

# Boxer Engine Series Module

## Introduction

This Technicians Reference Booklet introduces the Subaru 2.2 liter (SOHC) naturally aspirated (N/A), (Phase 1) and (Phase 2) engines, the 2.5 liter (DOHC) (Phase 1) and (SOHC) (Phase 2) engines, the 2.0 liter Turbo engine and the 3.0 and 3.3 liter six cylinder engines.

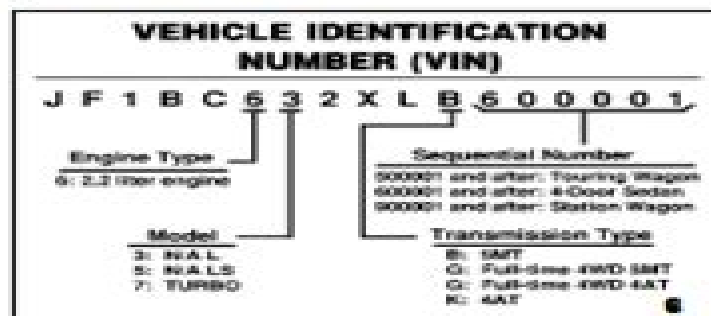
It reviews the mechanical features of these engines and the differences between existing engines. It also covers the procedures used in diagnosing and overhauling these engines. The text and illustrations are derived from and follow the classroom lectures and slide presentations and they are intended to supplement and reinforce classroom instruction and serve as a home-study reference source. A list of applicable Service Bulletins, Important Notes and Cautions, and Special Tools are given within this booklet. Pages for Diagnostic Tips and Notes are also provided.

Technicians worksheets are to be completed during the hands-on lab work segments of the Boxer Engine Series Module.

Always refer to the appropriate model year Subaru Service Manual and the applicable service bulletins for all specification and detailed servicing procedures.

## General Overview

### 2.2L Engine Identification



#### Engine Identification

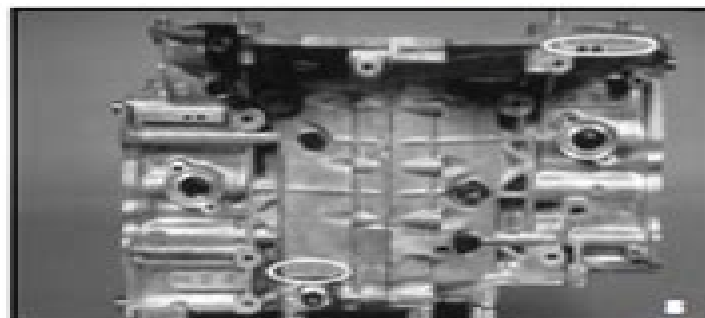
The 2.2L engine designation is the sixth digit of the vehicle identification number (VIN). It is important to always first identify the engine before beginning diagnosis and servicing. Body type and transmission type, as well as the model year, are also information pertinent to engine diagnosis and servicing. As shown in the illustration, all this information is available from the VIN and the appropriate service manual.

## Specifications

Displacement.....	2.2 Liters (2212cc)
Bore and Stroke.....	3.815 in. x 2.953 in. 96.9mm x 75mm
Compression Ratio.....	9.5:1 (1995) 9.7:1 (1996-98) 10:1 (1999 & Later)
Firing Order.....	1 - 3 - 2 - 4
Odd numbers:	right bank
Even numbers:	left bank
Max. Power.....	135 HP @ 5400 RPM (1995-96) 137 HP @ 5400 RPM (1997-98) 142 HP @ 5600 RPM (1999 & Later)
Max. Torque:	140 Ft. Lbs. @ 4400 RPM (1995-96) 145 Ft. Lbs. @ 4000 RPM (1997-98) 149 Ft. Lbs. @ 3600 RPM (1999 & Later)

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2.2L N/A Engine



Engine Serial and Designation Number

The engine serial number is located on the machined boss on the left side of the clutch housing. The 2.2L engine designation is EJ22.

