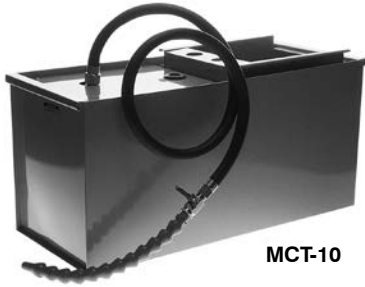


## LITTLE GIANT MACHINE TOOL COOLANT MCT-5P & MCT-10

### OWNER'S MANUAL



MCT-10

**PUMP NOT INCLUDED**

See chart for recommended Little Giant Pump.

- ASSEMBLY
- INSTRUCTIONS
- OPERATION
- REPAIR
- SAFETY

#### CAUTION

Read Safety Guidelines and Instructions Carefully.

### INTRODUCTION

Little Giant Machine Tool Coolants are carefully packaged, inspected and tested to insure safe operation and delivery. When you receive the unit, examine it carefully to determine that there are no broken or damaged parts that may have occurred during shipment. If damage has occurred, make notation and notify the firm from which you purchased the unit. They will assist you in replacement or repair if required.

Little Giant Machine Tool Coolant comes without a pump. Use the recommended pumps chart to determine which pump is most suited for your use.

### SAFETY GUIDELINES

1. Read all instructions and safety guidelines thoroughly. Failure to follow the guidelines and instructions could result in serious bodily injury and/or property damage.
2. Do not pump flammable liquids such as gasoline or fuel oil with Little Giant pumps.
3. When working on the Machine Tool Coolant or pump, make sure that the power is turned off.
4. Make sure that the outlet for the pump is grounded.
5. Refer to pump instruction sheet for safety guidelines specifically for the pump.

### MACHINE TOOL COOLANT PUMP ASSEMBLY

1. Tools required (MCT-10 only): screwdrivers; one small Phillips and one medium straight blade; 1/4" socket with drive; and a roll of PTFE tape.
2. Unpack Machine Tool Coolant from the carton. Check the parts included with the parts diagram on the back of this sheet. For the MCT-10: remove chip collector and tank cover from tank by removing the 4 holding screws. Save these screws for later use.
3. Assembly:

#### For MCT-10:

Remove wrapping from package and take out the 6" long pipe nipple (there will be a coupling attached to one end). Attach the end of the nipple with the coupling to the 1/2" NPT discharge of the pump. Be sure to wrap one layer of PTFE tape around the pipe threads and hand tighten only. NOTE: If 5-MSP pump is used for pumping, attach adaptor 941023 to the garden hose adaptor supplied with the pump attached to the pump discharge.

Mount top of 3E or 4E pump to the bracket on the underside of tank cover with screws provided. Hand tighten screws into the pump. Front of pump (3E or 4E) must face the closest end of the tank. Force power cord through the hole with the rubber grommet. NOTE: If 5-MSP is used, pump will rest on bottom of tank, it is not fastened to the tank cover like the 3E or 4E pumps.

Install tank cover back onto tank, use 4 screws to secure the cover (torque 25-30 inch-pounds).

Place chip collector into tank. The louvers must face away from the pump end of the tank. Locate detector in chip collector with bend up against the divider and detector centered in the half of the chip collector without the louvers at the end. Refer to illustration on back cover of this instruction sheet for location.

Attach the rubber coolant hose onto the nipple (use PTFE tape on threads). Hand tighten only. Attach shutoff valve and flexible nozzle onto coolant hose (use PTFE tape to seal all pipe threads).

Your Machine Tool Coolant is now ready for operation. If any leakage occurs, tighten the leaking connections. If further problems develop contact your nearest Little Giant distributor.

#### For MCT-5P:

Determine what size pump you will need. Pumps will either have 1/2" MNPT discharge or 1/4" MNPT discharge. For pumps with 1/2" MNPT discharge use the 1/2" FNPT x 1/2" I.D. hose adaptor to discharge.

Slip the 1/2" x 6' hose onto discharge the pump (or adapter).

Place pump in one end of plastic tank. Insert baffle in middle of tank.

Push cord on pump through one hole in the clear cover and push hose through the other hole. Install cover onto tank.

