

A. B. DICK 350/360/8800

ROLLERS

ALL UNITS AFTER SERIAL NUMBER 9008-02426 HAVE A SOFT RUBBER PAN ROLLER AND A HARD RUBBER METERING ROLLER. UNITS WITH PREVIOUS SERIAL NUMBERS MUST BE UPGRADED.

X07-0101 FORM ROLLER, SOFT
 (ROLLER W/ ROLL PIN)
 X07-0318NS PAN ROLLER, SOFT
 X07-0401 OSCILLATOR ROLLER, HARD
 XSA-070201NS METERING ROLLER ASSY., HARD
 (ROLLER, SHAFT, BEARINGS, SLEEVES)
 STCL3651 METERING ROLLER SHELL ONLY

SIDE FRAME ASSEMBLIES

XSA-010136O OPS SIDE FRAME ASSY. 350/360
 (SIDE FRAME W/ BEARINGS)
 XSA-010136N NOPS SIDE FRAME ASSY. 350/360
 (SIDE FRAME W/ BEARINGS)
 XSA-010288O OPS SIDE FRAME ASSY. 8800
 (SIDE FRAME W/ BEARINGS)
 XSA-010288N NOPS SIDE FRAME ASSY. 8800
 (SIDE FRAME W/ BEARINGS)

HANGER BRACKET KIT

XSA-STDHANGERS OPS & NOPS HANGER ASSY.
 (KIT DOES BOTH HANGERS)

GEARS

X03-121670 FORM GEAR (W/ ROLL PIN)
 XSA-03121619 IDLER GEAR ASSY. (W/BUSHING, BOLT)
 XSA-03121624 PAN GEAR ASSY. (W/ CLUTCH BEARING)

SIDE FRAME BEARINGS

350/360 AFTER SERIAL #9304-10195
 X06-108 SEALED BALL BEARING (REQUIRES QTY. 4)
 350/360 BEFORE SERIAL #9304-10195
 X06-346038 THIN FLANGED BUSHING (REQUIRES QTY. 4)
 8800 AFTER SERIAL #9211-8555
 X06-108 SEALED BALL BEARING (REQUIRES QTY. 4)
 8800 BEFORE SERIAL #9211-8555
 X06-346038 THIN FLANGED BUSHING (REQUIRES QTY. 4)

MISCELLANEOUS

XSA-9903 METERING THUMB SCREW ASSY.
 (THUMB SCREW, RACHET GEAR, SET SCREW)
 XSA-991101 PIVOT STUD ASSY.
 (PIVOT STUD, WASHER, SCREW)
 X09-0201 COMPRESSION SPRING
 X09-0105 SEQUENCE CAM SPRING
 XSA-1101 WATER PAN ASSY.
 (W/ BOTTLE BRACKET & PAN BOLTS)
 X99-28 WATER PAN HOSE
 XSA-9905 WATER BOTTLE (W/CAP)
 X99-61 WASH UP BOTTLE

A. B. DICK 360 T-51® STATIONARY T-HEAD

ROLLERS

X07-51110 FORM ROLLER, SOFT
 XSA-0702360TH METERING ROLLER ASSY., HARD
 (ROLLER, SHAFT, E-CLIP, COLLAR, ROLL PIN)
 X07-0322NS PAN ROLLER, SOFT
 XSA-070517 UPPER INTERMEDIATE ASSY., SOFT
 (ROLLER, SHAFT, SNAP RINGS)
 X07-51151 LOWER INTERMED. ROLLER, SOFT
 X07-0420 OSCILLATOR ROLLER, HARD

MISCELLANEOUS

XSA-1126 WATER PAN ASSY.
 (W/ PAN BOLTS)
 X99-28 WATER PAN HOSE
 XSA-9905 WATER BOTTLE (W/CAP)
 X99-61 WASH UP BOTTLE

A. B. DICK 8800 T-51® SWING-AWAY® T-HEAD

ROLLERS

X07-51110 FORM ROLLER, SOFT
 XSA-070288SW METERING ROLLER ASSY., HARD
 (ROLLER, SHAFT, SNAP RING, COLLAR, ROLL PIN)
 X07-0322NS PAN ROLLER, SOFT
 XSA-07001 UPPER INTERMEDIATE ROLLER, SOFT
 X07-51151 LOWER INTERMEDIATE ROLLER, SOFT
 X07-0430 OSCILLATOR ROLLER, HARD

MISCELLANEOUS

XSA-1136 WATER PAN ASSY.
 (W/ PAN BOLTS)
 X99-28 WATER PAN HOSE
 XSA-9905 WATER BOTTLE (W/CAP)
 X99-61 WASH UP BOTTLE

A. B. DICK 375/9800/9900 SERIES

ROLLERS

ALL UNITS AFTER SERIAL NUMBER 9008-02379 HAVE A SOFT RUBBER PAN ROLLER AND A HARD RUBBER METERING ROLLER. UNITS WITH PREVIOUS SERIAL NUMBERS MUST BE UPGRADED.

X07-0104 FORM ROLLER, SOFT (W/ ROLL PIN)
 X07-0303NS PAN ROLLER, SOFT
 X07-0403 OSCILLATOR ROLLER, HARD
 XSA-070203NS METERING ROLLER ASSY., HARD
 (ROLLER, SHAFT, BEARINGS, SLEEVES)

SIDE FRAME ASSEMBLIES

XSA-010298O OPS SIDE FRAME ASSY. 9800/9900
 (SIDE FRAME W/ BEARINGS)
 XSA-010136O OPS SIDE FRAME ASSY. 375
 (SIDE FRAME W/ BEARINGS)
 XSA-010298N NOPS SIDE FRAME ASSY. 9800/9900
 (SIDE FRAME W/ BEARINGS)
 XSA-010136N NOPS SIDE FRAME ASSY. 375
 (SIDE FRAME W/ BEARINGS)

HANGER BRACKET KIT

XSA-STDHANGERS OPS & NOPS HANGER ASSY.
 (KIT DOES BOTH HANGERS)

GEARS

X03-121670 FORM GEAR (W/ ROLL PIN)
 XSA-03121619 IDLER GEAR ASSY. (GEAR W/BUSHING, BOLT)
 XSA-03121624 PAN GEAR ASSY. (GEAR W/ CLUTCH BEARING)

SIDE FRAME BEARINGS

9800/9900 AFTER SERIAL #9211-08555
 X06-108 SEALED BALL BEARING (REQUIRES QTY. 4)
 9800/9900 BEFORE SERIAL #9211-08555
 X06-346038 THIN FLANGED BUSHING(REQUIRES QTY. 4)
 375 AFTER SERIAL #9304-10195
 X06-108 SEALED BALL BEARING (REQUIRES QTY. 4)
 375 BEFORE SERIAL #9304-10195
 X06-246038 THICK FLANGED BUSHING (REQUIRES QTY. 2)
 X06-346038 THIN FLANGED BUSHING (REQUIRES QTY. 2)

MISCELLANEOUS

XSA-9903 METERING THUMB SCREW ASSY.
 (THUMB SCREW, RACHET GEAR, SET SCREW)
 COMPRESSION SPRING
 X09-0201 SEQUENCE CAM SPRING
 X09-0105 WATER PAN ASSY.
 XSA-1103 (W/ BOTTLE BRACKET & PAN BOLTS)
 WATER PAN HOSE
 X99-28 WATER BOTTLE (W/CAP)
 XSA-9905 WASH UP BOTTLE
 X99-61

A. B. DICK 9800 T-51® STATIONARY T-HEAD

ROLLERS

X07-51710 FORM ROLLER, SOFT
 XSA-070298TH METERING ROLLER ASSY., HARD
 (ROLLER, SHAFT, COLLARS, ROLL PIN)
 X07-0325NS PAN ROLLER, SOFT
 XSA-070521 UPPER INTERMEDIATE ASSY., SOFT
 (ROLLER, SHAFT, SNAP RING, COLLAR, ROLL PIN)
 X07-51750 LOWER INTERMEDIATE ROLLER, SOFT
 X07-0422 OSCILLATOR ROLLER, HARD

MISCELLANEOUS

XSA-1129 WATER PAN ASSY.
 (W/ PAN BOLTS)
 X99-28 WATER PAN HOSE
 XSA-9905 WATER BOTTLE (W/CAP)
 X99-61 WASH UP BOTTLE

A. B. DICK 9800 T-51® SWING-AWAY® T-HEAD

ROLLERS

X07-51710 FORM ROLLER, SOFT
 XSA-070298SW METERING ROLLER ASSY., HARD
 (ROLLER, SHAFT, COLLARS, ROLL PIN)
 X07-0325NS PAN ROLLER, SOFT
 XSA-070522 UPPER INTERMEDIATE ASSY., SOFT
 (ROLLER, SHAFT, E-CLIPS)
 X07-51750 LOWER INTERMEDIATE ROLLER, SOFT
 X07-0405 OSCILLATOR ROLLER, HARD

MISCELLANEOUS

XSA-1129 WATER PAN ASSY.
 (W/ PAN BOLTS)
 X99-28 WATER PAN HOSE
 XSA-9905 WATER BOTTLE (W/CAP)
 X99-61 WASH UP BOTTLE

DIDDE 8.5 OLD STYLE 6 ROLL WATER UNIT

ROLLERS

X07-0126 FORM ROLLER, SOFT
X07-0328 PAN ROLLER, HARD
X07-0404 OSCILLATOR ROLLER, HARD
XSA-07DI850 METERING ROLLER ASSY., SOFT
(ROLLER, SHAFT, BEARINGS, COLLARS)
XSA-070527 LOWER INTERMEDIATE ASSY., HARD
(ROLLER, SHAFT, BEARINGS, COLLARS, ROLL PIN)
XSA-070528 UPPER INTERMEDIATE ASSY., SOFT (ROLLER,
SHAFT, BEARINGS, WASHERS, SNAP RINGS)

SIDE FRAMES

XSA-010131 OPS SIDE FRAME
XSA-010132 NOPS SIDE FRAME

GEARS

XSA-031216CLT PAN, FORM CLUTCH GEAR ASSY.
(GEAR W/ CLUTCH BEARING, 2 PER DAMPENER)
XSA-031216DI DAMPENER FRAME IDLER GEAR ASSY.
(NEAREST TO PAN CLUTCH GEAR)
(GEAR, BEARING, SHOULDER BOLT)
XSA-03121619 DAMPENER FRAME IDLER GEAR ASSY. (CENTER
IDLER; GEAR, BEARING, SHOULDER BOLT)

GEARS CONTINUED

XSA-03121617 DAMPENER FRAME IDLER GEAR ASSY.
(NEAREST TO FORM CLUTCH GEAR)
(GEAR, BEARING, SPACER, WASHERS, BOLT)
XSA-03212036 DRIVE SHAFT CLUTCH GEAR ASSY.
(GEAR, CLUTCH BEARING)
XSA-03212016 FIBER DRIVE GEAR ASSY.
(GEAR, BEARING)
X03-121618 DRIVE SHAFT IDLER GEAR
X03-400521 RACK GEAR

MISCELLANEOUS

XSA-9903 METERING THUMB SCREW ASSY.
(THUMB SCREW, RACHET GEAR, SET SCREW)
X09-0105 COMPRESSION SPRING
(2 PER DAMPENER)
XSA-1138 WATER PAN ASSY.
(W/ PAN BOLTS)
X99-28 WATER PAN HOSE
XSA-9905 WATER BOTTLE (W/ CAP)
X99-61 WASH UP BOTTLE

DIDDE 11, 17 ALTRA

THESE PART NUMBERS APPLY TO UNITS AFTER SERIAL NUMBER
9604-18619.

ROLLERS

X07-0158 FORM ROLLER, SOFT
X07-0353 PAN ROLLER, HARD
X07-0429 OSCILLATOR ROLLER, HARD
XSA-070242 METERING ROLLER, SOFT
XSA-070537 INTERMEDIATE ROLLER,SOFT

SIDE FRAMES

XSA-010163 OPS SIDE FRAME
XSA-010164 NOPS SIDE FRAME

BEARINGS

X06-101 SEALED BALL BEARING, PAN ROLLER
(2 PER DAMPENER)
X06-100 SEALED BALL BEARING, FORM ROLLER
(2 PER DAMPENER)

MISCELLANEOUS

XSA-1143 WATER PAN ASSY.
(W/PAN BOLTS)
X99-90 WATER PAN BOLT, SHORT
(2 PER PAN)
XSA-2118 SPLASH SHIELD ASSEMBLY
X99-61 WASH UP BOTTLE

DIDDE 11, 17 OLD STYLE

THESE PART NUMBERS APPLY TO UNITS BEFORE SERIAL NUMBER
9604-18619.