# Subaru Boxer Engine Manual

**LL Leslie**



## Subaru Boxer Engine Manual:

High-Performance Subaru Builder's Guide Jeffrey Zurschmeide, 2007 Now more than ever Subaru fanatics have a wealth of factory and aftermarket performance upgrades at their disposal In High Performance Subaru Builder s Guide author Jeff Zurschmeide explains in detail the similarities and differences between the Subaru models and describes how to modify each for performance on the street and at the track He uses over 300 color photos to show you how to modify your Impreza Legacy WRX or STI for improved acceleration handling braking and style The book provides detailed chapters explaining how to modify the intake exhaust turbocharger and computer systems for more horsepower and torque plus info on upgrading your drivetrain to handle all that power If taking corners is your thing you ll find chapters on the suspension steering chassis brakes and wheels and tires A special chapter even shows you how to get started in your favorite type of racing including examples of successful racers and their cars *Focus On: 100 Most Popular Compact Cars* Wikipedia contributors,

**Focus On: 100 Most Popular Station Wagons** Wikipedia contributors, **2015 Passenger Car and 2014 Concept Car Yearbook** Automotive Engineering International, 2014-11-21 Every year global automakers introduce new or significantly re engineered passenger vehicles with increasingly advanced technology intended to exceed consumer expectations and satisfy increasingly stringent government regulations Some of these technologies are firsts of their kind and start trends that other automakers soon follow with the innovations becoming adopted across the board The supply community is also increasingly playing a more significant role in helping the original equipment manufacturers research develop and introduce the latest engineering innovations that help bring competitive advantage for their automaker partners Each year the editors of SAE s Automotive Engineering magazine publish many articles focused on the technology and engineering innovations of new passenger and concept vehicles and these articles have been collected into this volume This 2015 Passenger Car and 2014 Concept Car Yearbook is the fourth in an ongoing series of books that provide yearly snapshots of the latest and greatest technologies introduced by the automotive industry In this book we explore from an OEM and supplier perspective the newest and most technically interesting production vehicles released for the 2015 model year In addition we also have included a technology focused recap of the concept cars revealed during 2014 Readers will have in one publication a complete overview of the key advances that took place over the course of the year from around the world Each new model is profiled in its own chapter with one or more articles by the award winning editors and contributors of Automotive Engineering in this exclusive compilation of print and online content The novel engineering aspects of each new vehicle are explored with exclusive interviews of key engineers and product developers providing insights you can only get from you can only get from Automotive Engineering This book is published for the most technically minded enthusiasts who are interested in new car technologies as well as practicing automotive engineers who are interested in new engineering trends Engineering trends explored focus on what engineers are doing to meet the sometimes conflicting consumer and

governmental demands for improved vehicle fuel efficiency performance safety and comfort In short this book Provides a single source for information on the key engineering trends of the year from both automaker and supplier perspectives Allows the reader to skip to chapters that cover specific car models that interest them or read about all models from beginning to end Makes for dynamic book reading with its large number of big full color images and easy reading magazine format Focus On: 100 Most Popular Sedans Wikipedia contributors, **2014 Passenger Car Yearbook** Automotive Engineering International, 2013-12-10 Each year car manufacturers release new production models that are unique and innovative These cars begin as concepts then go through the process of prototyping The process of creating a new model can take years involving extensive testing and refining of aerodynamics safety engine components and vehicle styling The production model is the result of this lengthy process and its new technologies reflect the latest engineering standards as well as market trends The 2014 Passenger Car Yearbook details the key engineering developments in the passenger vehicle industry of the year Each new car model is profiled in its own chapter with one or more articles that were previously published and written by the award winning editors of Automotive Engineering International The novel engineering aspects of each new model are explored in depth Interviews with key developers and engineers are included for some of the models providing inside details about how initial ideas evolved in the cars that consumers drive Published for enthusiasts who are interested in new car models and their technologies as well as practicing automotive engineers who are interested in new engineering trends such as hybrid systems powertrain designs automotive design lightweighting and materials and new engineers who want an overview of current trends the 2014 Passenger Car Yearbook also Provides a single source for information on the key engineering trends of one year Allows the reader to skip to chapters that cover specific car models that interest them or read about all models from beginning to end Makes for dynamic reading with its large number of big full color images and easy reading magazine format *SPIN*, 2007-11 From the concert stage to the dressing room from the recording studio to the digital realm SPIN surveys the modern musical landscape and the culture around it with authoritative reporting provocative interviews and a discerning critical ear With dynamic photography bold graphic design and informed irreverence the pages of SPIN pulsate with the energy of today's most innovative sounds Whether covering what's new or what's next SPIN is your monthly VIP pass to all that rocks *Subaru Impreza* Brian Long, 2006 Perceived as a replacement for the long running Leone the Impreza quickly gained a great reputation through Subaru's successful WRC program This book covers the full story of the Impreza from concept through to the current production car looking at the rally machines along the way and illustrated throughout with contemporary material Now with over 400 mainly color pictures and significant additional text this is a fantasticwarts and all account of an amazing car **Snow Country**, 1990-11 In the 87 issues of Snow Country published between 1988 and 1999 the reader can find the defining coverage of mountain resorts ski technique and equipment racing cross country touring and the growing sport of snowboarding during a period of radical

