

100
I. KIEKHAEFER MERCURY OUTBOARD MOTORS, 1940-1955

MERCURY
MASTER SPECIFICATION CHART

Designation	Model	Year	Spark Plug Model	Spark Plug Setting	Magneto Model	Breaker Setting	Horse Power	RPM	Bore	Stroke	Cu. In. Displ.	Engine Weight
Special	K1	1940	Ch. J8J	.025	Eisemann	.018	2.5	3800	2"	1 3/4"	5.5	27
Standard	K2	1940	Ch. J8J	.025	Eisemann	.018	3	4250	2"	1 3/4"	5.5	28
Deluxe	K3	1940	Ch. J8J	.025	Eisemann	.018	3	4250	2"	1 3/4"	5.5	31
Alternate	K4	1940	Ch. J8J	.025	Eisemann	.018	6	4250	2"	1 3/4"	11	41
Alternate Deluxe	K5	1940	Ch. J8J	.025	Eisemann	.018	6	4250	2"	1 3/4"	11	43
Comet	KB1	1941	Ch. J8J	.025	Eisemann	.018	2.9	4000	2"	1 3/4"	5.5	31
Comet Deluxe	KB1A	1941	Ch. J8J	.025	Eisemann	.018	3.1	4000	2"	1 3/4"	5.5	32
Streamliner	KB2	1941	Ch. J8J	.025	Eisemann	.018	3.2	4000	2"	1 3/4"	5.5	32
Torpedo	KB3	1941-42	Ch. J8J	.025	Wico	.018	3.2	4000	2"	1 3/4"	5.5	36
Rocket	KB4	1941-42	Ch. J8J	.025	Eisemann	.018	5.8	4000	2"	1 3/4"	11	42
Rocket Deluxe	KB5	1941	Ch. J8J	.025	Eisemann	.018	6	4000	2"	1 3/4"	11	46
Rocket	KB4-1	1946	Ch. J8J	.025	Eisemann	.018	6	4000	2"	1 3/4"	11	42
Comet	KD3	1946-47	Ch. J8J	.025	Scin.-Eise.	.018	3.2	4000	2"	1 3/4"	5.5	32
Rocket	KD4	1946-47	Ch. J7J	.025	Scin.-Eise.	.018	6	4000	2"	1 3/4"	11	42
Comet	KD3S	1947	Ch. J8J	.025	Scin.-Eise.	.018	3.2	4000	2"	1 3/4"	5.5	36
Rocket	KD4S	1947	Ch. J7J	.025	Scin.-Eise.	.018	6	4000	2"	1 3/4"	11	46
Comet Deluxe	KE3	1947-48	Ch. J7J	.025	Scintilla	.018	3.6	4000	2"	1 3/4"	5.5	36
Rocket Deluxe	KE4	1947-52	Ch. J7J	.025	Phelon	.018	7.5	4000	2"	1 3/4"	11	54
Rocket Deluxe	KE4A	1947	Ch. J7J	.025	Scintilla	.018	6	4000	2"	1 3/4"	11	54
Lightning Deluxe	KE7	1947-49	Ch. J7J	.025	Scintilla	.018	10	4000	2 1/8"	2 1/8"	19.8	59
Comet	KF3	1949-50	Ch. J7J	.025	Phelon	.018	3.5	4000	2"	1 3/4"	5.5	38
Comet	KF3	1949-50	Ch. J7J	.025	Scintilla	.018	3.5	4000	2"	1 3/4"	5.5	38
Super 10	KF7	1949-50	Ch. J7J	.025	Scintilla	.018	10	4000	2 1/8"	2 1/8"	19.8	61
Super 5	KF5	1949-52	Ch. J7J	.025	Phelon	.018	5	4200	1 3/4"	1 1/2"	7.2	41
