



<http://waterheatertimer.org/Intermatic-trippers-and-parts.html>

<http://waterheatertimer.org/How-to-troubleshoot-Intermatic-timer.html>

<http://waterheatertimer.org/How-to-wire-T104-Intermatic-timer.html>

Parts/Accessories Chart

For a complete and current parts/accessories chart please visit www.intermatic.com

Model	Description
Electronic Timers	
101--00040	Battery holder for ET100
101ET945A	Discontinued – use part number: 101--00040
133ET1189A	Power Board only for ET70115C Series
133ET1191A	Power Board only for ET70215C Series
133ET1192A	Power Board only for ET70415CR Series
133ET1424A	Logic Module only for ET70115C Series
133ET1425A	Logic Module only for ET70215C Series
133ET1426A	Logic Module only for ET70415CR Series
133ET1427A	Logic Module only for ET70815CR Series
133ET1428A	Logic Module only for ET71615CR Series
156ET3905A	(4) "AA" NiCad Rechargeable Bat. for ET700C & ET800CR Series
156ET4159A	(2) Lithium Coin Cells for ET70000C / ET70000CR Series
156ET9402A	8 Circuit Remote Override for ET70815CR & ET70815CR24 NEMA 3R
156ET9403A	16 Circuit Remote Override for ET71615CR & ET71615CR24 NEMA 3R
156ET9748A	Voltage and Momentary Output Selector Jumpers for ET Series and CT1000
188ET1045A	Power Board only for ET70815CR Series
188ET1049A	Power Board only for ET71615CR Series
22T338GR	Snap-In Bracket for ET Series, T100, T170, T180, T1900, T2000 & C8800 Series
22T535GR	DIN Rail Bracket for ET Series, T100, T170, T180, T1900, T2000 & C8800 Series
CA8750	CA USB Stick w/Base
CA8750SW	CA USB Stick w/Base & Pro CD
ET7232M	Override Accessory for ET70115C & ET70215C Series Outdoor or Flush Mount
ET7232M1	Override Accessory for ET70115C & ET70215C Series Surface Mount
Enclosures	
6ET1398GA	Flush Mount Cover with Lock for ET70415CR & ET70415CR24
24EB5495	Replacement Plate Only for E1120, KM2ST-1G & KM2SW-1G
24EB5497	Replacement Plate Only for E1220, KM2ST-2G & KM2SW-2G
24EB5524	Replacement Plate Only for E1221, KM2ST-2D & KM2SW-2D
24EB5526	Replacement Plate only for E1222, KM2STST-2G & KM2SWSW-2G
Hour Meters	
G-55U	Gasket for all FWZ55 flush mount models
G-72U	Gasket for all FWZ72 flush mount models
Mechanical Timers	
107T119	Trippler (silver) for T8800 & R8800 Series
107T73	Day Wheel Pin for T8800 & R8800 Series
119T86A	Transformer for T8845PV
124T1948	Insulator for Single Pole Time Switches
124T1952	Insulator for Double Pole Time Switches
124T2097	Plastic Insulator for T8800 & R8800 Series
124T2247	Insulator Old Style Replaces 124T1607

