-900 | 22 | 1-1 |
| 46-1001-0-901 | 9 | 43 |
| 46-1001-0-902 | 10 | 19 |
| 46-1001-0-902 | 14 | 5 |
| 46-1001-0-907 | 9 | 9 |

| Parts No. | Page No. | Ref. No. |
|---------------|----------|----------|
| 46-1001-0-908 | 9 | 12 |
| 46-1001-0-913 | 22 | 26-5 |
| 46-1001-0-914 | 19 | 22 |
| 46-1001-0-914 | 7 | 46 |
| 46-1001-0-915 | 25 | 15-1 |
| 46-1001-0-916 | 20 | 2-1 |
| 46-1001-0-920 | 9 | 44 |
| 46-1001-0-921 | 14 | 33 |
| 46-1001-0-922 | 29 | 21 |
| 46-1001-0-922 | 30 | 33 |
| 46-1001-0-923 | 21 | 21 |
| 46-1001-0-924 | 21 | 16 |
| 46-1001-0-954 | 20 | 10 |
| 46-1001-0-955 | 22 | 4-1 |
| 46-1001-0-956 | 22 | 3 |
| 46-1001-0-957 | 22 | 2-1 |
| 46-1001-0-958 | 10 | 26 |
| 46-1001-0-958 | 22 | 30 |
| 46-1001-0-959 | 10 | 59 |
| 46-1001-0-959 | 22 | 29 |
| 46-1001-0-965 | 22 | 1-2 |
| 46-1001-0-976 | 22 | 4-2 |
| 46-1001-0-977 | 22 | 2-2 |
| 46-1001-0-978 | 22 | 1-3 |
| 46-1001-0-979 | 22 | 26-6 |
| 46-1001-0-987 | 22 | 15-1 |
| 46-1001-0-988 | 22 | 15-2 |
| 46-1001-0-998 | 22 | 31-2 |
| 46-1001-1-095 | 29 | 48-1 |
| 46-1001-1-095 | 30 | 71-1 |
| 46-1001-1-095 | 31 | 17 |
| 46-1001-1-096 | 29 | 48-2 |
| 46-1001-1-096 | 30 | 71-2 |
| 46-1001-1-097 | 29 | 48-3 |
| 46-1001-1-097 | 30 | 71-3 |
| 46-1001-1-098 | 29 | 48-4 |
| 46-1001-1-098 | 30 | 71-4 |
| 46-1001-1-304 | 7 | 35 |
| 46-1001-1-305 | 7 | 36 |
| 46-1001-1-306 | 7 | 37 |
| 46-1001-1-415 | 10 | 28 |
| 46-1001-1-416 | 10 | 28 |
| 46-1001-1-417 | 10 | 28 |
| 46-1001-1-418 | 10 | 28 |
| 46-1001-1-419 | 10 | 28 |
| 46-1001-4-005 | 16 | 33 |
| 46-1001-4-010 | 16 | 44-2 |
| 46-1001-4-011 | 16 | 44-1 |

| Parts No. | Page No. | Ref. No. |
|---------------|----------|----------|
| 46-1001-4-023 | 24 | 16 |
| 46-1001-4-030 | 16 | 32 |
| 46-1001-4-032 | 11 | 24 |
| 46-1001-4-056 | 11 | 29 |
| 46-1001-4-101 | 18 | 1 |
| 46-1001-4-106 | 18 | 8 |
| 46-1001-4-108 | 15 | 35 |
| 46-1001-4-110 | 14 | 18 |
| 46-1001-4-112 | 18 | 7 |
| 46-1001-4-116 | 15 | 32 |
| 46-1001-4-117 | 15 | 30 |
| 46-1001-4-119 | 15 | 33 |
| 46-1001-4-120 | 15 | 26 |
| 46-1001-4-129 | 14 | 23 |
| 46-1001-4-129 | 15 | 8 |
| 46-1001-4-136 | 14 | 36 |
| 46-1001-4-136 | 15 | 43 |
| 46-1001-4-136 | 26 | 11-1 |
| 46-1001-4-136 | 34 | 12-1 |
| 46-1001-4-143 | 14 | 13 |
| 46-1001-4-144 | 14 | 48 |
| 46-1001-4-144 | 15 | 55 |
| 46-1001-4-186 | 8 | 56 |
| 46-1001-4-215 | 8 | 55 |
| 46-1001-4-222 | 8 | 59 |
| 46-1001-4-223 | 8 | 63 |
| 46-1001-4-224 | 9 | 40 |
| 46-1001-4-225 | 9 | 41 |
| 46-1001-4-244 | 12 | 19 |
| 46-1001-4-244 | 34 | 11-1 |
| 46-1001-4-250 | 25 | 4-2 |
| 46-1001-4-251 | 25 | 4-3 |