Super 5	KF5	1949-52	Ch. J7J	.025	Scintilla	.018	5	4200	1 3/4"	1 1/2"	7.2	41
Rocket Hurricane	KG4	1950-52	Ch. J7J	.025	Phelon	.018	7.5 + *	*	2 7/8"	2 1/8"	14.89	57
Rocket Hurricane	KG4H	1950-52	Ch. J6J	.025	Phelon	.018	7.5 + *	*	2 7/8"	2 1/8"	14.89	57
Super 10 Hurricane	KG7	1950-52	Ch. J6J	.025	Scintilla	.018	10 + *	*	2 1/8"	2 1/8"	19.8	63
Super 10 Hurricane	KG7H	1950-52	Ch. J6J	.025	Phelon	.018	10 + *	*	2 1/8"	2 1/8"	19.8	63
Super 10 Hurricane Cruiser	KH7	1952	Ch. J6J	.025	Scintilla	.018	10 + *	*	2 1/8"	2 1/8"	19.8	70
Thunderbolt	KF9	1949-50	Ch. J7J	.025	F.-Morse	.010 + .000 - .002	25 + *	*	2 1/8"	2 1/8"	39.6	122
Thunderbolt	KG9	1950-52	Ch. J6J	.025	F.-Morse	.010 + .000 - .002	25 + *	*	2 1/8"	2 1/8"	39.6	122
Super 5	Mark 5	1953-55	Ch. J7J	.025	Phelon	.018	5	4200	1 3/4"	1 1/2"	7.2	40
Rocket Deluxe	Mark 7	1953-55	Ch. J7J	.025	Phelon	.018	7.5	4000	2"	1 3/4"	11	54
Rocket Deluxe	Mark 15	1953	Ch. J7J	.025	Phelon	.018	10	4000	2 7/8"	2 1/8"	14.89	57
Rocket Deluxe	Mark 20	1953-55	Ch. J6J	.025	Scintilla	.018	16	4000	2 1/8"	2 1/8"	19.8	73
Thunderbolt	Mark 40	1953-54	Ch. J6J	.025	F.-Morse	.010 + .000 - .002	25 + *	*	2 1/8"	2 1/8"	39.6	122
Thunderbolt	Mark 40H	1953-55	Ch. J6J	.025	F.-Morse	.010 + .000 - .002	25 + *	*	2 1/8"	2 1/8"	39.6	95
Thunderbolt	Mark 50	1954	Ch. J6J	.025	F.-Morse	.010 + .000 - .002	40	5400	2 1/8"	2 1/8"	39.6	118
Thunderbolt MercElectric	Mark 50E	1954	Ch. J6J	.025	F.-Morse	.010 + .000 - .002	40	5400	2 1/8"	2 1/8"	39.6	120
Hurricane	Mark 20H	1954-55	Ch. J62R	.025	Phelon	.018	16*	*	2 1/8"	2 1/8"	19.8	74
Comet (Silent Six)	Mark 6	1955	Ch. J7J	.025	Phelon	.018	5.9	4500	1 3/4"	1 1/2"	7.2	42
Hurricane	Mark 25	1955	Ch. J6J	.025	Phelon	.018	18	5400	2 1/8"	2 1/8"	19.8	75
Hurricane MercElectric	Mark 25E	1955	Ch. J6J	.025	Phelon	.018	18	5400	2 1/8"	2 1/8"	19.8	84
Thunderbolt	Mark 55	1955	Ch. J6J	.025	F.-Morse	.010 + .000 - .002	40	5400	2 1/8"	2 1/8"	39.6	111
Thunderbolt MercElectric	Mark 55E	1955	Ch. J6J	.025	F.-Morse	.010 + .000 - .002	40	5400	2 1/8"	2 1/8"	39.6	118

