



SPARE PARTS CATALOG



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have CINCINNATI® written all over them.



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other machine in their class.

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Welcome

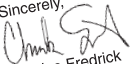


Dear Cincinnati Laser System Owner:

Welcome to our all-new Cincinnati laser spare parts catalog. Here you will find original equipment replacement parts for your existing Cincinnati processing head along with our latest cutting head models. We also carry an extensive supply of lenses, external optics and resonator optics for most Cincinnati laser machines. In addition, we stock an ever-expanding line of consumables and optics for nearly all laser machines on the market today.

At Laser Mech Replacement Parts & Service (RPS) we are proud of our rich heritage of experience and product design knowledge that dates back to the very beginning of the laser industry itself. In fact, Laser Mech RPS's parent company, Laser Mechanisms, has been designing and manufacturing beam delivery components for over 25 years. It is this tradition of industry leadership that enables us to stand behind the products we sell with the assurance that your item will be **on hand**, it will be delivered to you **on time** and it will be **on target** with your process requirements.

While this catalog includes a comprehensive list of our Cincinnati laser spare parts and optics, it is by no means our entire product line. If there is an item you don't see or if you just have a question, give us a call at **(800) 207-9014**. At Laser Mech RPS we are always ready to exceed your expectations.

Sincerely,

 Charles Fredrick
 General Manager

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Contents

Optics	2
Nozzles	3
Common Parts	4
Accessories	5
Auto Focus Head	6
Saturn IV	8
Saturn III	10
Standard Non-Contact	12
Standard Contact	14
2.0" Saturn	16

Notes

LM Part #	Cincinnati Part #	Description
Lenses		
PLLPZ0033	908085	5.00" WD – 1.5" Dia., ZnSe, 0.280" ET
PLLPZ0052	909484	7.50" WD – 1.5" Dia., ZnSe, 0.280" ET
PLLPZ0116	922377	5.00" WD – 2.0" Dia., ZnSe, 0.380" ET
PLLPZ0115	922376	7.50" WD – 2.0" Dia., ZnSe, 0.380" ET
Black Magic Low Absorption Lenses		
PLLPZ0033B		5.00" WD – 1.5" Dia., Black Lens
PLLPZ0052B		7.50" WD – 1.5" Dia., Black Lens
Mirrors		
Zero Phase		
PLZRS0002	907971	Total Reflector – Si, 2.0" Dia.
PLZRC0002	907464	Total Reflector – Cu, 50 mm x 10 mm
PLZRC0003	909976	Total Reflector – Cu, 2.25" Dia.
PLZRC0006	910341	Total Reflector – Cu, 3.0" Dia.
PLZRC0008	922769	Total Reflector – Cu, 2.25" Dia., Water-Cooled
Polarizers		
PLRRC0004	907463	Phase Shift Mirror – Cu, 50 mm x 10 mm
PLRRC0005	909975	Phase Shift Mirror – Cu, 2.25" Dia.
PLRRC0009	922515	Phase Shift Mirror – Cu, 2.50" Dia.
PLRRC0012	922768	Phase Shift Mirror – Cu, 2.25" Dia. Water-Cooled
Anti-Reflective Fold Mirror		
PLIRC0006	923414	Anti-Reflective Fold Mirror – Cu, 50 mm x 10 mm
PLIRC0009	923728	Anti-Reflective Fold Mirror – Cu, 2.25" Dia.
Collimators		
PLTRC0030	920295	Collimator Input – 1.969" x 0.375", 1.737MCX
PLTRC0031	920296	Collimator Output – 1.969" x 0.375", 2.441MCC
PLTRC0060	922766	Direct-Cooled Mirror – 1.969" x 1.25", 3.00MCX
PLTRC0061	912092	Direct-Cooled Mirror – 1.969" x 1.25", 3.72MCC
PLTRC0062	923642	Direct-Cooled Mirror – 1.969" x 1.25", 3.61MCC
PLTRC0063	924551	Water-Cooled Mirror – 2.0" x 2.25", 1.87MCC
PLTRC0064	924827	Water-Cooled Mirror – 2.0" x 50 mm, 1.175MCX
Pre-Focus Lens		
PLLPZ0177	922722	Pre-Focus Lens – 2.0" x 4 M x 0.236" ET
Internals		
Fold Mirrors		
PLTRC0043	909772	Fold Mirror – Cu, 2.0" Dia., 2.216" ET, Water-Cooled
PLTRS0047	922645	Fold Mirror – Si, 2.0" Dia., 0.200" ET
Rear Mirrors		
PLPRG0003	907970	Rear Mirror – 1.0" x 0.236", 15.0MCC (Rofin)
PLPRG0004	910587	Rear Mirror – 1.1" x 0.236", 20.0MCC (1.5 kW Fanuc)
PLPRG0005	911411	Rear Mirror – 1.5" x 0.315", 35.0MCC (2.0 kW Fanuc)
PLPRG0007	922644	Rear Mirror – 1.5" x 0.315", 51.6MCC (3.0 kW Fanuc)
PLPRG0009	924511	Rear Mirror – 1.5" x 0.315", 15.0MCC (4.0 kW Fanuc)
Output Couplers		
PLPRZ0003	907969	Output Coupler – 1.0" x 0.236", 30.0MCC 65%R/30.0MCX (Rofin)
PLPRZ0005	910589	Output Coupler – 1.1" x 0.236", 20.0MCC 60%R/9.00MCX (1.5 kW Fanuc)
PLPRZ0006	911410	Output Coupler – 1.5" x 0.315", 35.0MCC 60%R/15.0MCX (2.0 kW Fanuc)
PLPRZ0007	922668	Output Coupler – 1.5" x 0.315", 51.6MCC 50%R/20.0MCX (3.0 kW Fanuc D)
PLPRZ0008	924510	Output Coupler – 1.5" x 0.315", 15.0MCC 40%R/7.50MCX (4.0 kW Fanuc)
PLPRZ0010		Output Coupler – 1.5" x 0.315", 51.6MCC 50%R/25.0MCX (3.0 kW Fanuc C)

Nozzles

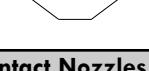
Cold Formed Nozzles

Manufactured and Distributed Exclusively by Laser Mechanisms

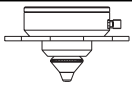
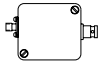
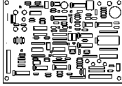
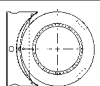
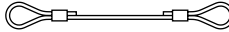
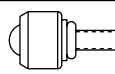
LM Part #	Cincinnati Part #	Description
PLCFN0058	913185	Cold Formed 0.040" Orifice Nozzle
PLCFN0039	913187	Cold Formed 0.060" Orifice Nozzle
PLCFN0098	913189	Cold Formed 0.080" Orifice Nozzle
PLCFN0168	913191	Cold Formed 0.100" Orifice Nozzle
PLCFN0162	913188	Cold Formed 0.060" Orifice High Capacitance Nozzle
PLCFN0163	913190	Cold Formed 0.080" Orifice High Capacitance Nozzle
PLCFN0559		Cold Formed 0.105" Orifice – Length 0.772" Blunt Nose Nozzle
PLCFN0504	913192	Cold Formed 0.125" Orifice – Length 0.772" Blunt Nose Nozzle
PLCFN0534	913193	Cold Formed 0.160" Orifice – Length 0.722" Blunt Nose Nozzle
PLCFN0031	913184	Cold Formed 0.060" Orifice – 0.050" Standoff Nozzle

Why Cold Formed Nozzles?