Assemble nozzle-valve. Install flexible nozzle to plastic reducer then install plastic reducer onto valve (hand tighten only). Install barbed 1/2" hose x 3/8" NPT adaptor to valve. Slip 1/2" I.D. hose onto barbed adaptor.

Place chip collector screen into hole on clear cover.

Your Machine Tool Coolant is now ready for operation. If any leakage occurs, tighten fittings. If further problems result, please contact one of the authorized Little Giant distributors in your area.

### MAINTENANCE

1. Never let sludge or excessive chips build up around pump. Periodically clear out the chip collector and any sludge that may accumulate in the bottom of the tank. The chip collector is designed to filter out abrasive media that may damage the pump. Baffles are used to aid in the filtering of sludge chips and will clean the coolant oil prior to being pumped.
2. See pump instructions for cleaning and servicing the pump.
3. Never operate Machine Tool Coolant without chip collector. Chips that get pumped through the pump head can damage the seal.

### PUMP SELECTION

See chart below for pump selection and performance. Check pump materials of construction for chemical resistance of pump against the cutting oil you plan to use. Do not use cutting oil that may attack the materials used in the pump. Do not use cutting oils with viscosities greater than the pump can handle. The smaller Little Giant pumps that are used for the MCT-5P cannot pump 300 SSU cutting oil efficiently. Pumping oil of this viscosity can cause premature failure of the pump due to over-heating

RECOMMENDED PUMPS FOR NEW UNITS, MCT-5P & MCT-10																	
FOR MCT UNIT	PUMP MODEL NO.	PUMP CAT. NO.	G.P.H. WATER SOLUBLE OIL					G.P.H. 110 SSU/CUTTING OIL					G.P.H. 300 SSU/CUTTING OIL				
			1'	3'	6'	12'	Shut Off	1'	3'	6'	12'	Shut Off	1'	3'	6'	12'	Shut Off
			MCT-5P	1-Y	501020	72	60	36	—	7.4	24	14	—	—	3.5	—	—
NK-1	526003	70		60	40	—	10.2	24	14	—	—	5.0	—	—	—	—	
NK-2	527003	82		78	64	6	12.3	35	29	19	2	6.1	—	—	—	—	
3E-12N	503103	127		123	113	89	17.3	89	86	79	62	16.8	70	65	60	47	15.7
MCT-10	4E-34N	504103	134	128	119	100	23.1	95	89	81	68	18.3	75	71	64	54	17.5
	3E-12N	503103	197	192	182	155	17.3	139	133	123	105	16.8	108	100	93	80	15.7
	4E-34N	504103	210	204	192	162	23.1	157	156	150	126	19.4	124	123	120	100	18.6
	5-MSP	505000	212	208	198	167	26.3	161	159	154	129	21.4	127	125	123	102	20.5
	6-CIM	506254	185	178	163	118	18.0	138	136	127	92	14.7	108	107	101	73	14.0

### LIMITED WARRANTY

THIS WARRANTY SETS FORTH THE COMPANY'S SOLE OBLIGATION AND PURCHASER'S EXCLUSIVE REMEDY FOR DEFECTIVE PRODUCT.

Franklin Electric Company, Inc. and its subsidiaries (hereafter "the Company") warrants that the products accompanied by this warranty are free from defects in materials or workmanship of the Company that exist at the time of sale by the Company and which occur or exist within the applicable warranty period. Any distributor, sub-distributor, recipient, end-user and/or consumer agrees that by accepting the receipt of the products, the distributor, sub-distributor, recipient, end user and/or consumer expressly agrees to be bound by the terms of the warranty set forth herein.

#### I. APPLICABLE WARRANTY PERIOD

The products accompanied by this warranty shall be covered by this Limited Warranty for a period of 12 months from the date of original purchase by the consumer. In the absence of suitable proof of purchase date, the warranty period of this product will begin to run on the product's date of manufacture.

