

PITNEY BOWES

SE-1200-PS PACKAGING FEEDER

PS SERIES: SINGLE SHOT

Parts Manual



DIRECT MAIL SOLUTIONS

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VERSION HISTORY

The table below summarizes the history of this document as it is published onto the company website(s). It identifies the version, date of issue and revisions and changes.

| VERSION | DATE | CHANGES |
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| 1200-PS_PARTS_REV0 | 1-21-09 | ORIGINAL RELEASE |
| SE1200PSpartsNTreva | 2-12-09 | Renamed |
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REVISION CONVENTIONS-DOCUMENT

VERSION: name of document with revision_level of entire document- level designates minor changes that do not require revision change

DATE: date of issue for copying and publication of document.

CHANGES: details of document revision_level.

SE-1200 PS FEEDER

PACKAGING

PS SERIES: SINGLE SHOT

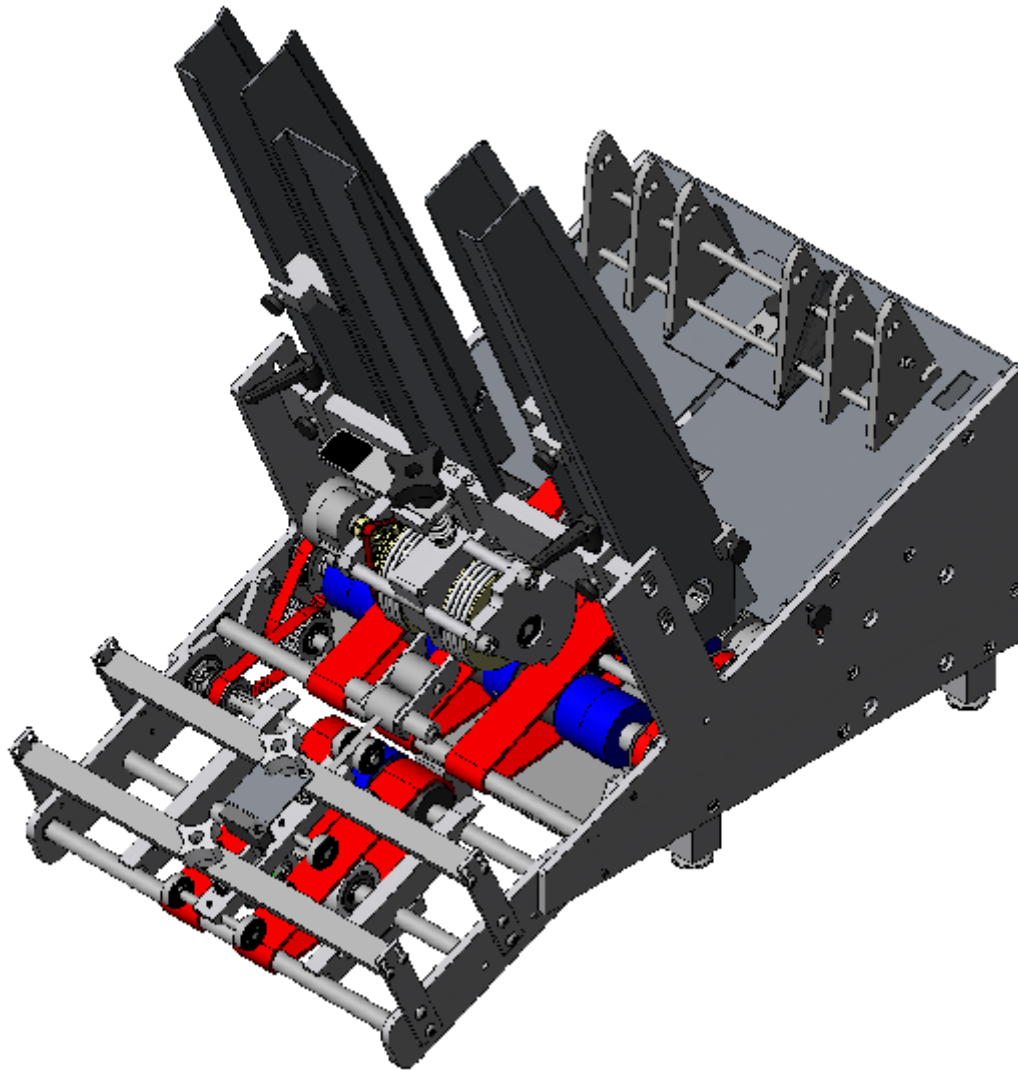


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**1200 PACKAGING FEEDER ASSEMBLY (Fig. 1)
(10022-044r0)**

| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|-------------|------|---|
| 1 | SEE FIG. 2 | 1 | ASSY, 110V SEPARATOR W/CROSSBAR (10020-462) |
| 2 | SEE FIG. 3 | 1 | ASSEMBLY, MAIN SHAFT (10020-042) |
| 3 | SEE FIG. 4 | 1 | ASSEMBLY, NIP ROLLER SHAFT (10020-027) |
| 4 | SEE FIG. 5 | 1 | ASSEMBLY, CLUTCH SHAFT (10020-050) |
| 5 | SEE FIG. 6 | 1 | ASSEMBLY, ELEVATOR SHAFT (10020-055) |
| 6 | SEE FIG. 7 | 1 | ASSEMBLY, SUPPORT IDLER SHAFT (10020-032) |
| 7 | SEE FIG. 8 | 1 | ASSEMBLY, FRONT SHAFT (10020-017) |
| 8 | SEE FIG. 9 | 1 | ASSEMBLY, CHASSIS (10020-067) |
| 9 | SEE FIG. 10 | 1 | ASSEMBLY, MOTOR (10020-060) |
| 10 | SEE FIG. 11 | 1 | ASSEMBLY, PAPER GUIDES (10020-010) |
| 11 | SEE FIG. 12 | 1 | ASSEMBLY, PAPER SLIDE (10020-058) |
| 12 | SEE FIG. 13 | 1 | ASSEMBLY, TRAILING ARM (10020-072) |
| 13 | SEE FIG. 14 | 1 | ASSEMBLY, INTERMEDIATE PULLEY (10020-094) |
| 14 | SEE FIG. 15 | 1 | ASSEMBLY, ACCELERATOR (10020-079) |
| 15 | 99000-004 | 3 | BELT, RED GUM |
| 16 | 99000-005 | 2 | BELT, ELEVATOR (RED) |
| 17 | 99000-001 | 1 | BELT, TIMNG, 90XL037 |
| 18 | 99000-003 | 1 | BELT, TIMNG, 120XL037 |
| 19 | 99000-041 | 1 | BELT, TIMNG, 100XL037 |
| 20 | 99000-040 | 1 | BELT, TIMNG, 80XL037 |

See next page for details

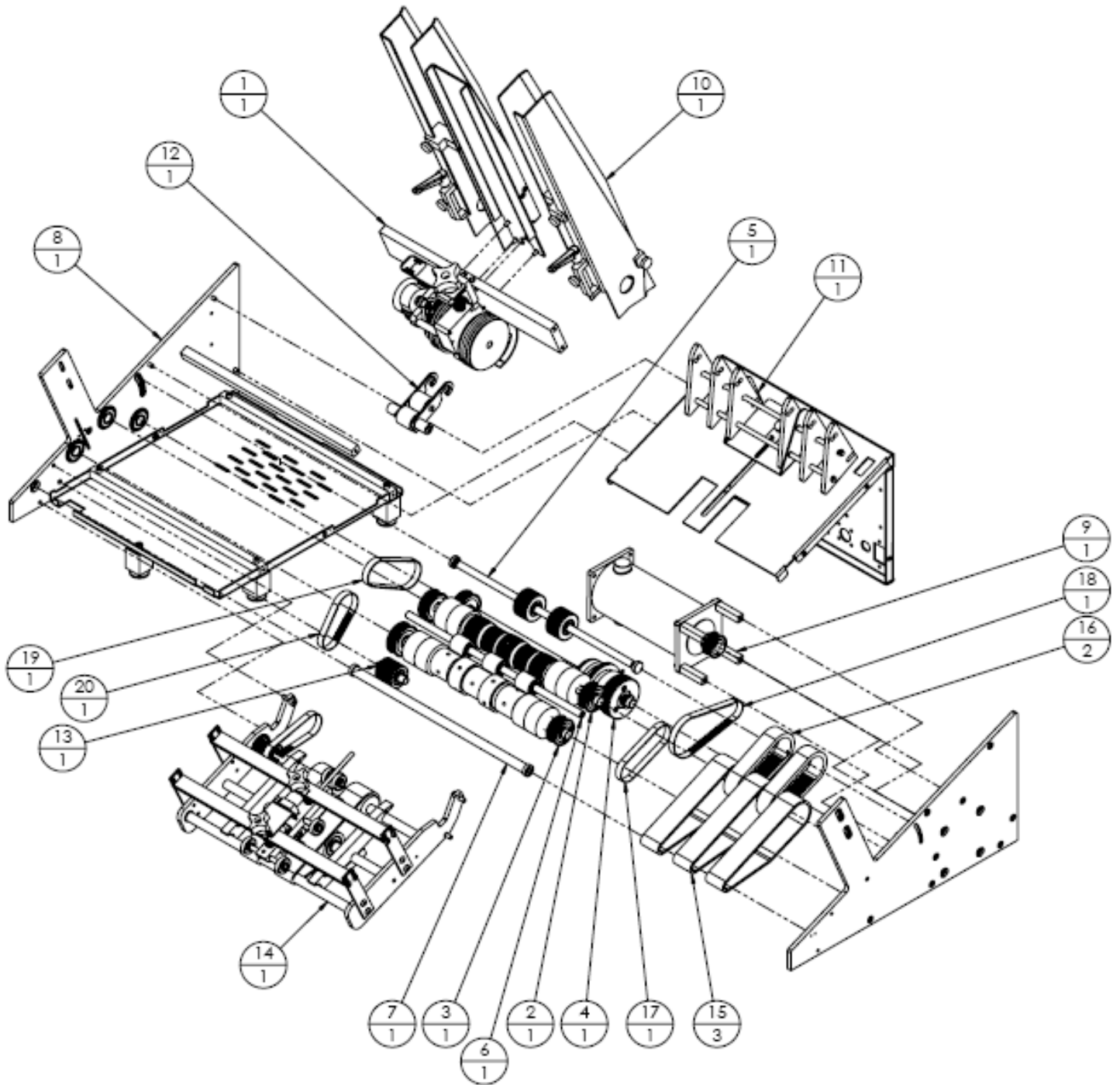
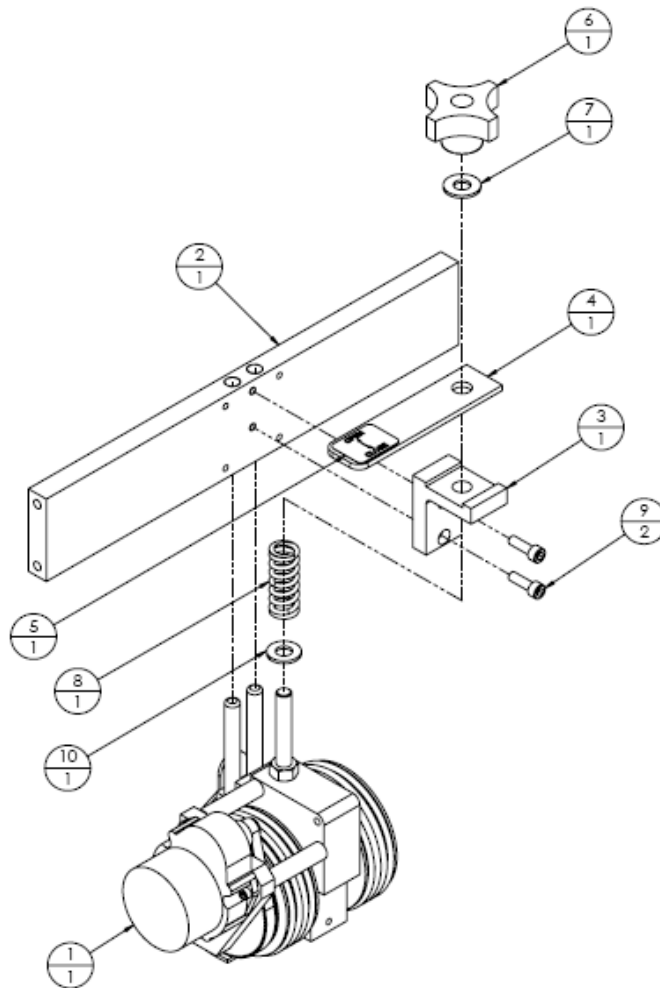


FIG 1 r0

**1200 PACKAGING FEEDER ASSEMBLY (Fig. 2)
110V SEPARATOR W/CROSS BAR (10020-462r0)**

| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|-------------|------|--|
| 1 | SEE FIG. 2A | REF | ASSEMBLY, SEPARATOR, 110V, CCW (10020-004) |
| 2 | 10003-003 | 1 | CROSS BAR |
| 3 | 10007-010 | 1 | BLOCK, SEPARATOR ADJUSTING |
| 4 | 10008-024 | 1 | BAR, SEPARATOR RELEASE |
| 5 | 18017-008 | 1 | LABEL, FEEDER SEPARATOR ADJUSTING |
| 6 | 99004-001 | 1 | KNOB, FEMALE 5/16-24 |
| 7 | 99003-015 | 1 | WASHER, NYLON, 5/16 X 1/16 THK |
| 8 | 99005-045 | 1 | SPRING, COMPRESSION |
| 9 | - | 2 | SCREW, SKT HD, #10-24 X 5/8 |
| 10 | - | 1 | FLAT WASHER, 5/16 |

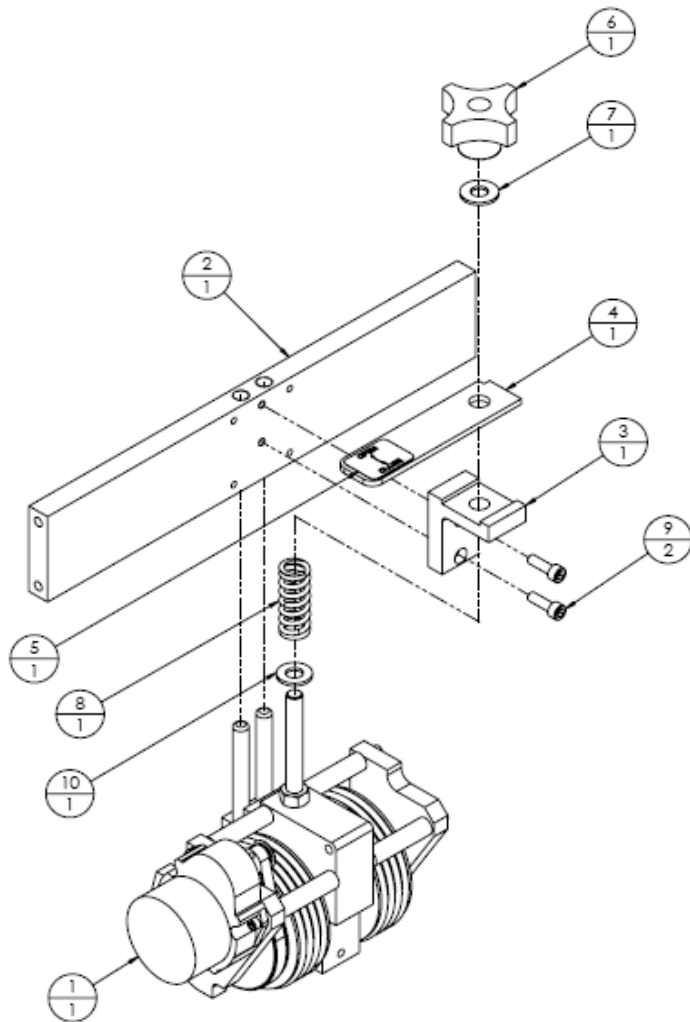
NOTE: SEE FIG 2rA FOR SHROUDLESS VERSION