- Manufactured from 100 percent oxygen-free copper with better than 99.5 percent reflectivity.
- The Cold Forming manufacturing process creates a smoother, continuous interior surface for optimum gas flow providing smoother edge quality and less exit dross.
- Mirrored interior finish presents much less surface area – reducing the rate of oxidation and tarnish build up.

Part	LM Part #	Cincinnati Part #	Description
Non-Contact Nozzles			
	PLGJT0058	924635	0.040" Orifice Non-Contact Nozzle
	PLGJT0261		0.050" Orifice Non-Contact Nozzle
	PLGJT0039	909660	0.060" Orifice Non-Contact Nozzle
	PLGJT0098	910315	0.080" Orifice Non-Contact Nozzle
	PLGJT0168	924638	0.100" Orifice Non-Contact Nozzle
	PLGJT0138	924634	0.120" Orifice Non-Contact Nozzle
	PLGJT0266	923013	0.040" Orifice Shower Nozzle
	PLGJT0265	923014	0.060" Orifice Shower Nozzle
	PLGJT0514		0.080" Orifice Shower Nozzle
	PLGJT0256	913025	1.0mm Orifice Double Nozzle
	PLGJT0257	913026	1.5mm Orifice Double Nozzle
	PLGJT0258		2.0mm Orifice Double Nozzle
	PLGJT0162	924636	0.060" Orifice High Capacitance Nozzle
	PLGJT0163	924637	0.080" Orifice High Capacitance Nozzle
	PLGJT0504	925127	0.125" Orifice – Length 0.772" Blunt Nose Nozzle
	PLGJT0534	912815	0.160" Orifice – Length 0.722" Blunt Nose Nozzle
	PLGJT0145	922464	0.060" Orifice Knurled Nozzle
	PLGJT0150	922465	0.080" Orifice Knurled Nozzle
	PLGJT0151	922770	0.100" Orifice Knurled Nozzle
	PLGJT0152	922771	0.120" Orifice Knurled Nozzle
	PLGJT0156	922772	0.060" Orifice Knurled Shower Nozzle
Contact Nozzles			
	PLGJT0001	908090	0.060" Orifice – 0.025" Standoff Nozzle
	PLGJT0031	907470	0.060" Orifice – 0.050" Standoff Nozzle
	PLGJT0032	907469	0.040" Orifice – 0.050" Standoff Nozzle
	PLGJT0095	920006	0.080" Orifice – 0.050" Standoff Nozzle

Common Parts

Part	LM Part #	Cincinnati Part #	Description
Tip Retainers, Extensions & Assemblies			
	PLTRA0346 PLTRA0328	923257	Tip Assembly with Shield Tip Assembly without Shield
	PLTRA0320	923022	Tip Retainer Assembly
	PLFRK0011	923411	Field Repair Kit for PLTRA0328, PLTRA0346
	PLTRA0321	923021	Tip Retainer Nut – Tapered
	PLTRA0163	925284	Tip Retainer Nut for High Capacitance Nozzles
	PLTRA0051	909657	Tip Retainer Nut Assembly
	PLTRE0055 PLTRE0057	909658 909681	Tip Retainer Extension (Long 2.357") Tip Retainer Extension (Short 0.857")
	PLTRA0069	909659	Tip Retainer Locking Nut
	PLTRA0009	907677	Tip Retainer Nut w/Seal Ring for Surface Follower Guard
Electronics & Related Cables			
	PLTTA0009	841836	Tip Transformer Assembly
	PLHSU0006 PLCAB0177 PLCAB0004	840539 840065 841043	Height Sensor Card & Transformer HSU BNC Coaxial Cable – 50" HSU BNC Coaxial Cable – 25"
	PLTTW0002 PLTTW0015	909654/922686 842951	Tip Transformer Wire – 4.5" Long (White) Tip Transformer Wire – 5.5" Long (Brown)
Lens Holders			
	PLALH0034 PLALH0031	909359	Adjustable Lens Holder Adjustable Lens Holder – Carbide Inserts
	PLALH0088 PLALH0089	924709 924710	Front Adjuster Lens Holder – 1.5" Lens Front Adjuster Lens Holder – 2.0" Lens
Other Parts			
	PLCAB0168 PLCAB0303	910007	Crash Protection Cable – 6.0" Long Crash Protection Cable – 3.312" Long
	PLSBL0016	922408	Composite Sliding Barrel
	PLBTR0001 PLBTR0004	907468	Replacement Ball Transfer Replacement Ball Transfer w/Lube Hole
	PLBTR0007	909136	Pallet Ball Transfer

Accessories

LM Part #	Cincinnati Part #	Description
Seal Kits - Includes all seals and O-rings for the cutting head.		
PLKIT0051		Saturn III Seal Kit
PLKIT0052		Saturn IV Seal Kit
PLKIT0065		Standard Non-Contact Seal Kit
Tools		
PLSPW0018	923890-X	Tip Spanner Wrench for PLTRA0328, PLTRA0346
PLLIT0017	925210	1.5"/2.0" Lens Insertion Tool
PLMAT0002		Manifold Alignment Tool for PLTRA0051
PLJAT0002	921915	Jet Alignment Tool for Non-Contact Heads
PLTRT0001	909267	Tip Retainer Tool for PLTRA0009
Optics Cleaning		
PLOCK0001		Optics Cleaning Kit
PLOCK0002		Optics Cleaning Tissue – Booklet (25 count)
PLOCK0003		Lens Cleaner (8 oz.)
PLOCK0005		Cotton Swabs 6" (100 count)
PLOCK0006		Optics Cleaning Tissue – Box (50 booklets)
Lubricants, Compounds & Cleaning Spray		
PLLUB0006	922822	Non-Flammable Lubricating Oil (1 oz.)
PLLUB0007		Jet Lube – SS-30 Cu (10 cc)
PLTHC0001		Thermal Compound (2 oz.)
PLCUS0002		Precision Cleaning Spray
Fittings		
PLFTG0046		Quick Release Fitting Adapter – M10/32 x 1/8" FNPT
PLFTG0047		Water-Cooled Quick Connect Fitting Assembly – 1/8" MNPT, Straight
PLFTG0058		Water-Cooled Quick Connect Fitting Assembly – 1/8" MNPT, Right Angle
Testing Materials		
PLATK0003		Alignment Thermal Cards (10 pack)
PLPST0001		Polarized Stress Tester
PLACB0001		Mode Burn Block – 4" x 4" x 1"
PRIMES Power Meters		
400003001		PRIMES PocketMonitor – 7 kW
400004001		PRIMES PocketMonitor – 12 kW

Why choose a PRIMES PocketMonitor™ for your Cincinnati Laser?