| 46-1001-4-252 | 25 | 15-2 |
| 46-1001-4-253 | 25 | 15-3 |
| 46-1001-4-254 | 20 | 1-2 |
| 46-1001-4-255 | 20 | 1-3 |
| 46-1001-4-256 | 20 | 2-2 |
| 46-1001-4-257 | 20 | 2-3 |
| 46-1001-4-260 | 24 | 11 |
| 46-1001-4-267 | 12 | 25 |
| 46-1001-4-268 | 25 | 4-4 |
| 46-1001-4-269 | 25 | 15-4 |
| 46-1001-4-270 | 20 | 1-4 |
| 46-1001-4-271 | 20 | 2-4 |
| 46-1001-4-280 | 20 | 14 |
| 46-1001-4-281 | 20 | 14 |
| 46-1001-4-282 | 20 | 14 |
| 46-1001-4-284 | 20 | 14 |
| 46-1001-4-285 | 20 | 14 |
| 46-1001-4-286 | 20 | 14 |

| Parts No. | Page No. | Ref. No. |
|---------------|----------|----------|
| 46-1001-4-300 | 11 | 55 |
| 46-1001-4-301 | 11 | 57 |
| 46-1001-4-302 | 11 | 48 |
| 46-1001-4-335 | 20 | 14 |
| 46-1001-4-336 | 20 | 14 |
| 46-1001-4-337 | 20 | 14 |
| 46-1001-4-339 | 20 | 14 |
| 46-1001-4-340 | 20 | 14 |
| 46-1001-4-342 | 20 | 14 |
| 46-1001-4-343 | 20 | 14 |
| 46-1001-4-345 | 20 | 14 |
| 46-1001-4-346 | 20 | 14 |
| 46-1001-4-347 | 20 | 14 |
| 46-1001-4-348 | 20 | 14 |
| 46-1001-4-349 | 20 | 14 |
| 46-1001-4-350 | 20 | 14 |
| 46-1001-4-351 | 20 | 14 |
| 46-1001-4-356 | 30 | 42 |
| 46-1001-4-400 | 18 | 17 |
| 46-1001-4-401 | 29 | 15 |
| 46-1001-4-401 | 30 | 50 |
| 46-1001-4-402 | 15 | 18 |
| 46-1001-4-408 | 9 | 58 |
| 46-1001-4-409 | 9 | 23 |
| 46-1001-4-411 | 9 | 64 |
| 46-1001-4-413 | 9 | 45 |
| 46-1001-4-418 | 22 | 8 |
| 46-1001-4-421 | 22 | 12 |
| 46-1001-4-423 | 9 | 66 |
| 46-1001-4-424 | 9 | 63 |
| 46-1001-4-425 | 9 | 61 |
| 46-1001-4-426 | 12 | 22 |
| 46-1001-4-427 | 26 | 2-2 |
| 46-1001-4-428 | 9 | 21 |
| 46-1001-4-430 | 24 | 10 |
| 46-1001-4-432 | 9 | 49 |
| 46-1001-4-433 | 9 | 59 |
| 46-1001-4-434 | 26 | 1-2 |
| 46-1001-4-436 | 13 | 46 |
| 46-1001-4-438 | 13 | 45 |
| 46-1001-4-442 | 13 | 72 |
| 46-1001-4-445 | 13 | 33 |
| 46-1001-4-447 | 13 | 12 |
| 46-1001-4-448 | 13 | 9 |
| 46-1001-4-449 | 13 | 11 |
| 46-1001-4-454 | 13 | 16 |
| 46-1001-4-455 | 13 | 76 |
| 46-1001-4-456 | 13 | 20 |
| 46-1001-4-457 | 13 | 21 |
| 46-1001-4-458 | 13 | 1 |

| Parts No. | Page No. | Ref. No. |
|---------------|----------|----------|
| 46-1001-4-459 | 13 | 48 |
| 46-1001-4-460 | 13 | 8 |
| 46-1001-4-462 | 13 | 18 |
| 46-1001-4-463 | 13 | 22 |
| 46-1001-4-464 | 13 | 24 |
| 46-1001-4-465 | 13 | 35 |
| 46-1001-4-466 | 13 | 28 |
| 46-1001-4-467 | 13 | 30 |
| 46-1001-4-468 | 13 | 26 |
| 46-1001-4-469 | 13 | 4 |
| 46-1001-4-471 | 13 | 37 |
| 46-1001-4-472 | 13 | 31 |
| 46-1001-4-473 | 13 | 39 |
| 46-1001-4-474 | 13 | 32 |
| 46-1001-4-478 | 13 | 47 |
| 46-1001-4-478 | 34 | 10 |
| 46-1001-4-479 | 13 | 63 |
| 46-1001-4-480 | 13 | 42 |
