

# Service Manual

## Model: GentleMAX PRO

*Candela Corporation  
530 Boston Post Road  
Wayland, MA 01778-1886  
Telephone (508) 358-7400  
Toll Free (800) 733-8550 ext. 734 (Technical Assistance)  
Toll Free (800) 733-7400 ext. 740 (Customer Service)*

*PIN 8501-00-9035, Revision C  
JULY 2012*

**Table of Contents**

**SECTION ONE**

**THEORY OF OPERATION**

8501-00-4020 GentleMAX PRO Theory of Operation

**SECTION TWO**

**SERVICE PROCEDURES**

8503-01-0930 GMAX PRO Installation Procedures  
 8503-01-0931 GMAX PRO System Software Initialization Procedure  
 8503-01-0932 GMAX PRO Preventative Maintenance Procedure  
 8503-01-0933 GMAX PRO Laser Head Replacement Procedure  
 8503-01-0934 GMAX PRO Flash Lamp Replacement Procedure  
 8503-01-0935 GMAX PRO Laser Rail Alignment Procedure  
 8503-01-0936 GMAX PRO Focus Lens Replacement Procedure  
 8503-01-0937 GMAX PRO Calport Verification Procedure  
 8503-01-0938 GMAX PRO Performance Test Procedure  
 8503-01-0939 GMAX PRO HVPS Verification Procedure  
 8503-01-0940 GMAX PRO Aiming Beam Test Procedure  
 8503-01-0941 GMAX PRO Inspect and Clean Optics  
 8503-01-0942 GMAX PRO Internal Circuit Calibration Procedure  
 8503-01-0943 GMAX PRO Efficiency and Ramp Test Procedure  
 8503-01-0944 GMAX PRO DCD Pressure Verification Procedure  
 8503-01-0945 GMAX PRO DI Water Temperature Calibration Procedure  
 10-400-00151 GMAX PRO Performance and Usage Data Sheet  
 8503-01-0946 GMAX PRO Troubleshooting Guide Faults List

**SECTION THREE**

**ENGINEERING SCHEMATICS**

9914-80-9035 System Schematic, GMAX PRO Dual Head  
 7111-80-2792 Schematic Spectrum CPU I/O  
 7111-80-2793 Schematic AC Distribution PCB  
 7111-80-2798 Schematic Spectrum HV Daughter Board  
 7111-80-2799 Schematic Spectrum HV Split Cap PCB  
 7111-80-2804 Schematic HV Dump PCB GMAX PRO

**SECTION FOUR**

**ENGINEERING DRAWINGS**

9914-91-9035 GMAX PRO Family Tree  
 9914-84-9035 Block Diagram Control System 1 of 10  
 9914-84-9035 Block Diagram HV Modulator Section 2 of 10  
 9914-84-9035 Block Diagram Modulator Control 3 of 10  
 9914-84-9035 Block Diagram DCD Delivery System 4 of 10  
 9914-84-9035 Block Diagram ACC Delivery System 5 of 10  
 9914-84-9035 Block Diagram Specialty Delivery System 6 of 10  
 9914-84-9035 Block Diagram CALPORT 7 of 10  
 9914-84-9035 Block Diagram DCD Section 8 of 10  
 9914-84-9035 Block Diagram Laser Rail Section 9 of 10  
 9914-84-9035 Block Diagram Fluid Section 10 of 10

## ASSEMBLY DRAWINGS/BOM

7111-99-2792	CPU I/O PCB Drawing
7111-99-2793	AC Distribution PCB Assembly Drawing
7111-99-2798	HV Daughter Board Assembly Drawing
7111-99-2799	HV Split Capacitor Board Assembly Drawing
7111-99-2800	LCD Display Interface PCB Drawing
7111-99-2807	DHP Dump PCB Drawing
7122-99-9250	AC Section Wire Kit Drawing
7122-00-3660	BOM, Assy Manifold DI Cartridge Heater
7122-99-3660	Assy Manifold DI Cartridge Heater
7122-00-9216	BOM AC Section Assembly
7122-99-9216	AC Section Assembly
7122-00-9228	BOM Heat Exchanger Assembly
7122-99-9228	Heat Exchanger Assembly
7122-00-9234	BOM Tubing Kit Assembly
7122-99-9234	Tubing Kit Assembly
7122-00-9235	BOB DCD Assembly
7122-99-9235	DCD Assembly
7122-00-9236	BOM DI Filter/Cartridge Assembly
7122-99-9236	DI Filter/Cartridge Assembly
7122-00-9250	BOM AC Section Wiring Kit
7122-99-9250	AC Section Wiring Kit
7122-00-9400	BOM Assembly, DCD Electrical Cable
7122-99-9400	Assembly, DCD Electrical Cable
7122-00-9401	BOM DCD Hand Cable Assembly
7122-99-9401	DCD Hand Cable Assembly
7122-00-9403	BOM Assembly, ACC Electrical Cable
7122-99-9403	Assembly, ACC Electrical Cable
7122-00-9404	BOM ACC HP Cable Assembly
7122-99-9404	ACC HP Cable Assembly
7122-00-9416	BOM Slider Attachment 12/15/18
7122-99-9416	Slider Attachment 12/15/18
7122-00-9417	BOM Slider Attachment 6/8/10
7122-99-9417	Slider Attachment 6/8/10
7122-00-9419	BOM Fiber Assembly