Power Density, Accuracy and Repeatability!

Power density is often as important as the maximum laser power when choosing a PocketMonitor model. The 7 kW and 12 kW models have an outstanding capacity for high power densities and unparalleled accuracy. With these two units, measurements at 5 kW/cm² at 5 kW optical power are possible – making them the clear choice for use with your high-powered Cincinnati laser.

Laser Mechanisms is the exclusive North American distributor for PRIMES.



Educational Training Manual



Using a CO₂ Laser In The Shop: A handbook for installation, use, and maintenance

This comprehensive guide from FMA was written for managers and operators seeking instructions in laser fabrication and machining. Author David Marusa designed it to complement manufacturer's information and training, as well as to help anyone who plans to purchase a CO₂ laser and wants the installation and operation to proceed smoothly. This book is an excellent tool for bringing laser personnel up to speed quickly. It's spiral-bound, so you can keep it near your machine as a handy reference.

PLHDB0001

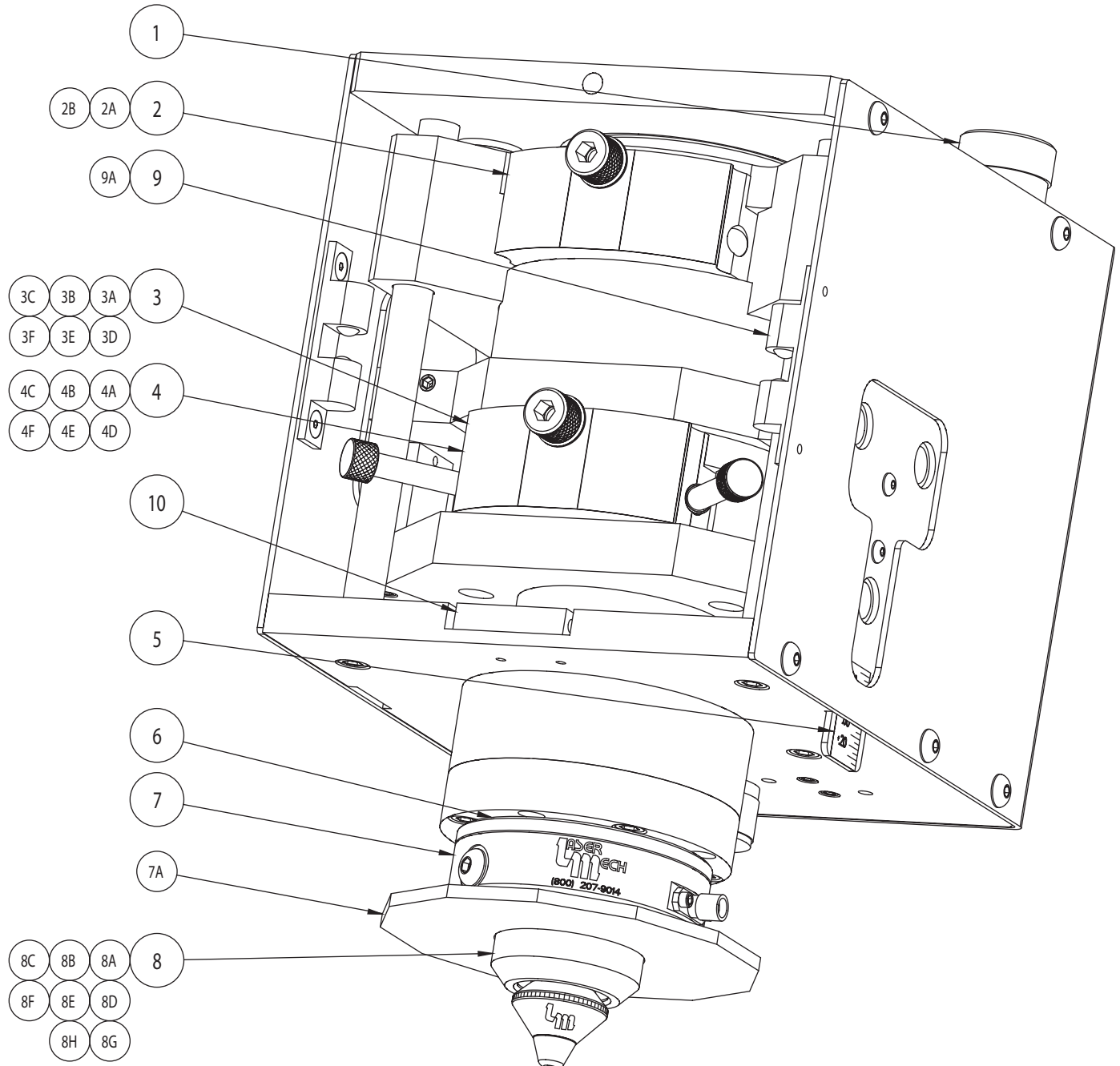
Ask about our special book pricing for FMA members.

Auto Focus Head

Item	LM Part #	Cincinnati Part #	Description
Complete Head Assembly			
	PLMDL0010	924694	Motor-Driven Non-Contact Head, 5.0"/7.5" FL (1.5"/2.0" Dia. Lens)
Head Sub-Assembly			
1	PLCON0025		Connector Assembly
2	PLEMS0018	924742	Empty Manifold Seal
2A	PLMSR0012	912777	Manifold Seal Ring
2B	PLAJS0015		Locking Screw – Front Adjusting Lens Holder
Lens Holders			
3	PLALH0088	924709	1.5" Lens Holder
3A	PLLRN0002	909320	1.5" Lens Retainer Nut
3B	PLLOR0001	912778	1.5" Lens O-ring
3C	PLLSR0001	909321	1.5" Lens Seal Ring
3D	PLMSR0012	912777	Manifold Seal Ring
3E	PLAJS0003		Lens Adjuster Screw
3F	PLAJS0015		Locking Screw – Front Adjusting Lens Holder
4	PLALH0089	924710	2.0" Lens Holder
4A	PLLRN0023		2.0" Lens Retainer Nut
4B	PLLOR0002	922487	2.0" Lens O-ring
4C	PLLSR0003	922474	2.0" Lens Seal Ring
4D	PLMSR0012	912777	Manifold Seal Ring
4E	PLAJS0003		Lens Adjuster Screw
4F	PLAJS0015		Locking Screw – Front Adjusting Lens Holder
<i>For focusing lenses, see page 2.</i>			
5	PLLAB0003		Vertical Scale
6	PLMOR0001		O-ring for Tip Adapter Flange
Capacitive Tip Assembly Components			
7	PLTRA0346	923257	Tip Assembly With Shield (See Item 8 for details)
7A	PLSLD0002	923381	Rapid Pierce Shield
8	PLTRA0328		Height Sensing Tip Without Shield
8A	PLTRA0159	923843	Top-Threaded Retainer Ring
8B	PLSCR0016		4-40 X 0.25" SHSS
8C	PLISR0009	923631	Copper-Lined Insulator Hub
8D	PLFRK0011	923411	Field Repair Kit
8E	PLTOR0007		Tip Assembly O-ring
8F	PLTRA0321	923021	Tip Retainer Nut
8G	PLTRA0163	925284	Tip Retainer Nut for High Capacitance Nozzles (Not Shown)
8H	PLGJT0039	909660	0.060" Orifice Non-Contact Nozzle (For other nozzle sizes, see Page 3)
Door Assembly Components			
9	PLHDW0007		Ball-Style Tension Catch
9A	PLSCR0048		4-40 x 0.125" FHCS
10	PLSWK0017		Magnetic Door Switch Assembly
Additional Tools & Accessories (Not Shown)			
	PLKIT0038		MDL0010 Ball Screw Assembly Kit
	PLLIT0017	925210	1.5"/2.0" Lens Insertion Tool
	PLSPW0018	923890-X	Tip Spanner Wrench
	PLTTW0002	909654/922686	Tip Transformer Wire – 4.5" Long (White)
	PLTTW0015	842951	Tip Transformer Wire – 5.5" Long (Brown)