Model	Description
131T68GA	125 V, 60 Hz Motor & Carryover T7400BC & T7800BC Series
133T698A	Replacement Snap Switch for T1970 Series
133T1115A	Toggle Switch for T8800 & R8800 Series
133T700A	Micro Switch for T8800 & R8800 Series
133T701A	Replacement Snap Switch for T1900 & T2000 Series
133T773A	Replacement Snap Switch for C8800 Series
156EB1945A	Trippers 2 Sets (ON / OFF) for E1020, E1022, EB11, EB11R & WH21
156T1948A	Trippers One Set (ON/OFF/ON Cutout) for T170, P171, T1400 & T1800 Series
156T1949A	Trippler Variable (10 to 60 minute) for Model T185
156T1950A	Trippers (12 ON or OFF) for T1900, T2000, C8800, R8800 & T8800 Series
156T1954A	14 Pins for R8800, T8800 Series
156T1957A	Skipper Screws (3 per package)
156T1978A	Trippers (1 ON / 1 OFF) for T100, T170, T7000, & WH40 (Same as 156T3492A)
156T2548A	Trippers 7 Sets (ON / OFF) for T7400 & T7800 Series
156T3085A	3 Skipper Screws for T170, P171, T1400, T1800 and WH Series
156T3230A	Trippers (1 ON / 1 OFF / 1 On Cutout) for WH Series
FM-FU	FM1 Flush Mount Housing Kit
FM-SU	FM1 Surface/DIN Rail Kit
WG1381-10	Motor - Boxed, 125 V, 50 Hz for T170CR
WG1380-11	Motor - Boxed, 125 V, 60 Hz for T1400BCR
WG1383-11	Motor - Boxed, 208/277 V, 60 Hz for T1800BCR
WG1570-10D	Motor - Boxed, 125 V, 60 Hz for T101, T103 & T105
WG1571-10D	Motor - Boxed, 125 V, 50 Hz for T101, T102, T103, T104, T105, T100R201 & WH10
WG1573-10D	Motor - Boxed, 208/277 V, 60 Hz for T102, T104, WH10 & WH30
WG1574-10D	Motor - Boxed, 208/277 V, 50 Hz for T100R301
WG1576-10D	Motor - Boxed, 480 V, 60 Hz for WH40, WH70 & WH80
WG1600-11	Motor - Boxed, 125 V, 60 Hz for T7400B & T7800B
WG1603-11D	Motor - Boxed, 208/277 V, 60 Hz for T7400B & T7800B
WG190-15D	Motor - Boxed, 125 V, 60 Hz
WG230-13D	Motor - Boxed, 125 V, 60 Hz for E1000
WG233-18	Motor - Boxed, 208/277 V, 60 Hz for E1000
WG430-10D	Motor - Boxed, 125 V, 60 Hz for T1400BR
WG430-20D	Motor - Boxed, 125 V, 60 Hz for T1800BR
WG433-20D	Motor - Boxed, 208/277 V, 60 Hz for T180 & T500
WG436-20	Motor - Boxed, 480 V, 60 Hz for WH10 & WH30
WG630D	Motor - Boxed, 125 V, 60 Hz
WG720-10D	Motor - Boxed, 125 V, 60 Hz for T2000 Series
WG723-10D	Motor - Boxed, 208/277 V, 60 Hz for T2000 Series
WG730-14D	Motor - Boxed, 125 V, 60 Hz for R8800, T1900, T1970, T8800 Series
WG733-14D	Motor - Boxed, 208/277 V, 60 Hz for R8800, T1900, T1970, T8800 Series
WG736-14D	Motor - Boxed, 480 V, 60 Hz for R8800, T1975E & T1976E Series
WG750-10	Motor - Boxed, 125 V, 60 Hz for C8845
WG760-10	Motor - Boxed, 125 V, 60 Hz for C8825 (timer obsolete)