ROLLERS

X07-0133 FORM ROLLER, SOFT
X07-0337 PAN ROLLER, HARD
X07-0429 OSCILLATOR ROLLER, HARD
XSA-070238 METERING ROLLER ASSY., SOFT
(ROLLER, SHAFT, BEARINGS, SNAP RINGS)
XSA-070531 INTERMEDIATE ASSY., SOFT
(ROLLER, SHAFT, BEARINGS, COLLAR)

SIDE FRAMES

NOTE: EACH SIDE FRAME REQUIRES (1) X06-108 BEARING.
XSA-010111 OPS SIDE FRAME
XSA-010112 NOPS SIDE FRAME

BEARINGS

X06-108 SEALED BALL BEARING, SIDE FRAME
(2 PER DAMPENER)
X06-107 SEALED BALL BEARING, PAN SHAFT
(2 PER DAMPENER)
X06-103 SEALED BALL BEARING, PIVOT
(2 PER DAMPENER)
X06-100 SEALED BALL BEARING, FORM ROLLER
(2 PER DAMPENER)

MISCELLANEOUS

XSA-9903 METERING THUMB SCREW ASSY.
(THUMB SCREW, RACHET GEAR, SET SCREW)
X09-0101 COMPRESSION SPRING (2 PER DAMPENER)
XSA-1138 WATER PAN ASSY. (W/ PAN BOLTS)
X21-18 SPLASH SHIELD
X99-61 WASH UP BOTTLE

DIDDE MINICOM, CONSERVER, MCP ALTRA

THESE PART NUMBERS APPLY TO UNITS AFTER SERIAL NUMBER 9602-17733.

ROLLERS

X07-0136 FORM ROLLER, SOFT
X07-0353 PAN ROLLER, HARD
X07-0434 OSCILLATOR ROLLER, HARD
XSA-070242 METERING ROLLER, SOFT
XSA-070537 INTERMEDIATE ROLLER, SOFT

SIDE FRAMES

XSA-010158 OPS SIDE FRAME
XSA-010159 NOPS SIDE FRAME

BEARINGS

X06-101 SEALED BALL BEARING, PAN ROLLER
(2 PER DAMPENER)
X06-130 SEALED BALL BEARING, FORM ROLLER
(2 PER DAMPENER)

MISCELLANEOUS

XSA-1143 WATER PAN
X99-90 WATER PAN BOLT, SHORT
(2 PER PAN)
XSA-2118 SPLASH SHIELD
X99-61 WASH UP BOTTLE

DIDDE MINICOM, CONSERVER, MCP OLD STYLE

THESE PART NUMBERS APPLY TO UNITS BEFORE SERIAL NUMBER 9602-17733.

ROLLERS

X07-0136 FORM ROLLER, SOFT
X07-0337 PAN ROLLER, HARD
X07-0434 OSCILLATOR ROLLER, HARD
XSA-070238 METERING ROLLER ASSY., SOFT
(ROLLER, SHAFT, BEARINGS, COLLARS, ROLL PIN)
XSA-0705MCP INTERMEDIATE ASSY., SOFT
(ROLLER, SHAFT, BEARINGS, COLLARS)

SIDE FRAMES

NOTE: EACH SIDE FRAME REQUIRES (1) X06-108 BEARING.
X01-0147 OPS SIDE FRAME
X01-0148 NOPS SIDE FRAME

BEARINGS

X06-108 SEALED BALL BEARING, SIDE FRAME
(2 PER DAMPENER)
X06-107 SEALED BALL BEARING, PAN SHAFT
(2 PER DAMPENER)
X06-102 SEALED BALL BEARING, PIVOT
(2 PER DAMPENER)

MISCELLANEOUS

X09-0102 COMPRESSION SPRING
(2 PER DAMPENER)
X11-41 WATER PAN
X99-123 WATER PAN BOLTS
(2 PER PAN)
X99-61 WASH UP BOTTLE

HAMADA 500 CDA PARENT

ROLLERS

ALL UNITS AFTER SERIAL #9012-03267 (PARENT ONLY) HAVE A SOFT RUBBER PAN ROLLER AND A HARD METERING ROLLER. UNITS WITH PREVIOUS SERIAL NUMBERS MUST BE UPGRADED.

X07-0118 FORM ROLLER, SOFT
X07-0308NS PAN ROLLER, SOFT
X07-0408 OSCILLATOR ROLLER, HARD
XSA-070209NS METERING ROLLER ASSY., HARD
(ROLLER, SHAFT, BEARINGS, COLLARS)
XSA-070514 INTERMEDIATE ROLLER ASSY., SOFT
(ROLLER, SHAFT, BEARINGS, COLLARS, ROLL PIN)

SIDE FRAME ASSEMBLIES

XSA-010650NO OPS SIDE FRAME ASSY.
(SIDE FRAME W/ BEARINGS)
XSA-010650NN NOPS SIDE FRAME ASSY.
(SIDE FRAME W/ BEARINGS)

GEARS

XSA-03211538 FORM GEAR ASSY.
(GEAR W/ CLUTCH BEARING)
XSA-0321152N EXTERIOR PAN & FORM GEAR ASSY.
(GEAR W/ CLUTCH BEARING) (2 PER DAMPENER)

GEARS CONTINUED

XSA-03211520 EXTERIOR IDLER GEAR ASSY.
(GEAR, BEARING, SHOULDER BOLT)
(2 PER DAMPENER)

BEARINGS

AFTER SERIAL #9211-08645
X06-108 SEALED BALL BEARING, SIDE FRAME
(2 PER DAMPENER)
X06-346038* THIN FLANGED BUSHING
(2 PER DAMPENER)
*4 PER DAMPENER BEFORE SERIAL #9211-08645
X06-103 SEALED BALL BEARING, PIVOT
(2 PER DAMPENER)

MISCELLANEOUS

XSA-9903 METERING THUMB SCREW ASSY.
(THUMB SCREW, RACHET GEAR, SET SCREW)
X09-0102 COMPRESSION SPRING
(2 PER DAMPENER)
XSA-1120 WATER PAN ASSY.
(W/ PAN BOLTS)
X99-28 WATER PAN HOSE
X99-61 WASH UP BOTTLE

HAMADA 555 NEW STYLE SATELLITE

ROLLERS

X07-0125 FORM ROLLER, SOFT
X07-0306 PAN ROLLER, SOFT
X07-0436 OSCILLATOR ROLLER, HARD
XSA-070205 METERING ROLLER ASSY., HARD
(ROLLER, SHAFT, E-CLIPS)

SIDE FRAME ASSEMBLIES

XSA-010129 OPS SIDE FRAME ASSY. (FRAME W/ BEARINGS)
XSA-010130 NOPS SIDE FRAME ASSY. (FRAME W/ BEARINGS)

GEARS

XSA-03211532 PAN GEAR ASSY. (GEAR W/ CLUTCH BEARING)
XSA-032315HM IDLER GEAR ASSY.
(GEAR, BEARING, SHOULDER BOLT)

SEALED BALL BEARINGS

X06-108 SEALED BALL BEARING, SIDE FRAME
(2 PER DAMPENER)
X06-138 SEALED BALL BEARING, TIE BAR/
LIFT SHAFT (2 PER DAMPENER)
X06-103 SEALED BALL BEARING, ENDS OF
PAN ROLLER (2 PER DAMPENER)

MISCELLANEOUS

X09-0101 COMPRESSION SPRING
(2 PER DAMPENER)
XSA-1113 WATER PAN ASSY.
(W/ PAN BOLTS)
X99-61 WASH UP BOTTLE

HAMADA 555 OLD STYLE SATELLITE

ROLLERS

ALL UNITS AFTER SERIAL #9012-03267 HAVE A SOFT RUBBER PAN ROLLER AND A HARD METERING ROLLER. UNITS WITH PREVIOUS SERIAL NUMBERS MUST BE UPGRADED.

X07-0119 FORM ROLLER, SOFT
X07-0312NS PAN ROLLER, SOFT
X07-0412 OSCILLATOR ROLLER, HARD
XSA-070213NS METERING ROLLER ASSY., HARD
(ROLLER, SHAFT, E-CLIPS)

SIDE FRAME ASSEMBLIES

XSA-010113 OPS SIDE FRAME ASSY. (FRAME W/ BEARINGS)
XSA-010114 NOPS SIDE FRAME ASSY. (FRAME W/ BEARINGS)

GEARS

XSA-03211538 FORM GEAR ASSY. (GEAR W/ CLUTCH BEARING)

GEARS CONTINUED

XSA-03211530 PAN GEAR ASSY. (GEAR W/ CLUTCH BEARING)
XSA-032115HM IDLER GEAR ASSY. (GEAR, BEARING, BOLT)

BEARINGS

AFTER SERIAL #9111-08613
X06-108 SEALED BALL BEARING, SIDE FRAME
(4 PER DAMPENER)
BEFORE SERIAL #9111-08613
X06-346038 THIN FLANGED BUSHING
(4 PER DAMPENER)

MISCELLANEOUS

XSA-9999 METERING THUMB SCREW ASSY.
(THUMB SCREW, RACHET GEAR, SET SCREW)
XSA-1119 WATER PAN ASSY. (W/ PAN BOLTS)
X99-61 WASH UP BOTTLE

HAMADA 600 PARENT

ROLLERS

ALL UNITS AFTER SERIAL #9012-03267 (PARENT ONLY) HAVE A SOFT RUBBER PAN ROLLER AND A HARD METERING ROLLER. UNITS WITH PREVIOUS SERIAL NUMBERS MUST BE UPGRADED.

X07-0117 FORM ROLLER, SOFT
X07-0308NS PAN ROLLER, SOFT
X07-0408 OSCILLATOR ROLLER, HARD
XSA-070209NS METERING ROLLER ASSY., HARD
(ROLLER, SHAFT, BEARINGS, COLLARS)
XSA-070504 INTERMEDIATE ROLLER ASSY., SOFT
(ROLLER, SHAFT, BEARINGS, COLLARS, ROLL PIN)
STCL6632 INTERMEDIATE ROLLER SHELL ONLY

SIDE FRAME ASSEMBLIES

XSA-010650NO OPS SIDE FRAME ASSY. (FRAME W/ BEARINGS)
XSA-010650NN NOPS SIDE FRAME ASSY.(FRAME W/ BEARINGS)

GEARS

XSA-03211538 FORM GEAR ASSY. (GEAR W/ CLUTCH BEARING)
XSA-0321152N EXTERIOR PAN & FORM GEAR ASSY.
(GEAR W/ CLUTCH BEARING) (2 PER DAMPENER)

GEARS CONTINUED

XSA-03211520 EXTERIOR IDLER GEAR ASSY. (2 PER DAMPENER)
(GEAR, BEARING, SHOULDER BOLT)

BEARINGS

AFTER SERIAL #9211-08645
X06-108 SEALED BALL BEARING, SIDE FRAME
(2 PER DAMPENER)
X06-346038* THIN FLANGED BUSHING (2 PER DAMPENER)
*4 PER DAMPENER BEFORE SERIAL #9211-08645
X06-103 SEALED BALL BEARING, PIVOT
(2 PER DAMPENER)

MISCELLANEOUS

XSA-9903 METERING THUMB SCREW ASSY.
(THUMB SCREW, RACHET GEAR, SET SCREW)
X09-0102 COMPRESSION SPRING (2 PER DAMPENER)
XSA-1120 WATER PAN ASSY. (W/ PAN BOLTS)
X99-28 WATER PAN HOSE
X99-61 WASH UP BOTTLE

HAMADA 611/612 PARENT

ROLLERS

ALL UNITS AFTER SERIAL #9012-03267 (PARENT ONLY) HAVE A SOFT RUBBER PAN ROLLER AND A HARD METERING ROLLER. UNITS WITH PREVIOUS SERIAL NUMBERS MUST BE UPGRADED.