Rental heads and repair service available upon request.

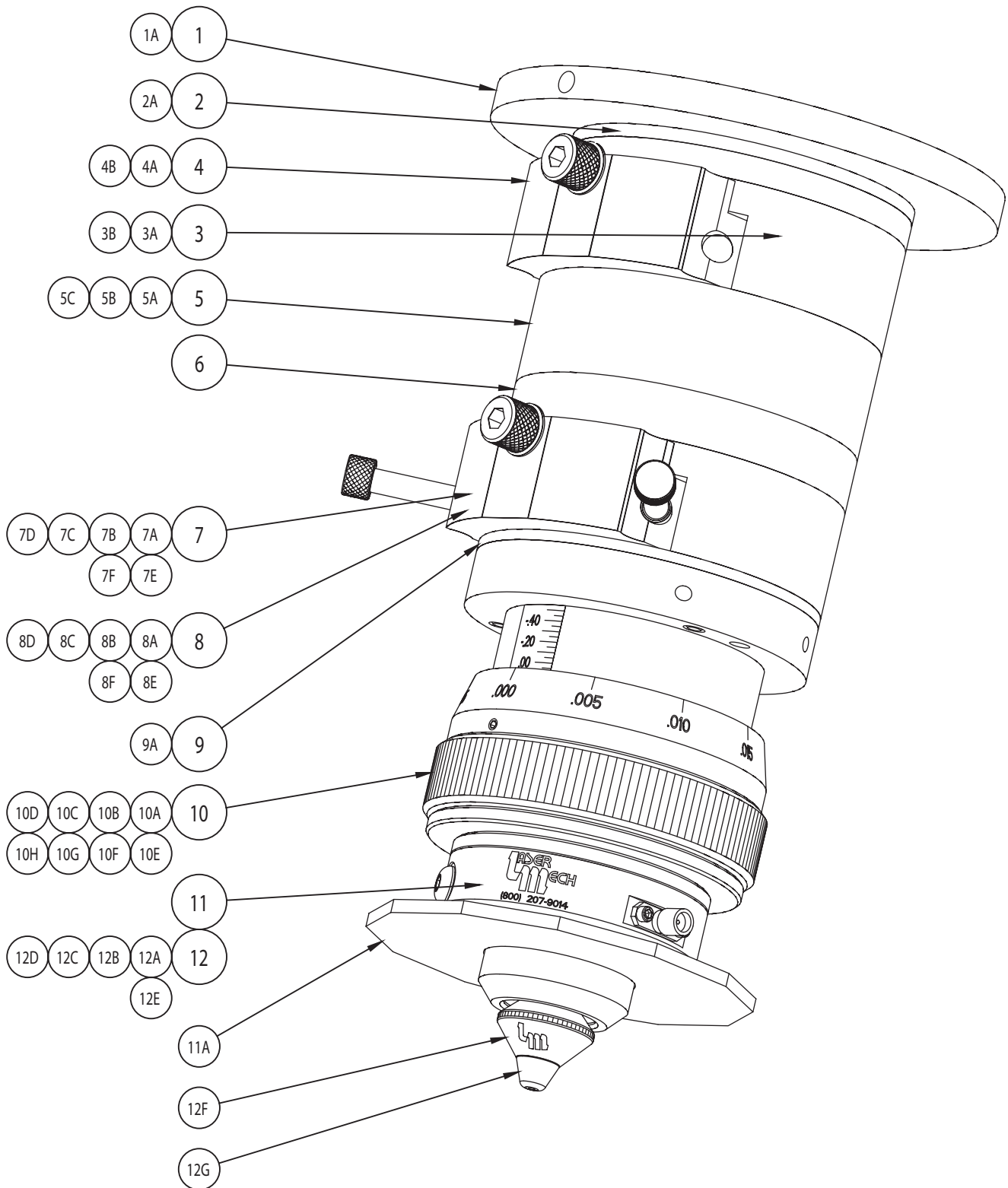
Auto Focus Head



Saturn IV Non-Contact Head

Item	LM Part #	Cincinnati Part #	Description
Complete Head Assembly			
	PLACF0153	924729	Saturn IV Non-Contact Head, 5.0"/7.5" FL (1.5"/2.0" Dia. Lens)
Head Sub-Assembly			
1	PLADR0330		Magnetic Breakaway Flange
1A	PLSCR0005	908532	SHCS 1/4-20 X 4.5" Long
2	PLSBA0156	925001	Air-Cooled Spacer Block – 0.250" Thick
2A	PLMOR0002		Spacer Block O-ring
3	PLLMB0084		Lens Manifold Block
3A	PLDLP0002	922466	Dowel Pin (Round)
3B	PLDLP0001	922470	Dowel Pin (Diamond)
4	PLEMS0018	924742	Empty Manifold Seal
4A	PLMSR0012	912777	Manifold Seal Ring
4B	PLAJS0015		Locking Screw – Front Adjusting Lens Holder
5	PLSBA0144		Air-Cooled Spacer Block – 1.00" Thick
5A	PLMOR0017		Spacer Block O-ring
5B	PLMOR0020		Spacer Block O-ring
5C	PLDLP0005		Dowel Pin 1/4 x 1/2
6	PLSBW0056		Water-Cooled Spacer Block
Lens Holders			
7	PLALH0088	924709	1.5" Lens Holder
7A	PLLRN0002	909320	1.5" Lens Retainer Nut
7B	PLLOR0001	912778	1.5" Lens O-ring
7C	PLLSR0001	909321	1.5" Lens Seal Ring
7D	PLMSR0012	912777	Manifold Seal Ring
7E	PLAJS0003		Lens Adjuster Screw
7F	PLAJS0015		Locking Screw – Front Adjusting Lens Holder
8	PLALH0089	924710	2.0" Lens Holder
8A	PLLRN0023		2.0" Lens Retainer Nut
8B	PLLOR0002	922487	2.0" Lens O-ring
8C	PLLSR0003	922474	2.0" Lens Seal Ring
8D	PLMSR0012	912777	Manifold Seal Ring
8E	PLAJS0003		Lens Adjuster Screw
8F	PLAJS0015		Locking Screw – Front Adjusting Lens Holder
<i>For focusing lenses, see page 2.</i>			
9	PLSBA0145		Air-Cooled Spacer Block – 0.100" Thick
9A	PLMOR0021		Spacer Block O-ring
Gas Jet Manifold			
10	PLGJM0190	924743	Gas Jet Manifold - 3.20" Series
10A	PLLAB0003		Vertical Scale for Gas Jet Manifolds
10B	PLSCR0009	923018	Brass-Tipped Set Screw (Sliding Barrel)
10C	PLMSR0003	922471	Manifold Seal Ring
10D	PLMSR0011	923790	Dust Wiper Seal Ring
10E	PLSCR0028		Brass-Tipped Set Screw (Numeric Ring)
10F	PLMOR0015		O-ring for Sliding Barrel
10G	PLMOR0001		O-ring for Tip Adapter Flange
10H	PLLUB0006	922822	Non-Flammable Lubricating Oil (1 oz.)
Capacitive Tip Assembly Components			
11	PLTRA0346	923257	Tip Assembly With Shield (See Item 12 for details)
11A	PLSLD0002	923381	Rapid Pierce Shield
12	PLTRA0328		Height Sensing Tip Without Shield
12A	PLTRA0159	923843	Top-Threaded Retainer Ring
12B	PLSCR0016		4-40 X .25" SHSS
12C	PLISR0009	923631	Copper-Lined Insulator Hub
12D	PLFRK0011	923411	Field Repair Kit
12E	PLTOR0007		Tip Assembly O-ring
12F	PLTRA0321	923021	Tip Retainer Nut
12G	PLGJT0039	909660	0.060" Orifice Non-Contact Nozzle (For other nozzle sizes, see Page 3)
Additional Tools & Accessories (Not Shown)			
	PLKIT0052		Saturn IV Seal Kit
	PLTTW0002	909654/922686	Tip Transformer Wire – 4.5" Long (White)
	PLTTW0015	842951	Tip Transformer Wire – 5.5" Long (Brown)