Parts/Accessories Chart

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Model	Description
WG770-10	Motor - Boxed, 125 V, 60 Hz for C8866
WG770-10D	Motor - Boxed, 125 V, 60 Hz for C8865
WG7773-10	Motor - Boxed, 208/277 V, 60 Hz for C8866
WG7773-10D	Motor - Boxed, 208/277 V, 60 Hz for C8865
WG780-12D	Motor - Boxed, 125 V, 60 Hz for C8835
WG790-11D	Motor - Boxed, 125 V, 60 Hz for C8815
Pool & Spa	
PB313EK	Electronic 24 Hr 120 V, 50/60 Hz Replacement Clock Kit for Mechanical PB Clock
PB314EK	Electronic 24 Hr 240 V, 50/60 Hz Replacement Clock Kit for Mechanical PB Clock
119T267	Transformer – 100 Watt
119T340	Transformer – 300 Watt
124T2530A	8-Pole Buss Bar Assembly
124TP2608A	4-Pole Buss Bar Assembly
133PE1484A	Three Button Wired Remote Control for P1353ME Digital Control
133RC1144	Pressure Sensing Momentary Air Switch 3 Amp
143PS307	DPST Relay w/24 VDC Coil
143RC126	Bi-Stable Relay SPDT, 1 H.P.-120 V, 2 H.P. - 240 V, 120 V Coil
143RC140	Four Function Stepper Relay
143T135	Double Pole Single Throw Relay w/240 V Coil
143T136	Double Pole Single Throw Relay w/120 V Coil
143T145A	Double Pole Single Throw Relay, 24 VDC Coil w/leads
156PA13713A	1/2" Nonmetallic Hub Kit For Direct Connection To Underwater Pool Lights
156PA13714A	3/4" Nonmetallic Hub Kit For Direct Connection To Underwater Pool Lights
156PA13715A	1" Nonmetallic Hub Kit For Direct Connection To Underwater Pool Lights
156PA14336A	1/2" Metallic Hub Kit For Direct Connection To Underwater Pool Lights
156PB10398A	(2) ON (2) OFF Trippers for P1000 Series Timers
156T4042A	Heater Control (Fireman) Switch Kit
178PA28A	Freeze Protection Thermostat for P1353ME Digital Control
178T24	Freeze Protection Thermostat
21T156A	(4) Stand-off for Mounting Wiring Devices
22T904A	Hold-Down Kit For Circuit Breakers
24T5265A	Snap-in Bracket for (2) Wiring Devices
PA102	Replacement Thermostat Relay Assembly for PF1202T & PF1222TB
PA108	Repair Kit for all PAV Series Water Valves (includes 5 cover rings & 10 shaft rings)
PA114	Plastic Pool/Spa Light Junction Box Mounting Bracket
PA115	25 Off Trippers Only and Screws
PA117	Replacement Latch Kit
PA118	Antenna only for PE650 Transceiver
PA120	Double Pole Single Throw Relay w/24 VAC Coil
PA121	35 Foot Antenna Extension Cable Assembly for PE650 Transceiver
PA122	Water Temperature Sensor for PE650 Transceiver (I-Wave)

Model	Description
PA123	100 Watt 12 V Transformer Assembly Kit for PE40000 Series I-Wave Control System
PA124	300 Watt 12 V Transformer Assembly Kit for PE40000 Series I-Wave Control System
PA600	Pump Shut-Off Switch
PB913N66	24 Hr. Panel Mount Timer, 120VAC for PF & RC Series Products
PE650	Wireless I-Wave Panel Mount Receiver for P1353ME and/or P4243ME Mechs (PE950 transmitter req.)
PE653	Wireless 5 Circuit Pool/Spa/Variable Speed Receiver (MultiWave)
PE953	Wireless Hand Held Transmitter for all Wave Series Products
PJB2175	Plastic Pool/Spa Light Junction Box - Two Light Capacity w/ Conduit sizes from .5" to 1"
PJB4175	Plastic Pool/Spa Light Junction Box - Four Light Capacity w/Conduit sizes from .5" to 1"
RC117	Air Tubing - 75 Ft. Long
RC122B	Air Tubing - 25 Ft. Long w/RC4G Button
RC127B	Air Tubing - 75 Ft. Long w/RC4G Air Button
RC150	Air Tubing - 500 Ft. Long
RC4F	Air Button for Fiberglass Construction - 100 Ft. Range
RC510	Tube Coupler - 10 Units
RC6F	Air Button for Gunite/Fiberglass Construction - 150 Ft. Range
Spring Wound Timers	
146MT573	Small Ivory Knob
146MT574	Small White Knob
146MT575	Small Almond Knob
146MT577	Large Stonedust (gray) Knob
146MT579	Large Black Knob
AG1BRKT	L Bracket for AG Series
107TN221	Red trippers for TN311C
107TN222	Turquoise trippers for TN111RM40
107SB189	Red trippers for HB plug-ins
107SB192	Black trippers for HB plug-ins
176ET10A	Surge Suppressor - For Switching Inductive 240 V Nominal Loads
176ET22A	Surge Suppressor - For Switching Inductive 277 V Nominal Loads
176ET8A	Surge Suppressor - For Switching Inductive 24 V Nominal Loads
176ET9A	Surge Suppressor - For Switching Inductive 120 V Nominal Loads
107SB234	OFF Trippers for HB35R
107SB216	ON Trippers for HB31R & P1121
107SB217	OFF Trippers for HB31R & P1121
107TN222	ON Trippers for TN, PB, TB Series, P1101, P1131, P1161, P1261, AL300TPWS, AL600TPWS & AL900TPWS
107TN221	OFF Trippers for TN, PB, TB Series, P1101, P1131, P1161, P1261, AL300TPWS, AL600TPWS & AL900TPWS
107SB189	ON Trippers for HB11, HB35R, HB112C, HB113C, HB114C, AL300RTW, AL600TW, AL900TW, AL60TW & ML Series Transformer Timers
107SB192	OFF Trippers for HB11, HB112C, HB113C, HB114C, AL300RTW, AL600TW, AL900TW, AL60TW & ML Series Transformer Timers



