

Canadian Aero Manufacturing

Applicability list for CAM Lycoming Oil Pump replacement parts

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Document control number CA09-01

This applicability list is approved by PDA00-17, and its eligibility list CA-L-01 issued October 30 2001, or later approved revision.

The data on this list was generated based on the original Type Certificate data sheets, Lycoming parts catalogues, Lycoming Service Instruction No. 1164A (November 25 1991), and Lycoming Service Bulletin No. 524 (September 01 1995).

The engine models or series into which each of the listed CAM parts may be installed, are identified. Installers must be aware that not all parts are eligible for use in all engines, and the applicability must be checked for each part for which installation is intended

Installers must familiarize themselves with the content of the Lycoming service documents referred to above, and the appropriate parts catalogue for the engine upon which installation is intended. **The CAM78531 Oil Pump Body will fit in engines requiring a 78528 Oil Pump Body. This installation would prevent required oil flow, and a hazardous condition will exist if that engine is equipped with an "AN style" (shaft driven not plunger type) fuel pump. The installer must be certain the correct pump body is installed.** Lycoming Service Instruction No. 1164A provides complete guidance on this subject and is the easiest way to ascertain which Oil Pump Body is appropriate for installation in any particular Lycoming engine. The appropriate parts catalogue may also be used. It may be determined that the Service Instruction, and the parts catalogue are in conflict with each other. If this is the case, the parts catalogue will favor the 78528 (thus CAM78528) Oil Pump Body. No hazardous condition will exist from installing the CAM78528 Oil Pump Body where the 78531 could also be installed.

Special note to O-235 and O-290 maintainers: Canadian Aero Manufacturing has had two reports to date of older O-235 and O-290 engines which, when fitted with ANY one piece Oil Pump Body, would not form a seal adequate to develop oil pressure. Apparently ONLY the original two-piece body (which has a much different fit to the mating face of the rear case) would seal properly. This difficulty cannot be seen when the pump is installed on the rear case, and is only apparent when a detailed comparison is made of the mating faces of both parts.

The installer must confirm proper operation of all of the oil pump parts, prior to assembly of the accessory case to the engine.

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Applicability for the CAM78531 and CAM78528 Oil Pump Body

CAM78531 and CAM78528 Oil Pump Bodies cannot be installed on and therefore are not eligible on any XXX6D engine

O-235-Series , T.C. E-223	O-290-Series , T.C. E-229	O-320-Series , T.C. E-274
IO-320-Series , T.C. 1E12	AIO-320-Series , T.C. 1E12	AEIO-320-Series , T.C. 1E12
O-340-Series , T.C. E-277	O-360-Series , T.C. E-286	IO-360-Series , T.C. 1E10
AIO-360-Series , T.C. 1E10	AEIO-360-Series , T.C. 1E10	HIO-360-Series , T.C. 1E10
HO-360-Series , T.C. E-286	TIO-360-Series , T.C. E16EA	O-540-Series , T.C. E-295
IO-540-Series , T.C. 1E4	AEIO-540-Series , T.C. 1E4	

Applicability for CAM18109-1 and CAM18110-1 Oil Pump Impellers

These two impellers are known as CAM18109A-S as a set, and are only to be installed only as a set. As such, they are equivalent to Lycoming P/N 05K19423-S. As a set, the installation of the CAM18109-1 and CAM18110-1 meet the requirements of Lycoming Service Bulletin No. 524, and are terminating action for AD96-09-10.

O-235-C1, C1A, C1B, C1C, C2A, C2B, C2C, E1, E1B, E2A, E2B, F1, F1B, F2A, F2B, G1, G1B, G2A, G2B, H2C, J2A, J2B, K2A, K2B, K2C, L2A, L2C, M1, M2C, 3C, N2A, N2C, P1, P2A, P2C, P3C, Approved under T.C. E-223

O-290-D, D2, D2B, D2C, Approved under T.C. E-229

O-320-A1A, A1B, A2A, A2B, A2C, A2D, A3A, A3B, A3C, B1A, B1B, B2A, B2B, B2C, B3A, B3B, B3C, C1A, C1B, C2A, C2B, C2C, C3A, C3B, C3C, D1A, D1B, D1C, D1D, D1F, D2A, D2B, D2C, D2F, D2G, D2H, D2J, D3G, E1A, E1B, E1C, E1F, E1J, E2A, E2B, E2C, E2D, E2F, E2G, E2H, E3D, E3H, Approved under T.C. E-274