X07-0117	FORM ROLLER, SOFT
X07-0315NS	PAN ROLLER, SOFT
X07-0415	OSCILLATOR , HARD AFTER S/N # 9304-10172
X07-0408	OSCILLATOR, HARD BEFORE S/N # 9304-10172
XSA-070216NS	METERING ROLLER ASSY., HARD (ROLLER, SHAFT, BEARINGS, COLLARS)
XSA-070504	INTERMEDIATE ROLLER ASSY., SOFT (ROLLER, SHAFT, BEARINGS, COLLARS, ROLL PIN)
STCL6632	INTERMEDIATE ROLLER SHELL ONLY

GEARS

XSA-03211538	FORM GEAR ASSY. (GEAR W/ CLUTCH BEARING)
XSA-0321152N	EXTERIOR PAN & FORM GEAR ASSY. (GEAR W/ CLUTCH BEARING) (2 PER DAMPENER)
XSA-03211520	EXTERIOR IDLER GEAR ASSY. (2 PER DAMPENER) (GEAR, BEARING, SHOULDER BOLT)

SIDE FRAME ASSEMBLIES

XSA-010650NO	OPS SIDE FRAME ASSY. (FRAME W/ BEARINGS)
XSA-010650NN	NOPS SIDE FRAME ASSY. (FRAME W/ BEARINGS)

BEARINGS

AFTER SERIAL #9211-08645	
X06-108	SEALED BALL BEARING, SIDE FRAM (2 PER DAMPENER)
X06-346038*	THIN FLANGED BUSHIN (2 PER DAMPENER) *4 PER DAMPENER BEFORE SERIAL #9211-08645
X06-103	SEALED BALL BEARING, PIVOT (2 PER DAMPENER)

MISCELLANEOUS

XSA-9903	METERING THUMB SCREW ASSY. (THUMB SCREW, RACHET GEAR, SET SCREW)
X09-0101	COMPRESSION SPRING (2 PER DAMPENER)
XSA-1120	WATER PAN ASSY. (W/ PAN BOLTS)
X99-28	WATER PAN HOSE
X99-61	WASH UP BOTTLE

HAMADA 611/612 "E" SERIES PARENT

ROLLERS

ALL UNITS AFTER SERIAL #9012-03267 (PARENT ONLY) HAVE A SOFT RUBBER PAN ROLLER AND A HARD METERING ROLLER. UNITS WITH PREVIOUS SERIAL NUMBERS MUST BE UPGRADED.

X07-0116	FORM ROLLER, SOFT
X07-0315NS	PAN ROLLER, SOFT
X07-0415	OSCILLATOR ROLLER, HARD
XSA-070216NS	METERING ROLLER ASSY., HARD (ROLLER, SHAFT, BEARINGS, COLLARS)
XSA-070509	INTERMEDIATE ROLLER ASSY., SOFT (ROLLER, SHAFT, BEARINGS, COLLARS, ROLL PIN)

GEARS

XSA-03211538	FORM GEAR ASSY. (GEAR W/ CLUTCH BEARING)
XSA-0321152N	EXTERIOR PAN & FORM GEAR ASSY. (GEAR W/ CLUTCH BEARING) (2 PER DAMPENER)
XSA-03211520	EXTERIOR IDLER GEAR ASSY. (2 PER DAMPENER) (GEAR, BEARING, SHOULDER BOLT)

SIDE FRAME ASSEMBLIES

XSA-010650NO	OPS SIDE FRAME ASSY. (FRAME W/ BEARINGS)
XSA-010650NN	NOPS SIDE FRAME ASSY. (FRAME W/ BEARINGS)

BEARINGS

AFTER SERIAL #9211-08645	
X06-108	BALL BEARING, SIDE FRAME (2 PER DAMPENER)
X06-246038*	THICK FLANGED BUSHING (2 PER DAMPENER) *4 PER DAMPENER BEFORE SERIAL #9211-08645
X06-103	BALL BEARING, PIVOT (2 PER DAMPENER)

MISCELLANEOUS

XSA-9903	METERING THUMB SCREW ASSY. (THUMB SCREW, RACHET GEAR, SET SCREW)
X09-0101	COMPRESSION SPRING (2 PER DAMPENER)
XSA-1120	WATER PAN ASSY. (W/ PAN BOLTS)
X99-28	WATER PAN HOSE
X99-61	WASH UP BOTTLE

HAMADA 661/662 "E" SERIES SATELLITE

ROLLERS

X07-0121	FORM ROLLER, SOFT
X07-0319	PAN ROLLER, SOFT
X07-0418	OSCILLATOR ROLLER, HARD
XSA-070218NS	METERING ROLL ASSY., HARD (SHAFT, COLLARS)

SIDE FRAME ASSEMBLIES

XSA-010113	OPS SIDE FRAME ASSY. (FRAME W/ BEARINGS)
XSA-010114	NOPS SIDE FRAME ASSY. (FRAME W/ BEARINGS)

GEARS

XSA-03211538	FORM GEAR ASSY. (GEAR W/ CLUTCH BEARING)
XSA-03211530	PAN GEAR ASSY. (GEAR W/ CLUTCH BEARING)
XSA-03210526	IDLER GEAR ASSY. (SPOOL, BUSHING, BOLT)

BEARINGS

AFTER SERIAL #9211-08613	
X06-108	BALL BEARING, SIDE FRAME (4 PER DAMPENER)
BEFORE SERIAL #9211-08613	
X06-346038	THIN FLANGED BUSHING (4 PER DAMPENER)
X06-103	BALL BEARING, PIVOT (2 PER DAMPENER)

MISCELLANEOUS

XSA-9999	METERING THUMB SCREW ASSY. (THUMB SCREW, RACHET GEAR, SET SCREW)
XSA-1121	WATER PAN ASSY. (W/ PAN BOLTS)
X99-28	WATER PAN HOSE
X99-61	WASH UP BOTTLE

HAMADA 661/662 SATELLITE

ROLLERS

X07-0120 FORM ROLLER, SOFT
 X07-0319 PAN ROLLER, SOFT
 X07-0417 OSCILLATOR ROLLER, HARD
 XSA-070218NS METERING ROLLER ASSY., HARD
 (ROLLER, SHAFT, COLLARS)

SIDE FRAME ASSEMBLIES

XSA-010113 OPS SIDE FRAME ASSY.
 (SIDE FRAME W/ BEARINGS)
 XSA-010114 NOPS SIDE FRAME ASSY.
 (SIDE FRAME W/ BEARINGS)

GEARS

XSA-03211538 FORM GEAR ASSY.
 (GEAR W/ CLUTCH BEARING)
 XSA-03211530 PAN GEAR ASSY.
 (GEAR W/ CLUTCH BEARING)
 XSA-03210526 IDLER GEAR ASSY.
 (GEAR, SPOOL, BUSHING, BOLT, WASHERS)

BEARINGS

AFTER SERIAL #9211-08613
 X06-108 SEALED BALL BEARING, SIDE FRAME
 (4 PER DAMPENER)
 BEFORE SERIAL #9211-08613
 X06-346038 THIN FLANGED BUSHING
 (4 PER DAMPENER)
 X06-103 SEALED BALL BEARING, PIVOT
 (2 PER DAMPENER)

MISCELLANEOUS

XSA-9999 METERING THUMB SCREW ASSY.
 (THUMB SCREW, RACHET GEAR, SET SCREW)
 XSA-1121 WATER PAN ASSY.
 (W/ PAN BOLTS)
 X99-28 WATER PAN HOSE
 X99-61 WASH UP BOTTLE

HAMADA 665 NEW STYLE SATELLITE

ROLLERS

X07-0107 FORM ROLLER, SOFT
 X07-0306 PAN ROLLER, SOFT
 X07-0437 OSCILLATOR ROLLER, HARD
 XSA-070205 METERING ROLLER ASSY., HARD
 (ROLLER, SHAFT, E-CLIPS)

SIDE FRAME ASSEMBLIES

XSA-010129 OPS SIDE FRAME ASSY.
 (SIDE FRAME W/ BEARINGS)
 XSA-010130 NOPS SIDE FRAME ASSY.
 (SIDE FRAME W/ BEARINGS)

GEARS

XSA-03211532 PAN GEAR ASSY.
 (GEAR W/ CLUTCH BEARING)

GEARS CONTINUED

XSA-032315HM IDLER GEAR ASSY.
 (GEAR, BEARING, SHOULDER BOLT)

SEALED BALL BEARINGS

X06-108 SEALED BALL BEARING, SIDE FRAME
 (2 PER DAMPENER)
 X06-138 SEALED BALL BEARING, TIE BAR/
 LIFT SHAFT (2 PER DAMPENER)
 X06-103 SEALED BALL BEARING, ENDS OF
 PAN ROLLER (2 PER DAMPENER)

MISCELLANEOUS

X09-0101 COMPRESSION SPRING (2 PER DAMPENER)
 XSA-1113 WATER PAN ASSY. (W/ PAN BOLTS)
 X99-61 WASH UP BOTTLE

HAMADA 665 OLD STYLE SATELLITE

ROLLERS

ALL UNITS AFTER SERIAL #9012-03267 HAVE A SOFT RUBBER PAN ROLLER AND A HARD METERING ROLLER. UNITS WITH PREVIOUS SERIAL NUMBERS MUST BE UPGRADED.

X07-0113 FORM ROLLER, SOFT
 X07-0312NS PAN ROLLER, SOFT
 X07-0412 OSCILLATOR ROLLER, HARD
 XSA-070213NS METERING ROLLER ASSY., HARD
 (ROLLER, SHAFT, E-CLIPS)

GEARS

XSA-03211538 FORM GEAR ASSY.
 (GEAR W/ CLUTCH BEARING)
 XSA-03211530 PAN GEAR ASSY.
 (GEAR W/ CLUTCH BEARING)
 XSA-032115HM IDLER GEAR ASSY.
 (GEAR, BEARING, BOLT)

SIDE FRAME ASSEMBLIES

XSA-010113 OPS SIDE FRAME ASSY.
 (SIDE FRAME W/ BEARINGS)
 XSA-010114 NOPS SIDE FRAME ASSY.
 (SIDE FRAME W/ BEARINGS)

SIDE FRAME BEARINGS

AFTER SERIAL #9111-08613
 X06-108 SEALED BALL BEARING, SIDE FRAME
 (4 PER DAMPENER)
 BEFORE SERIAL #9111-08613
 X06-246038 THICK FLANGED BUSHING (4 PER DAMPENER)

MISCELLANEOUS

XSA-9999 METERING THUMB SCREW ASSY.
 (THUMB SCREW, RACHET GEAR, SET SCREW)
 X09-0101 COMPRESSION SPRING (2 PER DAMPENER)
 XSA-1119 WATER PAN ASSY. (W/ PAN BOLTS)
 X99-61 WASH UP BOTTLE

HAMADA 700/E-47 PARENT

ROLLERS

ALL UNITS AFTER SERIAL #9015-04273 (PARENT ONLY) HAVE A SOFT RUBBER PAN ROLLER AND A HARD METERING ROLLER. UNITS WITH PREVIOUS SERIAL NUMBERS MUST BE UPGRADED.