GentleMAX PRO Service Manual

7122-99-9419	Fiber Assembly
7122-00-9429	BOM Right Panel Assembly Spectrum
7122-99-9429	Right Panel Assembly Spectrum
7122-00-9430	BOM Left Panel Assembly Spectrum
7122-99-9430	Left Panel Assembly Spectrum
7122-00-9432	BOM Aiming Beam Assembly
7122-99-9432	Aiming Beam Assembly
7122-00-9435	BOM Fiber Pole Assembly
7122-99-9435	Fiber Pole Assembly
7122-00-9437	BOM Fiber Cord and Hook Assembly
7122-99-9437	Fiber Cord and Hook Assembly
7122-00-9441	BOM GMAX DHP Display Bezel Assembly
7122-99-9441	GMAX DHP Display Bezel Assembly
7122-00-9448	BOM Top Panel GMAX PRO Assembly
7122-99-9448	Top Panel GMAX PRO Assembly
7122-00-9449	BOM Front Panel Assembly
7122-99-9449	Front Panel Assembly
7122-00-9456	BOM Aiming Beam Mirror
7122-99-9456	Aiming Beam Mirror
7122-00-9457	BOM Head Detector Assembly
7122-99-9457	Head Detector Assembly
7122-00-9458	BOM Beam Splitter Assembly
7122-99-9458	Beam Splitter Assembly
7122-00-9460	BOM Display Bezel, Rear
7122-99-9460	Display Bezel, Rear
7122-00-9529	BOM Beam Blocker Assembly
7122-99-9529	Beam Blocker Assembly
7122-00-9537	BOM Fiber Pole Accessory Kit
7122-99-9537	Fiber Pole Accessory Kit
7122-00-9557	BOM GMAX DHP Head Rail Assembly
7122-99-9557	GMAX DHP Head Rail Assembly
7122-00-9560	BOM 1.5MM Slider Attachment Assembly
7122-99-9560	1.5MM Slider Attachment Assembly
7122-00-9561	BOM 3MM Slider Attachment Assembly
7122-99-9561	3MM Slider Attachment Assembly

7122-00-9567	BOM Upper Chassis Assembly
7122-99-9567	Upper Chassis Assembly
7122-00-9571	BOM GMAX DHP Tubing Kit
7122-99-9571	GMAX DHP Tubing Kit
7122-00-9572	BOM GMAX DHP Alex Head Assembly
7122-99-9572	GMAX DHP Alex Head Assembly
7122-00-9574	BOM Fiber Receptacle Assembly
7122-99-9574	Fiber Receptacle Assembly
7122-00-9575	BOM Focus Lens Housing Assembly
7122-99-9575	Focus Lens Housing Assembly
7122-00-9576	BOM GMAX DHP Beam Combiner Assembly
7122-99-9576	GMAX DHP Beam Combiner Assembly
7122-00-9577	BOM GMAX DHP Turning Mirror Assembly
7122-99-9577	GMAX DHP Turning Mirror Assembly
7122-00-9578	BOM GMAX DHP YAG Head Assembly
7122-99-9578	GMAX DHP YAG Head Assembly
7122-00-9579	BOM HV Section Assembly
7122-99-9579	HV Section Assembly
7122-00-9580	BOM HV Wire Harness Assembly
7122-99-9580	HV Wire Harness Assembly
7122-00-9581	BPM DHP AC Section Assembly
7122-99-9581	DHP AC Section Assembly
7122-00-9587	BOM DHP Fiber Bundle Assembly
7122-99-9587	DHP Fiber Bundle Assembly
7122-00-9588	BOM GMAX DHP Intermediate Lens Assembly
7122-99-9588	GMAX DHP Intermediate Lens Assembly
7122-00-9592	BOM Flow Switch 0.50GPM Assembly
7122-99-9592	Flow Switch 0.50GPM Assembly
7122-00-9596	BOM Spectrum Signal Harness Assembly
7122-99-9596	Spectrum Signal Harness Assembly
7122-00-9598	BOM Fluid Section Assembly
7122-99-9598	Fluid Section Assembly
7122-00-9601	BOM Frame Assembly
7122-99-9601	Frame Assembly

It's a preview. You can download the full file by clicking the link below.

<https://shopservicemanual.com/>

Service Manuals from 2\$