

2G Consumables & Repair Parts (115 Volt)

MOTION CONTROL

Radius		
NEW PN	Old PN	Description
90-051-120	NOP-90723	Servo Motor
05-057-868	NOP-2195	Servo Clamp
90-051-192	NOP-7230	Servo Coupler
90-051-096	NOP-3050	Home Switch
05-057-881	NOP-2291	Home Switch Cover
05-057-899	NOP-9035	Lead-Screw Assembly - Radius
05-057-851	NOP-2024	Backlash Nut (Leadscrew)
90-051-190	NOP-7215	Bearing (Leadscrew - block closest to front of machine)
90-051-189	NOP-7210	Bearing (Leadscrew - block closest to rear of machine)
05-065-784	NOP-2237	Rod Support (1/2)
90-051-194	NOP-7262	Slide Rod 1/2 (Right) 12.125 in
05-061-652	NOP-7263	Slide Rod 1/2 (Left) 12.7 in
15-050-489	NOP-70155	Block Bearings - Need 4 for radius (Short bearing)

Depth		
NEW PN	Old PN	Description
90-051-120	NOP-90723	Servo Motor
05-057-868	NOP-2195	Servo Clamp
90-051-192	NOP-7230	Servo Coupler
90-051-096	NOP-3050	Home Switch NOP-22100100 - screw
05-057-881	NOP-2291	Home Switch Cover
05-057-900	NOP-9036	Lead-Screw Assembly - Depth
05-057-851	NOP-2024	Backlash Nut (Leadscrew)
90-051-189	NOP-7210	Bearing (Leadscrew - block closest to left of machine)
90-051-190	NOP-7215	Bearing (Leadscrew - block closest to right of machine)
05-065-784	NOP-2237	Rod Support (1/2)
05-061-653	NOP-7264	Slide Rod 1/2 (rear) 15.25 in
05-061-651	NOP-7260	Slide Rod 1/2 (front) 10.75 in
05-057-897	NOP-7252	Block Bearings - Need 3 for depth (long bearing)

Axis		
NEW PN	Old PN	Description
05-057-839	NOP-90724	Servo Motor with Gear
05-057-854	NOP-2065	Servo Motor Brkt
90-051-096	NOP-3050	Home Switch

ELECTRONIC ENCLOSURE

Current Enclosure		
NEW PN	Old PN	Description
20-063-610	NOP-94394	Electronic Enclosure Universal (115 & 230V) 2G
20-058-762	NOP-77343	Fuse 2 Amp, Slow Blow
90-051-151	NOP-3027	I/O Board - Motion Control
90-051-164	NOP-3095	Opto Isolator for I/O Board

20-058-646	NOP-77565	Power Supply - 15W, S
20-058-647	NOP-77566	Power Supply - 65W, Du
20-058-648	NOP-77567	Power Supply - 50W T
20-058-389	NOP-90121	Fan Assembly

Old Enclosure (not available)		
NEW PN	Old PN	Description
20-054-203	NOP-77338	Fuse 6.3A F - (F1 +5V)
20-053-362	NOP-77339	Fuse 2.5 A T - (F2 +20V)
90-051-462	NOP-77318	Line Power Fuse
90-051-641	NOP-90441	Muffin Fan Assembly 115V

CHIP CHUTE

NEW PN	Old PN	Description
90-051-629	NOP-90231	Chip Chute (Full Assembly)
05-057-838	NOP-90703	Cutter Shield Assembly
60-053-028	NOP-2273	Chip Chute Flap Gasket
05-058-128	NOP-82069	Chip Chute Lid Gasket
60-053-026	NOP-2258	Tension Latch
05-057-875	NOP-2259	Latch Mount

COLLECT

NEW PN	Old PN	Description
02-061-837	NOP-29484	Collet Assembly
60-053-019	NOP-7245	Collet Disk Springs / Bell Washers (Need 4)
05-058-433	NOP-2040	Collet Springs Cap
05-057-852	NOP-2030	Collet Plate (Adapter)
35-051-770	NOP-22100281	T-10 torx screws (4/40 x 1/4 FHCS) - for collet plate
05-057-862	NOP-2145	Collet Locating Pin
60-053-024	NOP-2045	Locating Pin Spring
90-051-204	NOP-9017	Collet Insert Assembly (Standard)
90-051-133	NOP-2108	Lap Holder Assembly (Standard)
90-051-585	NOP-87248	Calibration Plug (Standard)
05-057-898	NOP-9018	Collet Insert Assembly (LOH)
90-051-134	NOP-2109	Lap Holder Assembly (LOH)
05-058-165	NOP-87240	Calibration Plug (LOH)
90-051-132	NOP-2038	Block Spacer Ring (LOH)
35-051-771	NOP-22100283	Screws for Spacer Ring (4/40 x 3/8 FHCS) -need 4