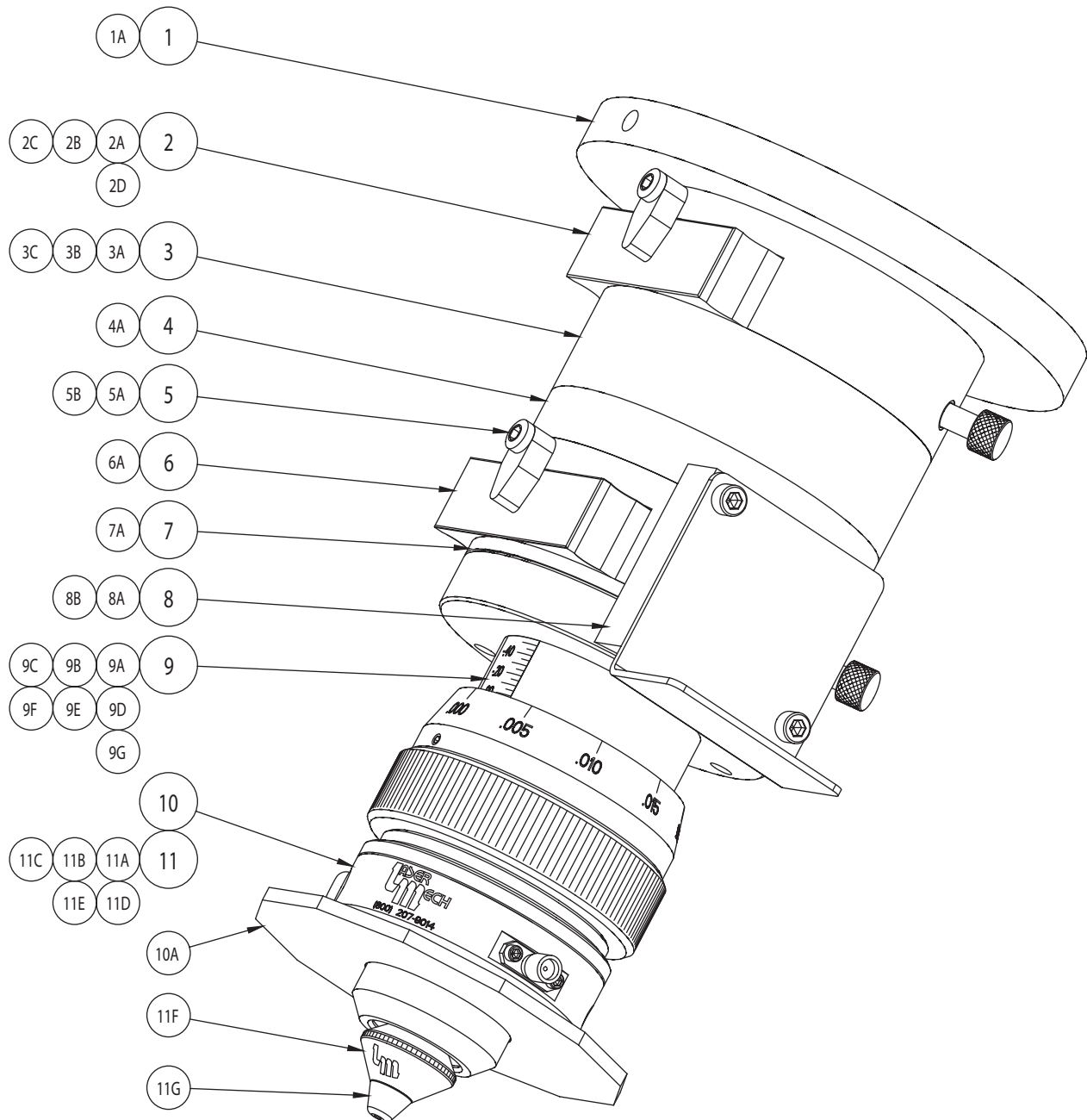
Saturn IV Non-Contact Head



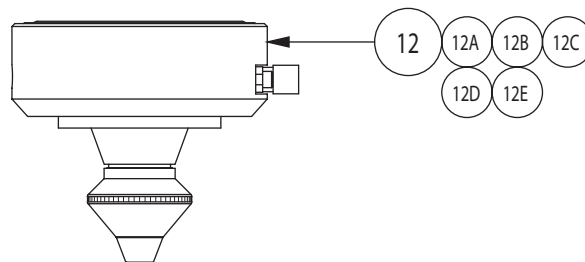
Saturn III Non-Contact Head

Item	LM Part #	Cincinnati Part #	Description
Complete Head Assembly			
	PLACF0132	923602	Saturn III Non-Contact Head, 5.0"/7.5" FL (1.5" Dia. Lens)
Head Sub-Assembly			
1	PLADR0130		Adapter Ring
1A	PLSCR0013		SHCS 1/4-20 X 4.25" Long
Lens Holder			
2	PLALH0034	909359	Adjustable Lens Holder
2A	PLLRN0002	909320	1.5" Lens Retainer Nut
2B	PLLOR0001	912778	1.5" Lens O-ring
2C	PLLSR0001	909321	1.5" Lens Seal Ring
2D	PLMSR0001	922239	Manifold Seal Ring
<i>For focusing lenses, see page 2.</i>			
3	PLSBA0001	909357	Air-Cooled Spacer Block – 1.00" Thick
3A	PLSBS0002		Air-Cooled Spacer Block Seal Kit
3B	PLDLP0001	909307	Dowel Pin (Diamond)
3C	PLDLP0002	922466	Dowel Pin (Round)
4	PLSBW0036	922882	Water-Cooled Spacer Block – 0.50" Thick, 1/8" NPT
4A	PLSBS0001	908575	Water-Cooled Spacer Block Seal Kit
5	PLLMB0068	923016	Lens Manifold Block
5A	PLAJS0014	922481	Lens Adjuster Screw
5B	PLLOC0005	922467	Lens Lever Lock
6	PLEMS0012	923940	Empty Manifold Seal – Spring-Loaded
6A	PLMSR0001	922239	Manifold Seal Ring
7	PLSBA0027	923061	Air-Cooled Spacer Block – 0.125" Thick
7A	PLSBS0002		Air-Cooled Spacer Block Seal Kit
8	PLTTB0003	840540	Tip Transformer Bracket
8A	PLTTA0009	841836	Tip Transformer Assembly
8B	PLSHD0001	922712	Transformer Heat Shield
Gas Jet Manifold			
9	PLGJM0145	923023	Gas Jet Manifold