X07-0110 FORM ROLLER, SOFT
 X07-0309NS PAN ROLLER, SOFT
 X07-0409 OSCILLATOR ROLLER, HARD
 XSA-070210NS METERING ROLLER ASSY., HARD
 (ROLLER, SHAFT, BEARINGS, COLLARS)
 XSA-070505 INTERMEDIATE ROLLER ASSY., SOFT
 (ROLLER, SHAFT, BEARINGS, COLLARS, ROLL PIN)
 STCL7732 INTERMEDIATE ROLL SHELL ONLY

GEARS

XSA-03211538 FORM GEAR ASSY.
 (GEAR W/ CLUTCH BEARING)
 XSA-0321152N EXTERIOR PAN & FORM GEAR ASSY.
 (GEAR W/ CLUTCH BEARING)
 (2 PER DAMPENER)
 XSA-03211520 EXTERIOR IDLER GEAR ASSY.
 (GEAR, BEARING, SHOULDER BOLT)
 (2 PER DAMPENER)

SIDE FRAME ASSEMBLIES

XSA-010650NO OPS SIDE FRAME ASSY.
 (SIDE FRAME W/ BEARINGS)
 XSA-010650NN NOPS SIDE FRAME ASSY.
 (SIDE FRAME W/ BEARINGS)

BEARINGS

AFTER SERIAL #9211-08645
 X06-108 SEALED BALL BEARING, SIDE FRAME
 (2 PER DAMPENER)
 X06-346038* THIN FLANGED BUSHING
 (2 PER DAMPENER)
 *4 PER DAMPENER BEFORE SERIAL #9211-08645
 X06-103 SEALED BALL BEARING, PIVOT
 (2 PER DAMPENER)

MISCELLANEOUS

XSA-9903 METERING THUMB SCREW ASSY.
 (THUMB SCREW, RACHET GEAR, SET SCREW)
 X09-0102 COMPRESSION SPRING (2 PER DAMPENER)
 XSA-1111 WATER PAN ASSY. (W/ PAN BOLTS)
 X99-28 WATER PAN HOSE
 X99-61 WASH UP BOTTLE

HAMADA 775/E-47S NEW STYLE SATELLITE

ROLLERS

X07-0142 FORM ROLLER, SOFT
 X07-0349 PAN ROLLER, SOFT
 X07-0438 OSCILLATOR ROLLER, HARD
 XSA-070206 METERING ROLLER ASSY., HARD
 (ROLLER, SHAFT, E-CLIPS)

SIDE FRAME ASSEMBLIES

XSA-010129 OPS SIDE FRAME ASSY. (FRAME W/ BEARINGS)
 XSA-010130 NOPS SIDE FRAME ASSY. (FRAME W/ BEARINGS)

GEARS

XSA-03211532 PAN GEAR ASSY. (GEAR W/ CLUTCH BEARING)
 XSA-032315HM IDLER GEAR ASSY.
 (GEAR, BEARING, SHOULDER BOLT)

SEALED BALL BEARINGS

X06-108 SEALED BALL BEARING, SIDE FRAME
 (2 PER DAMPENER)
 X06-138 SEALED BALL BEARING, TIE BAR/
 LIFT SHAFT (2 PER DAMPENER)
 X06-103 SEALED BALL BEARING, ENDS OF
 PAN ROLLER (2 PER DAMPENER)

MISCELLANEOUS

X09-0101 COMPRESSION SPRING (2 PER DAMPENER)
 XSA-111 WATER PAN ASSY. (W/ PAN BOLTS)
 X99-61 WASH UP BOTTLE

HAMADA 775/E-47S OLD STYLE SATELLITE

ROLLERS

X07-0114 FORM ROLLER, SOFT
 X07-0313NS PAN ROLLER, SOFT
 X07-0413 OSCILLATOR ROLLER, HARD
 XSA-070214NS METERING ROLLER ASSY., HARD
 (ROLLER, SHAFT, E-CLIPS)

SIDE FRAME ASSEMBLIES

XSA-010113 OPS SIDE FRAME ASSY. (FRAME W/ BEARINGS)
 XSA-010114 NOPS SIDE FRAME ASSY. (FRAME W/ BEARINGS)

GEARS

XSA-03211538 FORM GEAR ASSY. (GEAR W/ CLUTCH BEARING)
 XSA-03211530 PAN GEAR ASSY. (GEAR W/ CLUTCH BEARING)
 XSA-032115HM IDLER GEAR ASSY. (GEAR, BEARING, BOLT)

SIDE FRAME BEARINGS

AFTER SERIAL #9111-08613
 X06-108 SEALED BALL BEARING, SIDE FRAME
 (4 PER DAMPENER)
 BEFORE SERIAL #9111-08613
 X06-346038 THIN FLANGED BUSHING
 (4 PER DAMPENER)

MISCELLANEOUS

XSA-9999 METERING THUMB SCREW ASSY.
 (THUMB SCREW, RACHET GEAR, SET SCREW)
 X09-0101 COMPRESSION SPRING (2 PER DAMPENER)
 XSA-1116 WATER PAN ASSY.
 (W/ PAN BOLTS)
 X99-61 WASH UP BOTTLE

HAMADA H234

ROLLERS

X07-0144 FORM ROLLER, SOFT
 XSA-070351 PAN ROLLER, HARD
 X07-0445 OSCILLATOR, HARD
 XSA-070241 METERING ROLLER, SOFT
 (ROLLER, SHAFT, BEARINGS, SNAP RINGS)
 STCL2351 METERING ROLLER SHELL ONLY
 XSA-070532 INTERMEDIATE ROLLER, SOFT
 (ROLLER, SHAFT, BEARINGS, SNAP RINGS)
 STCL2330 INTERMEDIATE ROLLER SHELL ONLY
 X07-0446 OSCILLATING RIDER ROLL, HARD (OPTIONAL)

SIDE FRAMES

XSA-010155 NOPS SIDE FRAME ASSY
 (SIDE FRAME W/ BEARINGS)
 XSA-010154 OPS SIDE FRAME ASSY
 (SIDE FRAME W/ BEARINGS)

MISCELLANEOUS

XSA-1132 WATER PAN ASSY
 X99-61 WASH UP BOTTLE

HAMADA C248

ROLLERS

X07-0145 FORM ROLLER, SOFT
 X07-0330 PAN ROLLER, HARD
 XSA-070228 METERING ROLLER ASSY., SOFT
 (ROLLER, SHAFT, BEARINGS, SNAP RINGS)
 STCL2451 METERING ROLLER SHELL ONLY
 XSA-070529 INTERMEDIATE ROLLER ASSY., SOFT
 (ROLLER, SHAFT, BEARINGS, COLLARS)
 STCL2430 INTERMEDIATE ROLLER SHELL ONLY
 X07-0439* AUXILIARY OSCILLATOR ROLLER
 LARGE GEAR DRIVEN OSCILLATOR MUST BE PURCHASED FROM
 HAMADA

SEALED BALL BEARINGS

X06-111 SEALED BALL BEARING, SIDE FRAME
 (2 PER DAMPENER)
 X06-112 SEALED BALL BEARING, PAN ROLLER
 (2 PER DAMPENER)

UPGRADES

XSA-248HANGER METERING ROLLER ADJUSTMENT
 HANGERS & SHORT KNOBS

MISCELLANEOUS

X99-61 WASH UP BOTTLE

GEARS

XSA-03231535 PAN GEAR ASSY.
 (GEAR W/ CLUTCH BEARING)
 XSA-03231526 NARROW IDLER GEAR ASSY.
 (GEAR, BEARING, SHOULDER BOLT)
 XSA-03212526 WIDE IDLER GEAR ASSY.
 (GEAR W/ 2 BALL BEARINGS)

HAMADA C252

ROLLERS

X07-0146 FORM ROLLER, SOFT
 X07-0354 PAN ROLLER, HARD
 X07-0448 OSCILLATOR ROLLER, HARD
 XSA-070220SC METERING ROLLER ASSY., SOFT
 (ROLLER, SHAFT, BEARINGS, SNAP RINGS)
 XSA-0705150SC INTERMEDIATE ROLLER ASSY., SOFT
 (ROLLER, SHAFT, BEARINGS, COLLARS)
 X07-0603 RIDER ROLLER

SEALED BALL BEARINGS

X06-111 SEALED BALL BEARING, SIDE FRAME
 (2 PER DAMPENER)
 X06-112 SEALED BALL BEARING, PAN ROLLER
 (2 PER DAMPENER)
 X06-113 SEALED BALL BEARING, WATER FORM
 (2 PER DAMPENER)

MISCELLANEOUS

XSA-1144 WATER PAN
 X99-90 WATER PAN BOLTS, SHORT
 (2 PER WATER PAN)
 X99-61 WASH UP BOTTLE

GEARS

XSA-03231535 PAN GEAR ASSY.
 (GEAR W/ CLUTCH BEARING)
 XSA-03231526 NARROW IDLER GEAR ASSY.
 (GEAR, BEARING, SHOULDER BOLT)
 XSA-03212526 WIDE IDLER GEAR ASSY.
 (GEAR W/ 2 BALL BEARINGS)

HAMADA RS34 / VS34 SATELLITE, DU34 LOWER

ROLLERS

X07-0143 FORM ROLLER, SOFT
 X07-0350 PAN ROLLER, HARD
 X07-0444 OSCILLATOR/BRIDGE ROLLER, HARD
 XSA-070240 METERING ROLLER ASSY., SOFT
 (ROLLER, SHAFT, WASHERS, RINGS, ROLL PIN)
 STCL3452 METERING ROLLER SHELL ONLY
 XSA-070533 LOWER INTERMED. ROLLER ASSY., HARD
 (ROLLER, SHAFT, WASHERS, RINGS, ROLL PIN)
 STCL3430 LOWER INTERMEDIATE SHELL ONLY
 XSA-070538 UPPER INTERMEDIATE ROLLER ASSY., SOFT
 (ROLLER, SHAFT, WASHERS, RINGS, ROLL PIN)
 STCL3451 UPPER INTERMEDIATE SHELL ONLY

GEARS

XSA-039901 IDLER GEAR ASSY. (2 PER DAMP.)
 (GEAR, BEARING, SHOULDER BOLT)
 XSA-03241530 PAN DRIVE GEAR ASSY.
 (GEAR W/ CLUTCH BEARING)
 XSA-03241538 FORM DRIVE GEAR ASSY.
 (GEAR W/ CLUTCH BEARING)

SIDE FRAME ASSEMBLIES

XSA-010145P OPS SIDE FRAME ASSY.
 (SIDE FRAME W/ BEARINGS)
 XSA-010145N NOPS SIDE FRAME ASSY.
 (SIDE FRAME W/ BEARINGS)

SEALED BALL BEARINGS

X06-113 SEALED BALL BEARING, SIDE FRAME
 (4 PER DAMPENER)
 X06-101 BEARING, PIVOT (2 PER DAMPENER)

MISCELLANEOUS

XSA-9937M METERING THUMB SCREW ASSY.
 (THUMB SCREW, RACHET GEAR, SET SCREW)
 XSA-1142 WATER PAN ASSY.
 (W/ PAN BOLTS)
 XSA-1150 WATER PAN ASSY. PHASE II
 (W/ PAN BOLTS)
 X99-61 WASH UP BOTTLE
 X99-306 MOUNTING FRAME CAP PHASE II

HAMADA RS34 / VS34 PARENT, DU34 UPPER

ROLLERS

X07-0143 FORM ROLLER, SOFT
 X07-0350 PAN ROLLER, HARD
 X07-0442 OSCILLATOR/BRIDGE ROLLER, HARD
 XSA-070538 METERING ROLLER ASSY., SOFT
 (ROLLER, SHAFT, BEARINGS, RINGS, ROLL PIN)
 STCL3451 METERING ROLLER SHELL ONLY
 XSA-070533 INTERMEDIATE ROLLER ASSY., HARD
 (ROLLER, SHAFT, BEARINGS, RINGS, ROLL PIN)
 STCL3430 INTERMEDIATE ROLLER SHELL ONLY

GEARS

XSA-039901 IDLER GEAR ASSY. (REQUIRES QTY. 2)
 (GEAR, BEARING, SHOULDER BOLT)
 XSA-03241530 PAN DRIVE GEAR ASSY.
 (GEAR W/ CLUTCH BEARING)
 XSA-03241538 FORM DRIVE GEAR (GEAR W/ CLUTCH BEARING)

SIDE FRAMES ASSEMBLIES

XSA-010153P OPS SIDE FRAME ASSY.(FRAME W/BEARINGS)
 XSA-01053N NOPS SIDE FRAME ASSY.(FRAME W/BEARINGS)

SEALED BALL BEARINGS

X06-113 SEALED BALL BEARING, SIDE FRAME
 (4 PER DAMPENER)
 X06-101 SEALED BALL BEARING, PIVOT
 (2 PER DAMPENER)