| 46-1001-4-481 | 12 | 4 |
| 46-1001-4-482 | 12 | 9 |
| 46-1001-4-483 | 12 | 12 |
| 46-1001-4-483 | 26 | 5-1 |
| 46-1001-4-484 | 26 | 5-2 |
| 46-1001-4-489 | 26 | 2-3 |
| 46-1001-4-501 | 12 | 30 |
| 46-1001-4-502 | 12 | 38 |
| 46-1001-4-503 | 12 | 35 |
| 46-1001-4-503 | 26 | 6-1 |
| 46-1001-4-504 | 26 | 6-2 |
| 46-1001-4-505 | 12 | 27 |
| 46-1001-4-505 | 26 | 3-1 |
| 46-1001-4-506 | 12 | 28 |
| 46-1001-4-506 | 26 | 4-1 |
| 46-1001-4-507 | 26 | 3-2 |
| 46-1001-4-508 | 26 | 4-2 |
| 46-1001-4-509 | 12 | 32 |
| 46-1001-4-510 | 12 | 41 |
| 46-1001-4-512 | 11 | 1 |
| 46-1001-4-515 | 10 | 5 |
| 46-1001-4-519 | 8 | 53 |
| 46-1001-4-520 | 8 | 52 |
| 46-1001-4-521 | 8 | 85 |
| 46-1001-4-522 | 26 | 8-2 |
| 46-1001-4-523 | 8 | 31 |
| 46-1001-4-524 | 8 | 43 |
| 46-1001-4-525 | 8 | 26 |
| 46-1001-4-526 | 8 | 51 |
| 46-1001-4-527 | 8 | 50 |
| 46-1001-4-528 | 9 | 34 |
| 46-1001-4-529 | 9 | 25 |

| Parts No. | Page No. | Ref. No. |
|---------------|----------|----------|
| 46-1001-4-530 | 9 | 29 |
| 46-1001-4-531 | 9 | 31 |
| 46-1001-4-532 | 9 | 33 |
| 46-1001-4-533 | 8 | 38 |
| 46-1001-4-534 | 8 | 8 |
| 46-1001-4-535 | 8 | 71 |
| 46-1001-4-536 | 8 | 49 |
| 46-1001-4-537 | 8 | 84 |
| 46-1001-4-538 | 26 | 7-2 |
| 46-1001-4-539 | 8 | 14 |
| 46-1001-4-546 | 8 | 1 |
| 46-1001-4-564 | 32 | 9 |
| 46-1001-4-566 | 8 | 23 |
| 46-1001-4-571 | 8 | 44 |
| 46-1001-4-572 | 8 | 45 |
| 46-1001-4-573 | 12 | 18 |
| 46-1001-4-574 | 12 | 15 |
| 46-1001-4-575 | 12 | 13 |
| 46-1001-4-576 | 12 | 14 |
| 46-1001-4-577 | 12 | 17 |
| 46-1001-4-578 | 12 | 11 |
| 46-1001-4-579 | 12 | 46 |
| 46-1001-4-583 | 10 | 2 |
| 46-1001-4-584 | 10 | 27 |
| 46-1001-4-587 | 17 | 17 |
| 46-1001-4-588 | 33 | 9 |
| 46-1001-4-589 | 17 | 39 |
| 46-1001-4-589 | 34 | 9 |
| 46-1001-4-590 | 17 | 30 |
| 46-1001-4-590 | 34 | 8 |
| 46-1001-4-591 | 16 | 35 |
| 46-1001-4-591 | 27 | 15 |
| 46-1001-4-592 | 16 | 38 |
| 46-1001-4-593 | 17 | 37 |
| 46-1001-4-594 | 17 | 37 |
| 46-1001-4-595 | 26 | 9 |
| 46-1001-4-596 | 26 | 9 |
| 46-1001-4-597 | 16 | 50 |
| 46-1001-4-598 | 16 | 21 |
| 46-1001-4-599 | 16 | 26 |
| 46-1001-4-600 | 18 | 14 |
| 46-1001-4-601 | 24 | 12 |
| 46-1001-4-603 | 16 | 43-2 |
| 46-1001-4-604 | 16 | 43-1 |
| 46-1001-4-605 | 16 | 53 |
| 46-1001-4-606 | 16 | 16 |
| 46-1001-4-607 | 17 | 3 |
| 46-1001-4-608 | 17 | 20 |
| 46-1001-4-609 | 17 | 18 |

| Parts No. | Page No. | Ref. No. |
|---------------|----------|----------|
| 46-1001-5-026 | 2 | 40 |
| 46-1001-5-027 | 2 | 12 |
| 46-1001-5-028 | 2 | 11 |
| 46-1001-5-029 | 2 | 14 |
| 46-1001-5-030 | 2 | 15 |
| 46-1001-5-031 | 2 | 8 |