**1200 PACKAGING FEEDER ASSEMBLY (Fig. 2rA)
110V SEPARATOR W/CROSS BAR (10020-462rA)**

| ITEM | PART NO. | QTY. | DESCRIPTION |
|----------------|---------------|------|---|
| ^a 1 | SEE FIG. 2ArA | REF | ASSY, SEPARATOR, SHROUDLESS 110V, CCW (10020-511) |
| 2 | 10003-003 | 1 | CROSS BAR |
| 3 | 10007-010 | 1 | BLOCK, SEPARATOR ADJUSTING |
| 4 | 10008-024 | 1 | BAR, SEPARATOR RELEASE |
| 5 | 18017-008 | 1 | LABEL, FEEDER SEPARATOR ADJUSTING |
| 6 | 99004-001 | 1 | KNOB, FEMALE 5/16-24 |
| 7 | 99003-015 | 1 | WASHER, NYLON, 5/16 X 1/16 THK |
| 8 | 99005-045 | 1 | SPRING, COMPRESSION |
| 9 | - | 2 | SCREW, SKT HD, #10-24 X 5/8 |
| 10 | - | 1 | FLAT WASHER, 5/16 |

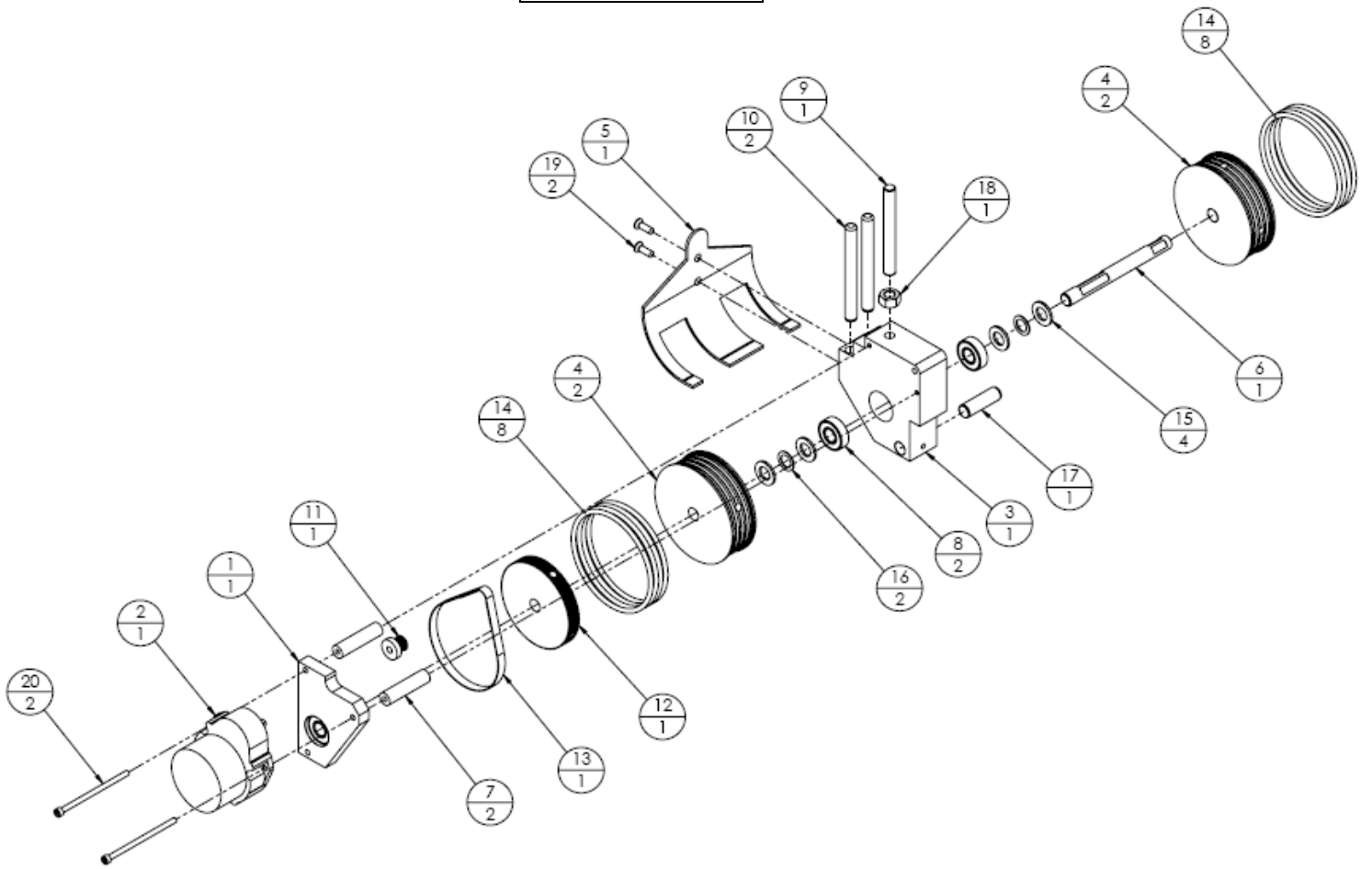
REV A: Item 1 was 10020-004; changed to 10020-511 (5/8/08)



PITNEY BOWES**ASSEMBLY, SEPARATOR, 110V, CCW (10020-004r0) (Fig. 2A)**

| ITEM | PART NO. | QTY. | DESCRIPTION |
|----------|------------------|----------|--|
| 1 | 10020-313 | 1 | ASSY, MOTOR PLATE MTG, RH |
| | 10011-001 | 1 EA | PLATE, MOTOR MOUNT |
| | 99003-001 | 1 EA | BEARING, 3/8 X 7/8, SHIELDED |
| 2 | 10018-035 | 1 | ASSY, MOTOR SEPARATOR, 110V, CCW, 60 HZ |
| | 99001-001 | 1 EA | MOTOR, SEPARATOR, 110 VAC, 1/3 RPM |
| | 98020-065 | 1 EA | CAPACITOR, 0.25 μ f |
| | 98016-023 | 1 EA | CONNECTOR, 2-POSITION MALE |
| 3 | 10007-001 | 1 | BLOCK, SEPARATOR 3" ROLLER |
| 4 | 10006-001 | 2 | WHEEL, SEPARATOR 3" DIA. |
| 5 | 10005-003 | 1 | SHROUD, SEPARATOR |
| 6 | 10004-001 | 1 | SHAFT, SEPARATOR |
| 7 | 10012-002 | 2 | STANDOFF, SEPARATOR MOTOR |
| 8 | 99003-001 | 2 | BEARING, 3/8 X 7/8, SHIELDED |
| 9 | 10004-028 | 1 | STUD, SEPARATOR ADJUSTING |
| 10 | 99006-002 | 2 | PIN, DOWEL, 5/16 X 3 |
| 11 | 99002-002 | 1 | PULLEY, TIMING, 16MXL025, 3/16B |
| 12 | 99002-001 | 1 | PULLEY, TIMING, 100MXL025, 3/8B |
| 13 | 99000-006 | 1 | BELT, TIMING, 115MXL025 |
| 14 | 10014-002 | 8 | O-RING, SEPARATOR 3" |
| 15 | 99003-017 | 4 | WASHER, NYLON 3/8 X 1/16 THK |
| 16 | 99003-016 | 3 | WASHER, NYLON 3/8 X 1/32 THK |
| 17 | 99006-001 | 1 | PIN, DOWEL, 3/8 X 1-1/4 |
| 18 | - | 1 | NUT, HEX, 5/16-24 |
| 19 | - | 2 | SCREW, FLAT HD, #8-32 X 1/2 |
| 20 | - | 2 | SCREW, SKT HD, #6-32 X 2-1/2 |

FIG 2A r0



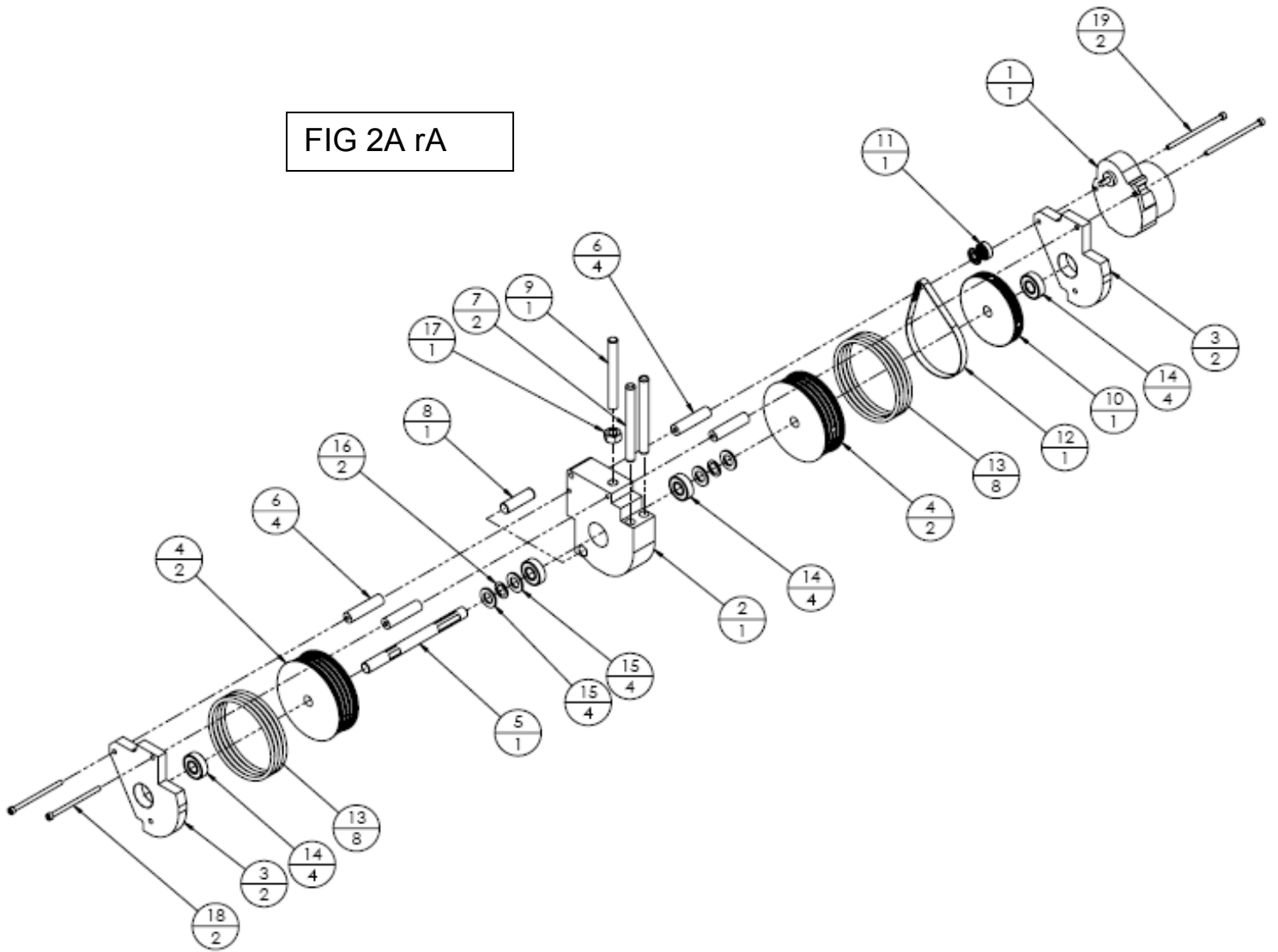
FEEDER WITH SHROUDED SEPARATOR

**ASSY, SEPARATOR, SHROUDLESS, 110V, CCW (10020-511r0)
(Fig. 2ArA)**

| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|-----------|------|---|
| 1 | 10018-035 | 1 | ASSY, MOTOR SEPARATOR, 110V, CCW, 60 HZ |
| | 99001-001 | 1 EA | MOTOR, SEPARATOR, 110 VAC, 1/3 RPM |
| | 98020-065 | 1 EA | CAPACITOR, 0.25 μ f |
| | 98016-023 | 1 EA | CONNECTOR, 2-POSITION MALE |
| 2 | 10007-142 | 1 | BLOCK, SEPARATOR (SHROUDLESS) |
| 3 | 10011-083 | 2 | PLATE, SEPARATOR MOTOR MTG (SHROUDLESS) |
| 4 | 10006-001 | 2 | WHEEL, SEPARATOR 3" DIA. |
| 5 | 10004-264 | 1 | SHAFT, SEPARATOR (SHROUDLESS) |
| 6 | 10012-002 | 4 | STANDOFF, SEPARATOR MOTOR |
| 7 | 99006-002 | 2 | PIN, DOWEL, 5/16 X 3 |
| 8 | 99006-001 | 1 | PIN, DOWEL, 3/8 X 1-1/4 |
| 9 | 10004-028 | 1 | STUD, SEPARATOR ADJUSTING |
| 10 | 99002-001 | 1 | PULLEY, TIMING, 100MXL025, 3/8B |
| 11 | 99002-002 | 1 | PULLEY, TIMING, 16MXL025, 3/16B |
| 12 | 99000-006 | 1 | BELT, TIMING, 115MXL025 |
| 13 | 10014-002 | 8 | O-RING, SEPARATOR 3" |
| 14 | 99003-001 | 4 | BEARING, 3/8 X 7/8, SHIELDED |
| 15 | 99003-017 | 4 | WASHER, NYLON 3/8 X 1/16 THK |
| 16 | 99003-016 | 2 | WASHER, NYLON 3/8 X 1/32 THK |
| 17 | - | 1 | NUT, HEX, 5/16-24 |
| 18 | - | 2 | SCREW, SKT HD, #6-32 X 2-1/4 |
| 19 | - | 2 | SCREW, SKT HD, #6-32 X 2-1/2 |

REV A: FIG 2A was changed to 10020-511 (5/8/08)