* Horsepower Varies with RPM.

Metric conversion: 1" = 2.54cm; 1 cu. in. = 16.387cc.

All Models Use Kiekhaefer Quicksilver 2-Cycle Engine Oil, 3/8 Pt. Mixed with Each Gallon of Gasoline.
 Quicksilver Models Require 3/4 Pt. Kiekhaefer Quicksilver 2-Cycle Engine Oil with Each Gallon of Gasoline.
 All Models Use Kiekhaefer Quicksilver Gear Lubricant in Lower Unit.

MASTER SPECIFICATIONS -- 1956-57-58-59 MODELS

Designation	Model	Year	Spark Plug Type	Spark Plug Setting	Magneto Type	Breaker Setting	HP	Recom. Oper. RPM	Bore	Stroke	Cu. In. Displ.	Approx. Eng. Wt.
Hurricane Hydro	Mark 20H	1956	J62R	.025"	Phelon	.018	20*	•	2-7/16"	2-1/8"	19.8	74
Thunderbolt	Mark 55	1956-58	J6J	.025"	Kiekhaefer & Fair.-Morse	.010+.000 -.002	40	5400	2-7/16"	2-1/8"	39.6	111
MercElectric Thunderbolt	Mark 55E	1956-58	J6J	.025"	Kiekhaefer & Fair.-Morse	.010+.000 -.002	40	5400	2-7/16"	2-1/8"	39.6	120
Thunderbolt Hydro	Mark 55H	1956-58	J62R	.025"	Fair.-Morse	.010+.000 -.002	40*	•	2-7/16"	2-1/8"	39.6	100
Turbo-Four	Mark 30	1956-58	J6J	.025"	Kiekhaefer & Fair.-Morse	.010+.000 -.002	30	5400	2-7/64"	2-1/8"	29.78	110
MercElectric Turbo-Four	Mark 30E	1956-58	J6J	.025"	Kiekhaefer & Fair.-Morse	.010+.000 -.002	30	5400	2-7/64"	2-1/8"	29.78	118
Turbo-Four Hydro	Mark 30H	1956-58	J62R	.025"	Fair.-Morse	.010+.000 -.002	30*	•	2-7/64"	2-1/8"	29.78	98
Hurricane	Mark 25	1956-58	J6J	.025"	Phelon	.018	20	5400	2-7/16"	2-1/8"	19.8	75
MercElectric Hurricane	Mark 25E	1956-57	J6J	.025"	Phelon	.018	20	5400	2-7/16"	2-1/8"	19.8	85
Comet Silent Six	Mark 6	1956-58	J7J	.025"	Phelon Scintilla	.018	6	4500	1-3/4"	1-1/2"	7.2	42
Marathon "Six"	Mark 75E	1957-58	J6J	.025"	Kiekhaefer Distributor	90° Dwell▲	60	5400	2-7/16"	2-1/8"	59.4	168
Trol-Twin Rocket	Mark 10	1957-58	J7J	.025"	Phelon	.018	10	4500	2-11/32"	2-1/8"	18.5	66
Super Hurricane	Mark 28	1958	J6J	.025"	Phelon	.018	22	5400	2-9/16"	2-1/8"	22	79
MercElec. Super Thunderbolt	Mark 58E	1958	J6J	.025"	Kiekhaefer	.010+.000 -.002	45	5400	2-9/16"	2-1/8"	44	131
Super Marathon "Six"	Mark 78E	1958	J6J	.025"	Kiekhaefer Distributor	90° Dwell▲	70	5400	2-9/16"	2-1/8"	66	180
Comet Silent Six	Mark 6A	1959	J7J	.025"	Phelon	.018"	6	4500	1-3/4"	1-1/2"	7.2	46
Trol Twin Rocket	Mark 10A	1959	J7J	.025"	Phelon	.018"	10	4500	2-11/32"	2-1/8"	18.5	77
Rocket	Mark 15A	1959	J7J	.025"	Phelon	.018"	15	4500	2-11/32"	2-1/8"	18.5	83
Super Hurricane	Mark 28A	1959	J6J	.025"	Phelon	.018"	22	5400	2-9/16"	2-1/8"	22	88
Thunderbolt	Mark 35A	1959	J6J	.025"	Kiekhaefer	.010+.000 -.002	35	5500-5800	2-7/16"	2-1/8"	40	123
Thunderbolt	Mark 55A	1959	J6J	.025"	Kiekhaefer	.010+.000 -.002	40	5500-5800	2-9/16"	2-1/8"	44	125
Super Thunderbolt	Mark 58A	1959	J6J	.025"	Kiekhaefer	.010+.000 -.002	45	5500-5800	2-9/16"	2-1/8"	44	127
Marathon "Six"	Mark 75A	1959	J6J	.025"	Kiekhaefer Distributor	90° Dwell▲	60	5500	2-9/16"	2-1/8"	66	185
Super Marathon "Six"	Mark 78A	1959	J6J	.025"	Kiekhaefer Distributor	90° Dwell▲	70	5500	2-9/16"	2-1/8"	66	188

§ Kiekhaefer magneto -- used alternately on 1957 models, exclusive on 1958-59 models.