| 46-1001-5-032 | 2 | 27 |
| 46-1001-5-033 | 2 | 4 |
| 46-1001-5-034 | 2 | 7 |
| 46-1001-5-035 | 2 | 2 |
| 46-1001-5-036 | 2 | 1 |
| 46-1001-5-037 | 2 | 24 |
| 46-1001-5-038 | 2 | 23 |
| 46-1001-5-039 | 2 | 19 |
| 46-1001-5-040 | 2 | 26 |
| 46-1001-5-041 | 2 | 18 |
| 46-1001-5-042 | 2 | 16 |
| 46-1001-5-043 | 5 | 24 |
| 46-1001-5-044 | 2 | 33 |
| 46-1001-5-045 | 2 | 34 |
| 46-1001-5-046 | 2 | 36 |
| 46-1001-5-047 | 2 | 37 |
| 46-1001-5-048 | 2 | 29 |
| 46-1001-5-049 | 2 | 31 |
| 46-1001-5-050 | 2 | 28 |
| 46-1001-5-051 | 2 | 38 |
| 46-1001-5-052 | 5 | 23 |
| 46-1001-5-053 | 5 | 26 |
| 46-1001-5-054 | 3 | 1 |
| 46-1001-5-056 | 3 | 3 |
| 46-1001-5-057 | 3 | 4 |
| 46-1001-5-058 | 3 | 5 |
| 46-1001-5-059 | 4 | 1 |
| 46-1001-5-060 | 4 | 2 |
| 46-1001-5-061 | 4 | 3 |
| 46-1001-5-062 | 4 | 5 |
| 46-1001-5-063 | 4 | 7 |
| 46-1001-5-064 | 4 | 11 |
| 46-1001-5-065 | 4 | 8 |
| 46-1001-5-066 | 4 | 10 |
| 46-1001-5-067 | 4 | 14 |
| 46-1001-5-068 | 3 | 12 |
| 46-1001-5-069 | 3 | 11 |
| 46-1001-5-070 | 3 | 15 |
| 46-1001-5-071 | 3 | 16 |
| 46-1001-5-072 | 3 | 19 |
| 46-1001-5-073 | 3 | 20 |
| 46-1001-5-073 | 5 | 17 |
| 46-1001-5-074 | 3 | 22 |
| 46-1001-5-075 | 3 | 24 |

| Parts No. | Page No. | Ref. No. |
|---------------|----------|----------|
| 46-1001-5-076 | 3 | 25 |
| 46-1001-5-078 | 3 | 30 |
| 46-1001-5-079 | 3 | 29 |
| 46-1001-5-081 | 3 | 26 |
| 46-1001-5-081 | 34 | 25 |
| 46-1001-5-082 | 3 | 34 |
| 46-1001-5-083 | 5 | 36 |
| 46-1001-5-084 | 3 | 7 |
| 46-1001-5-085 | 5 | 58 |
| 46-1001-5-086 | 3 | 33 |
| 46-1001-5-087 | 3 | 35 |
| 46-1001-5-088 | 3 | 9 |
| 46-1001-5-089 | 5 | 41 |
| 46-1001-5-090 | 5 | 45 |
| 46-1001-5-091 | 5 | 15 |
| 46-1001-5-091 | 5 | 44 |
| 46-1001-5-092 | 5 | 43 |
| 46-1001-5-093 | 5 | 11 |
| 46-1001-5-094 | 5 | 7 |
| 46-1001-5-095 | 5 | 12 |
| 46-1001-5-096 | 5 | 1 |
| 46-1001-5-097 | 5 | 2 |
| 46-1001-5-098 | 5 | 30 |
| 46-1001-5-099 | 5 | 49 |
| 46-1001-5-100 | 5 | 51 |
| 46-1001-5-101 | 5 | 5 |
| 46-1001-5-102 | 5 | 55 |
| 46-1001-5-103 | 5 | 57 |
| 46-1001-5-104 | 5 | 29 |
| 46-1001-5-105 | 5 | 62 |
| 46-1001-5-106 | 5 | 60 |
| 46-1001-5-107 | 5 | 59 |
| 46-1001-5-108 | 5 | 13 |
| 46-1001-5-109 | 2 | 30 |
| 46-1001-5-110 | 1 | 23 |
| 46-1001-5-111 | 1 | 18 |
| 46-1001-5-112 | 3 | 27 |
| 46-1001-5-113 | 7 | 34 |
| 46-1001-5-151 | 34 | 26 |
| 46-1001-5-152 | 34 | 28 |
| 46-1001-5-153 | 34 | 29 |
| 46-1001-5-154 | 34 | 16 |
| 46-1001-5-156 | 6 | 34 |
| 46-1001-5-157 | 6 | 17 |
| 46-1001-5-158 | 6 | 18 |
| 46-1001-5-159 | 6 | 24 |
| 46-1001-5-160 | 6 | 29 |
| 46-1001-5-161 | 6 | 28 |
