

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

Camara: 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 culata	-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

Brian Smothers

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the author's name.

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Autodata Car Repair Manual Astra Ivor Carroll,Graham Corby,1986 **Nissan Pulsar and Holden Astra Service and Repair Manual** P. G. Strasman,1997-01-01 Pulsar Series N12 82 87 Astra Series LB LC 84 86 1 3L 1 5L 1 6L engines Saab 900 8 Valve Bentley Publishers,1992 These official Saab manuals are the only factory authorized comprehensive single source of service information and specifications available Whether you re a professional technician or a do it yourselfer these manuals will help you understand care for and repair your Saab Everything from fundamental automotive concepts and maintenance procedures to complex electrical system troubleshooting and complete engine overhaul is clearly explained Critical updates and information from the Saab Service Information Manual the Parts Service Information System and Saab Service Training have been included as well as fast proven repair procedures and tips used by Saab technicians

Technical Service Manual American Motors Corporation. Automobile Technical Service,1957

Nissan Pulsar and Holden Astra Automotive Repair Manual Steve Rendle,1997-01-01 Pulsar Series N13 87 91 Astra

Series LD 87 89 1 6L 1 8L engines **Technical Service Manual** American Motors Corporation. Automotive Technical Service,1963 **Series 53 Service Manual** Detroit Diesel Corporation,1990 *Service Manual* ,1981 *1964 Dodge Technical Service Manual* Dodge Division,2020-05-10 This 1964 Dodge Technical Service Manual is a high quality licensed PRINT reproduction of the service manual authored by Dodge Division and published by Detroit Iron This OEM factory manual is 8 5 x 11 inches paperback bound shrink wrapped and contains 766 pages of comprehensive mechanical instructions with detailed diagrams photos and specifications for the mechanical components of your vehicle such as the engine transmission suspension brakes fuel exhaust steering electrical and drive line Service repair manuals were originally written by the automotive manufacturer to be used by their dealership mechanics The following 1964 Dodge models are covered 330 440 Dart Polara This factory written Detroit Iron shop manual is perfect for the restorer or anyone working on one of these vehicles

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