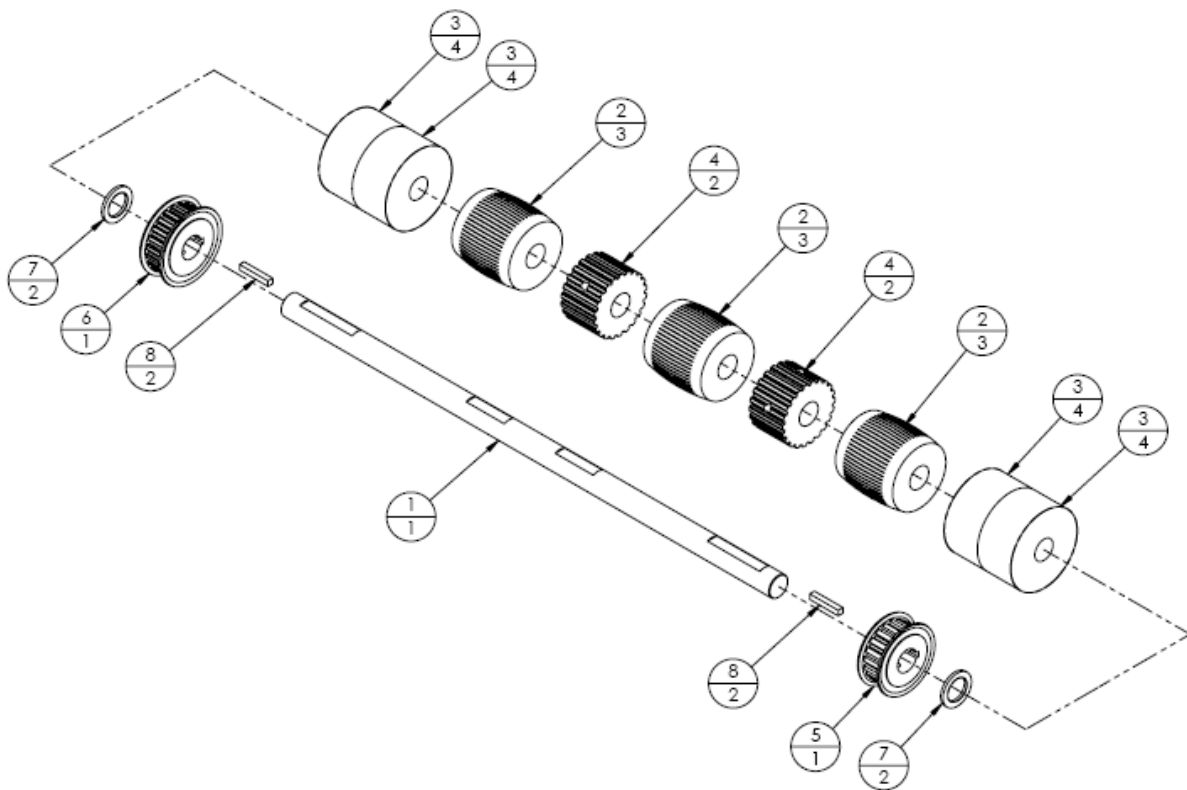
FIG 2A rA



FEEDER WITH SHROUDLESS SEPARATOR

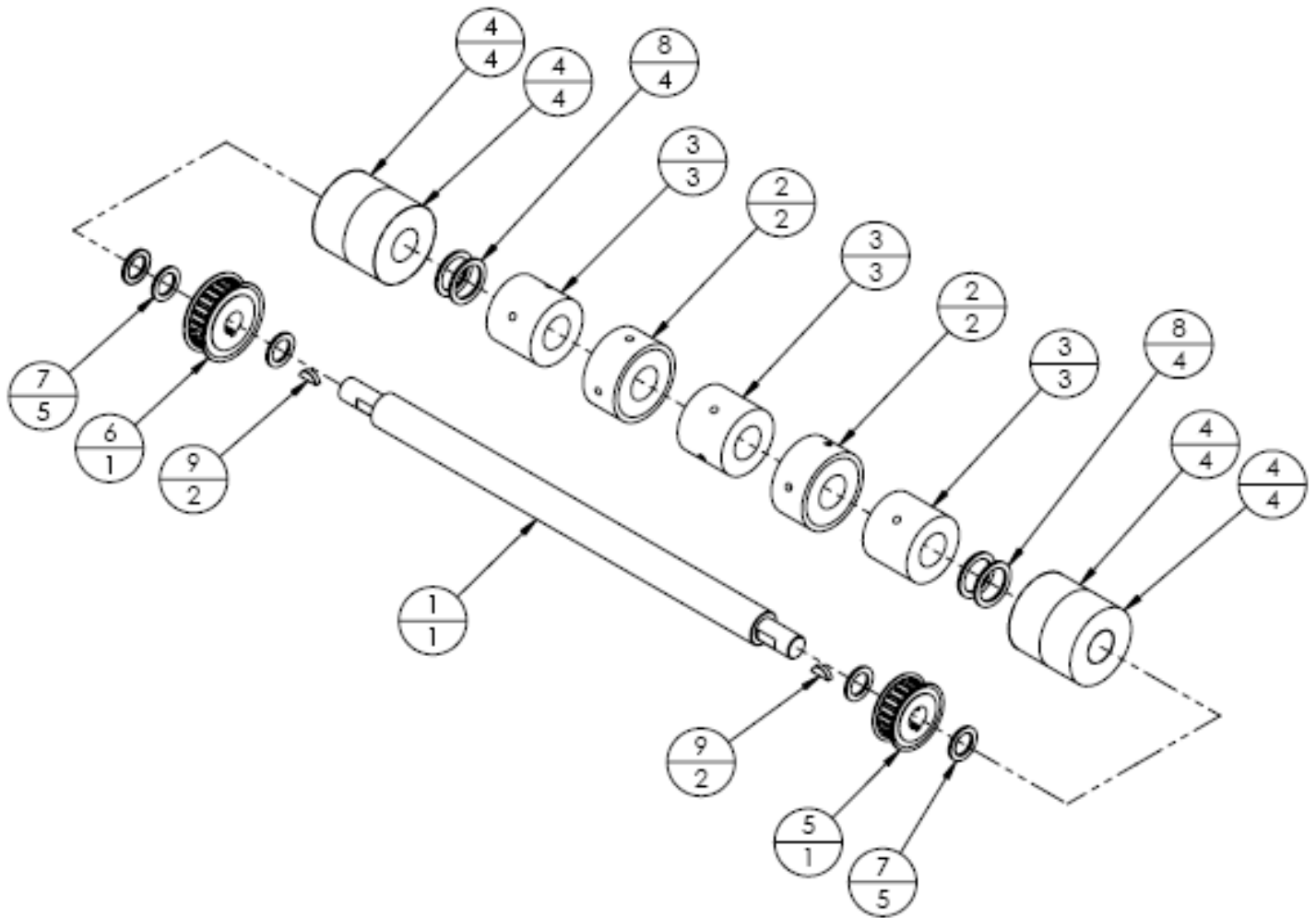
ASSEMBLY, MAIN SHAFT (10020-042r0) (Fig. 3)

| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|-----------|------|--|
| 1 | 10004-021 | 1 | SHAFT, DRIVE (ELEVATOR BELT) |
| 2 | 10006-018 | 3 | PULLEY, CROWNED |
| 3 | 10006-007 | 4 | ROLLER, FEEDER, 1/2 B |
| 4 | 10006-021 | 2 | PULLEY, ELEVATOR DRIVE |
| 5 | 99002-054 | 1 | PULLEY, 20XL037, 1/2B |
| 6 | 99002-074 | 1 | PULLEY, TIMING, 22XL037, 1/2B W/KEYWAY |
| 7 | 99003-018 | 2 | WASHER, NYLON, 1/2 X 1/16 |
| 8 | 99034-003 | 2 | KEY, SQUARE, 1/8 X 3/4 |



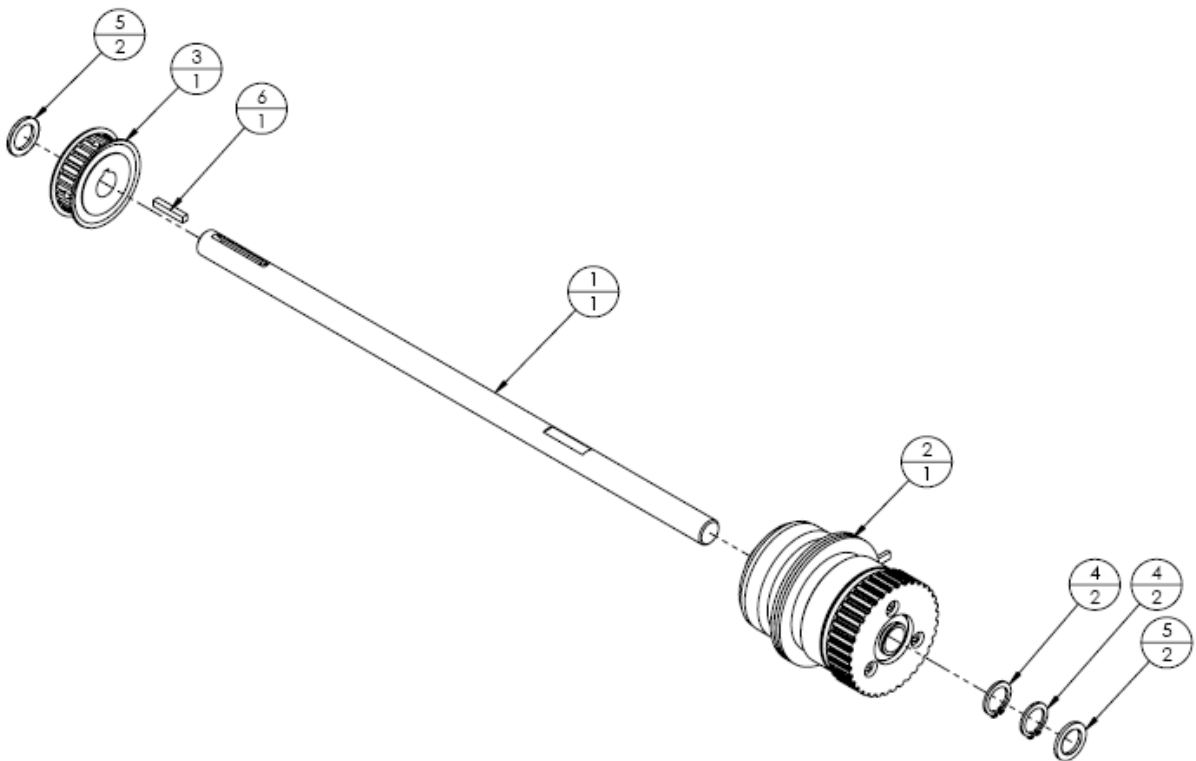
ASSEMBLY, NIP ROLLER SHAFT (10020-027r0) (Fig. 4)

| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|-----------|------|-------------------------------|
| 1 | 10004-119 | 1 | SHAFT, NIP ROLLER-3/4 |
| 2 | 10006-070 | 2 | ROLLER, NIP, 3/4 B |
| 3 | 10006-071 | 3 | PULLEY, MATE, 3/4 B |
| 4 | 10006-069 | 4 | ROLLER, FEEDER, 3/4 B |
| 5 | 99002-054 | 1 | PULLEY, 20XL037, 1/2B |
| 6 | 99002-031 | 1 | PULLEY, 24XL037, 1/2B, NO HUB |
| 7 | 99003-018 | 5 | WASHER, NYLON, 1/2 X 1/16 |
| 8 | 99003-082 | 4 | WASHER, NYLON, 3/4 X 1/16 |
| 9 | 99034-004 | 2 | KEY, WOODRUFF, 1/8 X 1/2 |



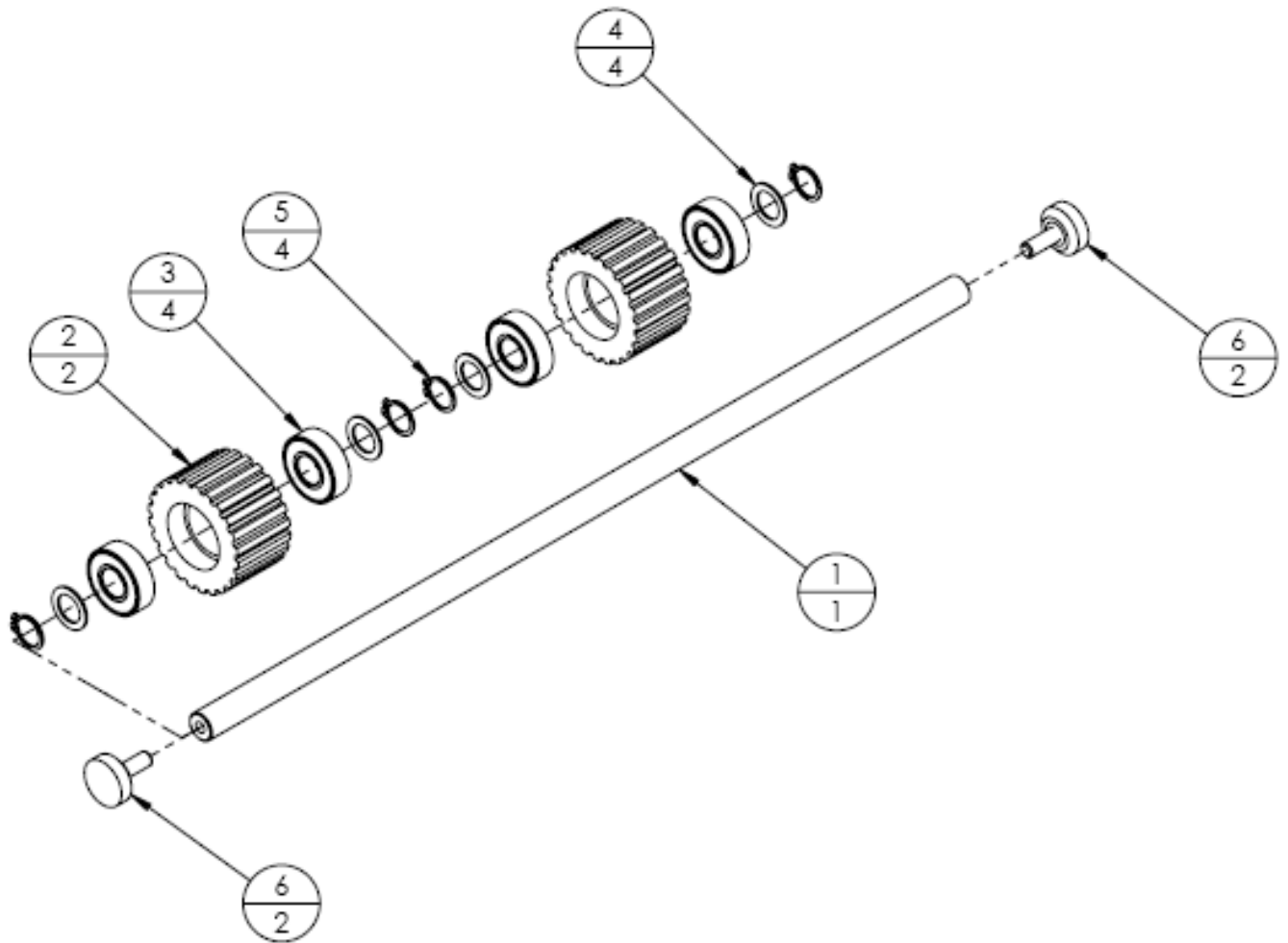
ASSEMBLY, CLUTCH SHAFT (10020-050r0) (Fig. 5)

| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|-----------|------|-------------------------------|
| 1 | 10004-158 | 1 | SHAFT, CLUTCH |
| 2 | 99008-010 | 1 | CLUTCH, BRAKE, 24V (LENZA) |
| 3 | 99002-031 | 1 | PULLEY, TIMING, 24XL037, 1/2B |
| 4 | 99022-004 | 2 | SNAP RING, 1/2 |
| 5 | 99003-018 | 2 | WASHER, NYLON, 1/2 X 1/16 |
| 6 | 99034-003 | 1 | KEY, SQUARE, 1/8 X 3/4 |



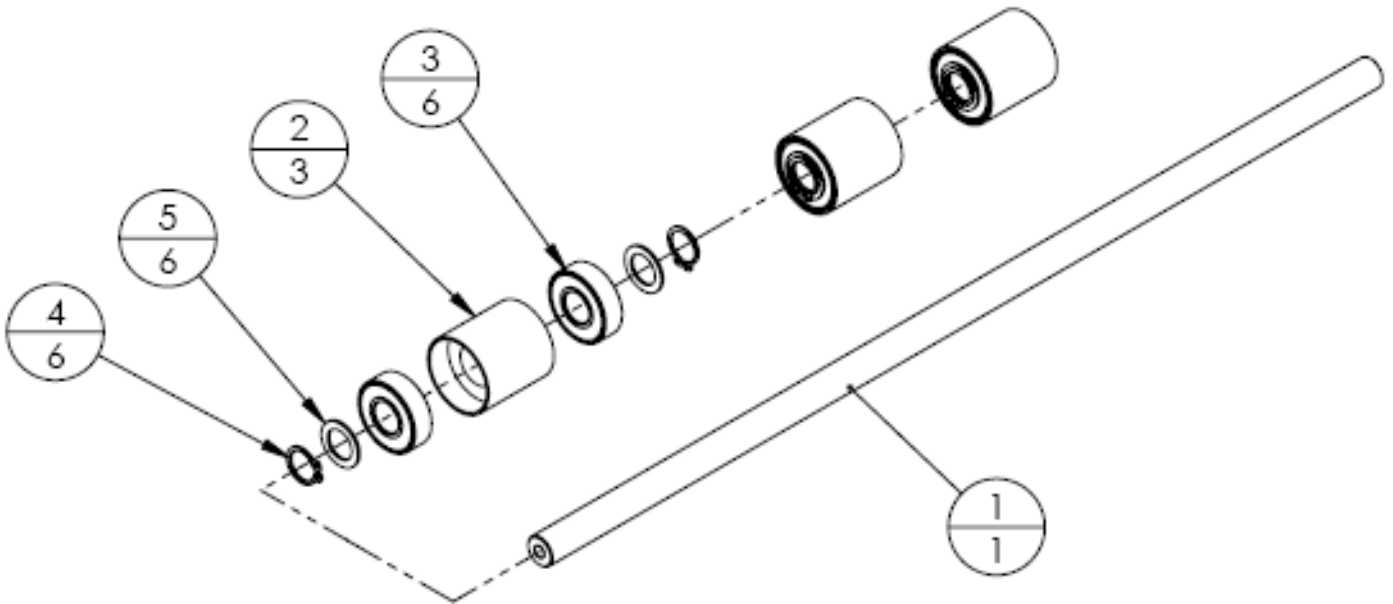
ASSEMBLY, ELEVATOR SHAFT (10020-055r0) (Fig. 6)

| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|-----------|------|----------------------------|
| 1 | 10004-023 | 1 | SHAFT, SUPPORT IDLER |
| 2 | 10006-022 | 2 | PULLEY, ELEVATOR IDLER |
| 3 | 99003-001 | 4 | BEARING, SEALED, 3/8 X 7/8 |
| 4 | 99003-016 | 4 | WASHER, NYLON, 3/8 X 1/32 |
| 5 | 99022-003 | 4 | SNAP RING, 3/8 |
| 6 | 10020-317 | 2 | ASSY, KNOB, #10-24 X 1/2 |