IO-320-B1B, C1A, A1A, A2A, B1A, B1C, B1D, B2A, D1A, D1B, E1A, E1B, E2A, E2B, F1A, Approved under T.C. 1E12

AIO-320-A1A, A1B, A2A, A2B, B1B, C1B, Approved under T.C. 1E12

AEIO-320-E1A, E2A, E1B, E2B, Approved under T.C. 1E12

LIO-320-B1A, C1A, Approved under T.C. 1E12

O-340-A1A, A2A, B1A, Approved under T.C. E-277

O-360-A2E, A3D, A1A, A1C, A1D, A1F, A1F6, A1G, A1G6, A1H, A1H6, A1P, A2A, A2D, A2F, A2G, A2H, A3A, A4A, A4D, A4G, A4J, A4K, A4M, A4N, A4P, B1A, B1B, B2A, B2B, B2C, C1A, C1C, C1E, C1F, C1G, C2A, C2C, C2D, C2E, C4F, C4P, D1A, D2A, D2B, F1A6, G1A6, J2A, A1AD, A1F6D, A1G6D, A1LD, A3AD, A4AD, A5AD, Approved under T.C. E-286

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Applicability for CAM18109-1 and CAM18110-1 Oil Pump Impellers, continued;

IO-360-B1D, C1F, A1A, A1B, A1B6, A1B6D, A1C, A1D, A1D6, A2A, A2B, A3B6, A3B6D, A3D6D, B1A, B1B, B1C, B1E, B1F, B1F6, B1G6, B2E, B2F, B2F6, B4A, C1A, C1B, C1C, C1C6, C1D6, C1E6, C1E6D, C1G6, D1A, E1A, F1A, J1AD, K2A, L2A, M1A, Approved under T.C. 1E10

AIO-360-A1A, A1B, B1B, A2A, A2B, Approved under T.C. 1E12, Approved under T.C. 1E10

AEIO-360-B1D, A1A, A1B, A1B6, A1C, A1D, A1E, A1E6, A2A, A2B, A2C, B1B, B1F, B1F6, B1G6, B1H, B2F, B2F6, B4A, H1A, H1B, Approved under T.C. 1E12, Approved under T.C. 1E10

HIO-360-B1B, A1A, A1B, B1A, C1A, C1B, D1A, E1AD, E1BD, F1AD, Approved under T.C. 1E10

HO-360-A1A, B1A, B1B, C1A, Approved under T.C. E-286

LIO-360-C1E6, Approved under T.C. 1E10

LO-360-A1G6D, A1H6, Approved under T.C. E-286

TIO-360-A1A, A1B, A3B6, C1A6D, Approved under T.C. E16EA

TO-360-A1A6D, C1A6D, E1A6D, F1A6D, Approved under T.C. E26EA

LTO-360-A1A6D, E1A6D, Approved under T.C. E26EA

O-540-A1A, A1A5, A1B5, A1C5, A1D, A1D5, A2B, A3D5, A4A5, A4C5, A4D5, B1A5, B1B5, B1D5, B2A5, B2B5, B2C5, B4A5, B4B5, D1A5, E4A5, E4B5, E4C5, F1A5, F1B5, G1A5, G2A5, H1A5, H2A5, J3A5, Approved under T.C. E-295

IO-540-C1C5, C2C, C4C5, A1A5, AB1A5, B1A5, B1B5, B1C5, C1B5, C4B5, C4B5D, C4D5, D4A5, D4B5, D4C5, E1A5, E1B5, E1C5, G1A5, G1B5, G1C5, G1D5, G1E5, G1F5, J4A5, K1A5, K1A5D, K1B5, K1B5D, K1C5, K1D5, K1E5, K1E5D, K1F5, K1F5D, K1G5, K1G5D, K1H5, K1J5, K1J5D, K1K5, K2A5, L1A5, L1A5D, L1B5D, L1C5, M1A5, M1A5D, M1B5D, M1C5, M2A5D, N1A5, R1A5, W1A5, Approved under T.C. 1E4

AEIO-540-D4D5, D4A5, D4B5, D4C5, L1B5D, Approved under T.C. 1E4

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Applicability for CAM61174 Oil Pump Driveshaft

CAM61174 Oil Pump Driveshaft cannot be installed on and therefore is not eligible on any XXX6D engine

O-235-C1, C1A, C1B, C1C, C2A, C2B, C2C, E1, E1B, E2A, E2B, F1, F1B, F2A, F2B, G1, G1B, G2A, G2B, H2C, J2A, J2B, K2A, K2B, K2C, L2A, L2C, M1, M2C, M3C, N2A, N2C, P1, P2A, P2C, P3C, Approved under T.C. E-223