PNEUMATIC

NEW PN	Old PN	Description
90-051-676	NOP-90749	Collet Air Cylinder Assembly
90-051-428	NOP-74372	1/4 Male Elbow Fittings (for collet cylinder)
05-057-857	NOP-2085	CYLINDER/COLLET PUSH PAD
05-057-861	NOP-2130	Cylinder Mount Plate
05-057-859	NOP-2110	Cylinder Stand-Off - need 4
90-051-121	NOP-90740	Solenoid Valve Assembly
90-051-397	NOP-74075	Muffler

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90-051-416	NOP-74240	Nylon Tubing (5/32 O.D.) - per foot
90-051-672	NOP-90745	Air Filter Regulator Assembly
90-051-421	NOP-74305	Bulkhead Fitting (Male - regulator side)
90-051-420	NOP-74302	Bulhead Fitting (Female - machine side)
90-051412	NOP-74201	Air Filter Polycarbonate Bowl

CUTTER MOTOR & CUTTER BLADES		
NEW PN	Old PN	Description
02-071-072	NOP-80720	Cutter Motor/ Bodine (20,000 RPM 115V)
02-060-383	NOP-90601	Controller - Universal 115V
02-060-398	NOP-90602	Controller - Universal 230V
20-053-361	NOP-77320	15 Amp fuse (Controller)
60-053-120	NOP-87490	Collet Wrench 24mm Bodine
60-053-121	NOP-87495	Armature Wrench 11/16 - Bodine
92-007-867	NOP-90850	PCD Diamond Cutter - with Collet Nut
92-008-474	NOP-93743	Carbide Cutter (6 flute)
05-058-124	NOP-80432	Collet Nut (Balanced)
92-008-222	NOP-90855	PCD Diamond Cutter (32mm) 1/2 in collet - Turbo Only

VACUUM		
NEW PN	Old PN	Description
02-076-134		Vacuum 12 Gallon (Standard Plug) 115V
02-076-058		Vacuum 12 Gallon (C-19 Plug) 115V
02-073-806	NOP-29043	Replacement Motor Kit (Silver can vacuum) 115V
92-007-959	NOP-90140	Vacuum Bag Set (25 count)
92-015-145	NOP-90145	Vacuum Bag Set (10 count)
90-050-864	NOP-87150	Foam Filter Sleeve
90-051-573	NOP-87175	Vacuum Crevice Tool
90-051-567	NOP-87155	Vacuum Hose 1.5" x 12'
90-051-571	NOP-87164	Vacuum Hose 2.5" x 6'
02-054-667	NOP-90500	Static Discharge Hose Assembly
90-054-378	NOP-87169	Inlet Deflector, Vacuum
20-054-345	NOP-94504	Power Cable Adapter (Standard Vac to C-19)
90-051-458	NOP-77305	Vac Toggle Switch (Old stlye - 3 wires)
20-054-202	NOP-77306	Vac Toggle Switch (New stlye - 6 wires)
90-051-476	NOP-77370	Vacuum Receptical (Old style - standard vacuum)
20-054-290	NOP-77371	Vacuum Receptical (New Style - C-19 vacuum)

SOFTWARE		
NEW PN	Old PN	Description
05-080-741	NOP-3311	System Disk - Floppy
02-063-000	NOP-95592	Thumb Drive 2G (Software key) 115V

WIRING/CONNECTORS/SWITCHES		
Current Wiring (Newer Style) *has line filter		
NEW PN	Old PN	Description
20-054-290	NOP-77371	Vacuum Receptical (C-19)
20-054-289	NOP-77362	Power Input Receptical
20-054-202	NOP-77306	Vac Toggle Switch New stlye - 6 wires)
20-054-333	NOP-94480	Soft Start Jumper
20-054-279	NOP-77205	On/Off Switch (main) - New Style
20-054-258	NOP-55510	Power Cord
20-054-373	NOP-94546	Base Harness Universal (main harness - b)
20-056-912	NOP-94547	Case Harness Universal
20-060-250	NOP-94698	Power Harness Switch (#1 cable)
20-066-340	NOP-94697	Power Harness Switch - AC input (#2 Cable)
20-060-141	NOP-94696	Motor/Controller - Cable Assembly (#3, 4, 5, & 9)
20-054-292	NOP-77441	Line filter
20-054-379	NOP-94565	Black Wire - Vac switch to vac outlet (#26)
20-054-378	NOP-94564	Red Wire - Vac switch to vac outlet (#25)
20-060-095	NOP-94695	Cable AC Hot EMI Filter (#6,7,& 8)
20-054-365	NOP-94532	NOP Cable Assy EMI Filter GRD. Wire 2G

Main Wirinig (Older design)		
NEW PN	Old PN	Description
90-051-476	NOP-77370	Vac Receptical - Standard Wall Plug
90-051-475	NOP-77360	Power Input Receptical - Older Design
90-051-458	NOP-77305	Vacuum Switch (3 wire switch)
20-054-333	NOP-94480	Soft Start Jumper
90-051-448	NOP-77204	On/Off Switch Breaker (Main)
20-054-270	NOP-77100	Power Cord - Standard (Older style)

