

MANDATORY SERVICE BULLETIN

November 30, 2005

Supplement No. 1

To

Service Bulletin No. 566

SUBJECT: Crankshaft Replacement in Lycoming Engines

MODELS AFFECTED: Any Lycoming engine model specified below manufactured, rebuilt, overhauled or repaired after March 1, 1999:

Lycoming counterweighted (L)O-360, (L)IO-360 and AEIO-360 engines rated at any horsepower as listed in Table 1.

Any overhauled or repaired Lycoming counterweighted (L)O-360, (L)IO-360 or AEIO-360 engine that has had a crankshaft replaced after March 1, 1999 with a crankshaft serial number listed in Table 2.

Lycoming crankshafts with a crankshaft serial number listed in Table 2 shipped as a spare after March 1, 1999. These crankshafts may be installed in any of the engine models listed above.

TIME OF COMPLIANCE: Within next 50 hours of operation or 6 months from the date of this Supplement No. 1 to Service Bulletin No. 566, whichever occurs first.

Lycoming has continued to analyze crankshafts in service. This analysis indicates that replacement of certain crankshafts is warranted. Therefore, Lycoming is recalling certain crankshafts in the specified four cylinder engines.

All affected Lycoming crankshafts have a serial number format of "V5379" followed by a 3 to 5 digit number and are listed in Table 2. Please note that not all "V5379" crankshafts are affected. The crankshaft serial number is marked on the O.D. of the propeller mounting flange.

NOTES

1. The engine model, engine serial number, date of engine manufacture, and horsepower rating can be found in the engine logbook or on the engine data plate. This information will be required to determine if your engine is affected.
2. Some field repair stations mark their own identification (numbers and/or letters) on the propeller flange O.D. These numbers are not related to any Lycoming information.

NOTES (CONT.)

3. For reference purposes, other Lycoming crankshaft serial number formats include the following:
 - a. An “I” followed by 5 digits.
 - b. A “V” followed by a 3 to 5 digit number.
 - c. A number from 3 to 6 digits.

Crankshafts with these serial numbers are not affected by this Supplement No. 1 to Service Bulletin No. 566.

INSTRUCTIONS FOR COMPLIANCE:

1. If your Lycoming engine serial number is listed in Table 1, before 50 hours or 6 months, whichever occurs first, contact Lycoming by phone at 570-323-6181 or by fax at 570-327-7160 to schedule return of the engine for crankshaft replacement.
2. If your engine model was overhauled, repaired, or had the crankshaft replaced after March 1, 1999, verify the crankshaft serial number through pertinent aircraft/engine documentation or overhaul/maintenance facility records. The engine logbook may contain crankshaft replacement and serial number information. If your crankshaft serial number is listed in Table 2, contact Lycoming by phone at 570-323-6181 or by fax at 570-327-7160 to schedule return of the engine for crankshaft replacement. If your crankshaft serial number cannot be verified through engine records, contact Lycoming.
3. Crankshafts listed in Table 2 must **not** be reused to assemble any engine. Check any uninstalled crankshaft against Table 2. If a subject crankshaft is found, contact Lycoming.
4. After you determine that your engine and crankshaft are not affected by this Supplement No. 1 to Service Bulletin No. 566, make appropriate logbook entries.
5. Factory replacement of this crankshafts listed in Table 2 will be accomplished at no cost to the owner. Labor for engine removal and reinstallation, when authorized by Lycoming, will be reimbursed in accordance with the current revision of Removal and Installation Labor Allowance Guidebook, SSP-875 through an authorized Lycoming Distributor, using the standard Warranty procedure.

