



REPLACEMENT PARTS, Models 8100, 8150 and 8250

Revised July 2004

LASER ARC LAMPS and LAMP FLOW TUBES

<u>Part No.</u>	<u>Description</u>
* 120066	Laser Lamp, LKA-4030 (8100)
* 120067	Laser Lamp, LKA-5340 (8150, 8250)
* 120277	Laser Lamp, LKA-8040 (8400)
* 100088-4411Q	Lamp Flow Tube (8100)
* 100088-5412Q	Lamp Flow Tube (8150, 8250)
* 100088-8412Q	Lamp Flow Tube (8400)

MODULE LEVEL PARTS for OPTICAL RESONATOR

<u>Part No.</u>	<u>Description</u>
010266	Head Block Assembly (8100, ¼-inch YAG rod)
010276	Head Block Assembly (8100, 5-mm YAG rod)
010215-001	Head Block Assembly (8150, ¼-inch YAG rod)
010215-005	Head Block Assembly (8150, ¼-inch YAG rod, diffuse reflector)
010215-004	Head Block Assembly (8150, 5-mm YAG rod)
010215-003	Head Block Assembly (8250, ¼-inch YAG rod)
010215-004	Head Block Assembly (8250, 5-mm YAG rod)
010346	Head Block Assembly (8400)
010039-001	YAG Rod Assembly, ¼-inch (8100). Laser tested.
010035-002	YAG Rod Assembly, 5-mm (8100). Laser tested.
010039-002	YAG Rod Assembly, ¼-inch (8150). Laser tested.
010035-004	YAG Rod Assembly, 5-mm (8150). Laser tested.
010039-002	YAG Rod Assembly, ¼-inch (8250). Laser tested.
010035-004	YAG Rod Assembly, 5-mm (8250). Laser tested.
010039-004	YAG Rod Assembly (8400). Laser tested.
+ 010039-001R	YAG Rod Refurbish, ¼-inch (8100). Mount and laser tested.
+ 010035-002R	YAG Rod Refurbish, 5-mm (8100). Mount and laser tested.
+ 010039-002R	YAG Rod Refurbish, ¼-inch (8150, 8250). Mount and tested.
+ 010035-004R	YAG Rod Refurbish, 5-mm (8150, 8250). Mount and tested.
+ 010039-004R	YAG Rod Refurbish, ¼-inch (8400). Mount and tested.
# 100088-4415U	Rod Flow Tube (8100, ¼-inch), UV Filter Glass
# 100088-4414SD	Rod Flow Tube (8100, 5-mm), UV Filter Glass

MODULE LEVEL PARTS for OPTICAL RESONATOR (Cont'd)

# 100088-5415U	Rod Flow Tube (8150, ¼-inch, 5-mm), UV Filter Glass
# 100088-5415SD	Rod Flow Tube (8250, ¼-inch, 5-mm), UV Filter Glass
# 100088-8415SD	Rod Flow Tube (8400), UV Filter Glass
010087-002	Elliptical Cavity Set (8100, ¼-inch)
010209-002	Elliptical Cavity Set (8100, 5-mm)
010091-002	Elliptical Cavity Set (8150, 8250, ¼-inch, 5-mm)
010091-004	Elliptical Cavity Set (8400)
010050-002	Lamp Contact Assembly, Positive (8100)
010050-003	Lamp Contact Assembly, Negative (8100)
010111-001	Lamp Contact Assembly, Negative (8150, 8250, 8400)
010111-002	Lamp Contact Assembly, Positive (8150, 8250, 8400)
120007	Rear (HR) Mirror
# 120008	Output Mirror, 90 % R (consult TEST DATA for part number)
# 120175	Output Mirror, 85 % R (consult TEST DATA for part number)
# 120052	Output Mirror, 80 % R (consult TEST DATA for part number)
# 120110	Output Mirror, 70 % R (consult TEST DATA for part number)
# 120234	Output Mirror, 60 % R (consult TEST DATA for part number)
# 120184	Output Mirror, 50 % R (consult TEST DATA for part number)
201503-001	Crescent (Wave) Washer, Qty. 3
* 120011	Lamp Contact Band (2 required), each
# 120065-002	Q-switch, 27.12 MHz. Laser Tested.
# 120081	O-Ring Kit (8100, 3-inch)
# 120092	O-Ring Kit (8100, 5-mm)
# 120142	O-Ring Kit (8150, 8250)
# 120009-006	O-Ring, Head Block (8100)
# 120009-021	O-Ring, Head Block (8150, 8250)
120028	Shutter Solenoid
200713	HeNe Laser Tube
200710	HeNe Laser Power Supply