Wiring Motion Control		
NEW PN	Old PN	Description
20-054-205	NOP-94462	Servo Encoder Cable - Axis
20-054-206	NOP-94465	Servo Power Wires - Axis
90-051-116	NOP-87501	Pin Extractor Tool
20-054-321	NOP-94463	Servo Encoder Cable - Depth
20-054-322	NOP-94464	Servo Encoder Cable - Comm Cable Radius
20-054-204	NOP-94461	Home Switch Cable (Feeds all 3 switches)

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Switches/Relays		
NEW PN	Old PN	Description
90-051-096	NOP-3050	Home Switch (same for Axis, Radius, & Depth)
20-059-630	NOP-77415	Mercury Relay
90-051-454	NOP-77280	Cutter Motor Mercury Switch (Right side behind on/off switch)
90-051-453	NOP-77270	Lid Mercury Switch (Plexi lid)
20-054-279	NOP-77205	On/Off switch (Main) - New Style (With line filter)
90-051-448	NOP-77204	On/Off Switch Breaker (Main) - Older Style

Pannels		
NEW PN	Old PN	Description
05-058-250	NOP-94392	Right Side Pannel - New Style (CE)
90-051-445	NOP-77195	DPDT Switch Block
90-051-444	NOP-77194	Momentary DPDT Switch (Start/ stop)
90-051-451	NOP-77254	Switch Cover Green
90-051-452	NOP-77264	Switch Cover Red
90-051-500	NOP-77675	Switch Bulb
05-058-251	NOP-94398	Control Pannel Left - New Style
90-051-445	NOP-77195	DPDT Switch Block
90-051-446	NOP-77196	Alternating dpst Switch - (Chuck)
90-051-500	NOP-77675	Switch Bulb
90-051-449	NOP-77214	Switch Cover Blue

Main Bulb		
NEW PN	Old PN	Description
90-051-470	NOP-77350	Light Bulb - Start Lamp
90-051-473	NOP-77355	Light Bulb - U Lamp

CASE TOP

Plexi Shield		
NEW PN	Old PN	Description
90-051-205	NOP-9055	Plexi Shield Assembly
90-051-453	NOP-77270	Lid Mercury Switch
05-058-130	NOP-82122	Plexi Shield Hinge

Lid Support		
NEW PN	Old PN	Description
05-058-135	NOP-82270	Lid Support - Left Heavy Duty
05-058-137	NOP-82280	Lid support - Right Heavy Duty

Keypad & Display		
NEW PN	Old PN	Description
90-051-146	NOP-3005	Keypad
90-051-648	NOP-90516	Monitor board cover (Full Assembly with potentiometer)
90-051-681	NOP-90777	Contast/Potentiometer Assembly
02-064-569	NOP-91050	Display Upgrade Kit (Contains Below Items)*
20-059-001	NOP-2286	Display Assembly 2G (New style) *

05-067-425	NOP-2173	Display Filler *
90-051-154	NOP-3042	Display Board (Rev E or higher)*
35-051-790	NOP-22100328	6-32 Hex Nut, White Nylon
35-051-684	NOP-22100086	4/40 x 1/4 BHCS (Need 4)*
20-059-788	NOP-94663	Cable Assembly, Display (Short cable)* (New display requires 5.0 software or higher NOT IN KIT)
20-054-332	NOP-94477	Display Cable (Black box to display board)
90-051-149	NOP-3018	Display Inverter

ACCESSORIES

NEW PN	Old PN	Description
90-051-574	NOP-87178	Hex Key Set
90-051-545	NOP-85075	Dust Cover
90-051-587	NOP-87260	Safety Blow Gun
90-051-204	NOP-9017	Collet Insert Assembly (Standard)
90-051-133	NOP-2108	Lap Holder Assembly (Standard)
90-051-585	NOP-87248	Calibration Plug (Standard)
05-057-898	NOP-9018	Collet Insert Assembly (LOH)
90-051-134	NOP-2109	Lap Holder Assembly (LOH)
05-058-165	NOP-87240	Calibration Plug (LOH)
90-051-592	NOP-87311	Manual (2G)
35-051-656	NOP-93314	Torx Wrench (T10)
90-051-418	NOP-74262	Quick Disconnect Coupler
20-053-361	NOP-77320	15 Amp fuses (Controller - cutter motor)
90-051-598	NOP-87410	Digital Multi Meter
60-053-120	NOP-87490	Collet Wrench 24mm Bodine
60-053-121	NOP-87495	Armature Wrench 11/16 - Bodine
90-051-672	NOP-90745	Air Filter Regulator Assembly
02-065-687	NOP-90439	Fan Filter Assy

CONSUMABLES 2G

NEW PN	Old PN	Description
92-007-959	NOP-90140	Vacuum Bag Set (25 count)
92-015-145	NOP-90145	Vacuum Bag Set (10 count)
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92-007-867	NOP-90850	PCD Diamond Cutter - With Collet Nut
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20-053-362	NOP-77339	fuse 2.5 A T - (F2 +20V)
90-051-462	NOP-77318	Line Power Fuse
20-058-762	NOP-77343	Fuse 2 Amp, Slow Blow