9A	PLLAB0003		Vertical Scale for Gas Jet Manifolds
9B	PLMOR0012		Sliding Barrel O-ring
9C	PLSCR0009	923018	Brass-Tipped Set Screw (Sliding Barrel)
9D	PLMSR0009	923019	Manifold Dust/Wiper Seal
9E	PLSCR0028		Brass-Tipped Set Screw (Numeric Ring)
9F	PLMOR0001		Tip Adapter O-ring
9G	PLLUB0006	922822	Non-Flammable Lubricating Oil (1 oz.)
Capacitive Tip Assembly Components			
10	PLTRA0346	923257	Tip Assembly With Shield (See Item 11 for details)
10A	PLSLD0002	923381	Rapid Pierce Shield
11	PLTRA0328		Height Sensing Tip Without Shield
11A	PLTRA0159	923843	Top-Threaded Retainer Ring
11B	PLSCR0016		4-40 X .25" SHSS
11C	PLISR0009	923631	Copper-Lined Insulator Hub
11D	PLFRK0011	923411	Field Repair Kit
11E	PLTOR0007		Tip Assembly O-ring
11F	PLTRA0321	923021	Tip Retainer Nut
11G	PLGJT0039	909660	0.060" Orifice Non-Contact Nozzle (For other nozzle sizes, see Page 3)
12	PLTRA0320	923022	Height Sensing Tip Assembly
12A	PLMSR0001	922239	Manifold Seal Ring
12B	PLSCR0015	911779	4-40 X 0.375" SHCS Nylon
12C	PLISR0007	923260	Ceramic Centering Hub
12D	PLTRA0325	923258	Tip Retainer Inner Cone
12E	PLISR0006	923259	Insulating Spacer Ring
Additional Tools & Accessories (Not Shown)			
	PLKIT0051		Saturn III Seal Kit
	PLLIT0017	925210	1.5"/2.0" Lens Insertion Tool
	PLSPW0018	923890-X	Tip Spanner Wrench
	PLTTW0002	909654/922686	Tip Transformer Wire

Saturn III Non-Contact Head



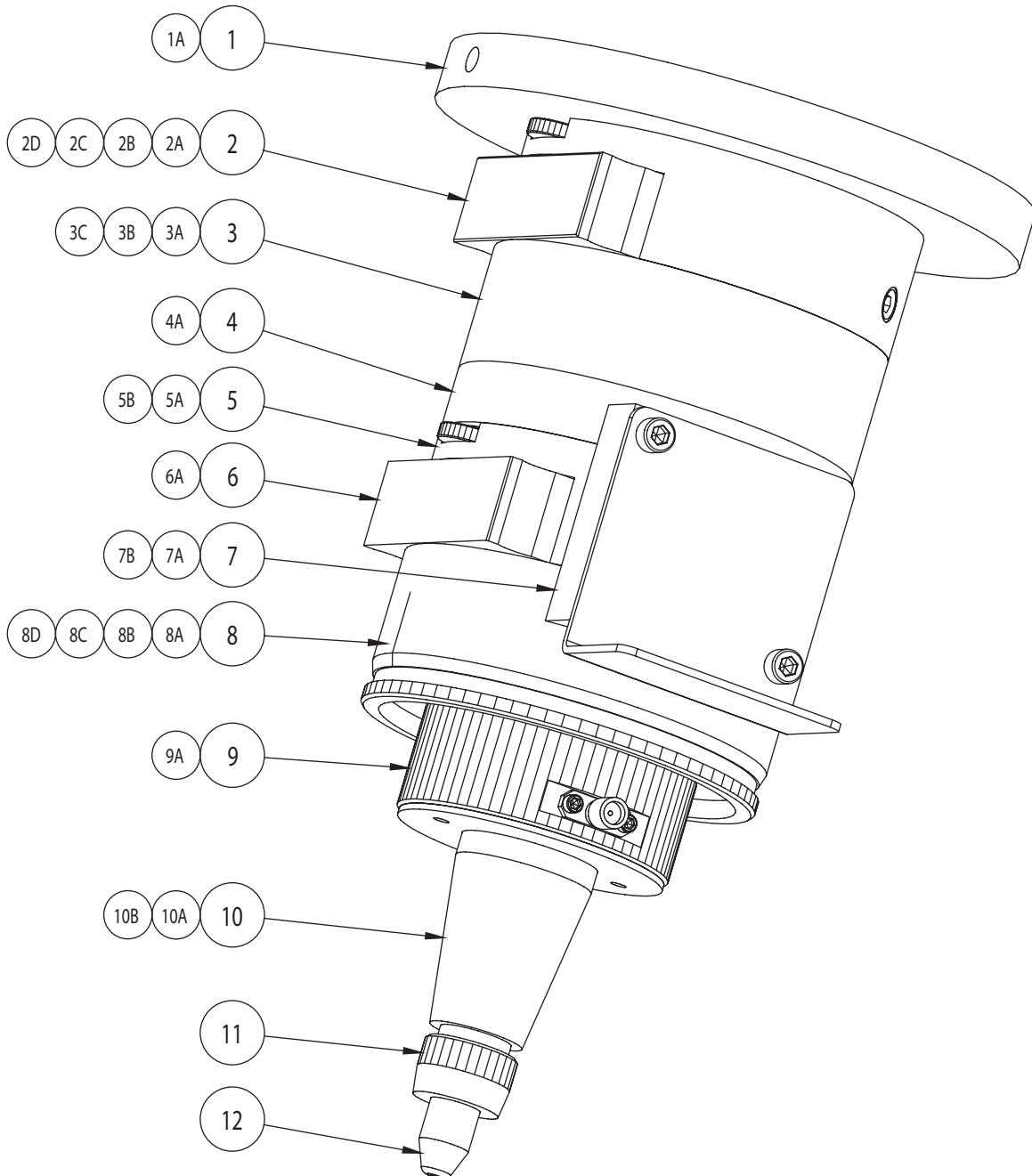
Alternate Tip Assembly (Saturn II)