TABLE 1

Model	Engine S/N	Model	Engine S/N	Model	Engine S/N
AEIO-360-A1B6	L-28965-51A	IO-360-A1B6	RL-2877-51A	IO-360-C1C6	L-29391-51A
AEIO-360-A1B6	L-29018-51A	IO-360-A1B6	RL-11790-51A	IO-360-C1C6	L-29484-51A
AEIO-360-A1B6	L-29044-51A	IO-360-A1B6	RL-13548-51A	IO-360-C1C6	L-29507-51A
AEIO-360-A1B6	L-29141-51A	IO-360-A1B6	RL-17614-51A	IO-360-C1C6	L-29803-51A
AEIO-360-A1B6	L-29290-51A	IO-360-A1B6	RL-23590-51A	IO-360-C1C6	RL-1292-51A
AEIO-360-A1B6	L-29291-51A	IO-360-A1B6	RL-29286-51A	IO-360-C1C6	RL-4200-51A
AEIO-360-A1B6	L-29293-51A	IO-360-A1B6	RL-29499-51A	IO-360-C1C6	RL-8484-51A
AEIO-360-A1B6	L-29366-51A	IO-360-A1B6D	RL-9828-51A	IO-360-C1C6	RL-20934-51A
AEIO-360-A1B6	L-29367-51A	IO-360-A1B6D	RL-21174-51A	IO-360-C1C6	RL-22989-51A
AEIO-360-A1E6	L-28899-51A	IO-360-A1B6D	RL-22715-51A	IO-360-C1C6	RL-23356-51A
IO-360-A1B6	L-3572-51A	IO-360-A1B6D	RL-22894-51A	IO-360-C1C6	RL-29361-51A
IO-360-A1B6	L-9961-51A	IO-360-A1B6D	RL-23340-51A	IO-360-C1C6	RL-29502-51A
IO-360-A1B6	L-12163-51A	IO-360-A1B6D	RL-25054-51A	IO-360-C1D6	L-3174-51A
IO-360-A1B6	L-16789-51A	IO-360-A1B6D	RL-29218-51A	IO-360-C1E6	L-3190-51A
IO-360-A1B6	L-21199-51A	IO-360-A3B6	L-13023-51A	IO-360-C1E6	L-16870-51A
IO-360-A1B6	L-25751-51A	IO-360-A3B6	L-15548-51A	IO-360-C1E6	L-25682-51A
IO-360-A1B6	L-27725-51A	IO-360-A3B6	L-19447-51A	IO-360-C1E6	L-26913-51A
IO-360-A1B6	L-28618-51A	IO-360-A3B6	L-27084-51A	IO-360-C1E6	L-29036-51A
IO-360-A1B6	L-28619-51A	IO-360-A3B6	L-28701-51A	IO-360-C1E6	L-29080-51A
IO-360-A1B6	L-28667-51A	IO-360-A3B6	L-28866-51A	IO-360-C1E6	L-29156-51A
IO-360-A1B6	L-28668-51A	IO-360-A3B6	L-28942-51A	IO-360-C1E6	RL-27468-51A
IO-360-A1B6	L-28853-51A	IO-360-A3B6	L-29035-51A	IO-360-C1G6	L-29273-51A
IO-360-A1B6	L-28855-51A	IO-360-A3B6	L-29118-51A	IO-360-C1G6	L-29281-51A
IO-360-A1B6	L-28856-51A	IO-360-A3B6	L-29179-51A	IO-360-C1G6	L-29282-51A
IO-360-A1B6	L-28941-51A	IO-360-A3B6	L-29355-51A	LIO-360-C1E6	L-181-67A