change The award winning magazine of mountain sports and living tracks the environmental impact of ski area development and people moving to the mountains to work and live *SPIN*, 2007-12 From the concert stage to the dressing room from the recording studio to the digital realm SPIN surveys the modern musical landscape and the culture around it with authoritative reporting provocative interviews and a discerning critical ear With dynamic photography bold graphic design and informed irreverence the pages of SPIN pulsate with the energy of today's most innovative sounds Whether covering what's new or what's next SPIN is your monthly VIP pass to all that rocks **Torque**, 2006-01 Singapore's best homegrown car magazine with an editorial dream team driving it We fuel the need for speed **Ward's Auto World**, 2004

*Lemon-Aid New and Used Cars and Trucks 2007-2017* Phil Edmonston, 2017-03-11 Steers buyers through the the confusion and anxiety of new and used vehicle purchases like no other car and truck book on the market Dr Phil along with George Iny and the Editors of the Automobile Protection Association pull no punches Complete Car Care Manual Reader's Digest Association (Canada), 1981 Explains and illustrates the mechanical components of cars and how to do maintenance and repair on cars On a Global Mission: The Automobiles of General Motors International Volume 3 Louis F. Fourie, 2016-12-29 Volume One traces the history of Opel and Vauxhall separately from inception through to the 1970s and thereafter collectively to 2015 Special attention is devoted to examining innovative engineering features and the role Opel has taken of providing global platforms for GM Each model is examined individually and supplemented by exhaustive supporting specification tables The fascinating history of Saab and Lotus begins with their humble beginnings and examines each model in detail and looks at why these unusual marques came under the GM Banner Included is a penetrating review of Saab through to its unfortunate demise Volume Two examines unique models and variations of Chevrolet and Buick manufactured in the Southern Hemisphere and Asia but never offered in North America Daewoo Wuling and Baojun are other Asian brands covered in detail This volume concludes with recording the remarkable early success of Holden and its continued independence through to today Volume Three covers the smaller assembly operations around the world and the evolution of GM's export operations A brief history of Isuzu Subaru and Suzuki looks at the three minority interests GM held in Asia The GM North American model specifications are the most comprehensive to be found in a single book Global and regional sales statistics are included GM executives and management from around the globe are listed with the roles they held An index ensures that these volumes serve as the ideal reference source on GM Women's Health, 2007-12 Women's Health magazine speaks to every aspect of a woman's life including health fitness nutrition emotional well being sex and relationships beauty and style **AAA Autotest, 1994** American Automobile Association, 1993-12 *Star Observer Magazine* June 2015 Elias Jahshan, 2015-05-19 2013 Passenger Car Yearbook Automotive Engineering International, 2013-10-07 Each year car manufacturers release new production models that are unique and innovative The production model is the result of a lengthy process of testing aerodynamics safety engine components and vehicle styling The

new technologies introduced in these vehicles reflect changing standards as well as trends of the market From Acura to Volvo this book provides a snapshot of the key engineering concepts and trends of the passenger vehicle industry over the course of a year For each of the 43 new production models articles from Automotive Engineering International AEI magazine detail technology developments as well as a comprehensive look at the 2013 passenger car models This book provides those with an interest in new vehicles with all the information on the key automotive engineering and technology advancements of the year AEI's association with SAE International guarantees that these articles come from a trusted and reliable source with a reputation 100 plus years in the making The 2013 Passenger Car Yearbook features articles covering a wide variety of topics from styling safety testing hybrid systems powertrain designs lightweighting and materials Interviews with key designers and engineers offer the reader an in depth look at the strategies behind the year's technology advancements This yearbook is a must read to any vehicle enthusiast or engineer The 2013 Passenger Car Yearbook explores where automotive engineering and styling is heading in years to come and where it has come from in the past Torque ,2007-03 Singapore's best homegrown car magazine with an editorial dream team driving it We fuel the need for speed

## Reviewing **Subaru Boxer Engine Manual**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is actually astonishing. Within the pages of "**Subaru Boxer Engine Manual**," an enthralling opus penned by a very acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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### **Subaru Boxer Engine Manual Introduction**

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