▲ Use Degrée Plate C-91-30356A1 or C-91-45510A1

* Horsepower varies with RPM

All 6-cyl. models used Kiekhaefer EXTRA-DUTY Quicksilver Gear Lubricant (C-92-32641) in lower unit.

All models use Kiekhaefer Quicksilver Formula 2 2-Cycle Engine Oil, one 12-oz. can mixed with each 2 gallons of gasoline or one 30 oz. can mixed with each 5 gallons of gasoline (hydro models use 12 oz. to each one gallon).

Metric conversion: 1"=2.54cm; 1 cu.in.=16.39cc; 1 oz.=.03 liter; 1 gal.=3.78 liters.

MASTER SPECIFICATIONS - 1960-61-62-63 MODELS

Model	Year	Spark Plug Type	Spark * Plug Setting	Magneto Type	Breaker ** Setting	HP	Full • Throttle RPM Range	Bore	Stroke	Cu. In. Displ.
Merc 100	1960-61	J7J	.025"	Phelon	.018"	10	4500	2-11 32"	2-1 8"	13.5
Merc 150	1960-61	J7J	.025"	Phelon	.018"	15	4500	2-11 32"	2-1 8"	18.5
Merc 200	1960-61	J6J	.025"	Phelon	.018"	22	5400	2-9 16"	2-1 8"	22
Merc 300	1960	J6J	.025"	Kiekhaefer	.010" +.000" -.002" 48° Dwell ♦	35	5200-5600	2-7 16"	2-1 8"	40
Merc 400	1960-61	J6J	.025"	Kiekhaefer	.010" +.000" -.002" 48° Dwell ♦	45	5200-5600	2-9 16"	2-1 8"	44
Merc 600	1960	J6J	.025"	Kiekhaefer Distributor	90° Dwell ▲	60	5100-5500	2-9 16"	2-1 8"	66
Merc 700 Dir. Rev.	1960-61	J6J	.025"	Kiekhaefer Distributor	90° Dwell ▲	70	5100-5500	2-9 16"	2-1 8"	66
Merc 800 Dir. Rev.	1960-61	J4J	.025"	Kiekhaefer Distributor	90° Dwell ▲	80	4800-5200	2-3 4"	2-1 8"	76
Merc 800 Gear Shift	1961	J4J	.025"	Kiekhaefer Distributor	90° Dwell ▲	80	4800-5200	2-3 4"	2-1 8"	76
Merc 700 Gear Shift	1961	J6J	.025"	Kiekhaefer Distributor	90° Dwell ▲	70	5100-5500	2-9 16"	2-1 8"	66
Merc 500	1961	J6J	.025"	Kiekhaefer	.010" +.000" -.002" 48° Dwell ♦	50	5200-5600	2-9 16"	2-1 8"	44
Merc 350	1961	J6J	.025"	Kiekhaefer	.010" +.000" -.002" 48° Dwell ♦	40	5200-5600	2-7 16"	2-1 8"	40
Merc 60	1961	J7J	.025"	Phelon	.018"	6	5000-5400	1-3 4"	1-1 2"	7.2
Merc 1000 §	1962-63	J4J	.025"	Kiekhaefer Distributor	90° Dwell ▲	100	4800-5200	2-7 8"	2.3"	90
Merc 850 § (90 cu. in.)	1963	J4J	.025"	Kiekhaefer Distributor	90° Dwell ▲	85	4800-5200	2-7 8"	2.3"	90
Merc 850 § (76 cu. in.)	1962	J4J	.025"	Kiekhaefer Distributor	90° Dwell ▲	85	4800-5200	2-3 4"	2-1 8"	76
Merc 700 Gear Shift	1962	J6J	.025"	Kiekhaefer Distributor	90° Dwell ▲	70	5100-5500	2-9 16"	2-1 8"	66
Merc 650 §	1963	J4J	.025"	Kiekhaefer	.010" +.000" -.002" 48° Dwell ♦	65	4800-5200	2-7 8"	2.3"	60
Merc 500 Jet Prop	1962-63	J6J	.025"	Kiekhaefer	.010" +.000" -.002" 48° Dwell ♦	50	5200-5600	2-9 16"	2-1 8"	44
Merc 450	1962	J6J	.025"	Kiekhaefer	.010" +.000" -.002" 48° Dwell ♦	45	5200-5600	2-9 16"	2-1 8"	44
Merc 350 § (2-Cyl.)	1963	J6J	.025"	Phelon	.020"	35	4800-5200	2-7 8"	2.3"	30
Merc 250	1962	J6J	.025"	Phelon	.018"	25	5000-5400	2-9 16"	2-1 8"	22
Merc 200 Gear Shift	1963	J6J	.025"	Phelon	.018"	20	5000-5400	2-9 16"	2-1 8"	22
Merc 110	1962-63	J7J	.025"	Phelon	.018"	9.8	5000-5400	2"	1-3 4"	11
Merc 60	1962-63	J7J	.025"	Phelon	.018"	6	5000-5400	1-3 4"	1-1 2"	7.2