Standard Non-Contact Head

Item	LM Part #	Cincinnati Part #	Description
Complete Head Assembly			
	PLACF0048	909598	Non-Contact Head, 5.0"/7.5" FL (1.5" Dia. Lens)
Head Sub-Assembly			
1	PLADR0130		Adapter Ring
1A	PLSCR0011		SHCS 1/4-20 X 4.00" Long
Lens Holder			
2	PLALH0034	909359	Adjustable Lens Holder
2A	PLLRN0002	909320	1.5" Lens Retainer Nut
2B	PLLOR0001	912778	1.5" Lens O-ring
2C	PLLSR0001	909321	1.5" Lens Seal Ring
2D	PLMSR0001	922239	Manifold Seal Ring
<i>For focusing lenses, see page 2.</i>			
3	PLSBA0001	909357	Air-Cooled Spacer Block – 1.00" Thick
3A	PLSBS0002		Air-Cooled Spacer Block Seal Kit
3B	PLDLP0001	909307	Dowel Pin (Diamond)
3C	PLDLP0002	922466	Dowel Pin (Round)
4	PLSBW0036	922882	Water-Cooled Spacer Block – 0.50" Thick, 1/8" NPT
4A	PLSBS0001	908575	Water-Cooled Spacer Block Seal Kit
5	PLLMB0001	909360	Lens Manifold Block
5A	PLAJS0001	909330	Lens Adjuster Screw
5B	PLLTS0001	908121	Lens Thumb Screw
6	PLEMS0001	909361	Empty Manifold Seal
6A	PLMSR0001	922239	Manifold Seal Ring
7	PLTTB0003	840540/923621	Tip Transformer Bracket
7A	PLTTA0009	841836	Tip Transformer Assembly (Not Shown)
7B	PLSHD0001	922712	Tip Transformer Heat Shield
Gas Jet Manifold			
8	PLGJM0135	909653	Gas Jet Manifold With Composite Barrel
8A	PLMOR0004	909655	Sliding Barrel O-ring
8B	PLSBL0016	922408	Composite Sliding Barrel
8C	PLVSR0001	907473	Vernier Seal Ring
8D	PLLUB0006	922822	Non-Flammable Lubricating Oil (1 oz.)
Tip Assembly Components			
9	PLTRA0051	909657	Tip Retainer Assembly – Standard Non-Contact
9A	PLMSR0001	922239	Manifold Seal Ring
10	PLTRE0055	909658	Tip Retainer Extension
10A	PLTOR0003	909664	Tip Retainer O-ring
10B	PLTRE0057	909681	Tip Retainer Extension (Short 0.857") For 3.5" FL Head (Not Shown)
11	PLTRA0069	909659	Tip Retainer Nut
12	PLGJT0039	909660	0.060" Orifice Non-Contact Nozzle (For other nozzle sizes, see Page 3)
Additional Tools & Accessories (Not Shown)			
	PLKIT0065		Standard Non-Contact Seal Kit
	PLTTW0002	909654/922686	Tip Transformer Wire
	PLMAT0002		Manifold Alignment Target