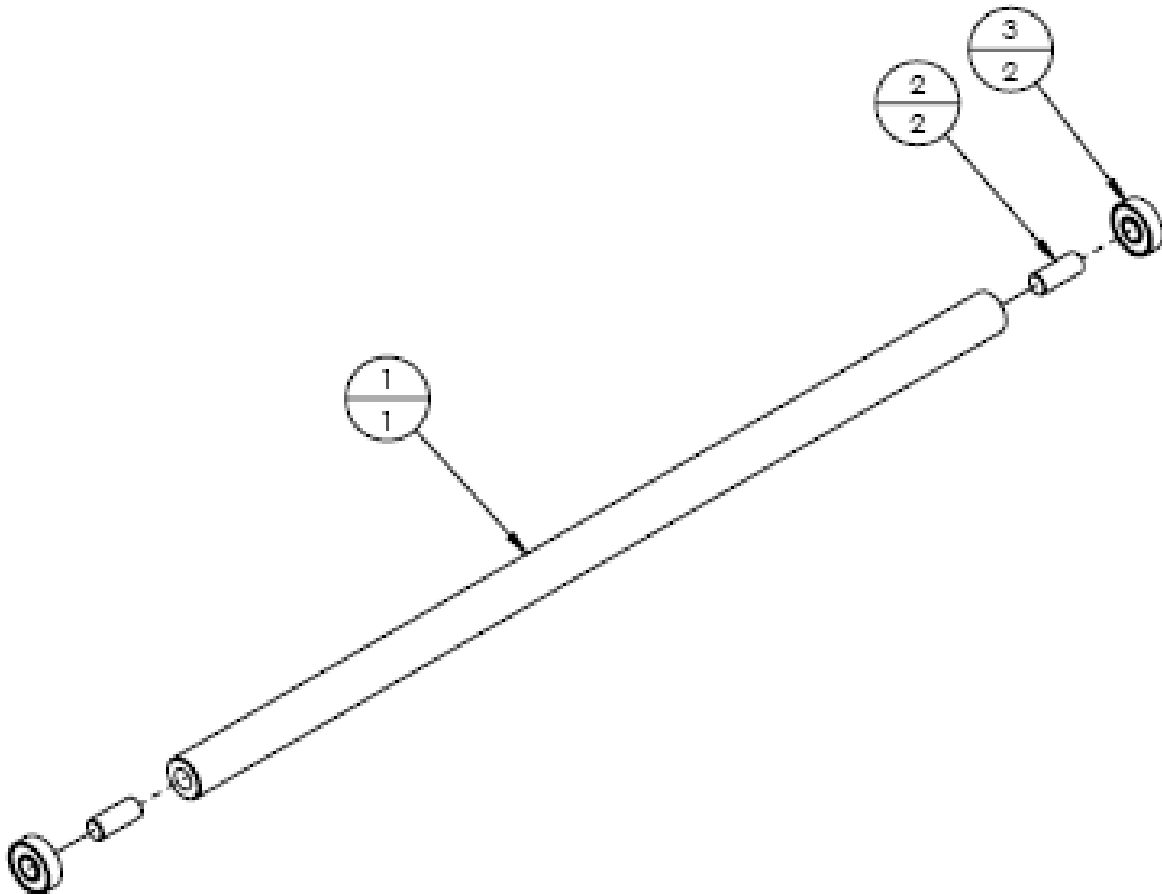
ASSEMBLY, SUPPORT IDLER SHAFT (10020-032r0) (Fig. 7)

| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|-----------|------|----------------------------|
| 1 | 10004-023 | 1 | SHAFT, SUPPORT IDLER |
| 2 | 10006-012 | 3 | ROLLER, IDLER |
| 3 | 99003-001 | 6 | BEARING, SEALED, 3/8 X 7/8 |
| 4 | 99022-003 | 6 | SNAP RING, 3/8 |
| 5 | 99003-016 | 6 | WASHER, NYLON, 3/8 X 1/32 |



ASSEMBLY, FRONT SHAFT (10020-017r0) (Fig. 8)

| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|-----------|------|---------------------------|
| 1 | 10004-024 | 1 | SHAFT, FRONT |
| 2 | 99006-028 | 2 | PIN, DOWEL, 1/4 X 5/8 |
| 3 | 99003-056 | 2 | BEARING, 1/4 X 5/8 SEALED |

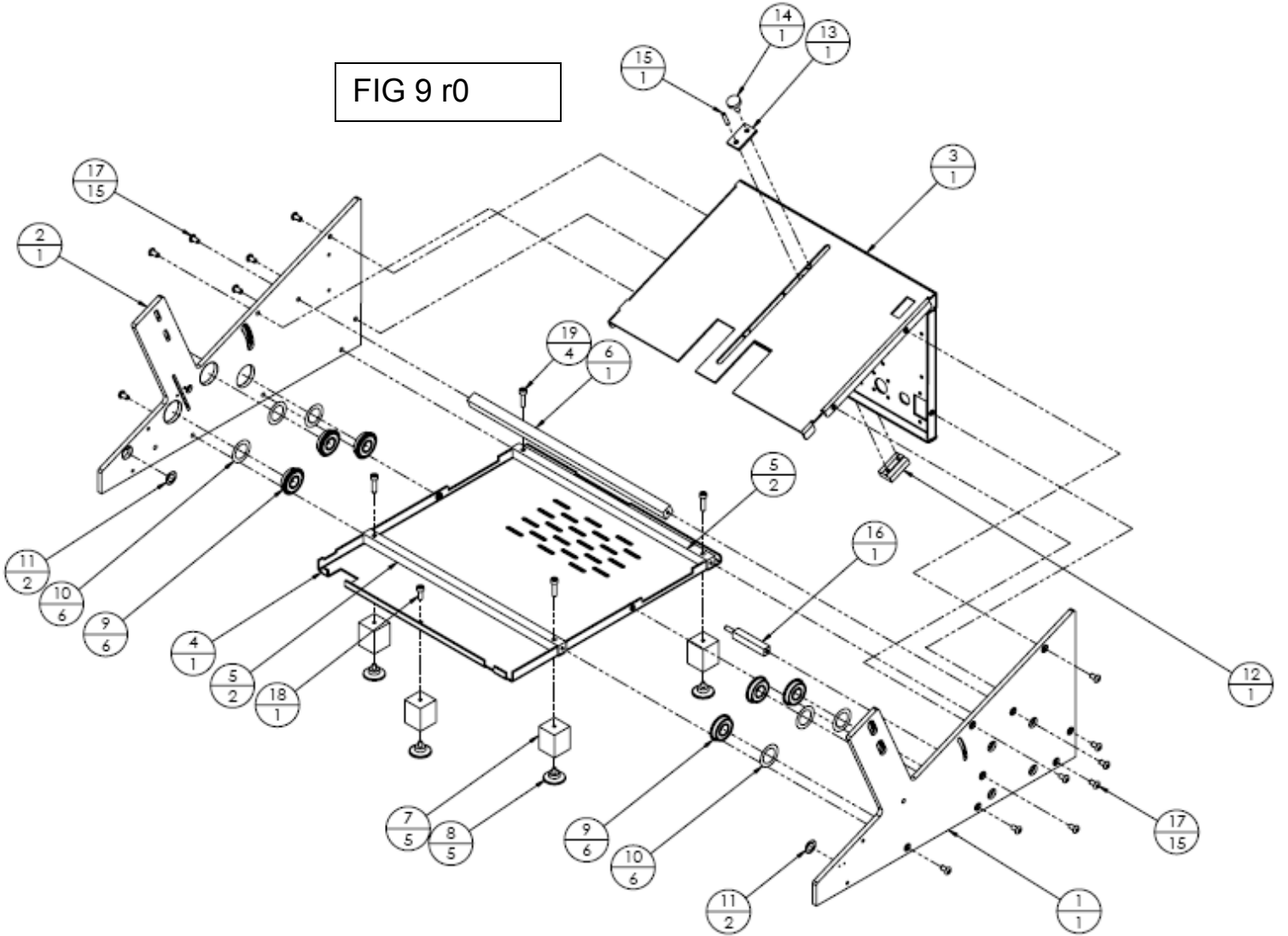


ASSEMBLY, CHASSIS (10020-067r0) (Fig. 9)

| ITEM | PART NO. | QTY. | DESCRIPTION |
|-----------|------------------|----------|-----------------------------------|
| 1 | 10000-007 | 1 | SIDE FRAME, LH |
| 2 | 10000-008 | 1 | SIDE FRAME, RH |
| 3 | 10001-006 | 1 | COVER, TOP |
| 4 | 10002-004 | 1 | BOTTOM PANEL |
| 5 | 10008-007 | 2 | CROSS BRACE (LOWER) |
| 6 | 10008-008 | 1 | CROSS BRACE (UPPER) |
| 7 | 10010-003 | 5 | FOOT, BOTTOM |
| 8 | 99007-001 | 5 | FOOT, SUCTION, #8-32 |
| 9 | 99003-083 | 6 | BEARING, 1/2 X 1-1/8 SEALED |
| 10 | 99036-003 | 6 | SHIM, BEARING, 3/4 X 1-1/8 X .006 |
| 11 | 99036-005 | 2 | SHIM, ARBOR, 3/8 X 5/8 X .006 |
| 12 | 10007-003 | 1 | NUT, PAPER SLIDE |
| 13 | 10007-004 | 1 | WASHER, PAPER SLIDE |
| 14 | 10020-317 | 1 | ASSY, KNOB, #10-24 X 1/2 |
| 15 | 99006-020 | 1 | PIN, ROLL, 5/32 X 3/4 |
| 16 | 10020-447 | 1 | ASSY, CLUTCH STOP |
| - | 10008-006 | 1 EA | CLUTCH STOP |
| - | 99006-021 | 1 EA | PIN, ROLL, 3/16 X 1-1/4 |
| 17 | - | 15 | SCREW, SKT HD, #10-24 X 3/8 |
| 18 | - | 1 | SCREW, SKT HD, #10-24 X 1/2 |
| 19 | - | 4 | SCREW, SKT HD, #10-24 X 3/4 |

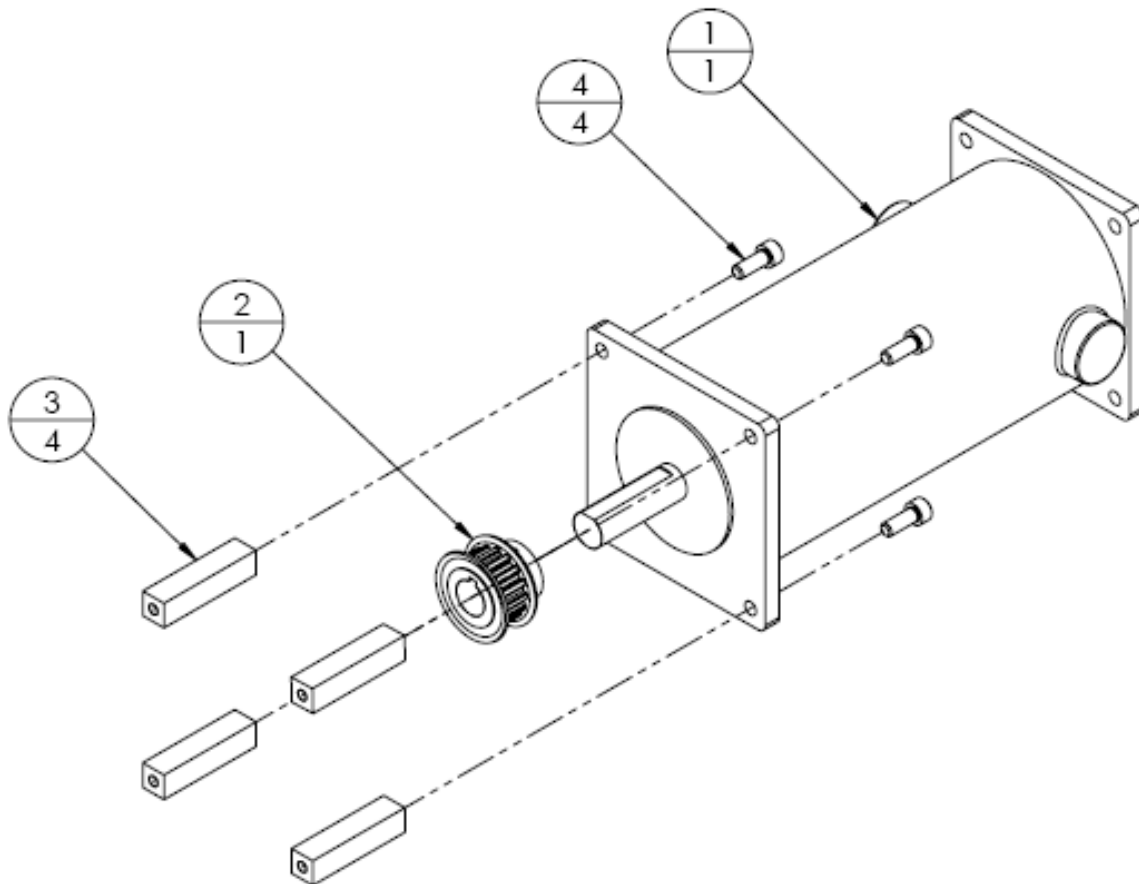
See next page for details

FIG 9 r0



ASSEMBLY, MOTOR (10020-060r0) (Fig. 10)