O-290-D, D2, D2B, D2C, Approved under T.C. E-229

O-320-A1A, A1B, A2A, A2B, A2C, A2D, A3A, A3B, A3C, B1A, B1B, B2A, B2B, B2C, B3A, B3B, B3C, C1A, C1B, C2A, C2B, C2C, C3A, C3B, C3C, D1A, D1B, D1C, D1D, D1F, D2A, D2B, D2C, D2F, D2G, D2H, D2J, D3G, E1A, E1B, E1C, E1F, E1J, E2A, E2B, E2C, E2D, E2F, E2G, E2H, E3D, E3H, Approved under T.C. E-274

IO-320-B1B, C1A, A1A, A2A, B1A, B1C, B1D, B2A, D1A, D1B, E1A, E1B, E2A, E2B, F1A, Approved under T.C. 1E12

AIO-320-A1A, A1B, A2A, A2B, B1B, C1B, Approved under T.C. 1E12

AEIO-320-E1A, E2A, E1B, E2B, Approved under T.C. 1E12

LIO-320-B1A, C1A, Approved under T.C. 1E12

O-340-A1A, A2A, B1A, Approved under T.C. E-277

O-360-A2E, A3D, A1A, A1C, A1D, A1F, A1F6, A1G, A1G6, A1H, A1H6, A1P, A2A, A2D, A2F, A2G, A2H, A3A, A4A, A4D, A4G, A4J, A4K, A4M, A4N, A4P, B1A, B1B, B2A, B2B, B2C, C1A, C1C, C1E, C1F, C1G, C2A, C2C, C2D, C2E, C4F, C4P, D1A, D2A, D2B, F1A6, G1A6, J2A, Approved under T.C. E-286

IO-360-B1D, C1F, A1A, A1B, A1B6, A1C, A1D, A1D6, A2A, A2B, A3B6, B1A, B1B, B1C, B1E, B1F, B1F6, B1G6, B2E, B2F, B2F6, B4A, C1A, C1B, C1C, C1C6, C1D6, C1E6, C1G6, D1A, E1A, F1A, J1AD, K2A, L2A, M1A, Approved under T.C. 1E10

AIO-360-A1A, A1B, B1B, A2A, A2B, Approved under T.C. 1E10

AEIO-360- A1A, A1B, A1B6, A1C, A1D, A1E, A1E6, A2A, A2B, A2C, B1B, B1D, B1F, B1F6, B1G6, B1H, B2F, B2F6, B4A, H1A, H1B, Approved under T.C. 1E10

HIO-360-B1B, A1A, A1B, B1A, C1A, C1B, D1A, Approved under T.C. 1E10

HO-360-A1A, B1A, B1B, C1A, Approved under T.C. E-286

LIO-360-C1E6, Approved under T.C. 1E10

LO-360-A1H6, Approved under T.C. E-286

TIO-360-A1A, A1B, A3B6, Approved under T.C. E16EA.

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Applicability for CAM74641 Oil Pump Driveshaft

CAM74641 Oil Pump Driveshaft cannot be installed on and therefore is not eligible on any XXX6D engine

O-540-A1A, A1A5, A1B5, A1C5, A1D, A1D5, A2B, A3D5, A4A5, A4B5, A4C5, A4D5, B1A5, B1B5, B1D5, B2A5, B2B5, B2C5, B4A5, B4B5, D1A5, E4A5, E4B5, E4C5, F1A5, F1B5, G1A5, G2A5, H1A5, H2A5, J3A5, Approved under T.C. E-295

IO-540- A1A5, AA1A5, AA1B5, AB1A5, B1A5, B1B6, B1C5, C1B5, C1C5, C2C, C4C5, C4B5, C4D5, D4A5, D4B5, D4C5, E1A5, E1B5, E1C5, G1A5, G1B5, G1C5, G1D5, G1E5, G1F5, J4A5, K1A5, K1B5, K1B5D, K1C5, K1D5, K1E5, K1F5, K1G5, K1H5, K1J5, K1K5, K2A5, L1A5, L1C5, M1A5, M1A5D, M1B5D, M1C5, M2A5D, N1A5, R1A5, T4B5, W1A5, Approved under T.C. 1E4

AEIO-540-D4D5, D4A5, D4B5, D4C5, Approved under T.C. 1E4

-END-