| 46-1001-5-162 | 6 | 27 |
| 46-1001-5-163 | 6 | 30 |

| Parts No. | Page No. | Ref. No. |
|---------------|----------|----------|
| 46-1001-5-164 | 6 | 21 |
| 46-1001-5-164 | 6 | 35 |
| 46-1001-5-166 | 6 | 14 |
| 46-1001-5-167 | 6 | 13 |
| 46-1001-5-168 | 6 | 5 |
| 46-1001-5-169 | 6 | 3 |
| 46-1001-5-170 | 6 | 2 |
| 46-1001-5-171 | 6 | 4 |
| 46-1001-5-172 | 6 | 10 |
| 46-1001-5-173 | 6 | 6 |
| 46-1001-5-174 | 6 | 1 |
| 46-1001-5-175 | 6 | 38 |
| 46-1001-5-176 | 34 | 17 |
| 46-1001-5-177 | 34 | 7 |
| 46-1001-5-179 | 34 | 31 |
| 46-1001-5-180 | 34 | 30 |
| 46-1001-5-181 | 6 | 36 |
| 46-1001-5-182 | 6 | 37 |
| 46-1001-5-183 | 2 | 42 |
| 46-1001-5-184 | 2 | 43 |
| 46-1001-5-185 | 13 | 2 |
| 46-1001-5-200 | 26 | 8-3 |
| 46-1001-5-201 | 26 | 6-3 |
| 46-1001-5-202 | 26 | 7-3 |
| 46-1001-5-203 | 26 | 1-3 |
| 46-1001-5-213 | 26 | 9 |
| 46-1001-5-214 | 26 | 9 |
| 46-1001-5-216 | 14 | 38 |
| 46-1001-5-216 | 15 | 45 |
| 46-1001-5-217 | 26 | 10-2 |
| 46-1001-5-218 | 26 | 10-3 |
| 46-1001-5-219 | 26 | 9 |
| 46-1001-5-220 | 10 | 60 |
| 46-1001-5-221 | 10 | 65 |
| 46-1001-5-222 | 11 | 25 |
| 46-1001-5-223 | 11 | 28 |
| 46-1001-5-224 | 32 | 3 |
| 46-1001-5-226 | 32 | 4 |
| 46-1001-5-228 | 10 | 38 |
| 46-1001-5-230 | 33 | 13 |
| 46-1001-5-231 | 17 | 12 |
| 46-1001-5-232 | 15 | 27 |
| 46-1001-5-233 | 15 | 25 |
| 46-1001-5-235 | 29 | 45 |
| 46-1001-5-235 | 30 | 69 |
| 46-1001-5-236 | 28 | 1 |
| 46-1001-5-237 | 28 | 4 |
| 46-1001-5-238 | 28 | 5 |
| 46-1001-5-239 | 29 | 10 |
| 46-1001-5-240 | 28 | 7 |

| Parts No. | Page No. | Ref. No. |
|---------------|----------|----------|
| 46-1001-5-241 | 27 | 20 |
| 46-1001-5-242 | 28 | 6 |
| 46-1001-5-243 | 28 | 8 |
| 46-1001-5-244 | 27 | 15 |
| 46-1001-5-245 | 28 | 2 |
| 46-1001-5-247 | 27 | 19-1 |
| 46-1001-5-248 | 27 | 19-2 |
| 46-1001-5-250 | 28 | 3 |
| 46-1001-5-251 | 26 | 1-4 |
| 46-1001-5-252 | 26 | 1-5 |
| 46-1001-5-253 | 26 | 1-6 |
| 46-1001-5-254 | 26 | 2-4 |
| 46-1001-5-255 | 26 | 2-5 |
| 46-1001-5-256 | 26 | 2-6 |
| 46-1001-5-257 | 28 | 9 |
| 46-1001-5-258 | 26 | 14 |
| 46-1001-5-259 | 26 | 15 |
| 46-1001-5-260 | 26 | 15 |
| 46-1001-5-261 | 26 | 15 |
| 46-1001-5-262 | 26 | 15 |
| 46-1001-5-263 | 26 | 15 |
| 46-1001-5-264 | 26 | 15 |
| 46-1001-5-265 | 26 | 15 |
| 46-1001-5-266 | 26 | 15 |
| 46-1001-5-267 | 26 | 15 |
| 46-1001-5-268 | 26 | 15 |
| 46-1001-5-269 | 26 | 15 |
| 46-1001-5-270 | 26 | 15 |
| 46-1001-5-271 | 26 | 15 |
| 46-1001-5-272 | 26 | 15 |
| 46-1001-5-273 | 26 | 15 |
| 46-1001-5-274 | 26 | 15 |
| 46-1001-5-275 | 26 | 15 |
| 46-1001-5-276 | 26 | 15 |
| 46-1001-5-277 | 26 | 15 |