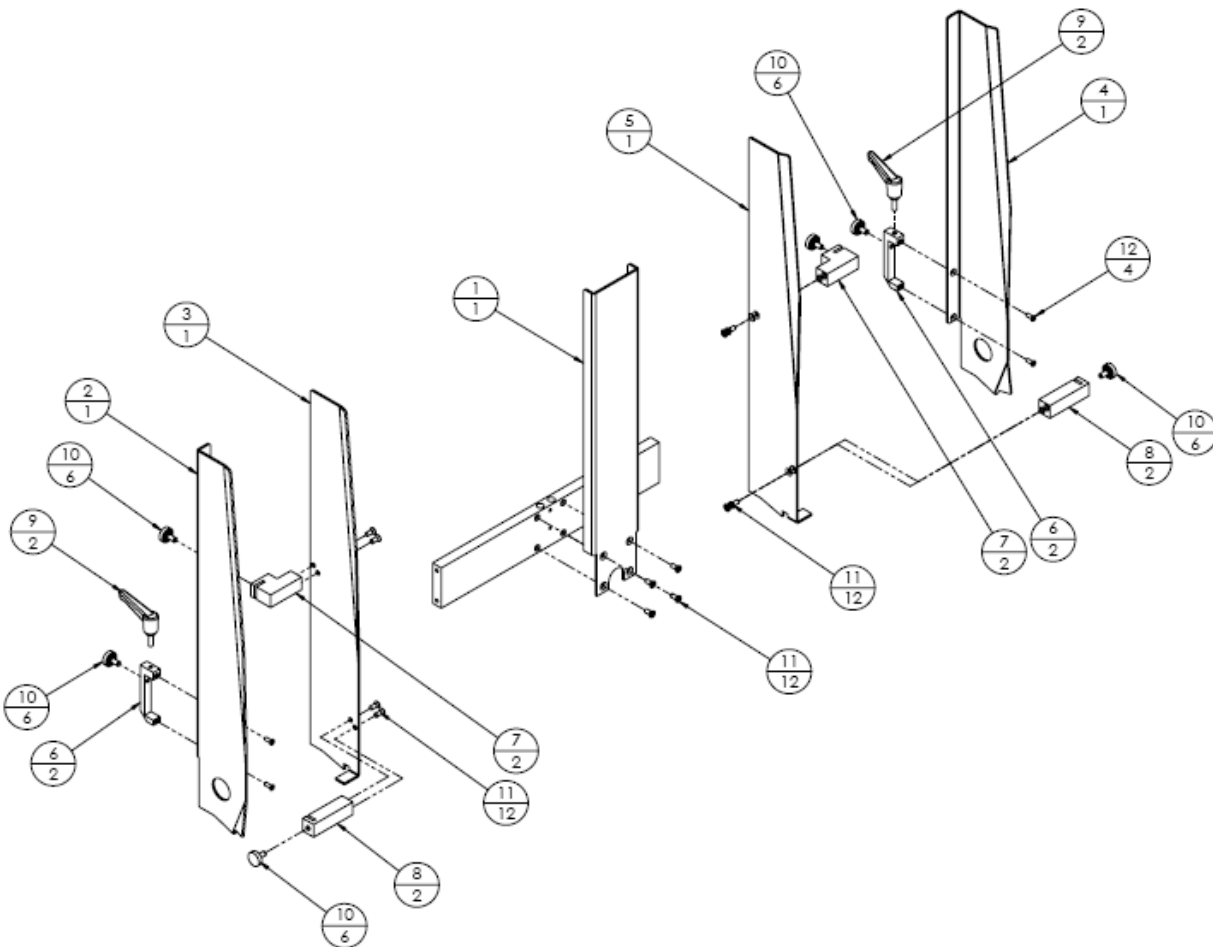
| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|------------|------|--------------------------------|
| 1 | 99001-032 | 1 | MOTOR, 1/6 HP, 4Z528, DC |
| 2 | 99002-007 | 1 | PULLEY, TIMING, 16XL037-1/2B |
| 3 | 10012-004 | 4 | STANDOFF, MOTOR |
| 4 | - | 4 | SCREW, SKT HD, #10-24 X 1/2 |
| N/S | 98016-057 | 2 | CONTACT PIN, 18-24 AWG |
| N/S | 98010-092 | 6" | WIRE, 16 AWG, GREEN/YELLOW |
| N/S | 98016-021? | 1 | CONNECTOR, 5-POS FEMALE (.093) |



ASSEMBLY, SIDE (PAPER) GUIDES (10020-010r0) (Fig. 11)

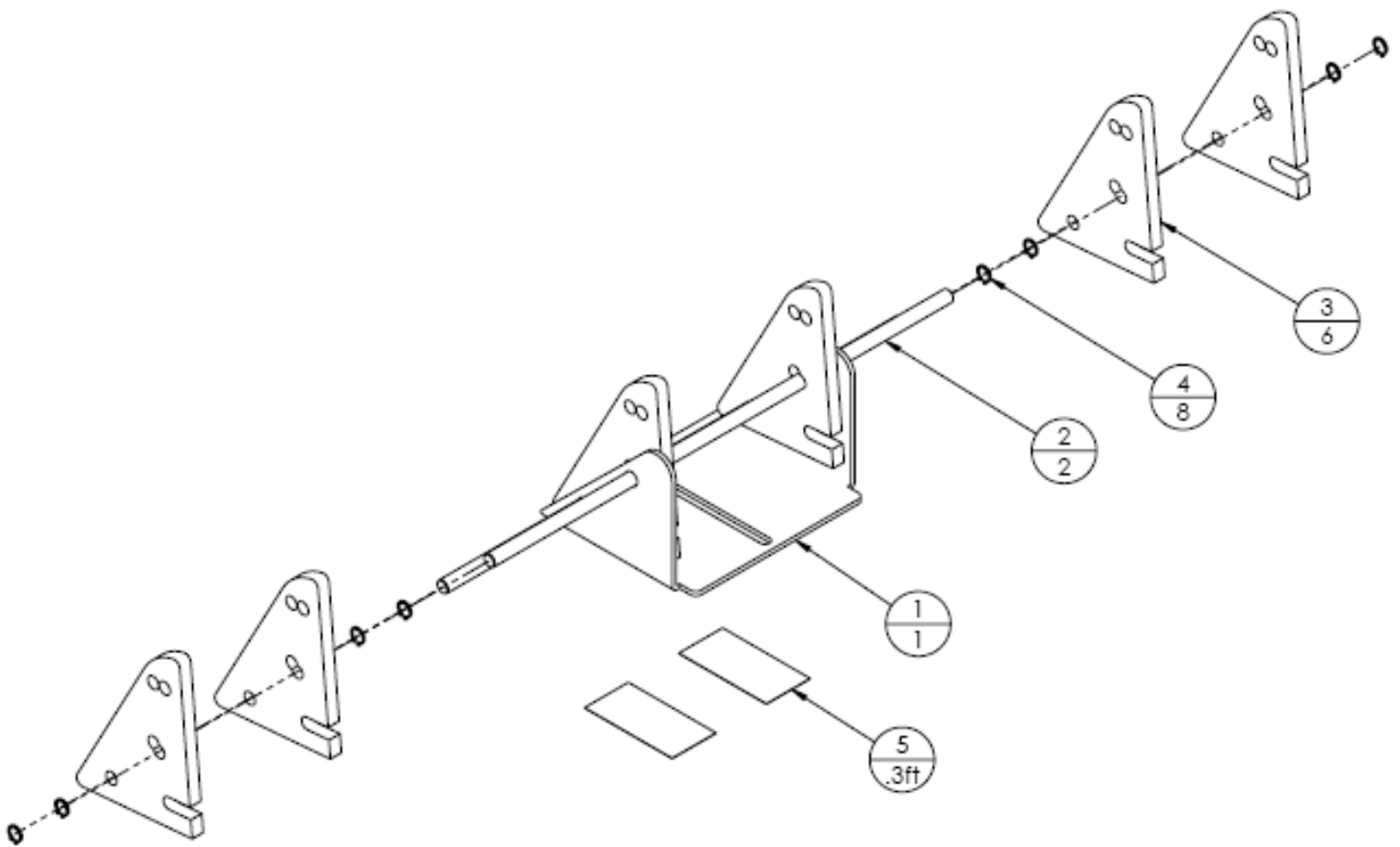
| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|------------------------|------|-------------------------------------|
| 1 | 10005-200 ^a | 1 | GUIDE, FRONT PAPER (old #10005-002) |
| 2 | 10005-008 | 1 | SIDE GUIDE, LH |
| 3 | 10005-015 | 1 | GUIDE BUSINESS, LH TALL |
| 4 | 10005-009 | 1 | SIDE GUIDE, RH |
| 5 | 10005-014 | 1 | GUIDE BUSINESS, RH TALL |
| 6 | 10009-002 | 2 | BRACKET, SIDE GUIDE MTG |
| 7 | 10007-007 | 2 | CLAMP, BUSINESS GUIDE, UPPER |
| 8 | 10007-008 | 2 | CLAMP, BUSINESS GUIDE |
| 9 | 99004-003 | 2 | HANDLE, RATCHET, #10-24 X 5/8 |
| 10 | 10020-316 | 6 | ASSY, KNOB, #10-24 X 3/8 |
| 11 | - | 12 | SCREW, FLAT HD, #8-32 X 3/8 |
| 12 | - | 4 | SCREW, FLAT HD, #6-32 X 3/8 |

REV A: Item 1 was changed from 10005-002 to 10005-200 (5/18/08)



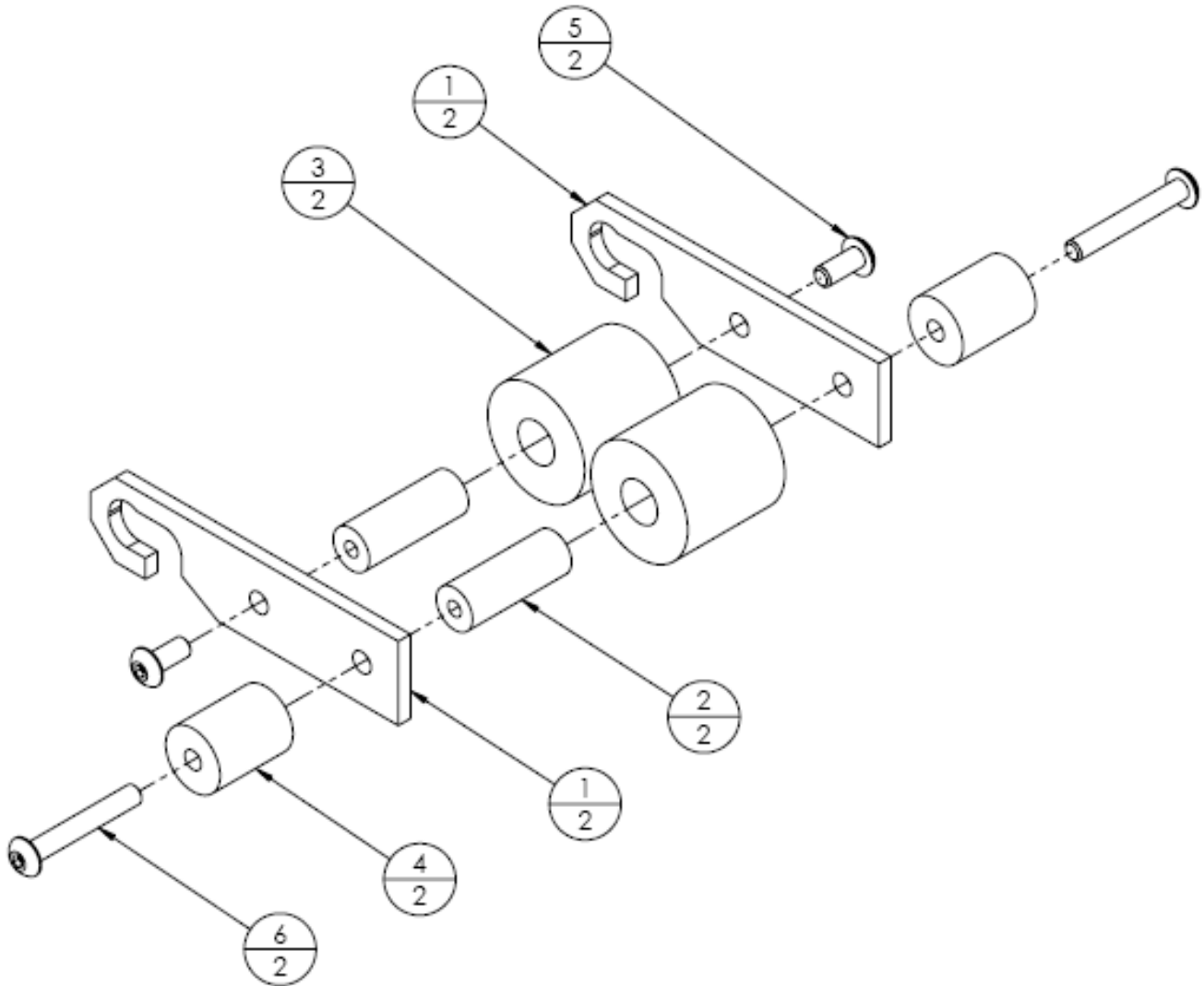
ASSEMBLY, PAPER SLIDE (10020-058r0) (FIG. 12)

| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|-----------|--------|-----------------------|
| 1 | 10009-003 | 1 | BRACKET, PAPER SLIDE |
| 2 | 10004-006 | 2 | SHAFT, PAPER SLIDE |
| 3 | 10005-016 | 6 | SLIDE, PAPER |
| 4 | 99022-001 | 8 | SNAP RING, 1/4" |
| 5 | 99039-009 | 0.3 FT | ANTI-SKID TAPE, BLACK |



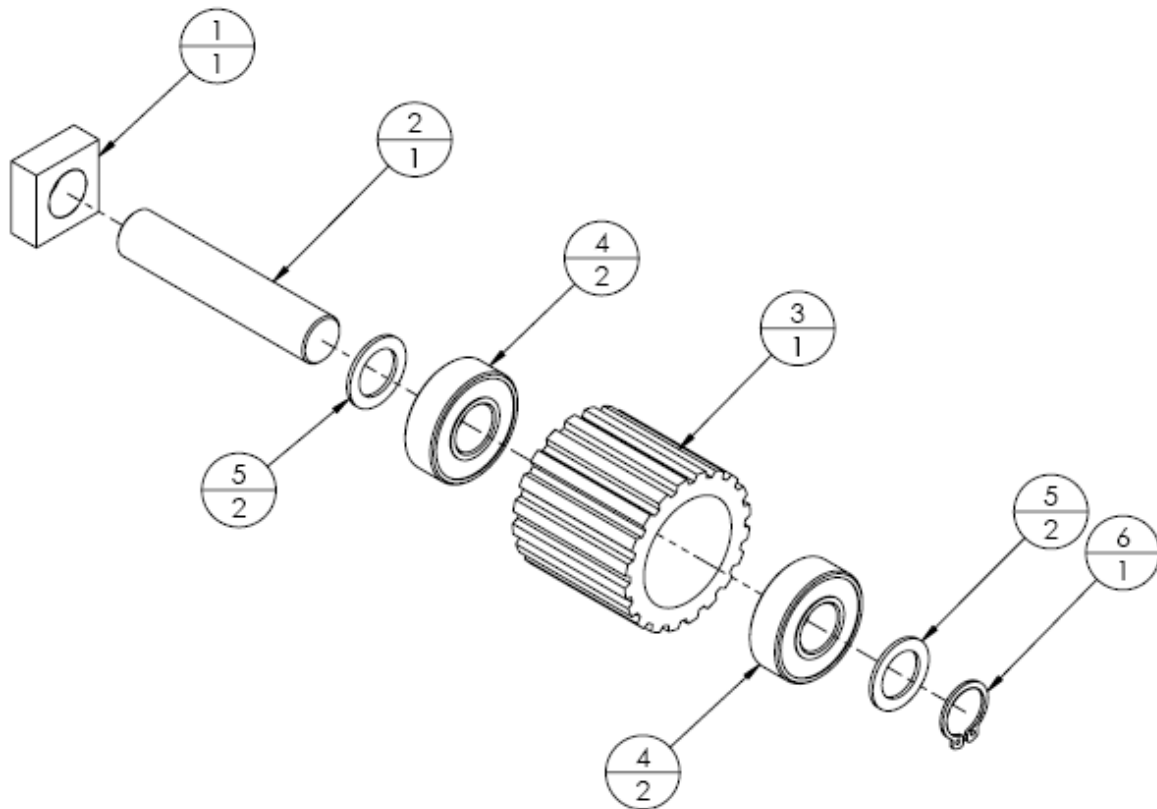
ASSEMBLY, TRAILING ARM (10020-072r0) (Fig. 13)

| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|-----------|------|-----------------------------------|
| 1 | 10011-002 | 2 | PLATE, ROLLER MTG |
| 2 | 10012-003 | 2 | SPACER, TONGUE |
| 3 | 10006-016 | 2 | ROLLER, TONGUE |
| 4 | 10004-016 | 2 | WEIGHT |
| 5 | - | 1 | SCREW, BUTTON HEAD, #8-32 X 3/8 |
| 6 | - | 1 | SCREW, BUTTON HEAD, #8-32 X 1-1/8 |