MISCELLANEOUS

XSA-9903 METERING THUMB SCREW ASSY.
 (THUMB SCREW, RACHET GEAR, SET SCREW)
 XSA-1115 WATER PAN ASSY.
 (W/ PAN BOLTS)
 X99-61 WASH UP BOTTLE

HAMADA RS34 / VS34 PARENT, DU34 UPPER, PHASE II

ROLLERS

X07-0143 FORM ROLLER, SOFT
 X07-0350 PAN ROLLER, HARD
 X07-0444 OSCILLATOR/BRIDGE ROLLER, HARD
 XSA-070538 METERING ROLLER ASSY., SOFT
 (ROLLER, SHAFT, BEARINGS, RINGS, ROLL PIN)
 XSA-070533 LOWER INTERMEDIATE ROLLER ASSY., HARD
 (ROLLER, SHAFT, BEARINGS, RINGS, ROLL PIN)

GEARS

XSA-039901 IDLER GEAR ASSY. (2 PER DAMP.)
 (GEAR, BEARING, SHOULDER BOLT)
 XSA-03241530 PAN DRIVE GEAR ASSY.
 (GEAR W/ CLUTCH BEARING)
 XSA-03001 FORM DRIVE GEAR (GEAR W/ CLUTCH BEARING)

SIDE FRAMES ASSEMBLIES

XSA-010153P OPS SIDE FRAME ASSY. (FRAME W/BEARINGS)
 XSA-01053N NOPS SIDE FRAME ASSY. (FRAME W/BEARINGS)

SEALED BALL BEARINGS

X06-113 BALL BEARING, SIDE FRAME (4 PER DAMPENER)
 X06-101 BALL BEARING, PIVOT (2 PER DAMPENER)

MISCELLANEOUS

XSA-9903 METERING THUMB SCREW ASSY.
 (THUMB SCREW, RACHET GEAR, SET SCREW)
 XSA-1148 WATER PAN ASSY. (W/ PAN BOLTS)
 X99-61 WASH UP BOTTLE

HEIDELBERG GTO 46 OLD STYLE

ROLLERS

XSA-070140 WATER FORM ASSY. / UPGRADE
 (ROLLER, GEARS, KEYS)
 X07-0316 PAN ROLLER, HARD
 X07-0416 OSCILLATOR ROLLER, HARD
 XSA-070217 METERING ROLLER ASSY., SOFT
 (ROLLER, SHAFT, BEARINGS, COLLARS)
 XSA-070510 LOWER INTERMED. ASSY., HARD
 (ROLLER, SHAFT, BEARINGS, COLLARS, ROLL PIN)
 XSA-070511 UPPER INTERMEDIATE ASSY., SOFT
 (ROLLER, SHAFT, BEARINGS, COLLARS, ROLL PIN)

SIDE FRAMES

X01-0117 OPS SIDE FRAME
 X01-0120 NOPS SIDE FRAME
 EACH SIDE FRAME REQUIRES (1):
 X06-346038 THIN FLANGED BUSHING

UPGRADES

XSA-HEIDHANGERS SPRING LOADED METERING/INTERMEDIATE
 HANGERS UPGRADE (DOES SINGLE UNIT)

MISCELLANEOUS

X06-107 SEALED BALL BEARING, FORM
 & PAN ROLLERS
 XSA-1122 WATER PAN ASSY.
 (W/ PAN BOLTS)
 X99-29 WATER PAN HOSE
 XSA-9905 WATER BOTTLE (W/ CAP)
 X99-61 WASH UP BOTTLE

HEIDELBERG GTO 46 ALTRA

ROLLERS

X07-0131 FORM ROLLER, SOFT
 X07-0316 PAN ROLLER, HARD
 X07-0427 OSCILLATOR ROLLER, HARD
 XSA-070217OSC METERING ROLLER ASSY., SOFT
 (ROLLER, SHAFT, BEARINGS, SNAP RINGS)
 XSA-070511OSC INTERMEDIATE ASSY., SOFT
 (ROLLER, SHAFT, BEARINGS, COLLARS, ROLL PIN)
 X07-0440 AUX. RIDER
 XSA-070440 AUX. RIDER KIT
 (INCLUDES BRACKET & SPRING ASSEMBLY)

SPECIAL NOTATION!!

**THESE PART NUMBERS APPLY TO ALL MODELS WITH SERIAL
 NUMBER 9302-09604 AND HIGHER EXCEPT AS FOLLOWS:
 9303-09553, 9303-09642 TO 9303-09645, 9303-09804 TO 9303-09807,
 9306-10605, 9306-10606, 9307-10864**

UPGRADES

XSA-HEHANGALTRA ADJUSTABLE METERING/INTERMEDIATE
 PRESSURE (DOES SINGLE UNIT) NEEDED ON
 SERIAL #9409-... & LOWER

SIDE FRAME ASSEMBLIES

XSA-010135 OPS SIDE FRAME W/ BEARING
 XSA-010136 NOPS SIDE FRAME W/ BEARING

MISCELLANEOUS

X09-0101 COMPRESSION SPRINGS
 (2 PER DAMPENER)
 X06-103 SEALED BALL BEARING, PIVOT
 (2 PER DAMPENER)
 XSA-1122 WATER PAN ASSY.
 (W/ PAN BOLTS)
 X99-29 WATER PAN HOSE
 XSA-9905 WATER BOTTLE (W/CAP)
 X99-61 WASH UP BOTTLE

HEIDELBERG GTO 52 OLD STYLE

ROLLERS

XSA-070141 WATER FORM ASSY. / UPGRADE
 (ROLLER, GEARS, KEYS)
 X07-0320 PAN ROLLER, HARD
 X07-0419 OSCILLATOR ROLLER, HARD
 XSA-070220 METERING ROLLER ASSY., SOFT
 (ROLLER, SHAFT, BEARINGS, COLLARS)
 XSA-070516 LOWER INTERMED. ASSY., HARD
 (ROLLER, SHAFT, BEARINGS, COLLARS, ROLL PIN)
 XSA-070515 UPPER INTERMEDIATE ASSY., SOFT
 (ROLLER, SHAFT, BEARINGS, COLLARS, ROLL PIN)

SIDE FRAMES

X01-0117 OPS SIDE FRAME
 X01-0120 NOPS SIDE FRAME
 EACH SIDE FRAME REQUIRES (1):
 X06-346038 THIN FLANGED BUSHING

UPGRADES

XSA-HEIDHANGERS SPRING LOADED METERING/INTERMEDIATE
 HANGERS UPGRADE (DOES SINGLE UNIT)

MISCELLANEOUS

X06-107 SEALED BALL BEARING, FORM
 & PAN ROLLERS
 XSA-1125 WATER PAN ASSY.
 (W/ PAN BOLTS)
 X99-29 WATER PAN HOSE
 XSA-9905 WATER BOTTLE (W/ CAP)
 X99-61 WASH UP BOTTLE

HEIDELBERG GTO 52 ALTRA

ROLLERS

X07-0130 FORM ROLLER, SOFT
 X07-0320 PAN ROLLER, HARD
 X07-0426 OSCILLATOR ROLLER, HARD
 XSA-070220OSC METERING ROLLER ASSY., SOFT
 (ROLLER, SHAFT, BEARINGS, SNAP RINGS)
 XSA-070515OSC INTERMEDIATE ASSY., SOFT
 (ROLLER, SHAFT, BEARINGS, COLLARS)
 XSA-070612 AUX. RIDER
 XSA-070441 AUX. RIDER KIT
 (INCLUDES BRACKET & SPRING ASSEMBLY)

UPGRADES

XSA-HEHANGALTRA ADJUSTABLE METERING/INTERMEDIATE
 PRESSURE (DOES SINGLE UNIT)
 NEEDED ON SERIAL #9409-. . . & LOWER

SIDE FRAME ASSEMBLIES

XSA-010135 OPS SIDE FRAME W/ BEARING
 XSA-010136 NOPS SIDE FRAME W/ BEARING

MISCELLANEOUS

X09-0101 COMPRESSION SPRINGS (2 PER DAMPENER)
 X06-103 BALL BEARING, PIVOT (2 PER DAMPENER)
 XSA-1125 WATER PAN ASSY. (W/ PAN BOLTS)
 X99-29 WATER PAN HOSE
 XSA-9905 WATER BOTTLE (W/CAP)
 X99-61 WASH UP BOTTLE

SPECIAL NOTATION!!

THESE PART NUMBERS APPLY TO ALL MODELS WITH SERIAL
 NUMBER 9302-09604 AND HIGHER EXCEPT AS FOLLOWS:
 9303-09553, 9303-09642 TO 9303-09645, 9303-09804 TO 9303-09807
 9306-10605, 9306-10606, 9307-10864

HEIDELBERG MO ALTRA

ROLLERS

X07-0137 FORM ROLLER, SOFT (W/ BEARINGS)
 X07-0339 PAN ROLLER, HARD
 X07-0433 OSCILLATOR ROLLER, HARD
 X07--0236 METERING ROLLER, SOFT (W/ BEARINGS)
 X07-0534 INTERMEDIATE ROLLER, SOFT (W/ BEARINGS)
 X07-0602 BRIDGE ROLLER

SIDE FRAME ASSEMBLIES

XSA-010149 OPS SIDE FRAME
 (SIDE FRAME, RING BUSHING)
 XSA-010150 NOPS SIDE FRAME W/ BEARING

BEARINGS

X06-101 SEALED BALL BEARING, METERING,
 INTERMEDIATE, AND BRIDGE ROLLERS
 X06-113 SEALED BALL BEARING, FORM ROLLER

UPGRADES

XSA-XRHE260 AUX. RIDER ROLLER KIT
 (DOES SINGLE UNIT)
 XSA-180351 CYLINDER GUARD LATCH KIT
 (DOES SINGLE UNIT)

MISCELLANEOUS

XSA-1137 WATER PAN ASSY. (W/ PAN BOLTS)
 X99-61 WASH UP BOTTLE

MULTI 1250 SINGLE & DUAL LEVER

ROLLERS

ALL UNITS AFTER SERIAL NUMBER 9108-04806 (PARENT ONLY) HAVE
 SOFT RUBBER PAN ROLLER AND A HARD RUBBER METERING ROLLER.
 OLD STYLE ROLLERS ARE NO LONGER AVAILABLE.

X07-0112 FORM ROLLER, SOFT (SET COLLAR 13-5043)
 X07-0311NS PAN ROLLER, SOFT (SET COLLAR 13-5022)
 X07-0411 OSCILLATOR ROLLER, HARD
 XSA-070212NS METERING ROLLER ASSY., HARD
 (ROLLER, SHAFT, CLIP, BEARING, COLLAR)
 XSA-070507 INTERMEDIATE ASSY., SOFT
 (ROLLER, SHAFT, CLIP, COLLAR, ROLL PIN)

GEARS CONTINUED

AXSA-03300517U UPPER IDLER GEAR ASSY.
 (GEAR W/ BUSHING, BOLT)
 XSA-03300517L LOWER IDLER GEAR ASSY.
 (GEAR, SPOOL, BUSHING, BOLT, WASHERS)

SIDE FRAME BEARINGS

AFTER SERIAL NUMBER 9206-07319
 X06-108 SEALED BALL BEARING
 (4 PER DAMPENER)
 BEFORE SERIAL NUMBER 9206-07319
 X06-346038 THIN FLANGED BUSHING
 (4 PER DAMPENER)

SIDE FRAME ASSEMBLIES

XSA-010110P OPS SIDE FRAME W/ BEARINGS
 XSA-010110N NOPS SIDE FRAME W/ BEARINGS

MISCELLANEOUS

XSA-9903 METERING THUMB SCREW ASSY.
 (THUMB SCREW, RACHET GEAR, SET SCREW)
 X09-0102 COMPRESSION SPRING
 XSA-1118 WATER PAN ASSY.
 (W/ PAN BOLTS)
 X99-28 WATER PAN HOSE
 XSA-9905 WATER BOTTLE (W/ CAP)
 X99-61 WASH UP BOTTLE

GEARS

XSA-03300540 FORM GEAR ASSY.
 (GEAR W/ CLUTCH BEARING)
 XSA-03300527 PAN GEAR ASSY.
 (GEAR W/ CLUTCH BEARING)

MULTI 1360/1650

ROLLERS

ALL UNITS NOW HAVE A SOFT RUBBER PAN ROLLER AND A HARD RUBBER METERING ROLLER. OLD STYLE ROLLERS (HARD PAN AND SOFT METERING) ARE NO LONGER AVAILABLE.

