

FOREWORD

This manual contains service, maintenance and repair information for all **Alfa Romeo 164 model year 1991 USA and CANADA** versions.

It supplies the service personnel with all information necessary to offer any Alfa Romeo customer a fast and precise vehicle service in any circumstance.

It includes procedures concerning removal and installation, disassembly and reassembly, checks and inspections: all operation are extensively illustrated for an easy identification of involved parts, as well as proper tools to be used. Symbols are used to highlight important operations as lubrication or proper tightening. Refer to the symbology table, in the "Introduction" paragraph.

All data needed for adjustments and dimensional checks are bold written and quickly found throughout the pages.

A special attention has been given to the troubleshooting procedures (located at the end of each group). Even the least experienced operator is so helped in the identification and correction of malfunctions, starting directly from the trouble reported by the customer and performing a series of tests on the affected systems.

More detailed information can be found in the Introduction paragraph, which should be anyway read before using the Manual.

This publication is issued together with the **"WIRING DIAGRAMS AND ELECTRICAL DIAGNOSIS"** manual. For information not covered in this publication, refer to the above-mentioned one.

All information contained in this manual refers to the latest data available at the time of printing. Alfa Romeo reserves itself the right to make changes in design, or addition to or improvement in its products at any time without notice.

Manual updating issues are however to be periodically expected.

Alfa Romeo 

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INTRODUCTION

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HOW TO USE THIS MANUAL

This manual is divided into chapters (GROUPS) related with the main group disassemblies.

Refer to the "Group Index" for a quick localization of the group you are interested in.

The symbols printed at the top corner of each page can also be used for a quick reference.

Each group is then divided into sections to address each component or item within the system.

An illustrated index and the table of contents refer to procedures and checks for each required component.

A short description opens each section, followed by "removal/installation", "disassembly/reassembly" and "checks and inspections" procedures.

Since most of the given instructions concern complete disassembly of components, they should be entirely followed only when strictly necessary.

After the pages of procedures, all data relevant to the group are collected in the "Technical Characteristics and Specifications" section, as well as the special tools used in the above-mentioned procedures.

A special attention has been given to the troubleshooting procedures (located at the end of each group) to help even the least experienced operator in the identification and correction of possible malfunctions, starting directly from the trouble reported by the customer and performing a series of tests on the affected systems.

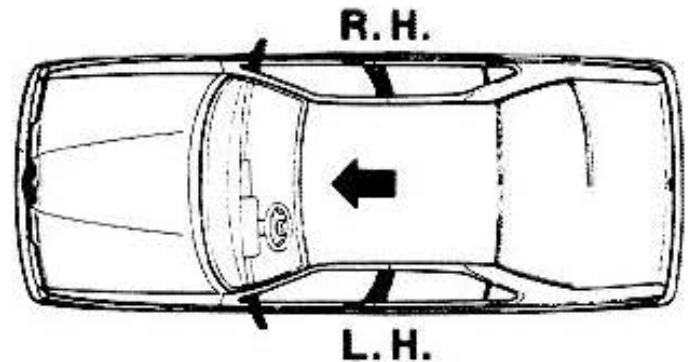
These procedures also intend to "teach" a systematic approach to locate and correct problems.

The "installation" and "reassembly" procedures are normally obtained reversing the order of the "removal" and "disassembly" procedures.

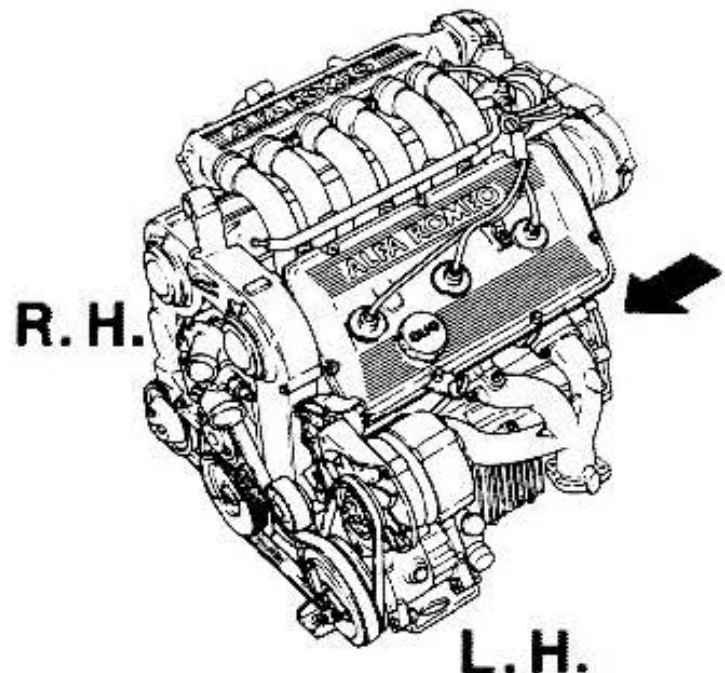
Specially marked notes headline some peculiar steps. Installation and reassembly are described and illustrated in completely different.

NOTE: In the present manual procedures often refer to L.H. and R.H. side.

Right and left are intended as they appear to an operator seated at the driver's place, as illustrated in the figure below:







































However, working on engine on bench, right and left side are referred to an operator looking at the engine from the flywheel side, as illustrated below:




SYMBOLOLOGY

Many special symbols are largely used in this manual for a quick reference and localization of data, warning and caution notes, etc...

A complete list of symbology herein used is below illustrated:

	removal / disassembly		
	installation / reassembly		
	tighten to torque		
	squeeze the nut		
	adjustment / setting		
	visual inspection check		
	lubricate		
	weight difference		
	angular value		
	pressure		
	temperature		
	brake system air bleeding		
	surface to be machined		
	interference		
	clearance / play		
	exhaust		
	lubricate with engine oil		
	i.h. screw		
	tightening torque with oil		
	engine idle R.P.M.		
	ovalization		
	taper		
	eccentricity		
	flatness		
	diameter		
	linear dimension		
	parallelism		
	smear with grease		
	heat up temperature		
	sealing / plugging		
	fill up with engine oil		
	grease		
	WARNING!		
			

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 CAUTION!