

### **CMI 273i and CMI 300**

### **CONSUMABLE PARTS CATALOG**





**CMI 273** 

CMI 300 Trio

Please note that some vehicle manufacturers require specific welding wire including: Honda 980 MgP steel using .8 mm ER70S-3, Subaru and Toyota. Please refer to manufacture repair procedures.

Application	Wire Si	ze	Wire	Wire Feed	Wire	Contact
	mm	inches	Example	Kit	Liner	Tip
Aluminum	1.2 mm*	(0.047")	ER5356	73940058 Red U	80160713	80130204
Aluminum	1.0 mm**	(0.040")	ER4043	73940056 BI U	80160711	80130203
	.9 mm**	(0.035")	ER5356	73940104 Gr U	80160711	80130203
MIG Brazing	.9 mm**	(0.035")	CuSi3	73940104 Gr U	80160711	80130203
	.8 mm**	(0.030")	CuSi3	73940054 Wh V	80160521	80130202
Steel	1.0 mrn	(0.040")	ER70S -6	NA-73940055 BI V	80160521	80130203
	0.9 mm	(.035")	ER70S-6	NA-73940103 Gr V	80160521	80130203
	0.8 mm	(0.030")	ER70S -6	73940054 Wh V	80160521	80130202
	0.6 mm	(0.023")	ER70S -6	73940083 BlWh V	80160520	80130201

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### **Color Coded Feed System**

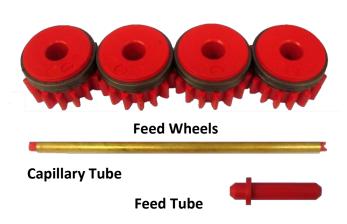
The wire feed is color coded to indicate the diameter of the wire it is intended for. Proper tolerances are built into the system. That means there is no need to mix and match parts as you would with some welders; i.e., using a 1.0mm liner with a 1.2mm contact tip. All Feed System parts need to match the wire size.





### **Wire Feed Kit**

The internal portion of the Feed System is made up of three parts, the Feed Wheels, the Feed Tube, and the Capillary Tube. These parts can be purchased together as a Feed Kit or individually.



### **Feed Tube**

The Feed Tube guides the wire between the two sets of feed wheels.



### **Capillary Tube**

The capillary tube takes the wire from the feed wheels to the wire liner in the torch. The beveled end of the tube extends to where the feed wheels meet and the flat end of the tube butts up against the torch connector. This setup minimizes the possibilities of the wire "bird's nesting".

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### **Feed Wheels**

The groove in the Feed Wheel differs depending on the type of wire used. Steel and Stainless Steel are hard wires and use a "V" shaped groove. Aluminum and Bronze are soft wires and require a "U" shaped groove. The "U" shape provides more contact with the wire, thus preventing damage. The Feed Wheels have an indicator molded into them for easy identification. The 0.6mm (0.023") wire uses two white "V" wheels along with two black flat (no groove) wheels.



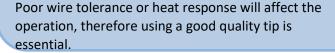
### **Wire Liner**

The wire liner extends through the torch and provides the conduit for the wire. Like the wheels, different types of wire require different liners.



### **Contact Tips**

The Contact Tip transfers the welding current to the wire. The torches use a contact tip with a standard M6 thread. Each contact tip is stamped with the sizes of .6 mm through 1.2 mm.



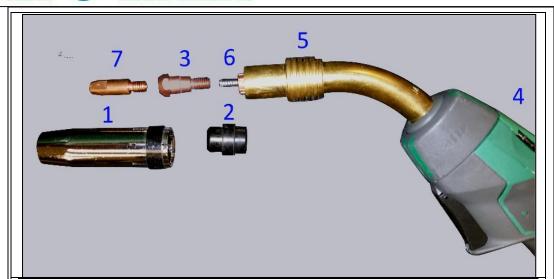


### **Welding Torch**

The CMI273i and CMI 300 welders use the ML240 Twist 4 Meter remote torch.



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ML240 / PL240 Torch					
1	80140610	Gas Nozzle - ML/MV240			
2	83077480	Gas Diffuser - ML/MV240			
3	83077149	Tip Adaptor - ML/MV240			
4	80100402	Remote Module - Dialog - Twist			
5	80152402	Swan Neck – ML240 Twist			

Wire Liners - 3M or 4M Torches					
	80160520	Wire Liner - 0.6 mm - Steel			
6	80160521	Wire Liner - 0.8 -1.0 mm - Steel			
	80160554	Wire Liner - 0.8 -1.2 mm - Steel/Teflon			

Contact Tips					
	80130201	Contact Tip - 0.6 mm - M6			
	80130202	Contact Tip - 0.8 mm - M6			
	80130203	Contact Tip - 1.0 mm - M6			
7	80130204	Contact Tip - 1.2 mm - M6			
	80131200	Contact Tip - 0.8 mm - M6 - CuCrZr			
	80131201	Contact Tip - 1.0 mm - M6 - CuCrZr			
	80131202	Contact Tip - 1.2 mm - M6 - CuCrZr			