▲ Use Degree Plate C-91-45510A1 or C-91-30356A1 ♦ Use Degree Plate C-91-31484A2 § "Power Dome" Combustion Chamber

* Millimeter Dimension (.025" [0.6350mm])

• For Commercial Application, Use Lower RPM Listed.

** Millimeter Dimensions (.018" [0.4572mm], .010" [0.2540mm], .002" [0.0508mm], .020" [0.5080mm])

NOTES: All Models Use Formula 2 Quicksilver 2-Cycle Engine Oil, 3/8 Pt. (6 Oz.) Mixed with Each Gallon of Gasoline.

Use Kiekhaefer Quicksilver Gear Lubricant in Lower Unit of 2-&-4Cyl. Models, prior to 1962, except Merc 500-450.

Use Kiekhaefer EXTRA-DUTY Quicksilver Gear Lubricant in All 6-Cyl. Models, Merc 500-450 & All 1962 & Newer Models.

MASTER SPECIFICATIONS - 1964-65-66-67-68-69 MODELS

Models	Year	Spark Plug Type†	Spark Plug Setting	Distributor or Magneto Type	Breaker Setting	HIP	Full Throttle RPM Range*	Bore	Stroke	Cu.In. Displ.
Merc 1100SS	1966	L19V	None	Kiekhaefer Dist.	45° Dwell▲	110	4800-5200	2-15/16"	2.3"	93.5
Merc 1100	1966	L4J	.030"	Kiekhaefer Dist.	90° Dwell▲	110	4800-5200	2-15/16"	2.3"	93.5
Merc 1000	1964-65	J4J	.025"	Kiekhaefer Dist.	90° Dwell▲	100	4800-5200	2-7/8"	2.3"	90
Merc 950SS	1966	L19V	None	Kiekhaefer Dist.	45° Dwell▲	95	4800-5200	2-7/8"	2.3"	90
Merc 950	1966	L4J	.030"	Kiekhaefer Dist.	90° Dwell▲	95	4800-5200	2-7/8"	2.3"	90
Merc 900	1965	J4J	.025"	Kiekhaefer Dist.	90° Dwell▲	90	4800-5200	2-7/8"	2.3"	90
Merc 850	1964	J4J	.025"	Kiekhaefer Dist.	90° Dwell▲	85	4800-5200	2-7/8"	2.3"	90
(90 Cu. In.)										
Merc 650	1964-65-66	J4J	.025"	Kiekhaefer Mag.	48° Dwell♦ .010" +.000 -.002	65	4800-5200	2-7/8"	2.3"	60
Merc 500	1964-65-66	J4J⊕	.025"	Kiekhaefer Mag.	48° Dwell♦ .010" +.000 -.002	50	5200-5600	2-9/16"	2-1/8"	44
Jet Prop										
Merc 350	1964-65-66	J6J	.025"	Phelon Magneto	.020"●	35	4800-5200	2-7/8"□	2.3"	30+
Merc 200	1964-65-66	J6J	.025"	Phelon Magneto	.020"●	20	5000-5400	2-9/16"	2-1/8"	22
Gear Shift										
Merc 110	1964-65-66	J7J	.025"	Phelon Magneto	.020"●	9.8	5000-5400	2"	1 3/4"	11
Merc 60	1964-65-66	J7J	.025"	Phelon Magneto	.020"●	6	5000-5400	1 3/4"	1 1/2"	7.2
Merc 39	1964-65-66	J8J	.025"	Phelon Magneto	.020"●	3.9	5000-5400	2"	1 3/4"	5.5
Merc 1100SS	1967	L19V	None	Kiekhaefer Dist.	None	110	4800-5200	2-15/16"	2.3"	93.5
Merc 950SS	1967	L19V	None	Kiekhaefer Dist.	None	95	4800-5200	2-7/8"	2.3"	90
