

CHEVROLET ASTRA / VECTRA 2.0

DATOS TECNICOS

GENERALIDADES

Motor diesel 4 tiempos de inyección directa, 4 cilindros en línea dispuesto transversalmente en la parte delantera.

Bloque de cilindros de fundición y culata en aleación de aluminio.

Distribución con 16 válvulas y simple árbol de levas en cabeza arrastrado por cadena.

Tipo: X20DTL y X20DTH

Diámetro interior: 84 mm

Cámara: 90 mm

Cilindrada: 1994 cm³

Relación de compresión: 18,5 a 1

Presión de compresión: 17 a 24 bar

Diferencia de presión entre los cilindros: max. 1 bar

Potencia max.: X20DTL 80 kw/ 82 CV a 4300 rpm

X20DTH 74 kw/ 100 CV a 4300 rpm

Par máximo: X20DTL 18,8 kg a 1800 rpm

X20DTH 20,5 kg a 1600 - 2750 rpm

CULATA

Culata en aleación de aluminio con asientos y guías de válvulas incorporadas. Los apoyos inferiores de árbol de levas están directamente trabajados en la culata.

Tubería de recirculación de los gases de escape integrada.

Altura nominal: 140 mm

Plano de junta no rectificable.

Junta de culata

La junta de culata tiene unas marcas de espesor del lado distribución constituido por la presencia o no de muescas (3 como máximo).

Existen 3 espesores de junta de culata disponibles según la altura de pistones:

- sin muesca: 1,2 mm, para una altura de pistón entre 0,40 y 0,50 mm - 1 muesca: 1,3 mm, para una altura de pistón entre 0,51 y 0,60 mm - 2 muescas: 1,4 mm, para una altura de pistón entre 0,61 y 0,70 mm.

Válvulas

4 válvulas en cabeza por cilindro paralelas entre ellas y perpendiculares al plano de junta de la culata.

Accionadas por simple árbol de levas en cabeza por intermedio de balancines (cada leva acciona 2 válvulas) y de empujadores hidráulicos.

Características (mm)	Admisión	Escape
Longitud	-Origen 97,1	96,9
	-Reparación 97,2	97
Diámetro de la cabeza	28,9 a 29,1	25,9 a 26,1
Tiempo de la cola	-Origen 5,945 a 5,970	5,945 a 5,960
	-Reparación 1 6,000 a 6,045	6,020 a 6,075
	-Reparación 2 6,105 a 6,150	6,065 a 6,110
Juego axial/guía de válvula	0,030 a 0,067	0,040 a 0,067
Límite concentricidad válvula/guía	0,03	

Guías de válvulas

Guías montadas a presión en la culata.

Diámetro interior Origen 6,000 a 6,012 mm

Reparación 1 6,075 a 6,090 mm

Reparación 2 6,150 a 6,165 mm

Altura de montaje de una guía 11,20 a 11,50 mm

Asientos de válvulas

Asientos montados a presión en la culata.

Ángulo de superficie 45° 20'

Ancho de la superficie 1,4 a 1,6 mm

Juego de funcionamiento Sin reglaje posible debido al montaje de empujadores hidráulicos.

BLOQUE DE CILINDROS

Bloque motor de fundición con cilindros rectificadas directamente en la masa.

El bloque se compone de un refuerzo desmontable atornillado igualmente sobre los apoyos de cigüeñal.

Las marcas correspondientes al diámetro interior de los cilindros y el diámetro de los apoyos están en la parte baja del bloque cilindros del lado escape hacia la distribución.

Diámetro interior marca 8 83,975 a 83,985 mm

de los cilindros marca 95 83,985 a 83,995 mm

marca 00 83,995 a 84,005 mm

marca 01 84,005 a 84,015 mm

marca 02 84,015 a 84,025 mm

Sobremedida máxima admisible 0,5 mm

Diám. apoyos marca 0 72,0000 a 72,0065 mm

cigüeñal marca 1 72,0065 a 72,0130 mm

TREN ALTERNATIVO

Cigüeñal

Cigüeñal en acero con 8 masas de equilibrado sobre 3 apoyos y un amortiguador de torsión.

El 6º contrapeso está provisto de muescas para el captador de régimen motor y el pasador de calado.

Diámetro de los apoyos (mm)

Origen marca verde 67,986 a 67,994

marca marrón 67,974 a 67,982

Reparación 1 (minoración de 0,25)

marca verde/azul 67,716 a 67,724

marca marrón/azul 67,724 a 67,732

Reparación 2 (minoración de 0,50)

marca verde/violeta 67,466 a 67,474

marca marrón/violeta 67,474 a 67,482

Ancho de apoyo (mm)

Origen 26,950 a 26,002

Reparación 1 (minoración de 0,20)

marca azul 26,150 a 26,202

Reparación 2 (minoración de 0,40)

marca violeta 26,350 a 26,402

Diámetro de los cuellos (mm)

Origen 48,971 a 48,990

Reparación 1 (minoración de 0,25)

marca azul 48,721 a 48,740

Reparación 2 (minoración de 0,50)

marca violeta 48,471 a 48,490

Ovalización max. 0,03 mm

Juego radial 0,016 a 0,069 mm

Astra Dti Service Manual

L Darling-Hammond



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Table of Contents Astra Dti Service Manual

1. Understanding the eBook Astra Dti Service Manual
 - The Rise of Digital Reading Astra Dti Service Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Astra Dti Service Manual
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Astra Dti Service Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Astra Dti Service Manual
 - Personalized Recommendations
 - Astra Dti Service Manual User Reviews and Ratings

- Astra Dti Service Manual and Bestseller Lists
- 5. Accessing Astra Dti Service Manual Free and Paid eBooks
 - Astra Dti Service Manual Public Domain eBooks
 - Astra Dti Service Manual eBook Subscription Services
 - Astra Dti Service Manual Budget-Friendly Options
- 6. Navigating Astra Dti Service Manual eBook Formats
 - ePub, PDF, MOBI, and More
 - Astra Dti Service Manual Compatibility with Devices
 - Astra Dti Service Manual Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Astra Dti Service Manual
 - Highlighting and Note-Taking Astra Dti Service Manual
 - Interactive Elements Astra Dti Service Manual
- 8. Staying Engaged with Astra Dti Service Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Astra Dti Service Manual
- 9. Balancing eBooks and Physical Books Astra Dti Service Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Astra Dti Service Manual
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Astra Dti Service Manual
 - Setting Reading Goals Astra Dti Service Manual
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Astra Dti Service Manual
 - Fact-Checking eBook Content of Astra Dti Service Manual
 - Distinguishing Credible Sources

13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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