Bulb Replacement Chart

HID Wall Packs & Flood Lights									
Wall Pack	Flood	Cut-Off Wall Pack	Full Cut-Off Wall Pack	Lamp Type	Watts	Base	Type	Lumens	Lamp Hours
WL050MH	FL050MH	—	—	Metal Halide	50	Medium	ED17	"4,100"	"10,000"
WL070MH	FL070MH	—	—	Metal Halide	70	Medium	ED17	"6,200"	"16,000"
WL100MH	FL100MH	WLC100MH	—	Metal Halide	100	Medium	ED17	"9,500"	"16,000"
WL150MH	FL150MH	WLC150MH	WLFC150MH	Metal Halide	150	Medium	ED17	"12,500"	"10,000"
	FL175MH	WLC175MH	WLFC175MH	Metal Halide	175	Medium	ED17	"13,500"	"10,000"
WL250MH	FL250MH	—	—	Metal Halide	250	Mogul	ED28	"25,000"	"10,000"
WL400MH	FL400MH	WLC400MH	—	Metal Halide	400	Mogul	ED37	"36,000"	"20,000"
WL035HPS	FL035HPS	—	—	High Pressure Sodium	35	Medium	ED17	"2,250"	"24,000"
WL050HPS	FL050HPS	—	—	High Pressure Sodium	50	Medium	ED17	"4,000"	"24,000"
WL070HPS	FL070HPS	WLC070HPS	—	High Pressure Sodium	70	Medium	ED17	"6,300"	"24,000"
WL100HPS	FL100HPS	WLC100HPS	—	High Pressure Sodium	100	Medium	ED17	"9,500"	"24,000"
WL150HPS	FL150HPS	WLC150HPS	WLFC150HPS	High Pressure Sodium	150	Medium	ED17	"16,000"	"24,000"
WL250HPS	FL250HPS	WLC250HPS	—	High Pressure Sodium	250	Mogul	ED18	"26,000"	"24,000"
WL400HPS	FL400HPS	WLC400HPS	—	High Pressure Sodium	400	Mogul	ED18	"50,000"	"24,000"
HID Quartz Flood Lights									
—	FL150Q	—	—	Quartz	150	Double Ended	T3	"2,400"	"2,000"
—	FL300Q	—	—	Quartz	300	Double Ended	T3	"5,200"	"2,000"
—	FL500Q	—	—	Quartz	500	Double Ended	T3	"9,500"	"2,000"
HID Dusk-to-Dawn Lights									
—	—	—	DD100MH	Metal Halide	100	Medium	ED28	"8,500"	10,000
—	—	—	DD150HPS	High Pressure Sodium	150	Medium	ED17	"16,000"	"24,000"
HID Wall Pack Lights with Photocell									
WL070HPSPC	—	—	—	High Pressure Sodium	70	Medium	ED17	"6,300"	"24,000"
HID Canopy Lights									
—	—	—	CP150MH	Metal Halide	150	Medium	ED17	"12,500"	"10,000"
—	—	—	CP150HPS	High Pressure Sodium	150	Medium	ED17	"16,000"	"24,000"

