



As represented by

GARDNER MARINE DIESELS LIMITED

6LXB



Specification

1275hp@1500rpm
1506hp@1650rpm
(Other ratings available on request)

Bore – 120.65mm (4.75 in)
Stroke – 152.4mm (6 in)
Aspiration – Natural
Capacity – 10.45 Litres
Configuration – 6 cylinders in-line

Marine Propulsion Diesel Engines:

This outstanding six cylinder 10.45 litre engine offers the greatest degree of efficiency, durability and refinement.

The specific fuel consumption rate of the engine when directly coupled to the dynamometer is the remarkably low value of 0.170 Buper h.p./p.hour which represents an overall thermal efficiency of no less than 39.75%. If the engine is operated slightly below maximum torque, it does attain over 40% thermal efficiency.

The engine is designed for use with a fresh water closed circuit heat exchanger or heat cooler system. Coolant is circulated at high rate by a centrifugal pump and temperature is automatically controlled at all loads and speeds from idle to maximum output.

The 6LXB features a wide use of aluminium, together with a one-piece cast iron dry lined cylinder block, with detachable cast iron cylinder heads ranged in two units of three.

Crankcase: The aluminium crankcase is pre-loaded vertically by 14 cylinder holding down studs reaching to steel main bearing bridges and transversely by 12 paired bolts embracing the width of the unit at each main bearing location. The combination of this construction achieves great rigidity and facilitates quiet and durable operation of the engine. The high relative expansion and heat conductivity of aluminium permits of small initial bearing clearance and the rapid dissipation of heat.

Crankshaft: The crankshaft, which is machined all over from a die stamping of chromium-molybdenum steel, has hollow bored crankpins and main journals, securing reduction of stress concentration and reduced main bearing loading. It carries a torsional vibration damper at its forward end and runs in seven pre-finished copper/lead overlay plated steel bearings and one roller bearing. Bearing areas are generous in the extreme, ensuring long service life.

Cylinder Heads: The cylinder heads carry vertical inlet and exhaust valves with dual springs, valve levers and centrally located fuel sprayers. Valves and valve seat inserts are Stellite faced and the valve levers embody controlled lubrication arrangements for valve ends, stems and push rods. A decompressing device lifts the inlet valves to facilitate hand turning of the engine for routine adjustments. Coolant transfer from cylinder block to heads is by synthetic rubber joint rings independent of the main gas joint which is of solid steel construction.

Fuel Injection: The Gardner camshaft/governor assembly is transverse mounted in permanent alignment on the engine crankcase and carries two matching tandem-mounted three-element C.A.V. B.P.P. fuel injection pumps. The fuel injection pump camshaft, which carries the centrifugal governor at its aft end, is driven by helical gears from the forward end of the valve camshaft. The drive arrangement incorporates the Gardner injection advance and retard mechanism and hand operated levers for each injection plunger are provided for priming and testing purposes.

Workshop Manual On Gardner 6lxb Engine

John Haynes



Workshop Manual On Gardner 6lxb Engine:

The Buses and Coaches of Bristol and Eastern Coach Works Nigel R B Furness, 2014-03-31 The Buses and Coaches of Bristol and Eastern Coach Works outlines the history of Bristol Commercial Vehicles and Eastern Coach Works ECW two manufacturers that together developed some of the most familiar buses and coaches of the twentieth century The book covers the full production histories and specifications for the standard range of models produced from 1936 to 1983 The variety of engines used to power Bristol ECW is outlined and a mechanical specification for each chassis is provided along with a description of the different body styles produced by ECW for each chassis There is also a chapter on owners experiences and advice on buying a bus for preservation **The Commercial Motor** ,1980 Dennis Buses and Other Vehicles Andy Goundry, 2020-03-23 The Dennis company has been building vehicles since 1895 making it the oldest continuously producing British manufacturer From its origins in a small Guildford shop the company has grown to become a major bus manufacturer with its products selling around the world This book discusses the company s highs and lows through two world wars challenging markets and ownership changes It documents the vehicles produced and their innovative design features from early cars and street cleaning machines to vans buses trucks fire engines and ambulances First hand descriptions of how and why some of the company s most successful products such as the Dart Trident and Enviro buses evolved It explains why their once market leading fire engines are no longer made It also analyses the reasons why some products were less successful and explores what happened to parts of the company that were sold over the years Finally the company s future opportunities and challenges are considered The author Andy Goundry has not only drawn on his own personal experience of almost twenty years of employment with the company but he has drawn on what is left of the company archives private collections and first hand accounts to produce this book as a salutation of over 125 years of continuous manufacturing *The Road Way* ,1976 *Proceedings of the Institution of Mechanical Engineers* Institution of Mechanical Engineers (Great Britain), 1978 **World Fishing** ,1979 **Australian Fisheries** ,1975 *Machinery* Lloyd ,1980 **Workshop Manual** ,1961 Industrial Engine Service Manual for 2700 Range Engines Ford Motor Company Ltd, 1966 *Small Engines and Outdoor Power Equipment* Cool Springs Press, 2014-03-15 This new book is more than a simple engine repair manual Designed for the beginner with little or no mechanical experience Small Engines Outdoor Power Equipment is a graphically appealing step by step guide that covers all of the most important engine maintenance and repair skills you ll need to keep your equipment running at peak performance It also shows exactly how to perform mechanical upkeep and repairs on the most common outdoor power implements including lawn mowers snow blowers chain saws power washers generators leaf blowers rototillers wood splitters lawn edgers and weed whips With clear how to photos and detailed diagrams you ll see exactly what needs to be done A comprehensive troubleshooting guide helps you define problems and enact solutions With Small Engines Outdoor Power Equipment in your library you won t need to haul the lawn mower off to

the repair center and wait a few weeks just because a filter is plugged or the old gas needs to be replaced Among the many skills you ll learn are seasonal tune ups changing oil servicing spark plugs cleaning filters replacing a muffler servicing the fuel tank overhauling a carburetor servicing brakes inspecting a flywheel replacing a fuel pump and replacing a rewind cord

Industrial Engine Service Manual for 2700 Range Engines ,1971 Troubleshooting and Repair Manual ,1985

Workshop Manual, G161Z Model, Gasoline Engine Isuzu Motors Limited. Engineering & Service Department. Export Division,1975 **Gardner Oil Engines, L3 Automotive Type** ,1960 *Industrial Engine Service Manual for 2700 Range*

Engines Ford Motor Company of Australia. Parts and Service Office,197? *MGB Owners Workshop Manual* John Haynes,1989-07-30 Haynes disassembles every subject vehicle and documents every step with thorough instructions and clear photos Haynes repair manuals are used by the pros but written for the do it yourselfer Industrial Engine Service

Manual for 2700 Range Engines Ford Motor Co., Ltd,Ford Motor Company Ltd,1966 **General Motors J-Cars Owners**

Workshop Manual Larry Warren,John Harold Haynes,1987 Engine Service Manual ,1979

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