MODULE LEVEL PARTS for Q-SWITCH SUPPLY

<u>Part No.</u>	<u>Description</u>
010343-001	Q-Switch Supply, LQD-27D, no meter. With 020071-002 RF Control PCB. Replaces: P/N 010213-002 Q-switch Supply, LQD-127 (originally shipped with 020046-002 RF Control PCB.
010343-002	Q-Switch Supply, LQD-27D, no meter. With 020071-003 RF Control PCB. Replaces: P/N 010213-001 Q-switch Supply, LQD-127 (originally shipped with 020046-001 RF Control PCB. P/N 010213-003 Q-switch Supply, LQD-127 (originally shipped with 020046-003 RF Control PCB.

MODULE LEVEL PARTS for Q-SWITCH SUPPLY (Cont'd)

010344-002	Q-Switch Supply, LQD-27D1, WITH meter. With 020071-003 RF Control PCB. Replaces: P/N 010064 Q-switch Supply, LQD-27B
020046-002	RF Control PCB (used with 010213-002)
020046-003	RF Control PCB (used with 010213-001 and 010213-003) Replaces 020046-001
020071-002	RF Control PCB (used with P/N: 010343-001)
020071-003	RF Control PCB (used with P/N: 010343-002, 010344-003)
# 120048	Amplifier Module, 27.12 MHz

MODULE LEVEL PARTS for LAMP POWER SUPPLY

<u>Part No.</u>	<u>Description</u>
010026	Power Block Assy, Non-CE
010311	Trigger Box Assembly, CE lasers
010312	Power Block Assy, CE
020040-001	Power Supply Heat Sink Assy, ± 15 vdc, 3 Amp
020040-002	Power Supply Heat Sink Assy, ± 15 vdc, 5 Amp
020040-003	Power Supply Heat Sink Assy, ± 24 vdc, 5 Amp
020040-004	Power Supply Heat Sink Assy, ± 28 vdc
020080-001	External Laser System Control PCB Assy (used in lasers manufactured after 1996). For digital input signal.
020080-002	External Laser System Control PCB Assy (used in lasers manufactured after 1996). For analog input signal.
020080-003	External Laser Power Control PCB Assy (used in lasers manufactured after 1996). For digital input signal. Replaces: 020070-001, 020061-D and 02000039-D
020080-004	External Laser Power Control PCB Assy (used in lasers manufactured after 1996). For analog input signal. Replaces: 020070-002
010195-001	External Current Control Kit. For digital input signal.
010195-002	External Current Control Kit. For analog input signal.
010195-003	External Current Control Kit, HPM. For digital input signal.
010195-004	External Current Control Kit, HPM. For analog input signal.
020042-002	Power Meter Calibration PCB Assy
020043	Interlock/Water Quality PCB Assy (used in lasers manufactured before 1996)
020091-003	Interlock/Water Quality PCB Assy. Replaces: 020060-002
020044	High Voltage PCB Assy
020045-001	SCR Control PCB Assy
020051-002	Power Supply PCB Assy, ± 12 vdc, 1 Amp
020081	Power Supply PCB Assy, ± 12 vdc, 1 Amp
020052-001	Line Filter PCB Assy, 220 VAC

MODULE LEVEL PARTS for LAMP POWER SUPPLY (Cont'd)

