

WIRING INSTRUCTIONS

TITLE GROUNDING THUNDERBOLT™ / THUNDERMAX™ ROTARY HAMMERS

BULLETIN
58-01-1556

MILWAUKEE ELECTRIC TOOL CORP. 13135 WEST LISBON RD. BROOKFIELD, WIS.

DATE
Sept. '96

NOTE:

Tuck all wiring into left handle half prior to assembling right handle half. This will avoid pinched wires.

NOTE:

Ground wire to be routed through this slot in motor assembly housing.

NOTE:

Motor housing illustration viewed from pinion end.

NOTE:

Wire tie to retain leads in general area as shown.

NOTE:

Fast-on terminals must be completely connected between leads 3 and 9.

NOTE:

Keep leads away from potential pinch points.

NOTE:

Route lead 7 through this trap. Lead 7 to be under leads 3 and 4.

NOTE:

Cord to be inserted into clamp trap. Cord to extend .25" minimum above top of clamp.

NOTE:

Route module leads, except lead 7, through bottom trap. May be routed in any order.

NOTE:

Route field leads 3, 4 and 11 through two wire traps in any order.

NOTE:

Tuck leads 5 and 6 away from armature.

Note:

Route ground wire behind gearcase leg and through motor housing assembly.

SWITCH CONNECTIONS

NOTE:

Brush to brush plate connections.

NOTE:

Brush shunt wires to be positioned up in brush tube slots, as shown, for full travel.

NOTE:

Brush springs must be seated in slot located on brush tubes.

BRUSH CARD ASSEMBLY

Uninsulated fast-on terminal

Tinned lead

Insulated fast-on terminal

TOP VIEW OF MODULE
NOTE: Leads can exit module in any order.

WIRING SPECIFICATIONS

Wire No.	Wire Color	Origin or Part No.	Gauge	Length	Terminals, Connectors and End Wire Preparation
1	White	Cord	16	4.5"	Strip .375" and tin for switch.
2	Black	Cord	16	4.5"	Strip .375" and tin for switch.
3	Red	Field	16	7"	Strip .20" for T4.
4	Red	Field	16	10"	Strip .25" and tin.
5	Yellow	Field	16	1.5"	Strip .18" for T1.
6	Black	Field	16	1.5"	Strip .18" for T1.
7	Black	Module	18	6"	Strip .25" and tin.
8	Black	Module	18	6"	Strip .16" for T2.
9	Black	Module	18	6.37"	Strip .20" for T3.
10	Green	Cord	16	3"	Strip .187 for C1.
11	Green	23-94-6101	16	11"	Leadwire Assembly

BULK LEAD WIRE - BULLETIN 58-01-0003

NOTE:

All leads must be held to $\pm 1/8"$. All lead lengths are before stripping.

TERMINAL DESCRIPTION

Code	Part No.	Qty.
T1	23-74-0750	2
T2	23-74-1060	1
T3	23-74-0440	1
T4	23-74-0970	1

CONNECTOR DESCRIPTION

Code	Part No.	Qty.
C1	22-56-0456	1