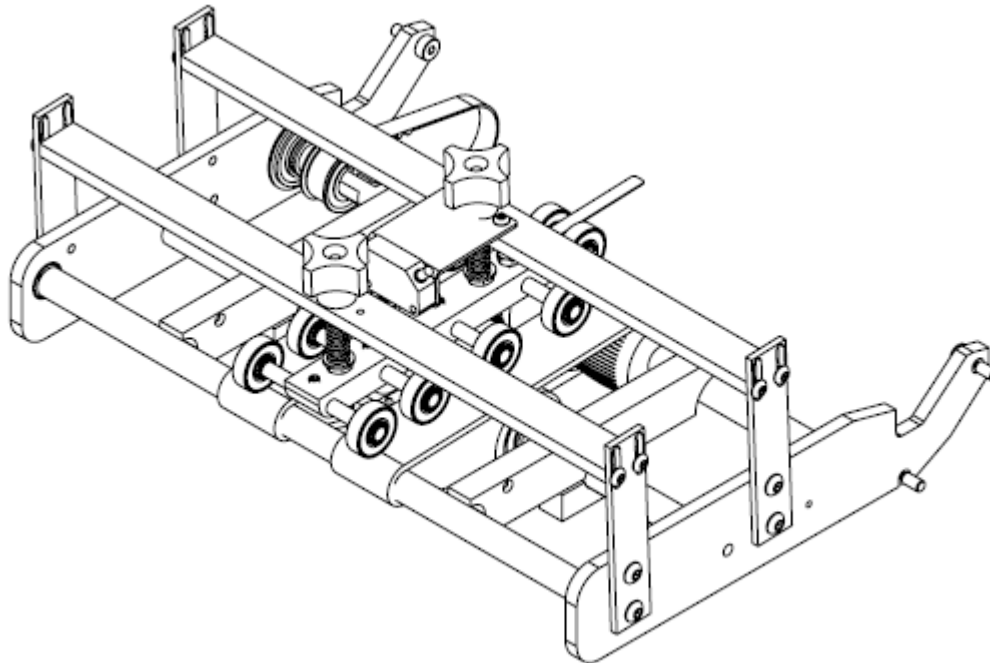
ASSEMBLY, INTERMEDIATE PULLEY (10020-094r0) (Fig. 14)

| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|-----------|------|----------------------------|
| 1 | 10007-011 | 1 | BLOCK, IDLER SUPPORT |
| 2 | 10004-015 | 1 | SHAFT, IDLER STUD |
| 3 | 10006-027 | 1 | PULLEY, 20XL037, 1/2B |
| 4 | 99003-001 | 2 | BEARING, SEALED, 3/8 X 7/8 |
| 5 | 99003-016 | 2 | WASHER, NYLON, 3/8 X 1/32 |
| 6 | 99022-003 | 1 | SNAP RING, 3/8 |

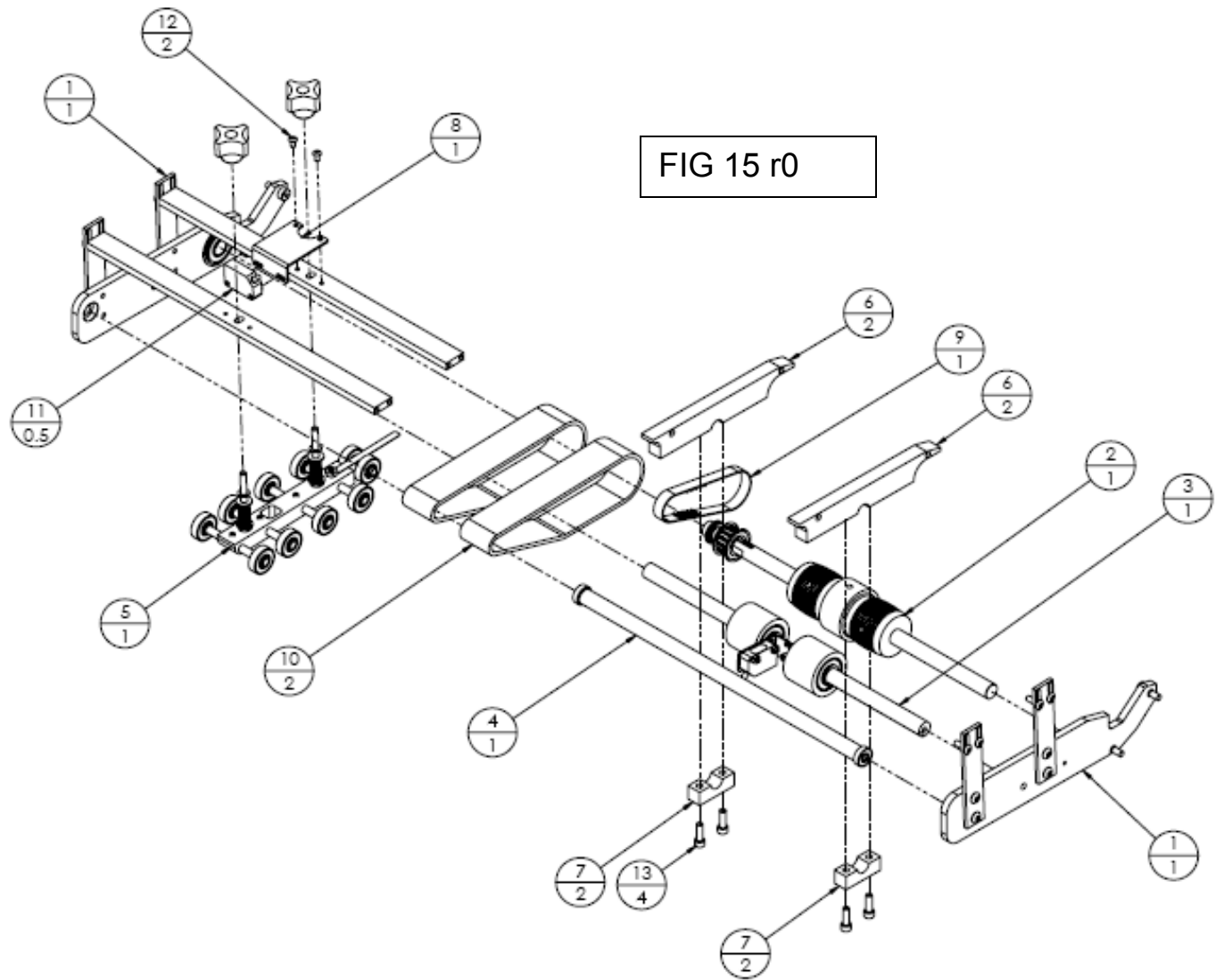


ASSEMBLY, ACCELERATOR (10020-079r0) (Fig. 15)

| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|-------------|------|---|
| 1 | SEE FIG 15A | 1 | ASSY, ACCELERATOR CHASSIS (10020-083) |
| 2 | SEE FIG15B | 1 | ASSY, ACCELERATOR DRIVE SHAFT (10020-087) |
| 3 | SEE FIG 15C | 1 | ASSY, ACCELERATOR IDLER SHAFT (10020-090) |
| 4 | SEE FIG 15D | 1 | ASSY, FRONT SHAFT-ACCELERATOR (10020-092) |
| 5 | SEE FIG 15E | 1 | ASSY, ROLLER RACK (10017-002) |
| 6 | 10005-021 | 2 | SLIDE, PAPER |
| 7 | 10007-009 | 2 | CLAMP, PAPER SLIDE |
| 8 | 10009-026 | 1 | BRACKET, SENSOR MTG |
| 9 | 99000-001 | 1 | BELT, TIMING, 90XL037 |
| 10 | 99000-004 | 2 | BELT, RED GUM |
| 11 | 98009-022 | 1/2 | SENSOR, PHOTO-ELECTRIC SWITCH |
| 12 | - | 2 | SCREW, BUTTON HD, #6-32 X 1/4 |
| 13 | - | 4 | SCREW, SKT HD, #10-24 X 5/8 |
| - | 98016-063 | 1 | CONNECTOR, 6-POS, MALE (.093) |

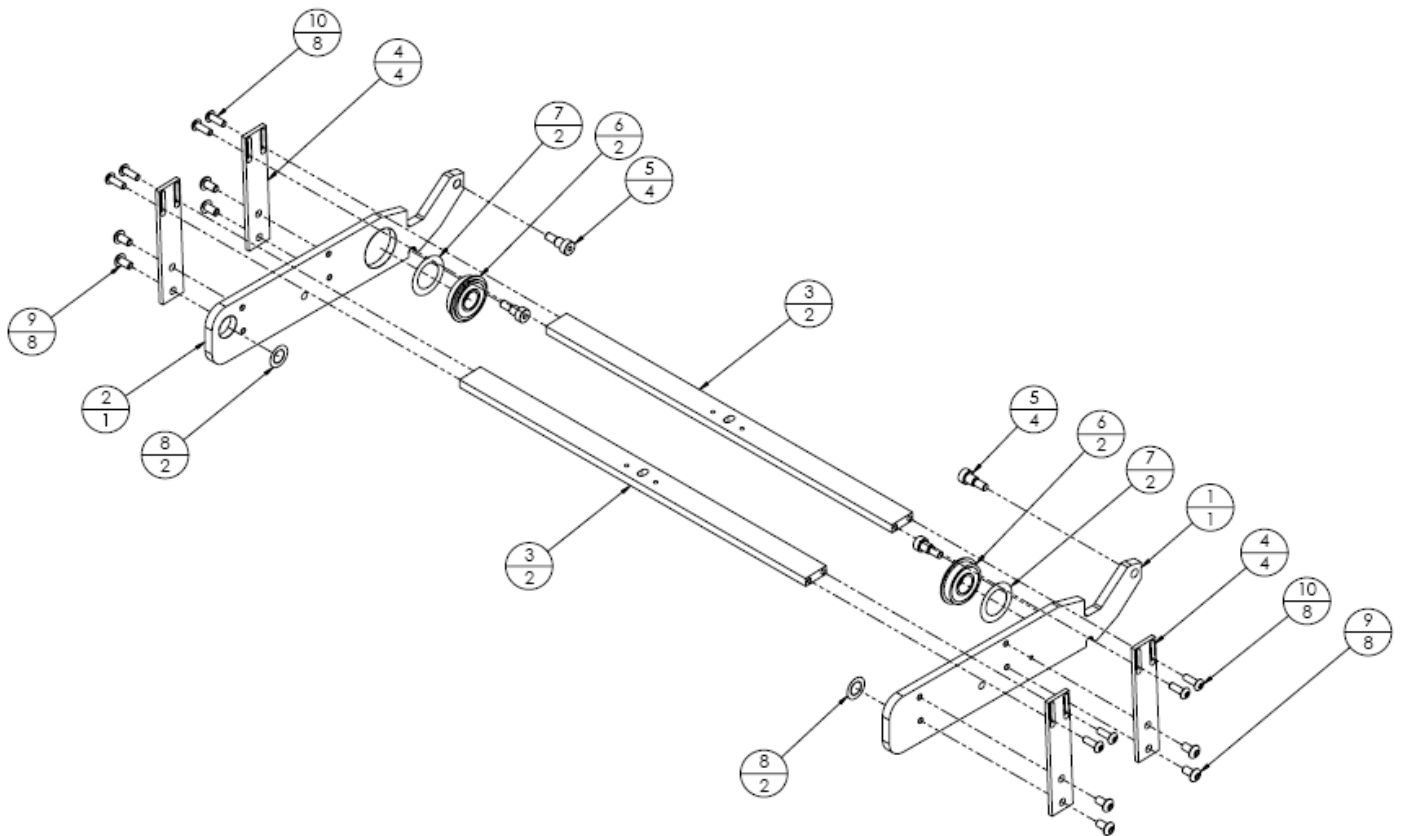


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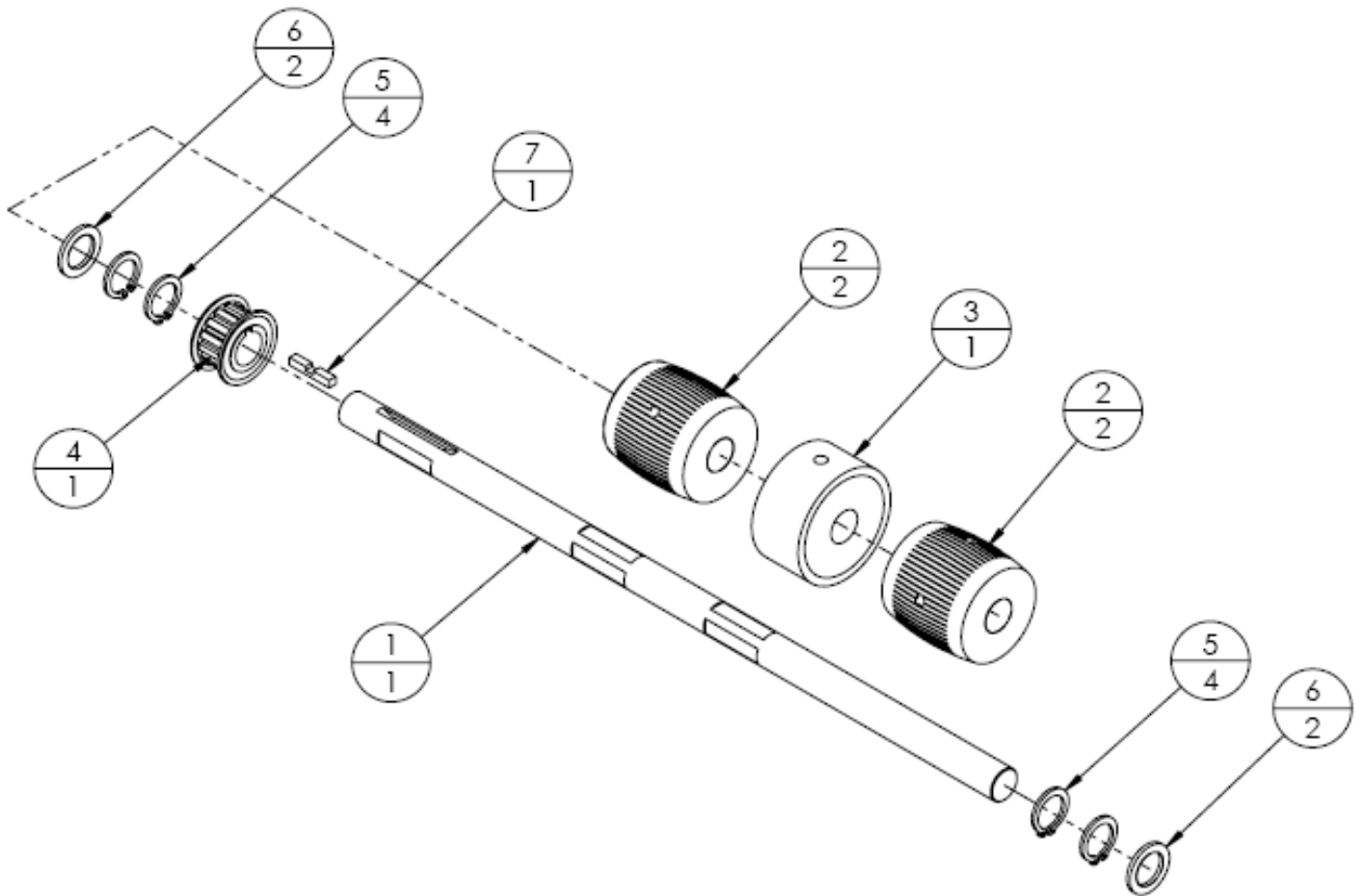
ASSEMBLY, ACCELERATOR CHASSIS (10020-083r0) (Fig. 15A)

| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|-----------|------|-------------------------------------|
| 1 | 10000-011 | 1 | SIDE FRAME-ACCELERATOR LH |
| 2 | 10000-012 | 1 | SIDE FRAME-ACCELERATOR RH |
| 3 | 10008-005 | 2 | BAR, ROLLER RACK MTG |
| 4 | 10008-009 | 4 | BAR, ROLLER RACK SUPPORT |
| 5 | 99033-006 | 4 | BOLT, SHOULDER, STL, 1/4 X 1/4 |
| 6 | 99003-083 | 2 | BEARING, 1/2 ID X 1-1/8 OD SHIELDED |
| 7 | 99036-003 | 2 | SHIM, BEARING, 3/4 X 1-1/8 X .006 |
| 8 | 99036-005 | 2 | SHIM, ARBOR, 3/8 X 5/8 X .006 |
| 9 | - | 8 | SCREW, BUTTON HD, #10-24 X 3/8 |
| 10 | - | 8 | SCREW, BUTTON HD, #8-32 X 1/2 |