IO-360-A1B6	L-28946-51A	IO-360-A3B6	L-29483-51A	LIO-360-C1E6	L-261-67A
IO-360-A1B6	L-29022-51A	IO-360-A3B6	L-29485-51A	LIO-360-C1E6	L-360-67A
IO-360-A1B6	L-29081-51A	IO-360-A3B6	L-29747-51A	LIO-360-C1E6	L-420-67A
IO-360-A1B6	L-29177-51A	IO-360-A3B6	RL-9672-51A	LIO-360-C1D6	L-427-67A
IO-360-A1B6	L-29230-51A	IO-360-A3B6	RL-9722-51A	LIO-360-C1E6	L-445-67A
IO-360-A1B6	L-29251-51A	IO-360-A3B6D	L-15188-51A	LIO-360-C1E6	L-578-67A
IO-360-A1B6	L-29254-51A	IO-360-A3B6D	RL-6561-51A	LIO-360-C1E6	L-596-67A
IO-360-A1B6	L-29264-51A	IO-360-A3B6D	RL-25003-51A	LIO-360-C1E6	L-728-67A
IO-360-A1B6	L-29265-51A	IO-360-A3B6D	RL-29503-51A	LIO-360-C1E6	L-840-67A
IO-360-A1B6	L-29266-51A	IO-360-B1G6	L-29038-51A	LIO-360-C1E6	L-932-67A
IO-360-A1B6	L-29267-51A	IO-360-B1G6	L-29039-51A	LIO-360-C1E6	L-1067-67A
IO-360-A1B6	L-29294-51A	IO-360-B1G6	L-29040-51A	LIO-360-C1E6	RL-286-67A
IO-360-A1B6	L-29295-51A	IO-360-C1C6	L-910-51A	LIO-360-C1E6	RL-526-67A
IO-360-A1B6	L-29299-51A	IO-360-C1C6	L-1042-51A	LIO-360-C1E6	RL-666-67A
IO-360-A1B6	L-29300-51A	IO-360-C1C6	L-6260-51A	LIO-360-C1E6	RL-807-67A
IO-360-A1B6	L-29301-51A	IO-360-C1C6	L-7501-51A	LIO-360-C1E6	RL-1120-67A
IO-360-A1B6	L-29390-51A	IO-360-C1C6	L-7637-51A	LIO-360-C1E6	RL-1121-67A
IO-360-A1B6	L-29441-51A	IO-360-C1C6	L-14808-51A	LO-360-A1G6D	RL-191-71A
IO-360-A1B6	L-29442-51A	IO-360-C1C6	L-18351-51A	LO-360-A1G6D	RL-289-71A
IO-360-A1B6	L-29466-51A	IO-360-C1C6	L-21786-51A	LO-360-A1G6D	RL-623-71A
IO-360-A1B6	L-29467-51A	IO-360-C1C6	L-22086-51A	LO-360-A1H6	L-333-71A
IO-360-A1B6	L-29468-51A	IO-360-C1C6	L-22939-51A	LO-360-A1H6	L-480-71A
IO-360-A1B6	L-29469-51A	IO-360-C1C6	L-28699-51A	LO-360-A1H6	L-517-71A
IO-360-A1B6	L-29482-51A	IO-360-C1C6	L-28732-51A	LO-360-A1H6	L-581-71A
IO-360-A1B6	L-29553-51A	IO-360-C1C6	L-29067-51A	LO-360-A1H6	L-600-71A
IO-360-A1B6	L-29574-51A	IO-360-C1C6	L-29191-51A	LO-360-A1H6	L-617-71A
IO-360-A1B6	L-29689-51A	IO-360-C1C6	L-29232-51A	LO-360-A1H6	L-620-71A

