

MERCURUISER AND MERCURY RACING (STERNDRIVE) SERVICE MANUAL INDEX

Mercury MerCruiser

#	Supplement To	Part Number	Latest	Description	Scope		Related Diagram Set
					SN Range or Models	Years	
1	-	90-68648	Feb 1986	Engines & Drives	All	1963-1973	-
-	-	90-73033		Jet Drive 400	All	1975	-
2	-	90-71707	Feb 1986	Engines, Drives & Jet Drive 400	All	1974-1977	-
3	-	90-95693 R1	Aug 1988	Engines: 4-Cylinder, L6 & V8	All	1978-1984	-
4	-	90-86137	Feb 1986	Stern drives: MC 120 to 260	All	1978-1982	-
5	-	90-12935	Oct 1985	Stern drives: TR and TRS	All	1978-1993	-
6	-	90-12934-2	Oct 1997	Stern drives: R, MR, Alpha One & Alpha One SS	All	1983-1990	-
7	-	90-12410	Nov 1985	Engines: GM V6	All	1983-1993	-
8	-	90-44553 R2	Dec 1993	Engines: MM 4-Cylinder	All	1985-1989	-
9	-	90-14499 R1	Aug 1987	Engines: GM V8	All	1985-1988	-
10	-	90-14693-1R1	Jan 1994	Engines: GM 4-Cylinder	All	1985-1989	-
11	-	90-17431-4	Mar 1998	Stern drives: Bravo	All	1988-1998	-
12	-	90-814099-2	Jan 1996	Engines: 5-Cylinder & 6-Cylinder Diesel	All	1989-1993	-
13	-	90-816462 R2	Jun 1995	Engines: GM 4-Cylinder	All	1990-1997	-
14	-	90-818177-3	Apr 2001	Stern drives: Alpha One Gen II	All	1991-	-
15	-	90-816463	Mar 1992	Engines: GM V8	All except High Performance	1989-1992	-
16	-	90-823224-2	Jul 1996	Engines: GM V8 454cid & 502cid	Gen V-Gen VI	1993-1997	-
17	-	90-823225-1	Oct 1996	Engines: GM V8 305cid & 350cid	All	1993-1997	-
				Engines: GM V8 5.0L		1993-1995	-
18	-	90-823226-1	Sep 1996	Engines: GM V6 Gen II Balance Shaft	All	1993-1997	-
19	-	90-823227	Jan 1994	Engines: V8 7.3L (IDI) Diesel	All	1994-1996	-
20	-	90-823228 R1	Jun 1994	Stern drives: Blackhawk	All	1994-1998	-
21	-	90-806934	Nov 1994	Engines: 5-Cylinder & 6-Cylinder 3.0L, 3.6L, & 4.2L (IDI) Diesel	All	1994-	-
22	-	90-860074-1	Feb 2002	Engines: D-Tronic 2.8L & 4.2L (DI) Diesel	Starting SN 0K000001	1997-	-
22-6	22	90-860074020	Sep 2002	Engines: D4.2L 300 Diesel	All	2002-	-

Mercury 135 Service Manual

SJ Ball



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classification of angiosperms based on the types of cotyledon present angiosperms are divided into two classes they are monocotyledons and dicotyledons the dicotyledonous angiosperms have two cotyledons in their seeds and the

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they classified all the seed plants into 3 groups or classes i e dicotyledons 165 families gymnosperms 3 families and monocotyledons 34 families 4 they included disputed orders among ordines anomali which they could not place satisfactorily

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division angiosperms bear flowers as reproductive organs seeds develop inside fruit plant embryos in seeds have structures called cotyledons seed leaves further classification is based on single cotyledons monocotyledonous plants or two cotyledons dicotyledonous plants

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interpretation of the probable origins of the angiosperms and their most primitive characteristics and some elucidation of realignments that deviate considerably from other recent classifications many botanists have complained about the plethora of new classifications of the angiosperms all differing in many details

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the angiosperms or in new terminology the magnoliophytes are the flowering plants which include perhaps as many as 400 000 species from the science of grapevines second edition 2015 related terms cladistics genus pollinator gymnosperm anthesis arabidopsis evolution tissues

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most modern angiosperms are classified as either monocots or eudicots based on the structure of their leaves and embryos basal angiosperms such as water lilies are considered more primitive because they share morphological traits with both monocots and eudicots

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in any event in this new classification the basal angiosperms contain three superorders or five if one includes magnolianaes and ceratophyllanaes that are coordinate with the monocots also placed in their own superorder and ten additional superorders eudicots for a

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3 1 8 classification systems from traditional classification to apg iii to apg iv current plant taxonomy follows the so called apg 4 system apg angiosperm phylogeny group revised in 2016 86 this system updates the traditional taxonomic system based on morphology with modern genetic data and succeeds apg iii 87 the constant

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angiosperm flowering monocots dicots the angiosperms are a well characterized sharply defined group most typically angiosperms are seed plants this separates them from all other plants except the gymnosperms

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abstract the synopsis of my classification of the angiospermae that was published in aliso thorne 1968 has been much modified in recent years increased knowledge about many of the families has resulted in a realignment of some of them and reorganization or deletion of some of the higher categories

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oct 12 2023 although the taxonomy of the angiosperms is still incompletely known the latest classification system incorporates a large body of comparative data derived from studies of dna sequences it is known as the angiosperm phylogeny group iv apg iv botanical classification system