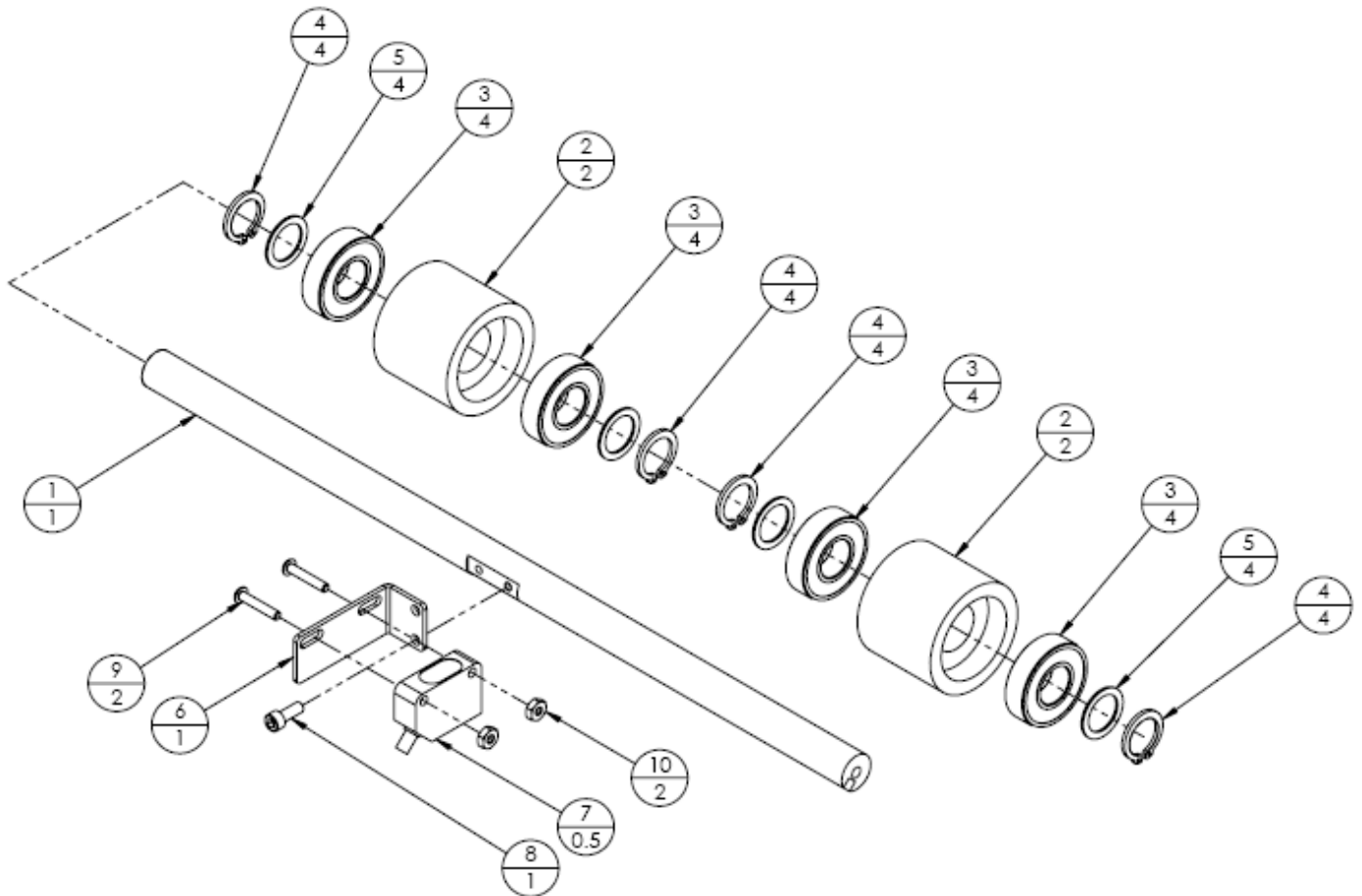
ASSY, ACCELERATOR DRIVE SHAFT (10020-087r0) (Fig. 15B)

| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|-----------|------|-------------------------------|
| 1 | 10004-019 | 1 | SHAFT, ACCELERATOR DRIVE |
| 2 | 10006-018 | 2 | PULLEY, CROWNED |
| 3 | 10006-013 | 1 | ROLLER, NIP |
| 4 | 99002-028 | 1 | PULLEY, TIMING, 14XL037, 1/2B |
| 5 | 99022-004 | 4 | SNAP RING, 1/2 |
| 6 | 99003-018 | 2 | WASHER, NYLON, 1/2 X 1/16 |
| 7 | 10019-008 | 1 | KEY, MODIFIED 1/8 |



ASSY, ACCELERATOR IDLER SHAFT (10020-090r0) (Fig. 15C)

| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|-----------|------|-------------------------------|
| 1 | 10004-017 | 1 | SHAFT, SUPPORT IDLER |
| 2 | 10006-017 | 2 | ROLLER, MATE (ACCELERATOR) |
| 3 | 99003-108 | 4 | BEARING, SEALED, 1/2 X 1-1/8 |
| 4 | 99022-004 | 4 | SNAP RING, 1/2 |
| 5 | 99003-032 | 4 | WASHER, NYLON, 1/2 X 1/32 |
| 6 | 10009-004 | 1 | BRACKET, SENSOR MTG |
| 7 | 98009-022 | 1/2 | SENSOR, PHOTO-ELECTRIC SWITCH |
| 8 | - | 1 | SCREW, SKT HD, #6-32 X 3/8 |
| 9 | - | 2 | SCREW, BUTTON HD, #4-40 X 5/8 |
| 10 | - | 2 | HEX NUT, #4-40 |

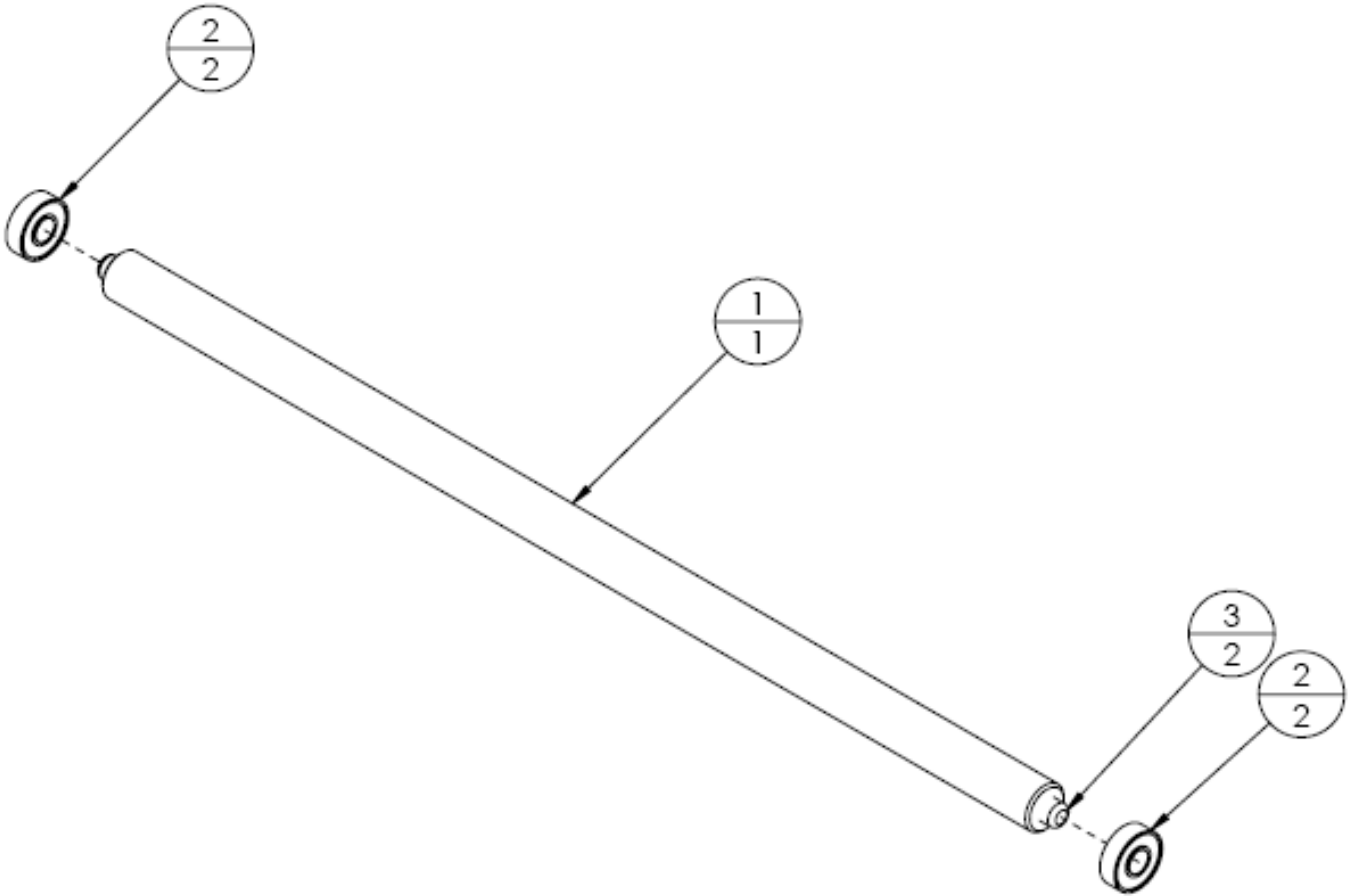


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ASSY, ACCELERATOR FRONT SHAFT (10020-092r0) (Fig. 15D)

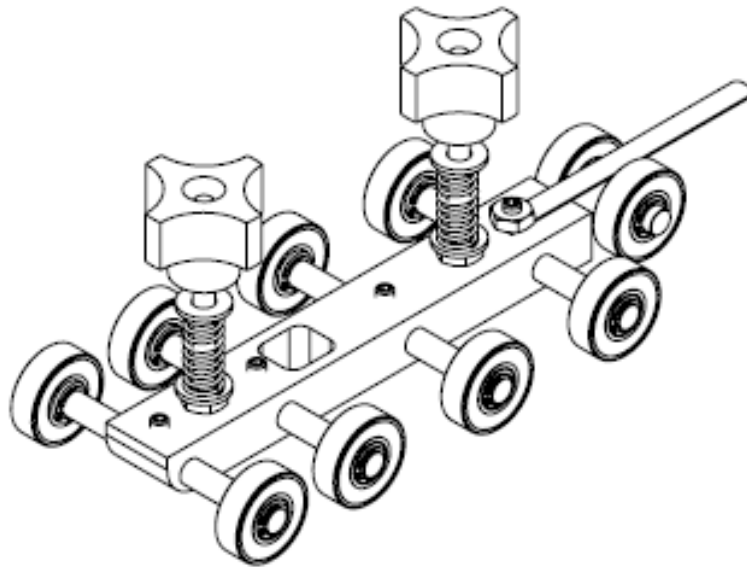
| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|------------------------|------|-----------------------------------|
| 1 | 10004-018 ^a | 1 | SHAFT, FRONT (ACCELERATOR) |
| 2 | 99003-056 | 2 | BEARING, SEALED, 1/4 X 5/8 SEALED |
| 3 | 99006-018 | 2 | DOWEL PIN, 1/4 X 5/8 |

REV A: Corrected part number

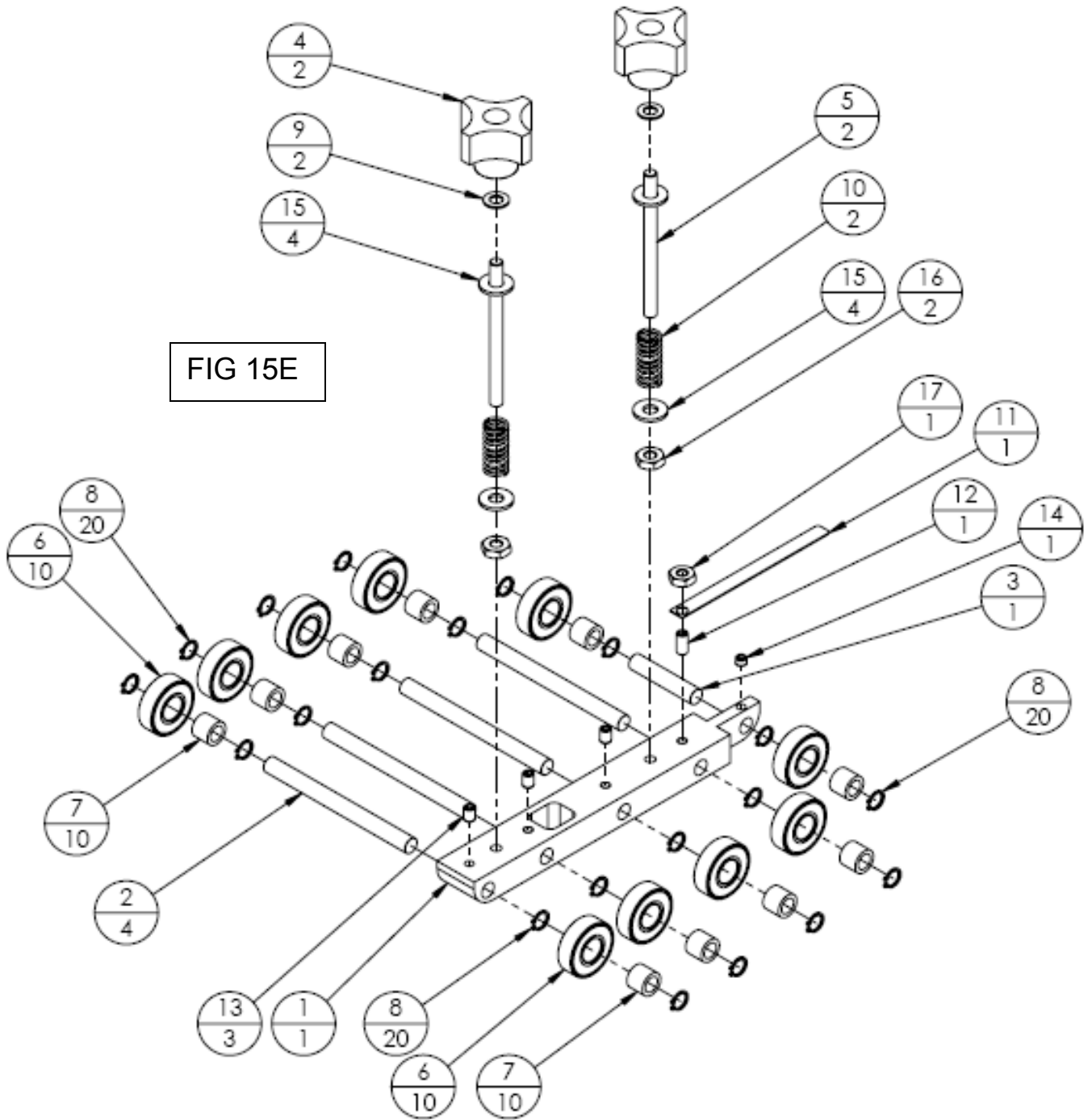


ASSEMBLY, ROLLER RACK (10017-002r0) (Fig. 15E)

| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|-----------|------|-----------------------------------|
| 1 | 10008-004 | 1 | BAR, ROLLER RACK |
| 2 | 10004-025 | 4 | SHAFT, ROLLER RACK |
| 3 | 10004-062 | 1 | SHAFT, ROLLER RACK, FRONT |
| 4 | 99004-005 | 2 | KNOB, FEMALE, #10-32 |
| 5 | 99032-004 | 2 | STUD, THREADED, #10-32 X 2-1/2 |
| 6 | 99003-001 | 10 | BEARING, SEALED, 3/8 X 7/8 SEALED |
| 7 | 99003-005 | 10 | BUSHING, SLEEVE, 1/4 X 3/8 X 5/16 |
| 8 | 99022-001 | 20 | SNAP RING, 1/4 |
| 9 | 99003-096 | 2 | WASHER, NYLON, #10 |
| 10 | 99005-011 | 2 | SPRING, COMPRESSION, 0.42 X 0.36 |
| 11 | 10005-040 | 1 | GUIDE, SPRING STEEL |
| 12 | - | 1 | SET SCREW, #8-32 X 3/8 |
| 13 | - | 3 | SET SCREW, #8-32 X 1/4 |
| 14 | - | 1 | SET SCREW, #8-32 X 1/8 |
| 15 | - | 4 | FLAT WASHER, #10 |
| 16 | - | 2 | HEX NUT, #10-32 |
| 17 | - | 1 | HEX NUT, #8-32 |