| 46-1001-5-278 | 26 | 15 |
| 46-1001-5-279 | 26 | 15 |
| 46-1001-5-280 | 26 | 15 |
| 46-1001-5-281 | 26 | 15 |
| 46-1001-5-282 | 26 | 15 |
| 46-1001-5-283 | 26 | 9 |
| 46-1001-5-284 | 26 | 9 |
| 46-1001-5-285 | 26 | 9 |
| 46-1001-5-286 | 26 | 9 |
| 46-1001-5-287 | 26 | 9 |
| 46-1001-5-288 | 26 | 9 |
| 46-1001-5-289 | 26 | 11-2 |
| 46-1001-5-289 | 34 | 12-2 |
| 46-1001-5-290 | 27 | 12 |

| Parts No. | Page No. | Ref. No. |
|---------------|----------|----------|
| 46-1001-5-291 | 27 | 13 |
| 46-1001-5-292 | 27 | 14 |
| 46-1001-5-292 | 34 | 11-2 |
| 46-1001-5-293 | 26 | 7-4 |
| 46-1001-5-294 | 26 | 7-5 |
| 46-1001-5-295 | 26 | 7-6 |
| 46-1001-5-296 | 26 | 8-4 |
| 46-1001-5-297 | 26 | 8-5 |
| 46-1001-5-298 | 26 | 8-6 |
| 46-1001-5-299 | 26 | 6-4 |
| 46-1001-5-300 | 26 | 6-5 |
| 46-1001-5-301 | 26 | 6-6 |
| 46-1001-5-302 | 26 | 5-2 |
| 46-1001-5-303 | 27 | 16-2 |
| 46-1001-5-304 | 27 | 16-1 |
| 46-1001-5-308 | 27 | 1-1 |
| 46-1001-5-309 | 27 | 1-2 |
| 46-1001-5-310 | 27 | 1-3 |
| 46-1001-5-311 | 27 | 2-1 |
| 46-1001-5-312 | 27 | 2-2 |
| 46-1001-5-313 | 27 | 2-3 |
| 46-1001-5-317 | 33 | 10-2 |
| 46-1001-5-318 | 33 | 10-3 |
| 46-1001-5-319 | 33 | 10-4 |
| 46-1001-5-323 | 33 | 11-2 |
| 46-1001-5-324 | 33 | 11-3 |
| 46-1001-5-325 | 33 | 11-4 |
| 46-1001-5-327 | 33 | 5-2 |
| 46-1001-5-328 | 27 | 9 |
| 46-1001-5-329 | 27 | 7 |
| 46-1001-5-330 | 27 | 3 |
| 46-1001-5-331 | 27 | 11 |
| 46-1001-5-332 | 26 | 13 |
| 46-1001-5-333 | 26 | 13 |
| 46-1001-5-334 | 26 | 13 |
| 46-1001-5-335 | 26 | 13 |
| 46-1001-5-336 | 26 | 13 |
| 46-1001-5-337 | 26 | 13 |
| 46-1001-5-338 | 26 | 13 |
| 46-1001-5-339 | 26 | 13 |
| 46-1001-5-340 | 26 | 13 |
| 46-1001-5-341 | 26 | 13 |
| 46-1001-5-342 | 26 | 13 |
| 46-1001-5-343 | 26 | 13 |
| 46-1001-5-344 | 26 | 13 |
| 46-1001-5-345 | 26 | 13 |
| 46-1001-5-346 | 26 | 13 |
| 46-1001-5-347 | 26 | 13 |
| 46-1001-5-348 | 26 | 13 |
| 46-1001-5-349 | 26 | 13 |

| Parts No. | Page No. | Ref. No. |
|---------------|----------|----------|
| 46-1001-5-350 | 26 | 13 |
| 46-1001-5-351 | 26 | 13 |
| 46-1001-5-352 | 26 | 13 |
| 46-1001-5-353 | 26 | 13 |
| 46-1001-5-354 | 26 | 13 |
| 46-1001-5-355 | 26 | 13 |
| 46-1001-5-356 | 26 | 10-4 |
| 46-1001-5-357 | 26 | 10-5 |
| 46-1001-5-358 | 26 | 10-6 |
| 46-1001-5-360 | 8 | 65 |
| 46-1001-5-361 | 26 | 14 |
| 46-1001-5-362 | 26 | 14 |
| 46-1001-5-363 | 8 | 66 |
| 46-1001-5-364 | 8 | 66 |
| 46-1001-5-365 | 26 | 15 |
| 46-1001-5-366 | 26 | 15 |
| 46-1001-5-367 | 26 | 15 |
| 46-1001-5-368 | 26 | 15 |
| 46-1001-5-369 | 26 | 15 |
| 46-1001-5-370 | 8 | 66 |