Merc 650SS	1967	L19V	None	Kiekhaefer Dist.	None	65	4800-5200	2-15/16"	2.3"	62.4
Merc 650S	1967	L4J	.030"	Kiekhaefer Mag.	48° Dwell♦ .010" +.000 -.002	65	4800-5200	2-15/16"	2.3"	62.4
Merc 500SS	1967	L19V	None	Kiekhaefer Dist.	None	50	5200-5600	2-9/16"	2-1/8"	44
Merc 500S	1967	L4J	.030"	Kiekhaefer Mag.	48° Dwell♦ .010" +.000 -.002	50	5200-5600	2-9/16"	2-1/8"	44
Merc 500M	1967	L4J	.030"	Kiekhaefer Mag.	48° Dwell♦ .010" +.000 -.002	50	5200-5600	2-9/16"	2-1/8"	44
Merc 350	1967-68-69	L4J	.030"	Phelon Magneto	.020"●	35	4800-5300	3"	2.3"	32.5
Merc 200	1967-68-69	L4J	.030"	Phelon Magneto	.020"●	20	5000-5400	2-9/16"	2-1/8"	22
Merc 110	1967-68-69	L4J	.030"	Phelon Magneto	.020"●	9.8	5000-5400	2"	1 3/4"	11
Merc 60	1967-68	L7J	.030"	Phelon Magneto	.020"●	6	5000-5400	1 3/4"	1 1/2"	7.2
Merc 39	1967-68	L9J	.030"	Phelon Magneto	.020"●	3.9	5000-5400	2"	1 3/4"	5.5
Merc 1250SS	1968-69	L19V°	None	Thunderbolt Ign.	None	125	4800-5300	2-7/8"	2-9/16"	99.81
Merc 1000SS	1968-69	L19V°	None	Thunderbolt Ign.	None	100	4800-5300	2-7/8"	2.3"	90
Merc 650SS	1968-69	L19V°	None	Thunderbolt Ign.	None	65	4800-5300	2-15/16"	2.3"	62.4
Merc 500SS	1968-69	L19V°	None	Thunderbolt Ign.	None	50	5200-5500	2-9/16"	2-1/8"	44
Merc 800	1969	L19V°	None	Thunderbolt Ign.	None	80	4800-5300	2-7/8"	2-9/16"	66.6
(4-Cyl.)										
Merc 75	1969	L7J	.030"	Phelon Magneto	.020"	7.5	4500-5500	2"	1 3/4"	11
Merc 40	1969	L9J	.030"	Phelon Magneto	.020"	4	4500-5500	2"	1 3/4"	5.5

NOTE: All 1963-64-65-66-67-68-69 Mercury models use new FORMULA 50 Quicksilver 2-Cycle Motor Oil, mixed one 12 oz. can with 5 gallons of gasoline. All Mercury models use Formula 2 Quicksilver 2-Cycle Motor Oil, mixed one 12 oz. can with each 2 gallons of gasoline. In an emergency, when FORMULA 50 or Formula 2 Quicksilver Oil are not available, substitute one of the approved oils, mixed 12 oz. to 2 gallons of gasoline. All models use SUPER-DUTY Quicksilver Outboard Gear Lubricant (C-92-52650) in the gear case.

- ± If wet fouling is experienced, 4-and-6-cyl. models (except 1967-68 & SS models) use UJ4J(A-33-39564) spark plugs.
 * For commercial application, use lower RPM listed. † 1966 model has 32.5 cu. in. displacement.
 ▲ Use Degree Plate C-91-30356A1 or C-91-45510A1. ♦ Degree Plate C-91-31484A1 ● Degree Plate C-91-36454A1
 ⊕ 1964 model uses J6J. □ 1966 model has 3" bore. ° or ACV40FF