X07-0115A FORM ROLLER, SOFT
 X07-0314NS PAN ROLLER, SOFT
 X07-0414A OSCILLATOR ROLLER, HARD
 XSA-070215NS METERING ROLLER ASSY., HARD
 (ROLLER, SHAFT, CLIP, COLLAR)
 XSA-070508A INTERMEDIATE ASSY., SOFT
 (ROLLER, SHAFT, CLIP, COLLAR, ROLL PIN)

SIDE FRAME ASSEMBLIES

XSA-011010O OPS SIDE FRAME W/ BEARINGS
 XSA-011010N NOPS SIDE FRAME W/ BEARINGS

GEARS

XSA-0330054O FORM GEAR ASSY. (GEAR W/ CLUTCH BEARING)

GEARS CONTINUED

XSA-03300527 PAN GEAR ASSY. (GEAR W/ CLUTCH BEARING)
 XSA-03300517U UPPER IDLER GEAR (GEAR W/ BUSHING, BOLT)
 XSA-03300517L LOWER IDLER GEAR ASSY.
 (GEAR, SPOOL, BUSHING, BOLT, WASHERS)

SIDE FRAME BEARINGS

AFTER SERIAL NUMBER 9206-07319
 X06-108 SEALED BALL BEARING (4 PER DAMPENER)
 BEFORE SERIAL NUMBER 9206-07319
 X06-346038 THIN FLANGED BUSHING (4 PER DAMPENER)

MISCELLANEOUS

XSA-9903 METERING THUMB SCREW ASSY.
 (THUMB SCREW, RACHET GEAR, SET SCREW)
 WATER PAN
 X11-17 WATER PAN HOSE
 X99-28 WATER PAN HOSE
 XSA-9905 WATER BOTTLE (W/ CAP)
 X99-61 WASH UP BOTTLE

MULTI 1850

ROLLERS

X07-0110 FORM ROLLER, SOFT
 X07-0309NS PAN ROLLER, SOFT
 X07-0409 OSCILLATOR ROLLER, HARD
 XSA-070210NS METERING ROLLER ASSY., HARD
 (ROLLER, SHAFT, BEARING, COLLARS)
 XSA-070505 INTERMEDIATE ASSY., SOFT
 (ROLLER, SHAFT, BEARING, COLLARS, ROLL PIN)

SIDE FRAME ASSEMBLIES

XSA-010650NO OPS SIDE FRAME ASSY.
 (SIDE FRAME, BEARING, BUSHING)
 XSA-010650NN NOPS SIDE FRAME ASSY.
 (SIDE FRAME, BEARING, BUSHING)

GEARS

XSA-0330054O FORM GEAR ASSY. (GEAR W/ CLUTCH BEARING)
 XSA-0321152N EXT. PAN & FORM GEAR ASSY.
 (GEAR W/ CLUTCH BEARING)

GEARS CONTINUED

XSA-0321152O EXT. IDLER GEAR ASSY.
 (GEAR W/ BUSHING, BOLT)

SIDE FRAME BEARINGS

AFTER SERIAL NUMBER 9211-08645
 X06-108 SEALED BALL BEARING (2 PER DAMPENER)
 X06-246038 THICK FLANGED BUSHING, OPS (2 PER DAMP.)
 BEFORE SERIAL NUMBER 9211-08645
 X06-246038 THICK FLANGED BUSHING, OPS (4 PER DAMP.)

MISCELLANEOUS

XSA-9903 METERING THUMB SCREW ASSY.
 (THUMB SCREW, RACHET GEAR, SET SCREW)
 WATER PAN ASSY. (W/ PAN BOLTS)
 XSA-1111 WATER PAN HOSE
 X99-28 WATER PAN HOSE
 XSA-9905 WATER BOTTLE (W/ CAP)
 X99-61 WASH UP BOTTLE

MULTI 1960

ROLLERS

X07-0110 FORM ROLLER, SOFT
 X07-0309NS PAN ROLLER, SOFT
 X07-0409 OSCILLATOR ROLLER, HARD
 XSA-070210NS METERING ROLLER ASSY., HARD
 (ROLLER, SHAFT, CLIP, BEARING, COLLARS)
 XSA-070505 INTERMEDIATE ASSY., SOFT
 (ROLLER, SHAFT, BEARING, COLLARS, ROLL PIN)

SIDE FRAME ASSEMBLIES

X01-0140 OPS SIDE FRAME
 X01-0141 NOPS SIDE FRAME
 EACH SIDE FRAME REQUIRES 2:
 X06-108 SEALED BALL BEARINGS (2 PER SIDE FRAME)

GEARS

XSA-0330054O FORM GEAR ASSY.
 (GEAR W/ CLUTCH BEARING)
 XSA-0321152N EXT. PAN & FORM GEAR ASSY.
 (GEAR W/ CLUTCH BEARING)
 XSA-0321152O EXT. IDLER GEAR ASSY.
 (GEAR W/ BUSHING, BOLT)

MISCELLANEOUS

XSA-9903 METERING THUMB SCREW ASSY.
 (THUMB SCREW, RACHET GEAR, SET SCREW)
 XSA-1111 WATER PAN ASSY. (W/ PAN BOLTS)
 X99-28 WATER PAN HOSE
 XSA-9905 WATER BOTTLE (W/ CAP)

RYOBI 500N

ROLLERS

ALL UNITS AFTER SERIAL NUMBER 9110-05373 HAVE A SOFT RUBBER PAN ROLLER AND A HARD RUBBER METERING ROLLER. UNITS WITH PREVIOUS SERIAL NUMBERS MUST BE UPGRADED.

X07-0108 FORM ROLLER, SOFT
X07-0307NS PAN ROLLER, SOFT
X07-0407 OSCILLATOR ROLLER, HARD
XSA-070207NS METERING ROLLER ASSY., HARD
(ROLLER, SHAFT, BEARINGS, COLLARS)
XSA-070503 INTERMEDIATE ROLLER ASSY., SOFT
(ROLLER, SHAFT, BEARINGS, COLLARS, ROLL PIN)

SIDE FRAME ASSEMBLIES

XSA-010650NO OPS SIDE FRAME ASSY.
(SIDE FRAME W/ BEARINGS)
XSA-010650NN NOPS SIDE FRAME ASSY.
(SIDE FRAME W/ BEARINGS)

GEARS

XSA-0321152N EXT. PAN & FORM GEAR ASSY.
(GEAR W/ CLUTCH BEARING)
XSA-03211538 INT. FORM GEAR ASSY.
(GEAR W/ CLUTCH BEARING)
XSA-03211520 EXT. IDLER GEAR ASSY.
(GEAR, BUSHING, BOLT) (2 PER DAMPENER)

SIDE FRAME BEARINGS

AFTER SERIAL #9211-08645
X06-108 SEALED BALL BEARING
(REQUIRES QTY. 4)
BEFORE SERIAL #9211-08645
X06-346038 THIN FLANGED BUSHING
(REQUIRES QTY. 4)

MISCELLANEOUS

XSA-9903 METERING THUMB SCREW ASSY.
(THUMB SCREW, RACHET GEAR, SET SCREW)
XSA-1106 WATER PAN ASSY.
(W/ BOTTLE BRACKET & PAN BOLTS)
X99-29 WATER PAN HOSE
XSA-9905 WATER BOTTLE (W/ CAP)
X99-61 WASH UP BOTTLE

RYOBI 512 / A. B. DICK 6020 ALTRA SERIES

ROLLERS

X07-0138 FORM ROLLER, SOFT
X07-0347 PAN ROLLER, HARD
X07-0435 OSCILLATOR ROLLER, HARD
XSA-07005 METERING ROLLER ASSY., SOFT
(ROLLER, SHAFT, BEARINGS, SNAP RINGS)
XSA-070535 INTERMED. ROLLER ASSY., SOFT
(ROLLER, TIE BAR, BEARINGS, WASHERS)
XSA-070607 RIDER ROLLER ASSY. (ROLLER, SHAFT, BEARINGS,
COLLARS, END BUSHINGS)

SIDE FRAME ASSEMBLIES

XSA-010151 OPS SIDE FRAME ASSY.
(SIDE FRAME W/ BEARING)
XSA-010152 NOPS SIDE FRAME
(SIDE FRAME W/ BEARING)

GEARS

XSA-0323150SC PAN ROLLER DRIVE GEAR ASSY.
(GEAR W/ CLUTCH BEARING)
XSA-03002 IDLER GEAR ASSY. (LARGE DIAMETER)
(GEAR W/ BEARING)
XSA-03003 IDLER GEAR ASSY. (SMALL DIAMETER)
(GEAR W/ BEARING)
XSA-03004 #1 UNIT DRIVE SHAFT GEAR ASSY.
(GEAR, SPOOL, ROLL PIN)
XSA-03005 #2 UNIT DRIVE SHAFT GEAR ASSY.
(GEAR, SPOOL, ROLL PIN)
X03-211530K #1 UNIT INTERNAL DAMPENER DRIVE GEAR
X03-211526K #2 UNIT INTERNAL DAMPENER DRIVE GEAR

SEALED BALL BEARINGS

X06-101 SEALED BALL BEARING, PAN ROLLER
X06-120 SEALED BALL BEARING, SIDE FRAME
(2 PER DAMPENER)

MISCELLANEOUS

XSA-99192 METERING KNOB ASSY.
(THUMB SCREW, RATCHET GEAR, SET SCREW)
XSA-11512 WATER PAN ASSY.
(W/ PAN BOLTS)
X99-61 WASH UP BOTTLE

RYOBI 2700/2800 ITEK 950/960

ROLLERS

ALL UNITS AFTER SERIAL NUMBER 9008-02409 HAVE A SOFT RUBBER PAN ROLLER AND A HARD RUBBER METERING ROLLER. UNITS WITH PREVIOUS SERIAL NUMBERS MUST BE UPGRADED.

X07-0102 FORM ROLLER, SOFT
 X07-0301NS PAN ROLLER, SOFT
 X07-0401 OSCILLATOR ROLLER, HARD
 XSA-070201NS METERING ROLLER ASSY., HARD
 (ROLLER, SHAFT, BEARINGS, SLEEVES)
 STCL3651 METERING ROLLER SHELL ONLY

HANGER BRACKET KIT

XSA-STDHANGERS OPS & NOPS HANGER ASSY.
 (KIT DOES BOTH HANGERS)

GEARS

XSA-03211526 PAN GEA RASSY
 (GEAR W/ CLUTCH BEARING)
 XSA-03211538 FORM GEAR ASSY
 (GEAR W/ CLUTCH BEARING)
 XSA-03211520 IDLER GEAR ASSY
 (GEAR W/ BUSHING, BOLT)

SIDE FRAME ASSEMBLIES

XSA-010328O OPS SIDE FRAME ASSY.
 (SIDE FRAME W/ BEARINGS)
 XSA-010328N NOPS SIDE FRAME ASSY.
 (SIDE FRAME W/ BEARINGS)

SIDE FRAME BEARINGS

AFTER SERIAL #9212-08950
 X06-108 SEALED BALL BEARIN
 (REQUIRES QTY. 4)
 BEFORE SERIAL #9212-08950
 X06-346038 THIN FLANGED BUSHIN
 (REQUIRES QTY. 4)

MISCELLANEOUS

XSA-9903 METERING THUMB SCREW ASSY.
 (THUMB SCREW, RACHET GEAR, SET SCREW)
 X09-0201 COMPRESSION SPRING
 XSA-1101 WATER PAN ASSY
 (W/BOTTLE BRACKET & PAN BOLTS)
 X99-28 WATER PAN HOSE
 XSA-9905 WATER BOTTLE (W/ CAP)
 X99-61 WASH UP BOTTLE