IP Classifications

IP Classifications			
Ingress Protection class of enclosures is according to IEC 529 given in form of IP classification, a two digit coding which is shown below			
First Digit		Second Digit	
Protection against contact and ingress of solid objects		Protection against ingress of water	
0	No special protection	0	No special protection
1	Protected against ingress solid objects with a diameter of more than 50 mm. No protection against deliberate access, e.g. with a hand, but large surfaces of the body are prevented from approach	1	Protection against dripping water falling vertically. No harmful effect must be produced (vertically falling drops)
2	Protected against penetration by solid objects with a diameter of more than 12 mm. Fingers or similar objects prevented from approach	2	Protection against dripping water falling vertically. There must be no harmful effect when the equipment (enclosure) is tilted at an angle up to 15° from its normal position (drops falling at an angle)
3	Protected against ingress of solid objects with a diameter of more than 2.5 mm. Tools, wires, etc. with a thickness of more than 2.5 mm are prevented from approach	3	Protection against water falling at any angle up to 60° from the vertical. There must be no harmful effect (spray water)
4	Protected against ingress of solid objects with a diameter of more than 1 mm. Tools, wires, etc. with a thickness of more than 1 mm are prevented from approach	4	Protection against water splashed against the equipment (enclosure) from any direction. There must be no harmful effect (splashing water)
5	Protected against harmful dust deposits. Ingress of dust is not totally prevented but the dust must not enter in sufficient quantity to interface with satisfactory operation of the equipment. Complete protection against contact	5	Protection from water projected from a nozzle against the equipment (enclosure) from any direction. There must be no harmful effect (water jet)
6	Protection against ingress of dust (dust tight). Complete protection against contact	6	Protection against heavy seas or powerful water jets. Water must not enter the equipment (enclosure) in harmful quantities (splashing over)
		7	Protection against water when the equipment (enclosure) is immersed in water under defined conditions of pressure and time. Water must not enter in harmful quantities (immersion)
		8	The equipment (enclosure) is suitable for continuous submersion in water under conditions which must be specified by the manufacturer (submersion)



Obsolete/Substitution Chart

For a complete and current Obsolete/Substitution list please visit www.intermatic.com

Old Model	Substitution
AG2083C	AG2083C3
AG2401	AG24013
AG2401C	AG2401C3
AG2401C-IND	AG2401C3
AG2403C	AG2403C3
AG4801	AG48013
AG4803C	AG4803C3
AG6503	AG65033
AG6503C	AG6503C3
AG6503C-IND	AG6503C3
AG6503C-INDL	AG6503L3
AG6503L	AG6503L3
CP924	DT620CL
E1120	KM2ST-1G
E1220	KM2ST-1G
ET100C	ET1105C
ET101C	ET1105C
ET102C	ET1105C
ET103C	ET1125C
ET104C	ET1125C
ET104CP	ET1125CPD82
ET105C	ET1115C
ET171C	ET1705C
ET171CR	ET1705CR
ET173C	ET1725C
ET174C	ET1725C
ET175C	ET1715C
ET279C	ET1725C
ET616	EI400C
FL175MH	FL150MH
IG11246	IG112463

Old Model	Substitution
IG11266	IG112663
IG11266BLK10	IG112663BLK10
IG1240RC	IG1240RC3
IG1300-2T-1C	IG1300-2T-1C3
IG1300-4T-2C	IG1300-4T-2C3
IG2012B15	IG2012B153
IG20615	IG206153
IG2066	IG20663
IG2086	IG20863
IG20B12	IG20B123
IG3240RC	IG3240RC3
K4022	K4023C
K4033	K4023C
K4121M	K4136M
K4122	K4123C
K4124	K4123C
K4133	K4123C
K4222	K4223C
K4224	K4223C
K4233	K4223C
P1102FE	P1103FE
P1102ME	P1103FE
P1103ME	P1103FE
P1161	P1261P
P1203FR	P1103FE, RC613 & RC939
P1261PE	P1261P
P7101ME	P7103ME
P7102ME	P7103ME
PB912M10R	PB913N
PE153W	PE153 & 133PE1484A

Old Model	Substitution
PE153WF	PE153, 133PE1484A, 178PA28A
PE950	PE953
RC2103E	RC2103S
RC2112S	RC2103S
RC2123MT	RC2123PT
RC2123S	RC2123PT
RC2133M	RC2123PT
RC2133P	RC2123PT
RC2163E	RC2163BE
RC2163FE	RC2163BFE
RC2233P	RC2103S
RC2263BE	RC2163BE & RC2103S
RC2263E	RC2163BE & RC2103S
RC2343M	RC2343PT
RC2343MT	RC2343PT
RC2343P	RC2343PT
RC2403RT	RC2343PT & RC2103S
RC4F	RC4G
T25	TN311C, TN111RM40
T35	TN311C
T240	HB114C
T40004R5	T40000R4
WL175MH	WL150MH
WP104	WP107
WP105	WP107
WP1110WC	WP1110C, WP100WC