| 46-1001-5-371 | 8 | 66 |
| 46-1001-5-372 | 26 | 15 |
| 46-1001-5-373 | 26 | 15 |
| 46-1001-5-374 | 26 | 15 |
| 46-1001-5-375 | 26 | 15 |
| 46-1001-5-376 | 26 | 15 |
| 46-1001-5-377 | 8 | 66 |
| 46-1001-5-378 | 8 | 66 |
| 46-1001-5-379 | 26 | 15 |
| 46-1001-5-380 | 26 | 15 |
| 46-1001-5-381 | 26 | 15 |
| 46-1001-5-382 | 26 | 15 |
| 46-1001-5-383 | 26 | 15 |
| 46-1001-5-384 | 8 | 64 |
| 46-1001-5-385 | 8 | 64 |
| 46-1001-5-386 | 8 | 64 |
| 46-1001-5-387 | 8 | 64 |
| 46-1001-5-388 | 8 | 64 |
| 46-1001-5-389 | 8 | 64 |
| 46-1001-5-390 | 26 | 13 |
| 46-1001-5-391 | 26 | 13 |
| 46-1001-5-392 | 26 | 13 |
| 46-1001-5-393 | 26 | 13 |
| 46-1001-5-394 | 26 | 13 |
| 46-1001-5-395 | 26 | 13 |
| 46-1001-5-396 | 26 | 13 |
| 46-1001-5-397 | 26 | 13 |
| 46-1001-5-398 | 26 | 13 |
| 46-1001-5-399 | 26 | 13 |
| 46-1001-5-400 | 26 | 13 |

| Parts No. | Page No. | Ref. No. |
|---------------|----------|----------|
| 46-1001-5-026 | 2 | 40 |
| 46-1001-5-027 | 2 | 12 |
| 46-1001-5-028 | 2 | 11 |
| 46-1001-5-029 | 2 | 14 |
| 46-1001-5-030 | 2 | 15 |
| 46-1001-5-031 | 2 | 8 |
| 46-1001-5-032 | 2 | 27 |
| 46-1001-5-033 | 2 | 4 |
| 46-1001-5-034 | 2 | 7 |
| 46-1001-5-035 | 2 | 2 |
| 46-1001-5-036 | 2 | 1 |
| 46-1001-5-037 | 2 | 24 |
| 46-1001-5-038 | 2 | 23 |
| 46-1001-5-039 | 2 | 19 |
| 46-1001-5-040 | 2 | 26 |
| 46-1001-5-041 | 2 | 18 |
| 46-1001-5-042 | 2 | 16 |
| 46-1001-5-043 | 5 | 24 |
| 46-1001-5-044 | 2 | 33 |
| 46-1001-5-045 | 2 | 34 |
| 46-1001-5-046 | 2 | 36 |
| 46-1001-5-047 | 2 | 37 |
| 46-1001-5-048 | 2 | 29 |
| 46-1001-5-049 | 2 | 31 |
| 46-1001-5-050 | 2 | 28 |
| 46-1001-5-051 | 2 | 38 |
| 46-1001-5-052 | 5 | 23 |
| 46-1001-5-053 | 5 | 26 |
| 46-1001-5-054 | 3 | 1 |
| 46-1001-5-056 | 3 | 3 |
| 46-1001-5-057 | 3 | 4 |
| 46-1001-5-058 | 3 | 5 |
| 46-1001-5-059 | 4 | 1 |
| 46-1001-5-060 | 4 | 2 |
| 46-1001-5-061 | 4 | 3 |
| 46-1001-5-062 | 4 | 5 |
| 46-1001-5-063 | 4 | 7 |
| 46-1001-5-064 | 4 | 11 |
| 46-1001-5-065 | 4 | 8 |
| 46-1001-5-066 | 4 | 10 |
| 46-1001-5-067 | 4 | 14 |
| 46-1001-5-068 | 3 | 12 |
| 46-1001-5-069 | 3 | 11 |
| 46-1001-5-070 | 3 | 15 |
| 46-1001-5-071 | 3 | 16 |
| 46-1001-5-072 | 3 | 19 |
| 46-1001-5-073 | 3 | 20 |
| 46-1001-5-073 | 5 | 17 |
| 46-1001-5-074 | 3 | 22 |
| 46-1001-5-075 | 3 | 24 |

| Parts No. | Page No. | Ref. No. |
|---------------|----------|----------|
| 46-1001-5-076 | 3 | 25 |
| 46-1001-5-078 | 3 | 30 |
| 46-1001-5-079 | 3 | 29 |
| 46-1001-5-081 | 3 | 26 |
| 46-1001-5-081 | 34 | 25 |
| 46-1001-5-082 | 3 | 34 |
| 46-1001-5-083 | 5 | 36 |
| 46-1001-5-084 | 3 | 7 |
| 46-1001-5-085 | 5 | 58 |