RYOBI 2800 / ITEK 960 T-51®

ROLLERS

X07-51113 FORM ROLLER, SOFT
 XSA-070221NS METERING ROLLER ASSY., HARD
 (ROLLER, SHAFT, COLLARS, ROLL PIN)
 X07-0323NS PAN ROLLER, SOFT
 XSA-070518 UPPER INTERMED.ASSY., SOFT STATIONARY T-51
 (ROLLER, SHAFT, COLLARS)
 XSA-070518SW UPPER INTERMED.ASSY., SOFT SWING-AWAY T-51
 (ROLLER, SHAFT, COLLARS)
 X07-51120 LOWER INTERMEDIATE ROLLER, SOFT
 X07-0401 OSCILLATOR ROLLER, HARD

MISCELLANEOUS

XSA-1127 WATER PAN ASSY. STATIONARY T-51
 (W/ PAN BOLTS)
 XSA-1127 SW WATER PAN ASSY. SWING-AWAY T-51
 (W/ PAN BOLTS)
 X99-28 WATER PAN HOSE
 X99-61 WASH UP BOTTLE

RYOBI 2800 S1 T HEAD

ROLLERS

X07-0161 FORM ROLLER, SOFT
 X07-0365 PAN ROLLER, SOFT
 X07-0460 OSCILLATOR ROLLER, HARD
 XSA-07023 METERING ROLLER ASSY., HARD
 (ROLLER, SHAFT, BEARINGS, SLEEVES)
 XSA-07021 INTERMEDIATE ROLLER ASSY.
 XSA-07022 RIDER ROLLER ASSY. SOFT

SIDE FRAME ASSEMBLIES

XSA-010190 OPS SIDE FRAME ASSY.
 (BEARING & ROLL PIN)
 XSA-010191 NOPS SIDE FRAME ASSY.
 (BEARING & ROLL PIN)

SIDE FRAME BEARINGS

X06-107 SEALED BALL BEARING

GEARS

XSA-03012 PAN GEAR ASSY. (GEAR W/CLUTCH BEARING)
 XSA-03013 IDLER GEAR ASSY. (2 PER UNIT)
 (GEAR ,BUSHINGS & SHOULDER BOLT)
 XSA-012 24 TOOTH DRIVE GEAR
 XSA-03014 22 TOOTH IDLER GEAR
 (GEAR, BUSHING & SHOULDER BOLT)

MISCELLANEOUS

XSA-1160 WATER PAN ASSY. (W/ BRACKET & PAN BOLTS)
 X99-123 WATER PAN BOLT
 X09-0206 COMP. SPRING SIDE FRAME
 X18-0711 SAFETY COVER
 X99-28 WATER HOSE
 X99-61 WASH UP BOTTLE

RYOBI 3200 / ITEK 975

ROLLERS

ALL UNITS AFTER SERIAL NUMBER 9008-02468 HAVE A SOFT RUBBER PAN ROLLER AND A HARD RUBBER METERING ROLLER. UNITS WITH PREVIOUS SERIAL NUMBERS MUST BE UPGRADED.

X07-0103 FORM ROLLER, SOFT
 X07-0302NS PAN ROLLER, SOFT
 X07-0402 OSCILLATOR ROLLER, HARD
 XSA-070202NS METERING ROLLER ASSY., HARD
 (ROLLER, SHAFT, BEARINGS, SLEEVES)
 STCL3252 METERING ROLLER SHELL ONLY

HANGER BRACKET KIT

XSA-STDHANGERS OPS & NOPS HANGER ASSY.
 (KIT DOES BOTH HANGERS)

GEARS

XSA-03211526 PAN GEAR ASSY. (GEAR W/ CLUTCH BEARING)
 XSA-03211538 FORM GEAR ASSY.
 (GEAR W/ CLUTCH BEARING)
 XSA-03211520 IDLER GEAR ASSY. (GEAR W/BUSHING, BOLT)

SIDE FRAME ASSEMBLIES

XSA-010328O OPS SIDE FRAME ASSY.
 (SIDE FRAME W/ BEARINGS)
 XSA-010328N NOPS SIDE FRAME ASSY.
 (SIDE FRAME W/ BEARINGS)

SIDE FRAME BEARINGS

AFTER SERIAL #9212-08950
 X06-108 SEALED BALL BEARING (REQUIRES QTY. 4)
 BEFORE SERIAL #9212-08950
 X06-346038 THIN FLANGED BUSHING (REQUIRES QTY. 4)

MISCELLANEOUS

XSA-9903 METERING THUMB SCREW ASSY.
 (THUMB SCREW, RACHET GEAR, SET SCREW)
 X09-0201 COMPRESSION SPRING
 XSA-1102 WATER PAN ASSY.
 (W/ BOTTLE BRACKET & PAN BOLTS)
 X99-28 WATER PAN HOSE
 XSA-9905 WATER BOTTLE (W/ CAP)
 X99-61 WASH UP BOTTLE

RYOBI 3200E

ROLLERS

X07-0106 FORM ROLLER, SOFT
 X07-0352 PAN ROLLER, SOFT
 X07-0403 OSCILLATOR ROLLER, HARD
 XSA-070243 METERING ROLLER ASSY., HARD
 (ROLLER, SHAFT, BEARINGS, SLEEVES)

HANGER BRACKET KIT

XSA-STDHANGERS OPS & NOPS HANGER ASSY.
 (KIT DOES BOTH HANGERS)

GEARS

XSA-03211526 PAN GEAR ASSY. (GEAR W/ CLUTCH BEARING)
 XSA-03211538 FORM GEAR ASSY. (GEAR W/ CLUTCH BEARING)
 XSA-03211520 IDLER GEAR ASSY. (GEAR W/BUSHING, BOLT)

SIDE FRAME ASSEMBLIES

XSA-010328O OPS SIDE FRAME ASSY. (FRAME W/ BEARINGS)
 XSA-010328N NOPS SIDE FRAME ASSY. (FRAME W/ BEARINGS)

SIDE FRAME BEARINGS

X06-108 SEALED BALL BEARING (REQUIRES QTY. 4)

MISCELLANEOUS

XSA-9903 METERING THUMB SCREW ASSY.
 (THUMB SCREW, RACHET GEAR, SET SCREW)
 X09-0201 COMPRESSION SPRING
 XSA-1103 WATER PAN ASSY. (W/ BRACKET & PAN BOLTS)
 X99-28 WATER PAN HOSE
 XSA-9905 WATER BOTTLE (W/ CAP)
 X99-61 WASH UP BOTTLE

RYOBI 3200 S1 T HEAD

ROLLERS

X07-0153 FORM ROLLER, SOFT
 X07-0361 PAN ROLLER, SOFT
 X07-0455 OSCILLATOR ROLLER, HARD
 XSA-07009 METERING ROLLER ASSY, HARD
 (ROLLER, SHAFT, BEARINGS, SLEEVES)
 XSA-07008 INTERMEDIATE ROLLER ASSY.
 XSA-07007 RIDER ROLLER ASSY. SOFT

GEARS

XSA-03012 PAN GEAR ASSY.
 (GEAR W/CLUTCH BEARING)
 XSA-03013 IDLER GEAR ASSY. (2 PER UNIT)
 (GEAR, BUSHINGS & SHOULDER BOLT)
 XSA-012 24 TOOTH DRIVE GEAR
 XSA-03014 22 TOOTH IDLER GEAR
 (GEAR, BUSHING & SHOULDER BOLT)

SIDE FRAME ASSEMBLIES

XSA-010190 OPS SIDE FRAME ASSY.
 (SIDE FRAME W/BEARING & ROLL PIN)
 XSA-010191 NOPS SIDE FRAME ASSY.
 (SIDE FRAME W/BEARING & ROLL PIN)

SIDE FRAME BEARINGS

X06-107 SEALED BALL BEARING

MISCELLANEOUS

XSA-1154 WATER PAN ASSY.
 (W/BOTTLE BRACKET & PAN BOLTS)
 X99-123 WATER PAN BOLT
 X09-0206 COMP. SPRING SIDE FRAME
 X18-0710 SAFETY COVER
 X99-28 WATER HOSE
 X99-61 WASH UP BOTTLE

RYOBI 3200 MCD / ITEK 985

ROLLERS

ALL UNITS AFTER SERIAL NUMBER 9010-02735 HAVE A SOFT RUBBER PAN ROLLER AND A HARD RUBBER METERING ROLLER. UNITS WITH PREVIOUS SERIAL NUMBERS MUST BE UPGRADED.

X07-0106 FORM ROLLER, SOFT
 X07-0305NS PAN ROLLER, SOFT
 X07-0405 OSCILLATOR ROLLER, HARD
 XSA-070208NS METERING ROLLER ASSY., HARD
 (ROLLER, SHAFT, BEARINGS, COLLARS)
 XSA-070501NS INTERMEDIATE ROLLER ASSY., SOFT
 (ROLLER, SHAFT, BEARINGS, COLLARS, ROLL PIN)
 STCL3230 INTERMEDIATE ROLLER SHELL ONLY

GEARS

XSA-03211MCD PAN GEAR ASSY.
 (GEAR W/ CLUTCH BEARING)
 XSA-03211538 FORM GEAR ASSY.
 (GEAR W/ CLUTCH BEARING)
 XSA-03211520 IDLER GEAR ASSY.
 (GEAR, SPOOL, BOLT)
 (2 PER DAMPENER)

SIDE FRAME ASSEMBLIES

XSA-010532MO OPS SIDE FRAME ASSY.
 (SIDE FRAME W/ BEARINGS)
 XSA-010532MN NOPS SIDE FRAME ASSY.
 (SIDE FRAME W/ BEARINGS)

SIDE FRAME BEARINGS

AFTER SERIAL #9301-0000
 X06-108 S EALED BALL BEARING
 (REQUIRES QTY. 4)
 BEFORE SERIAL #9301-0000
 X06-346038 THIN FLANGED BUSHING
 (REQUIRES QTY. 4)

MISCELLANEOUS

XSA-9903 METERING THUMB SCREW ASSY.
 (THUMB SCREW, RACHET GEAR, SET SCREW)
 XSA-1105 WATER PAN ASSY.
 (W/ PAN BOLTS)
 X99-29 WATER PAN HOSE
 XSA-9905 WATER BOTTLE (W/ CAP)
 X99-61 WASH UP BOTTLE

RYOBI 3200/3200MCD ITEK 975/985 T-51®

ROLLERS

X07-51713 FORM ROLLER, SOFT
 XSA-070222NS32 METERING ROLLER ASSY., HARD
 (ROLLER, SHAFT, COLLARS, ROLL PIN)
 X07-0325NS PAN ROLLER, SOFT
 XSA-070520 UPPER INTERMED. ASSY., SOFT STANDARD T-51
 (ROLLER, SHAFT, COLLARS)
 XSA-070520SW UPPER INTERMED. ASSY., SOFT SWING-AWAY T-51
 (ROLLER, SHAFT, COLLARS)
 X07-51720 LOWER INTERMEDIATE ROLLER, SOFT
 X07-0403 OSCILLATOR ROLLER, HARD

MISCELLANEOUS

XSA-1128 WATER PAN ASSY. STANDARD T-51
 (W/ PAN BOLTS)
 XSA-1128SW WATER PAN ASSY. SWING-AWAY T-51
 (W/ PAN BOLTS)
 X99-28 WATER PAN HOSE
 X99-61 WASH UP BOTTLE

RYOBI 3302H ALTRA SERIES

ROLLERS

X07-0168 FORM ROLLER, SOFT
 XSA-070338 PAN ROLLER, HARD (ROLLER, BEARINGS)
 X07-0467 OSCILLATOR ROLLER, HARD
 XSA-070234 METERING ROLLER ASSY., SOFT
 (ROLLER, SHAFT, BEARINGS, SNAP RINGS)
 STCL3351 METERING ROLLER SHELL ONLY
 XSA-07006 INTERMEDIATE ROLLER ASSY., SOFT
 (ROLLER, TIE BAR, BEARINGS, COLLARS)
 STCL3330 INTERMEDIATE ROLLER SHELL ONLY

SEALED BALL BEARINGS

X06-108 SIDE FRAME BEARING
 (2 PER DAMPENER)
 X06-130 SEALED BALL BEARING, PAN
 (2 PER DAMPENER)

MISCELLANEOUS

XSA-9937 METERING KNOB ASSY.
 XSA-1110 WATER PAN ASSY.
 (W/ BRACKET & PAN BOLTS)
 X99-29 WATER PAN HOSE
 XSA-9905 WATER BOTTLE (W/ CAP)
 X99-61 WASH UP BOTTLE

GEARS

XSA-03211530 PAN GEAR ASSY
 XSA-03211520 IDLER GEAR ASSY

SIDE FRAME ASSEMBLIES

XSA-010142P OPS SIDE FRAME ASSY.
 (FRAME & BEARINGS)
 XSA-010142N NOPS SIDE FRAME ASSY.
 (FRAME & BEARINGS)

RYOBI 3302M / ITEK 3985 / A.B. DICK 9985 (4 ROLL)

ROLLERS

ALL UNITS AFTER SERIAL NUMBER 9006-02079 HAVE A SOFT RUBBER PAN ROLLER AND A HARD RUBBER METERING ROLLER. UNITS WITH PREVIOUS SERIAL NUMBERS MUST BE UPGRADED.