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**ASSEMBLY, ELECTRICAL (10018-010) (FIG. 17)
PS-SERIES ELECTRICAL (SINGLE SHOT)**

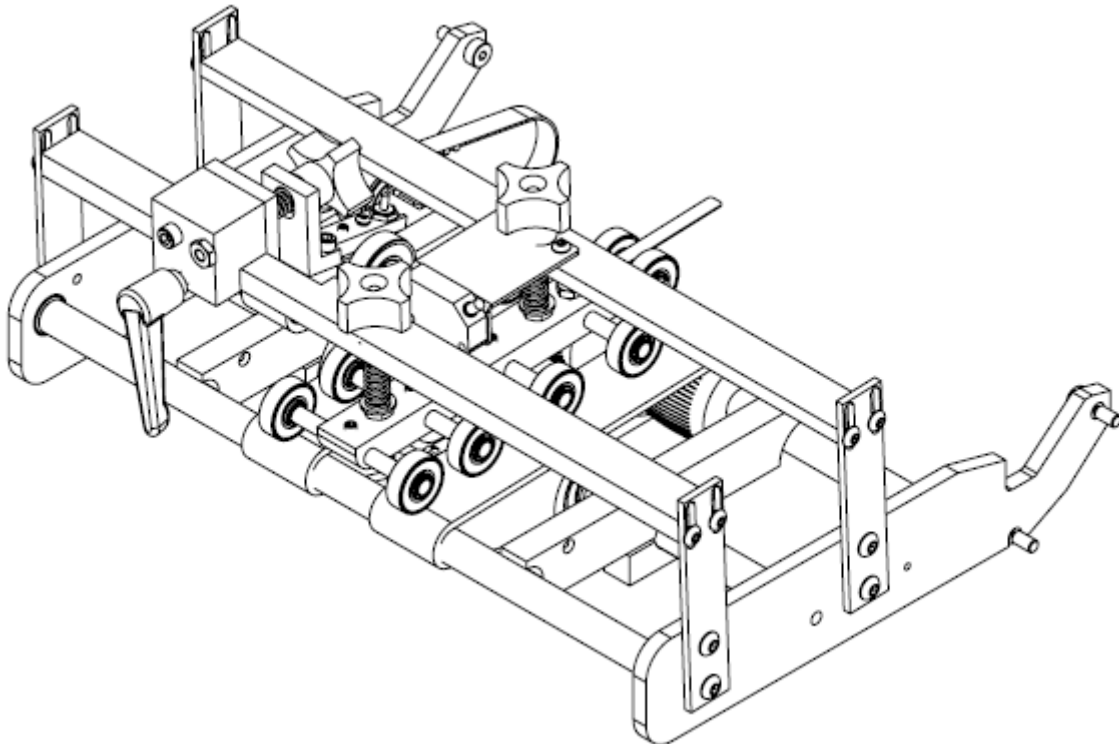
| TEM | PART NO. | QTY. | DESCRIPTION |
|------------|-----------------|-------------|---------------------------------|
| 1 | 98000-001 | 1 | SWITCH, ROCKER - RED - ILLUM |
| 2 | 98001-002 | 1 | TERMINAL STRIP 12 CONN. (FEED |
| 3 | 98023-002 | 1 | I/O BOARD PS/EX SERIES |
| - | 98002-020 | 1 EA | RELAY, SPDT (HEAVY DUTY) |
| 4 | 10018-124 | 2 | ASSY, CABLE RIBBON |
| 5 | 98005-001 | 1 | CONTROLLER, MOTOR 90V DC |
| 6 | 98009-010 | 1 | TOTALIZER, DANAHER |
| 7 | 10018-128 | 1 | ASSY, CABLE DRY CONTACT |
| 8 | 98008-001 | 1 | TRANSFORMER (120V) |
| 9 | 98004-032 | 1 | CIRCUIT BREAKER 3 AMP (FEEDER) |
| 10 | 98003-001 | 1 | RECEPTACLE, POWER CORD |
| 11 | 98007-005 | 1 | CORD, POWER, STRAIGHT |
| 12 | 98006-021 | 1 | KNOB, POTENTIOMETER(KB) |
| 13 | 98000-033 | 1 | SWITCH, ROCKER – SMALL RED |
| 14 | 98006-007 | 1 | POT KIT |
| 15 | 10018-047 | 1 | ASSY, SWITCH |
| 16 | 98006-037 | 1 | SPEED POT, 1MEGΩ |
| 17 | 98006-004 | 1 | DIAL, SPEED POT (KB) |
| 18 | 98016-011 | 1 | RECEPTACLE, SQ FLG, 11-4 |
| 19 | 98016-021 | 1 | CONNECTOR, 5- POS FEMALE (.093) |
| 20 | 98016-062 | 1 | CONNECTOR, 6- POS FEMALE (.093) |
| 21 | 98016-024 | 2 | CONNECTOR, 2-POS FEMALE (.093) |
| 22 | 10018-125 | 1 | ASSY, CABLE PHOTO TRIGGER |
| - | 98009-023 | 1 EA | SENSOR, PHOTOELECTRIC TRIGGER |

FOR RETRO-REFLECTIVE TRIGGER: Delete P/N 10018-125 and 98009-023 (item 22f); Add P/N 10018-126 (RR trigger cable) with P/N 98009-038 (Sensor) and P/N 98009-045 (Reflector).

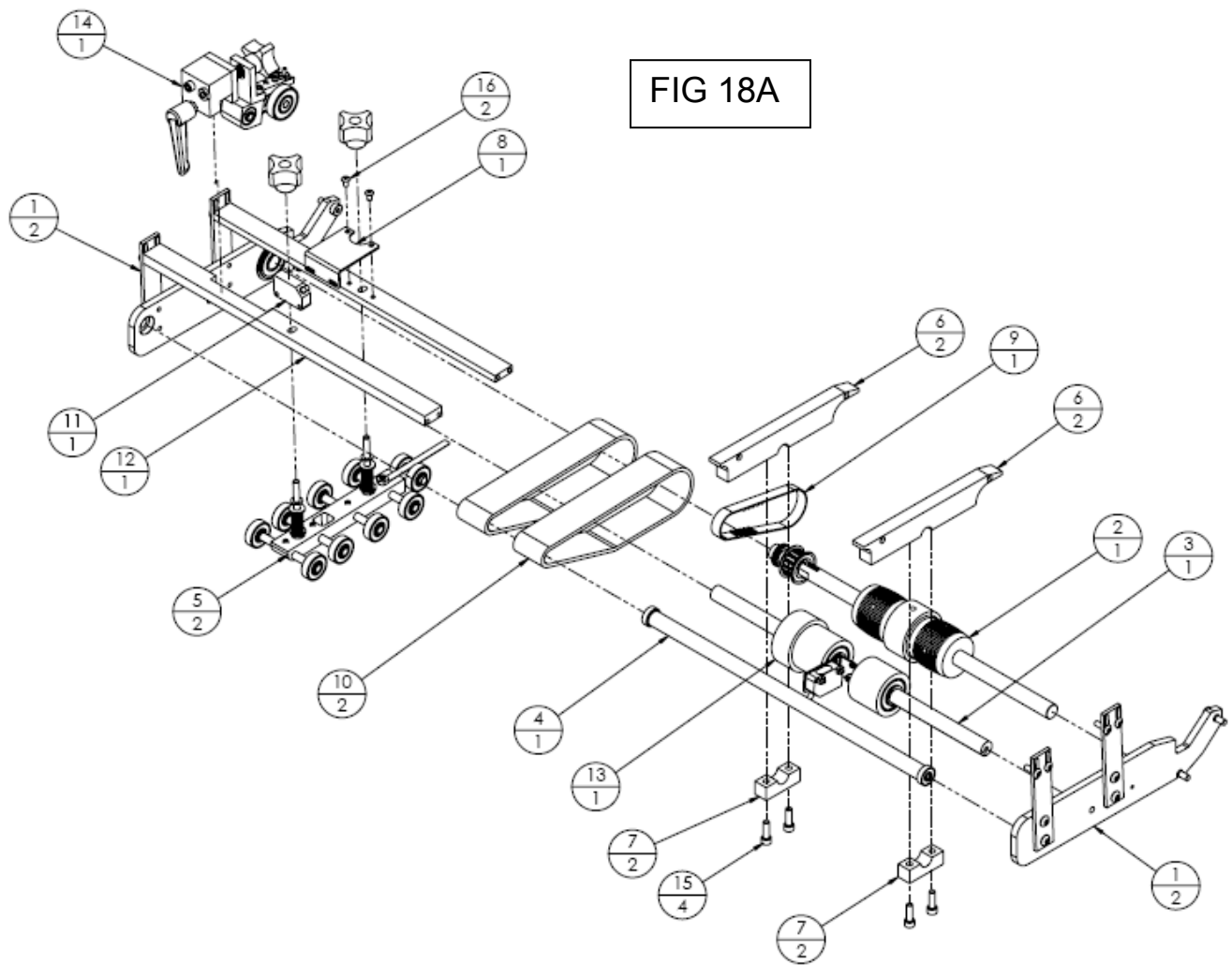
FOR MICROSWITCH TRIGGER: Delete P/N 10018-125 and 98009-023 (item 22f); Add P/N 10018-127 (Microswitch trigger cable) with P/N 98000-020 (Limit switch) and P/N 98000-021 (Cover).

ASSEMBLY, ACCELERATOR W/ DOUBLE DETECT (Fig. 18A)

| ITEM | PART NO. | QTY. | DESCRIPTION |
|-----------|--------------------|----------|---|
| 1 | SEE FIG 15A | REF | ASSY, ACCELERATOR CHASSIS (10020-083) |
| 2 | SEE FIG15B | REF | ASSY, ACCELERATOR DRIVE SHAFT (10020-087) |
| 3 | SEE FIG 15C | REF | ASSY, ACCELERATOR IDLER SHAFT (10020-090) |
| 4 | SEE FIG 15D | REF | ASSY, FRONT SHAFT-ACCELERATOR (10020-092) |
| 5 | SEE FIG 15E | REF | ASSY, ROLLER RACK (10017-002) |
| 6 | 10005-021 | REF | SLIDE, PAPER |
| 7 | 10007-009 | REF | CLAMP, PAPER SLIDE |
| 8 | 10009-026 | REF | BRACKET, SENSOR MTG |
| 9 | 99000-001 | REF | BELT, TIMING, 90XL037 |
| 10 | 99000-004 | REF | BELT, RED GUM |
| 11 | 98009-022 | REF | SENSOR, PHOTO-ELECTRIC SWITCH |
| * 12 | 10008-061 | 1 | BAR, DOUBLE DETECT MTG |
| * 13 | 10006-097 | 1 | ROLLER, DOUBLE DETECT |
| 14 | SEE FIG 18B | 1 | ASSY, DOUBLE DETECT (10020-330) |
| 15 | - | REF | SCREW, SKT HD, #10-24 X 5/8 |
| 16 | - | REF | SCREW, BUTTON HD, #6-32 X 1/4 |
| - | 98016-024 | 1 | CONNECTOR, 2-POS, FEMALE (.093) |



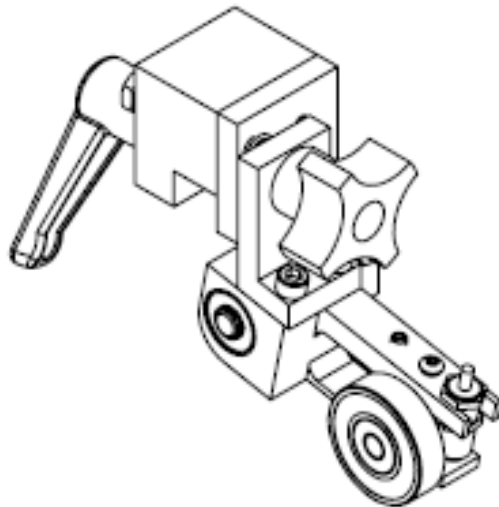
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* NOTE: Items 12 and 13 above, respectively, replace existing P/N 10008-005-ROLLER RACK MTG BAR (FIG 15A) and P/N 10006-017-MATE ROLLER (FIG 15C).

ASSEMBLY, DOUBLE DETECT (10020-330r0) (Fig. 18B)

| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|-----------|------|--------------------------------|
| 1 | 16009-079 | 1 | BRACKET, TUNING FORK-LH |
| 2 | 10009-066 | 1 | BRACKET, DD MTG |
| 3 | 10009-013 | 1 | BRACKET, PIVOT-TUNING FORK |
| 4 | 10007-101 | 1 | BLOCK, DD CLAMP |
| 5 | 10004-052 | 1 | SHAFT, DOUBLE DETECTION PIVOT |
| 6 | 10004-053 | 1 | SHAFT, DOUBLE DETECTION ROLLER |
| 7 | 99032-004 | 1 | STUD, THREADE #10-32 X 2-1/2 |
| 8 | 99004-005 | 1 | KNOB, #10-32 FEMALE |
| 9 | 99004-003 | 1 | HANDLE, RATCHET #10-24 X 1/2 |
| 10 | 99005-007 | 1 | SPRING, DBL DET & GATE ADJ |
| 11 | 99003-056 | 2 | R4RS BEARING, 1/4 X 5/8 |
| 12 | 99003-108 | 1 | BEARING, SEALED, 1/2 X 1-1/8 |
| 13 | 99022-001 | 2 | SNAP RING, 1/4 |
| 14 | 99003-106 | 1 | BUSHING, 1/4 X 1/2 X 5/16 |
| 15 | 99003-096 | 1 | WASHER, NYLON, #10 |
| 16 | 98009-004 | 1 | SENSOR, DOUBLE DETECT SWITCH |
| 17 | - | 1 | SCREW, SKT HD, #10-24 X 1-1/4 |
| 18 | - | 1 | SCREW, SKT HD, #10-24 X 5/8 |
| 19 | - | 1 | SCREW, SKT HD, #8-32 X 1/2 |
| 20 | - | 2 | SCREW, BUTTON HD, #4-40 X 1/2 |
| 21 | - | 1 | SET SCREW, #6-32 X 7/8 |
| 22 | - | 1 | HEX NUT, #10-32 |
| 23 | - | 1 | HEX NUT, #6-32 |
| - | 98016-023 | 1 | CONNECTOR, 2-POS MALE |



See next page for details