020052-002	Line Filter PCB Assy, 480 VAC
020069-001	Line Filter PCB Assy, CE, left side
020069-002	Line Filter PCB Assy, CE, right side
020072-001	LED Front Control Panel PCB Assembly
120129	Line Filter, CE (and early 818)
010311-001	Trigger Box Assy, CE
120014	Diode Block
120018	SCR/SCR Block
120094	5-Wire Conversion Kit for 380-VAC, LCY-380
120134-001	220-VAC Conversion Kit (380-V to 220-V), LDY-220
120128	Transformer, ± 15 vdc
120020	Indicator LED, Red, 14 V
120021	Amber Indicator, 28 V
120022-001	Indicator Lamp, for switch (pkg 5)
120023	Indicator LED, Red, 5V
120230	Key Switch
120231	Power ON/OFF Switch
120232	Shutter OPEN/CLOSE Switch
120394	PUMP START Switch Upgrade Kit

MODULE LEVEL PARTS for COOLING SYSTEM, and MISC. SPARES and KITS

<u>Part No.</u>	<u>Description</u>
010040	Flow Switch Assembly
010061	DI Water Resistivity Sensor Assembly
010062-001	DI Water Over-Temp Sensor Assembly
010095	DI Water Temperature Sensor Assembly
120380	DI Water Sight Tube Assembly
# 120027-001	Replacement Lamp Kit
# 120027-002	Replacement Lamp Kit
120031	DI Water Flow Valve
* 120032	DI Water Filter Cartridge
# 120037	Pump Repair Kit. Includes: Impeller, Gasket, Seal and Seat
120351	Pump Housing Assy (Volute). With fittings.
120361-003	Water Pump Assembly, 3-phase, ¾-HP (8100). With fittings.
120072	Water Pump Assembly, 3-phase, 1-HP (8150, 8250, 8400)
120116	Low Water Sensor
120425	Solenoid Water Flow Valve (8150, 8250, 8400). With fittings.
120102	Consumable Parts Kit, LCP-8100 (8100)
120146	Consumable Parts Kit, LCP-8150 (8150, 8250)
120249	Consumable Parts Kit, LCP-8400 (8400)
120172	General Maintenance Kit, LGM-8100-5 (8100, 5-mm)
120101	General Maintenance Kit, LGM-8100-1/4 (8100, ¼-inch)

MODULE LEVEL PARTS for COOLING SYSTEM, and MISC. SPARES and KITS (Cont'd)

120147	General Maintenance Kit, LGM-8150-5 (8150, 8250)
120250	General Maintenance Kit, LGM-8400-5 (8400)
120210-001	General Maintenance Kit, LGM-8250/1000 (8250/1000)
120210-002	General Maintenance Kit, LGM-8250/500 (8250/5000)
120210-003	General Maintenance Kit, LGM-8250/750 (8250/750)
120388	Laser Operation Manual, LOM-800. Current Revision
010187-001	Autocollimator Assembly, 115 V
010187-002	Autocollimator Assembly, 220 V

OTHER SPARE PARTS (Section 8.0, Operation Manual)

<u>Part No.</u>	<u>Description</u>
100849	Head Block Base (8100, ¼-inch YAG rod)
100900	Head Block Base (8100, 5-mm YAG rod)
100678	Head Block Base (8150, 8250)
100586	Lamp Power Connector
100593	Head Cover (8100)
100680	Head Cover (8150, 8250)
100581-001	Lamp Contact Base, Positive
100581-002	Lamp Contact Base, Negative
100580-001	Lamp Contact Block, Positive
100580-002	Lamp Contact Block, Negative
100147	Captive Screw, Lamp Contact
100374-001	Rod Holder Support (8100, ¼-inch YAG rod, 8150, 8250)
100161-002	Rod Holder Support (8100, 5-mm YAG rod)
200561	Water Fitting
120009-001-04	O-Ring, Package of 4
120009-004-04	O-Ring, Package of 4
120009-019-08	O-Ring, Package of 8 (8100, ¼-inch YAG rod, 8150, 8250)
120009-011-08	O-Ring, Package of 8 (8100, 5-mm YAG rod)
010293-001	Mirror Mount Assy (8100, 5-mm YAG rod)
010293-003	Mirror Mount Assy (8100, ¼-inch YAG rod, 8150, 8250)
010295	Q-switch Mount Assy (without Q-switch)
120069	Isolation Transformer, K7, Pre-wired

- * Routine periodic replacement required
- # Occasional replacement may be necessary
- + Pending Lee Laser evaluation

Note: To find specific part numbers for your laser, refer to Sections 1, 7 and 8 of your Operation Manual.