X07-0105 FORM ROLLER, SOFT
X07-0304NS PAN ROLLER, SOFT
X07-0404 OSCILLATOR ROLLER, HARD
XSA-070204NS METERING ROLLER ASSY., HARD
(ROLLER, SHAFT, BEARINGS, COLLARS)

SIDE FRAME & HANGER BRACKET ASSEMBLIES

XSA-0104332O OPS SIDE FRAME ASSY. (FRAME W/BEARINGS)
XSA-0104332N NOPS SIDE FRAME ASSY. (FRAME W/ BEARINGS)
XSA-010202N* NOPS HANGER ASSY. (BRACKET W/ BEARING)
XSA-010202P* OPS HANGER ASSY. (BRACKET W/ BEARING)

GEARS

XSA-03211530 PAN GEAR ASSY. (GEAR W/ CLUTCH BEARING)
XSA-03211538 FORM GEAR ASSY. (GEAR W/ CLUTCH BEARING)
XSA-0321152Q IDLER GEAR ASSY. (SPOOL, BUSHING, BOLT)

SIDE FRAME BEARINGS

FOR ORIGINAL EQUIPMENT SIDE FRAMES
X06-346038 THIN FLANGED BUSHING (REQUIRES QTY. 4)
FOR REPLACEMENT SIDE FRAMES
X06-108 SEALED BALL BEARING (REQUIRES QTY. 4)

MISCELLANEOUS

XSA-9903 METERING THUMB SCREW ASSY.
(THUMB SCREW, RACHET GEAR, SET SCREW)
X09-0202 COMPRESSION SPRING
XSA-1104 WATER PAN ASSY. (W/ BRACKET & PAN BOLTS)
X99-28 WATER PAN HOSE
XSA-9905 WATER BOTTLE (W/ CAP)

RYOBI 3302M / ITEK 3985 / A.B.DICK 9985 ALTRA SERIES

ROLLERS

X07-0135 FORM ROLLER, SOFT
XSA-070338 PAN ROLLER, HARD (ROLLER, BEARINGS)
X07-0431 OSCILLATOR ROLLER, HARD
XSA-070234 METERING ROLLER ASSY., SOFT
(ROLLER, SHAFT, BEARINGS, SNAP RINGS)
STCL3351 METERING ROLLER SHELL ONLY
XSA-07006 INTERMEDIATE ROLLER ASSY., SOFT
(ROLLER, TIE BAR, BEARINGS, COLLARS)
STCL3330 INTERMEDIATE ROLLER SHELL ONLY

GEARS

XSA-03211530 PAN GEAR ASSY. (GEAR W/ CLUTCH BEARING)
XSA-03231ALTRA INTERMEDIATE GEAR ASSEMBLY
(GEAR, BUSHING, BOLT)
X03-211528 OSCILLATOR GEAR

SIDE FRAME ASSEMBLIES

XSA-010142P OPS SIDE FRAME ASSY. (FRAME & BEARINGS)
XSA-010142N NOPS SIDE FRAME ASSY. (FRAME & BEARINGS)

SEALED BALL BEARINGS

X06-108 SIDE FRAME BEARING (2 PER DAMPENER)
X06-130 SEALED BALL BEARING, PAN (2 PER DAMPENER)
X06-103 INTERNAL METERING ROLLER BEARING
(1607DC, REQUIRES QTY. 2)

MISCELLANEOUS

XSA-9937 METERING KNOB ASSY.
XSA-1110 WATER PAN ASSY. (W/ BRACKET & PAN BOLTS)
X99-29 WATER PAN HOSE
XSA-9905 WATER BOTTLE (W/ CAP)
X99-61 WASH UP BOTTLE

RYOBI 3302M / ITEK 3985 / A.B.DICK 9985 (6 ROLL)

ROLLERS

X07-0105 FORM ROLLER, SOFT
X07-0321 PAN ROLLER, HARD
X07-0404 OSCILLATOR ROLLER, HARD
XSA-070219 METERING ROLLER ASSY., SOFT
(ROLLER, SHAFT, WASHERS, COLLARS)
STCL3353 METERING ROLLER SHELL ONLY
XSA-070513 UPPER INTERMEDIATE ASSY., SOFT
(ROLLER, SHAFT, BEARINGS, COLLARS, ROLL PIN)
STCL3331 UPPER INTERMEDIATE ROLLER SHELL ONLY
XSA-070512 LOWER INTERMEDIATE ASSY., HARD
(ROLLER, SHAFT, BEARINGS, COLLARS, ROLL PIN)

GEARS

XSA-03211530 PAN GEAR ASSY. (GEAR W/ CLUTCH BEARING)
XSA-03211538 FORM GEAR ASSY. (GEAR W/ CLUTCH BEARING)
XSA-03211520 IDLER GEAR ASSY. (GEAR, BUSHING, BOLT)
(2 PER DAMPENER)
XSA-032115TB TIE BAR IDLER GEAR ASSY. (GEAR, BUSHING)

SIDE FRAME ASSEMBLIES

XSA-010118 OPS SIDE FRAME ASSY. (FRAME W/ BEARINGS)
XSA-010119 NOPS SIDE FRAME ASSY. (FRAME W/ BEARINGS)

SIDE FRAME BEARINGS

AFTER SERIAL #9209-08127
X06-108 SEALED BALL BEARING (REQUIRES QTY. 4)
BEFORE SERIAL #9209-08127
X06-346038 THIN FLANGED BUSHING (REQUIRES QTY. 4)

MISCELLANEOUS

XSA-9903 METERING THUMB SCREW ASSY.
(THUMB SCREW, RACHET GEAR, SET SCREW)
XSA-3302PAL POSITIVE ACTION LINK ASSY.
(PAL, ECCENTRIC, BOLT, WASHER)
XSA-1123 WATER PAN ASSY. (W/ RACKET & PAN BOLTS)
X99-28 WATER PAN HOSE
XSA-9905 WATER BOTTLE (W/ CAP)
X99-61 WASH UP BOTTLE

SAKURAI 258

ROLLERS

X07-0127 FORM ROLLER, SOFT
X07-0327 PAN ROLLER, HARD
X07-0424 OSCILLATOR ROLLER, HARD
X07-0224 METERING ROLLER, SOFT
X07-0526 INTERMEDIATE ROLLER, SOFT
X07-0605 AUX. RIDER ROLLER, HARD

SIDE FRAME ASSEMBLIES

XSA-010156 OPS SIDE FRAME ASSY.
(SIDE FRAME W/ BEARING)
XSA-010157 NOPS SIDE FRAME W/ BEARING
(SIDE FRAME W/ BEARING)

SEALED BALL BEARINGS

X06-115 SEALED BALL BEARING, SIDE FRAME (TAKES 2)
X06-112 SEALED BALL BEARING, PAN SHAFT (TAKES 2)
X06-113 SEALED BALL BEARING, FORM,
DRIVE SHAFT, DUMMY SHAFT, PIVOT

MISCELLANEOUS

XSA-99192 METERING THUMB SCREW ASSY.
(THUMB SCREW, RACHET GEAR, SET SCREW)
X09-0206 COMPRESSION SPRING 4 PER DAMPENER)
XSA-1131 WATER PAN ASSY.
(W/ PAN BOLTS)
X99-61 WASH UP BOTTLE

TOKO 4700

ROLLERS

X07-0111 FORM ROLLER, SOFT
X07-0310 PAN ROLLER, HARD
X07-0415 OSCILLATOR ROLLER, HARD
XSA-070211 METERING ROLLER ASSY., SOFT
(ROLLER, SHAFT, BEARINGS, COLLARS)
XSA-070506 INTERMEDIATE ROLLER ASSY., SOFT
(ROLLER, SHAFT, BEARINGS, COLLARS, ROLL PIN)

SIDE FRAME ASSEMBLIES

XSA-0108TKO OPS SIDE FRAME W/ BEARINGS
XSA-0108TKN NOPS SIDE FRAME W/ BEARINGS

GEARS

XSA-03221538 FORM GEAR ASSY. (GEAR W/ CLUTCH BEARING)
XSA-03221526 PAN GEAR ASSY. (GEAR W/ CLUTCH BEARING)
XSA-03221520 UPPER IDLER GEAR ASSY.
(GEAR, BUSHING, SHOULDER BOLT)
XSA-03221526X LOWER IDLER GEAR ASSY.
(GEAR, BUSHING, SPOOL, WASHERS, BOLT)

BEARINGS

AFTER SERIAL NUMBER 9304-09982
X06-108 SEALED BALL BEARING, SIDE FRAME
(4 PER DAMPENER)
BEFORE SERIAL NUMBER 9304-09982
X06-346038 THIN FLANGED BUSHING, SIDE FRAME
(4 PER DAMPENER)
X06-324031 FLANGED BUSHING
(2 PER DAMPENER)
X06-103 SEALED BALL BEARING, PIVOT
(2 PER DAMPENER)

MISCELLANEOUS

XSA-9903 METERING THUMB SCREW ASSY.
(THUMB SCREW, RACHET GEAR, SET SCREW)
X09-0101 COMPRESSION SPRING (2 PER DAMPENER)
XSA-1112 WATER PAN ASSY. (W/BRACKET & BOLTS)
X99-28 WATER PAN HOSE
XSA-9905 WATER BOTTLE (W/ CAP)
X99-61 WASH UP BOTTLE

TOKO 4750

ROLLERS

X07-0129 FORM ROLLER, SOFT
X07-0331NS PAN ROLLER, SOFT
X07-0414A OSCILLATOR ROLLER, HARD
X07-0204NS METERING ROLLER, HARD
XSA-070513 INTERMEDIATE ROLLER ASSY., SOFT
(ROLLER, SHAFT, COLLARS, ROLL PIN)
MUST SPECIFY FOR TK4750

SIDE FRAME ASSEMBLIES

XSA-0108TKO OPS SIDE FRAME W/ BEARINGS
XSA-0108TKN NOPS SIDE FRAME W/ BEARINGS

GEARS

XSA-03221538 FORM GEAR ASSY. (W/ CLUTCH BEARING)
XSA-03221526 PAN GEAR ASSY. (W/ CLUTCH BEARING)
XSA-03221520 UPPER IDLER GEAR ASSY.
(GEAR, BUSHING, SHOULDER BOLT)
XSA-03221526X LOWER IDLER GEAR ASSY.
(GEAR, BUSHING, SPOOL, WASHERS, BOLT)

BEARINGS

AFTER SERIAL NUMBER 9304-09982
X06-108 SEALED BALL BEARING, SIDE FRAME
(4 PER DAMPENER)
BEFORE SERIAL NUMBER 9304-09982
X06-346038 THIN FLANGED BUSHING, SIDE FRAME
(4 PER DAMPENER)
X06-324031 FLANGED BUSHING, SIDE FRAME
(2 PER DAMPENER)
X06-103 SEALED BALL BEARING, PIVOT
(2 PER DAMPENER)

MISCELLANEOUS

XSA-9903 METERING THUMB SCREW ASSY.
(THUMB SCREW, RACHET GEAR, SET SCREW)
X09-0101 COMPRESSION SPRING
(2 PER DAMPENER)
X99-28 WATER PAN HOSE
XSA-9905 WATER BOTTLE (W/ CAP)
X99-61 WASH UP BOTTLE