#### II. INSTRUCTIONS APPLICABLE TO THIS LIMITED WARRANTY

1. Consumers wishing to submit a warranty claim must return the products accompanied by this warranty to the point of purchase for warranty consideration.
2. Upon discovery of a defect, any personal injury, property damage or any other type of resulting damage, if applicable, shall be reasonably mitigated to the extent possible.
3. At its discretion, the Company may inspect products either at its facilities or in the field, and after determination of a warranty claim, will, at its option, repair or replace defective parts. Repaired or replaced parts will be returned freight prepaid by the Company.
4. This warranty policy does not cover any labor or shipping charges. The Company shall not be liable for any costs or charges attributable to any product testing, maintenance, installation, repair or removal, or for any tools, supplies, or equipment needed to install, repair, or remove any product.



**III. LIMITATIONS APPLICABLE TO THIS LIMITED WARRANTY**  
**THIS WARRANTY DOES NOT APPLY TO ANY OF THE FOLLOWING:**

1. Any product that is not installed, applied, maintained and used in accordance with the Company's published instructions, applicable codes, applicable ordinances and/or with generally accepted industry standards.
2. Any product that has been subject to misuse, misapplication, neglect, alteration, accident, abuse, tampering, acts of God (including lightning), acts of terrorism, acts of war, fire, improper storage or installation, improper use, improper maintenance or repair, damage or casualty, or to an excess of the recommended maximums as set forth in the product instructions.
3. Any product that is operated with any accessory, equipment, component, or part not specifically approved by the Company.
4. Use of replacement parts not sold by the Company, the unauthorized addition of non-Company products to other Company products, and the unauthorized alteration of Company products.
5. Products damaged by normal wear and tear, normal maintenance services and the parts used in connection with such service, or any other conditions beyond the control of the Company.
6. Any product that has been used for purposes other than those for which it was designed and manufactured.
7. Any use of the product where installation instructions and/or instructions for use were not followed.

The Company reserves the right at any time, and from time to time, to make changes in the design and/or improvements upon its product without thereby imposing any obligation upon itself to make corresponding changes or improvements in or upon its products already manufactured and/or previously sold. The Company further reserves the right to substitute parts or components of substantially equal quality in any warranty service required by operation of this Limited Warranty.

This written Limited Warranty is the entire warranty authorized and offered by the Company. There are no warranties or representations beyond those expressed in this document.

**THIS WARRANTY AND REMEDY IS IN LIEU OF ALL OTHER WARRANTIES AND REMEDIES INCLUDING WITHOUT LIMITATION, WARRANTIES OF**

**MERCHANTABILITY AND/OR FITNESS FOR A PARTICULAR PURPOSE, WHICH ARE HEREBY SPECIFICALLY DISCLAIMED AND EXPRESSLY EXCLUDED. CORRECTION OF NON-CONFORMITIES, IN THE MANNER AND FOR THE PERIOD OF TIME AS SET FORTH ABOVE, SHALL CONSTITUTE FULFILLMENT OF ALL LIABILITY OF THE COMPANY TO THE PURCHASER WHETHER BASED ON CONTRACT, NEGLIGENCE, OR OTHERWISE.**