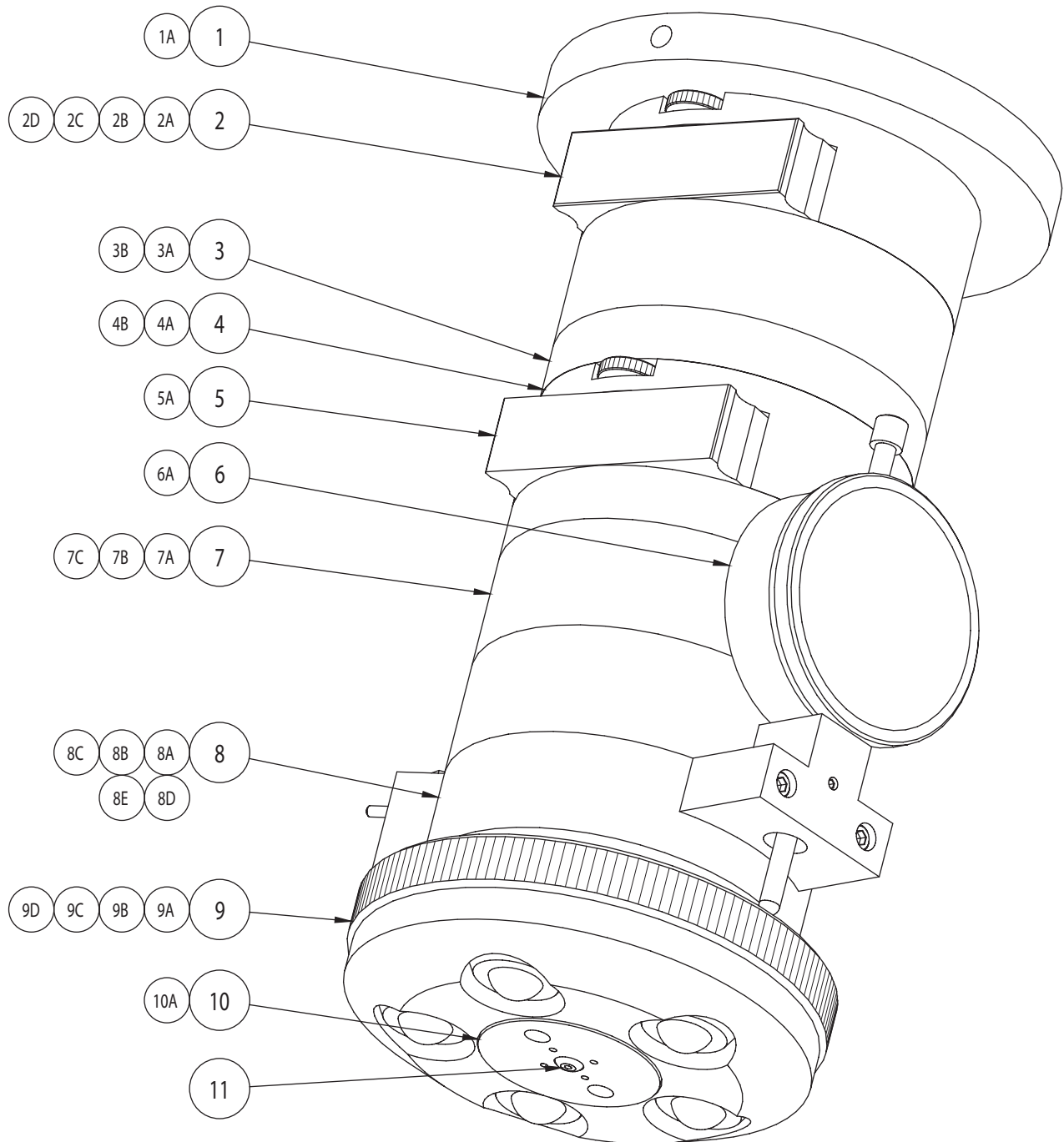
Standard Non-Contact Head



Contact Head

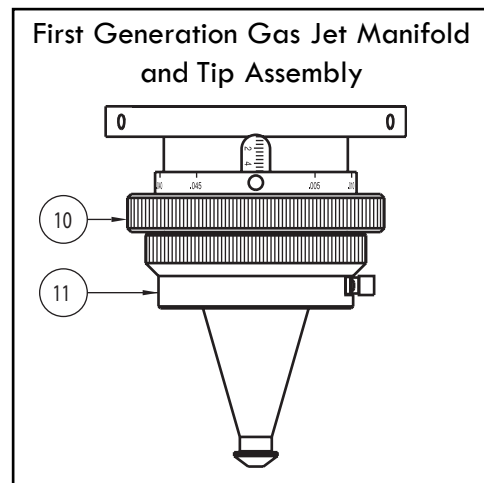
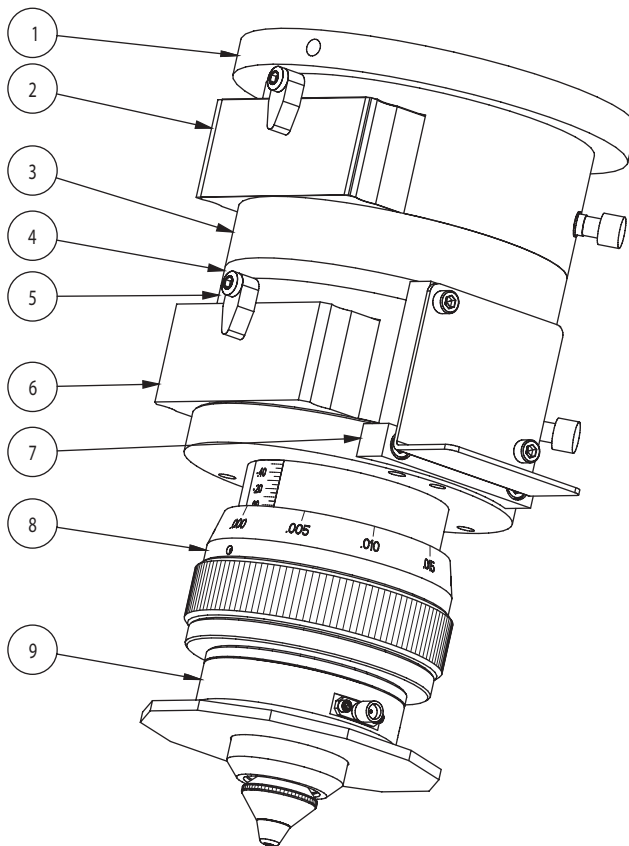
Item	LM Part #	Cincinnati Part #	Description
Complete Head Assembly			
	PLACC0089	909517	Contact Head, 5.0"/7.5" FL (1.5" Dia. Lens)
Head Sub-Assembly			
1	PLADR0111	909504	Adapter Ring
1A	PLSCR0002		SHCS 1/4-20 X 6.50" Long
Lens Holder			
2	PLALH0034	909359	Adjustable Lens Holder
2A	PLLRN0002	909320	1.5" Lens Retainer Nut
2B	PLLOR0001	912778	1.5" Lens O-ring
2C	PLLSR0001	909321	1.5" Lens Seal Ring
2D	PLMSR0001	922239	Manifold Seal Ring
<i>For focusing lenses, see Page 2.</i>			
3	PLSBW0036	922882	Water-Cooled Spacer Block – 0.50" Thick, 1/8" NPT
3A	PLSBS0001	908575	Water-Cooled Spacer Block Seal Kit
3B	PLFTG0020		Jumper 1/8" Tubing w/Fittings
4	PLLMB0001	909360	Lens Manifold Block
4A	PLAJS0001	909330	Lens Adjuster Screw
4B	PLLTS0001	908121	Lens Thumb Screw
5	PLEMS0001	909361	Empty Manifold Seal
5A	PLMSR0001	922239	Manifold Seal Ring
6	PLDID0001		Dial Indicator
6A	PLDIB0001	909328	Dial Indicator Bracket
7	PLSBA0001	909357	Air-Cooled Spacer Block – 1.00"
7A	PLSBS0002		Air-Cooled Spacer Block Seal Kit
7B	PLDLP0001	909307	Dowel Pin (Diamond)
7C	PLDLP0002	922466	Dowel Pin (Round)
Gas Jet Manifold			
8	PLGJM0110	909329	Gas Jet Manifold
8A	PLSFL0001	910543	Surface Follower Guard Lock
8B	PLSFB0001		Surface Follower Guard Lock Block
8C	PLMOR0001		Sliding Barrel O-ring
8D	PLSBL0006	909366	Sliding Barrel
8E	PLLUB0006	922822	Non-Flammable Lubricating Oil (1 oz.)
Follower Guard & Tip Retainer			
9	PLSFG0016	909368	Surface Follower Guard
9A	PLVSR0001	907473	Vernier Seal Ring
9B	PLBTR0001	907468	Ball Transfer
9C	PLBTR0004		Ball Transfer w/Lube Hole
9D	PLTRT0001	909267	Tip Retainer Tool
10	PLTRA0009	907677	Tip Retainer Nut w/Seal Ring
10A	PLMSR0002	907472	Manifold Seal Ring
11	PLGJT0031	907470	0.060" Orifice – 0.050" Standoff Nozzle
<i>For other nozzle sizes and standoffs, see Page 3.</i>			

Contact Head



2.0" Saturn Non-Contact Head

Item	LM Part #	Cincinnati Part #	Description
Head Sub-Assembly			
1	PLADR0213	909473	Adapter Ring
2	PLALH0065	922475	Adjustable Lens Holder
3	PLSBW0052	922639	Water-Cooled Spacer Block – 0.75" Thick
4	PLSBA0016		Air-Cooled Spacer Block – 0.25" Thick
5	PLLMB0066		Lens Manifold Block
6	PLEMS0013	922477	Empty Manifold Seal
7	PLTTB0012	923620	Tip Transformer Bracket
8	PLGJM0152		Gas Jet Manifold
9	PLTRA0346	923257	Tip Assembly With Shield
First Generation Gas Jet Manifold & Tip Assembly			
10	PLGJM0141	922489	Gas Jet Manifold
11	PLTRA0319	922612	Tip Assembly Un-shielded



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