| 46-1001-5-086 | 3 | 33 |
| 46-1001-5-087 | 3 | 35 |
| 46-1001-5-088 | 3 | 9 |
| 46-1001-5-089 | 5 | 41 |
| 46-1001-5-090 | 5 | 45 |
| 46-1001-5-091 | 5 | 15 |
| 46-1001-5-091 | 5 | 44 |
| 46-1001-5-092 | 5 | 43 |
| 46-1001-5-093 | 5 | 11 |
| 46-1001-5-094 | 5 | 7 |
| 46-1001-5-095 | 5 | 12 |
| 46-1001-5-096 | 5 | 1 |
| 46-1001-5-097 | 5 | 2 |
| 46-1001-5-098 | 5 | 30 |
| 46-1001-5-099 | 5 | 49 |
| 46-1001-5-100 | 5 | 51 |
| 46-1001-5-101 | 5 | 5 |
| 46-1001-5-102 | 5 | 55 |
| 46-1001-5-103 | 5 | 57 |
| 46-1001-5-104 | 5 | 29 |
| 46-1001-5-105 | 5 | 62 |
| 46-1001-5-106 | 5 | 60 |
| 46-1001-5-107 | 5 | 59 |
| 46-1001-5-108 | 5 | 13 |
| 46-1001-5-109 | 2 | 30 |
| 46-1001-5-110 | 1 | 23 |
| 46-1001-5-111 | 1 | 18 |
| 46-1001-5-112 | 3 | 27 |
| 46-1001-5-113 | 7 | 34 |
| 46-1001-5-151 | 34 | 26 |
| 46-1001-5-152 | 34 | 28 |
| 46-1001-5-153 | 34 | 29 |
| 46-1001-5-154 | 34 | 16 |
| 46-1001-5-156 | 6 | 34 |
| 46-1001-5-157 | 6 | 17 |
| 46-1001-5-158 | 6 | 18 |
| 46-1001-5-159 | 6 | 24 |
| 46-1001-5-160 | 6 | 29 |
| 46-1001-5-161 | 6 | 28 |
| 46-1001-5-162 | 6 | 27 |
| 46-1001-5-163 | 6 | 30 |

| Parts No. | Page No. | Ref. No. |
|---------------|----------|----------|
| 46-1001-5-164 | 6 | 21 |
| 46-1001-5-164 | 6 | 35 |
| 46-1001-5-166 | 6 | 14 |
| 46-1001-5-167 | 6 | 13 |
| 46-1001-5-168 | 6 | 5 |
| 46-1001-5-169 | 6 | 3 |
| 46-1001-5-170 | 6 | 2 |
| 46-1001-5-171 | 6 | 4 |
| 46-1001-5-172 | 6 | 10 |
| 46-1001-5-173 | 6 | 6 |
| 46-1001-5-174 | 6 | 1 |
| 46-1001-5-175 | 6 | 38 |
| 46-1001-5-176 | 34 | 17 |
| 46-1001-5-177 | 34 | 7 |
| 46-1001-5-179 | 34 | 31 |
| 46-1001-5-180 | 34 | 30 |
| 46-1001-5-181 | 6 | 36 |
| 46-1001-5-182 | 6 | 37 |
| 46-1001-5-183 | 2 | 42 |
| 46-1001-5-184 | 2 | 43 |
| 46-1001-5-185 | 13 | 2 |
| 46-1001-5-200 | 26 | 8-3 |
| 46-1001-5-201 | 26 | 6-3 |
| 46-1001-5-202 | 26 | 7-3 |
| 46-1001-5-203 | 26 | 1-3 |
| 46-1001-5-213 | 26 | 9 |
| 46-1001-5-214 | 26 | 9 |
| 46-1001-5-216 | 14 | 38 |
| 46-1001-5-216 | 15 | 45 |
| 46-1001-5-217 | 26 | 10-2 |
| 46-1001-5-218 | 26 | 10-3 |
| 46-1001-5-219 | 26 | 9 |
| 46-1001-5-220 | 10 | 60 |
| 46-1001-5-221 | 10 | 65 |
| 46-1001-5-222 | 11 | 25 |
| 46-1001-5-223 | 11 | 28 |
| 46-1001-5-224 | 32 | 3 |
| 46-1001-5-226 | 32 | 4 |
| 46-1001-5-228 | 10 | 38 |
| 46-1001-5-230 | 33 | 13 |
| 46-1001-5-231 | 17 | 12 |
| 46-1001-5-232 | 15 | 27 |
| 46-1001-5-233 | 15 | 25 |
| 46-1001-5-235 | 29 | 45 |
| 46-1001-5-235 | 30 | 69 |
| 46-1001-5-236 | 28 | 1 |
| 46-1001-5-237 | 28 | 4 |
| 46-1001-5-238 | 28 | 5 |
| 46-1001-5-239 | 29 | 10 |
| 46-1001-5-240 | 28 | 7 |