**THE COMPANY SHALL NOT BE LIABLE FOR INCIDENTAL, CONSEQUENTIAL OR SPECIAL DAMAGES SUCH AS, BUT NOT LIMITED TO:**

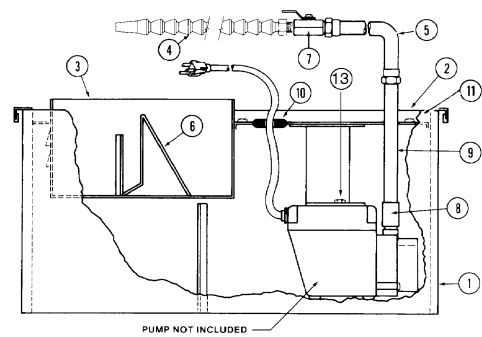
**DAMAGE TO OR LOSS OF OTHER PROPERTY OR EQUIPMENT, LOSS OF USE OF EQUIPMENT, FACILITIES OR SERVICE, LOSS OF PROFIT OR SALES, COST OF PURCHASES OR REPLACEMENT GOODS, CLAIMS OF CUSTOMERS OF THE PURCHASER, FAILURE TO WARN AND/OR INSTRUCT, LOSS OF OTHER PRODUCTS, OR COSTS OF ENVIRONMENTAL REMEDIATION, OR DIMINUTION IN PROPERTY VALUE. THE REMEDIES OF THE PURCHASER SET FORTH HEREIN ARE EXCLUSIVE, AND THE LIABILITY OF THE COMPANY SHALL NOT, EXCEPT AS EXPRESSLY PROVIDED HEREIN, EXCEED THE PRICE OF THE PRODUCTS UPON WHICH SUCH LIABILITY IS BASED. DAMAGES AS SET FORTH IN THIS PARAGRAPH SHALL BE REASONABLY MITIGATED TO THE EXTENT POSSIBLE. THIS PARAGRAPH SHALL ALSO APPLY TO ALL DAMAGES RESULTING FROM CONDITIONS SET FORTH IN SECTION III ABOVE AND (1) DEFECTS IN PRODUCT PROTOTYPES OR REPLACEMENT PART PROTOTYPES THAT HAVE NOT BEEN PUT INTO PRODUCTION, CIRCULATED AND SOLD BY THE COMPANY, AND/OR (2) DEFECTS THAT WERE NOT FOUND AT THE TIME OF SALE DUE TO SCIENTIFIC AND TECHNOLOGICAL REASONS.**

This Limited Warranty gives you specific legal rights. You may have other rights, which vary according to the applicable laws and regulations. Where any term of this warranty is prohibited by such laws, it shall be null and void, but the remainder of this warranty shall remain in full force and effect.

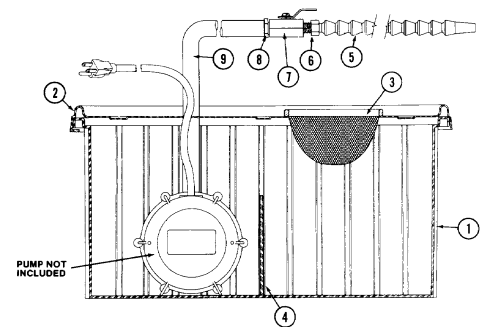
**DISCLAIMER:** Any oral statements about the product made by the seller, the Company, the representatives or any other parties, do not constitute warranties, shall not be relied upon by the user, and are not part of the contract for sale. Seller's and the Company's only obligation, and buyer's only remedy, shall be the replacement and/or repair by the Company of the product as described above. Before using, the user shall determine the suitability of the product for his intended use, and user assumes all risk and liability whatsoever in connection therewith.

PARTS LIST FOR MCT-10		
ITEM NO.	MFR'S PART NO.	PART DESCRIPTION
1	160300	Tank Assembly (Steel)
2	160301	Cover (Steel)
3	160303	Chip Collector (Steel)
4	160414	Flex Plastic Nozzle -12"
5	160306	Rubber Hose (Coolant Hose)
6	160313	Deflector
7	940010	Valve, Metal Hose, 3/8"
8	945008	Coupling Pipe - 1/2"
9	942186	Nipple, 1/2 X 6"
10	925002	Grommet
11	902416	Screw, Tap 8-18 X 3/8"
12	941023	Adapter, (Not Shown)
13	902429	Screw, Tap 8-18 X 5/16"

PARTS LIST FOR MCT-5		
ITEM NO.	MFR'S PART NO.	PART DESCRIPTION
1	160115	Tank (5 Gal. Plastic)
2	160114	Cover, Tank
3	160206	Screen, Chip
4	160116	Baffle, 4-3/8 X 9-3/4"
5	160413	Flex Plastic Nozzle -12"
6	949003	Reducer, 3/8" NPT X 1/4" NPT
7	940010	Valve, Metal Hose 3/8"
8	941041	Adapter, 1/2" X 3/8" NPT
9	944202	Tubing, 1/2" X 6' Vinyl
10	941004	Adapter, (Not Shown)



**MCT-10**



**MCT-5**

**KEEP THIS FOLDER**

File this for safe keeping. It may be valuable to you for service under the terms of the warranty.

Date of Purchase \_\_\_\_\_ Dealer Name \_\_\_\_\_

For technical assistance, please contact ..... 800.701.7894  
[www.franklinwater.com](http://www.franklinwater.com)  
[CustomerService@lgpc.com](mailto:CustomerService@lgpc.com)