TABLE 1 (CONT.)

Model	Engine S/N	Model	Engine S/N	Model	Engine S/N
LO-360-A1H6	L-626-71A	LO-360-E1A6D	RL-555-72T	O-360-A1H6	L-37787-36A
LO-360-A1H6	L-627-71A	LO-360-E1A6D	RL-556-72T	O-360-A1H6	L-37805-36A
LO-360-A1H6	L-628-71A	LO-360-E1A6D	RL-557-72T	O-360-A1H6	L-37846-36A
LO-360-A1H6	L-629-71A	LO-360-E1A6D	RL-558-72T	O-360-A1H6	L-37924-36A
LO-360-A1H6	L-630-71A	LO-360-E1A6D	RL-560-72T	O-360-A1H6	L-37925-36A
LO-360-A1H6	L-631-71A	LO-360-E1A6D	RL-561-72T	O-360-A1H6	L-38176-36A
LO-360-A1H6	L-632-71A	LO-360-E1A6D	RL-563-72T	O-360-A1H6	L-38228-36A
LO-360-A1H6	L-633-71A	LO-360-E1A6D	RL-564-72T	O-360-A1H6	RL-19007-36A
LO-360-A1H6	L-634-71A	LO-360-E1A6D	RL-565-72T	O-360-A1H6	RL-24085-36A
LO-360-A1H6	L-635-71A	O-360-A1F6	L-33321-36A	O-360-E1A6D	L-165-77T
LO-360-A1H6	L-636-71A	O-360-A1F6	L-37214-36A	O-360-E1A6D	L-357-77T
LO-360-A1H6	L-637-71A	O-360-A1F6	L-37537-36A	O-360-E1A6D	L-366-77T
LO-360-A1H6	L-638-71A	O-360-A1F6	L-37647-36A	O-360-E1A6D	L-449-77T
LO-360-A1H6	L-639-71A	O-360-A1F6	RL-31111-36A	O-360-E1A6D	L-469-77T
LO-360-A1H6	L-640-71A	O-360-A1F6	RL-37004-36A	O-360-E1A6D	L-505-77T
LO-360-A1H6	L-642-71A	O-360-A1F6	RL-37006-36A	O-360-E1A6D	L-539-77T
LO-360-A1H6	L-643-71A	O-360-A1F6	RL-37007-36A	O-360-E1A6D	RL-184-77T
LO-630-A1H6	L-644-71A	O-360-A1F6	RL-37623-36A	O-360-E1A6D	RL-400-77T
LO-360-A1H6	L-645-71A	O-360-A1F6D	L-11151-36A	O-360-E1A6D	RL-442-77T
LO-360-A1H6	L-651-71A	O-360-A1F6D	RL-20376-36A	O-360-E1A6D	RL-531-77T
LO-360-A1H6	L-653-71A	O-360-A1F6D	RL-37017-36A	O-360-E1A6D	RL-564-77T
LO-360-A1H6	L-654-71A	O-360-A1F6D	RL-37485-36A	O-360-E1A6D	RL-575-77T
LO-360-A1H6	L-655-71A	O-360-A1G6D	L-5136-36A	O-360-E1A6D	RL-576-77T
LO-360-A1H6	L-657-71A	O-360-A1G6D	L-5434-36A	O-360-E1A6D	RL-577-77T
LO-360-A1H6	L-658-71A	O-360-A1G6D	L-6207-36A	O-360-E1A6D	RL-578-77T
LO-360-A1H6	L-659-71A	O-360-A1G6D	L-6285-36A	O-360-E1A6D	RL-579-77T
LO-360-A1H6	L-660-71A	O-360-A1G6D	L-12910-36A	O-360-E1A6D	RL-581-77T
LO-360-A1H6	L-690-71A	O-360-A1G6D	L-14781-36A	O-360-F1A6	L-11108-36A
LO-360-E1A6D	L-108-72T	O-360-A1G6D	L-22567-36A	O-360-F1A6	L-11519-36A
LO-360-E1A6D	L-132-72T	O-360-A1G6D	L-23257-36A	O-360-F1A6	L-11583-36A
LO-360-E1A6D	L-158-72T	O-360-A1G6D	L-23409-36A	O-360-F1A6	L-18221-36A
LO-360-E1A6D	L-210-72T	O-360-A1G6D	L-26109-36A	O-360-F1A6	L-18594-36A
LO-360-E1A6D	L-233-72T	O-360-A1G6D	L-27989-36A	O-360-F1A6	L-20047-36A
LO-360-E1A6D	L-346-72T	O-360-A1G6D	L-30059-36A	O-360-F1A6	L-22342-36A
LO-360-E1A6D	L-445-72T	O-360-A1G6D	L-32119-36A	O-360-F1A6	L-22417-36A
LO-360-E1A6D	L-452-72T	O-360-A1G6D	L-33222-36A	O-360-F1A6	L-23221-36A
LO-360-E1A6D	L-497-72T	O-360-A1G6D	RL-12824-36A	O-360-F1A6	L-27673-36A
LO-360-E1A6D	L-540-72T	O-360-A1G6D	RL-16308-36A	O-360-F1A6	L-28663-36A
LO-360-E1A6D	L-570-72T	O-360-A1G6D	RL-23428-36A	O-360-F1A6	L-28794-36A
LO-360-E1A6D	RL-135-72T	O-360-A1G6D	RL-26076-36A	O-360-F1A6	L-29945-36A
LO-360-E1A6D	RL-156-72T	O-360-A1G6D	RL-26172-36A	O-360-F1A6	L-30257-36A
LO-360-E1A6D	RL-186-72T	O-360-A1G6D	RL-37028-36A	O-360-F1A6	L-31058-36A
LO-360-E1A6D	RL-199-72T	O-360-A1G6D	RL-37080-36A	O-360-F1A6	L-33799-36A
LO-360-E1A6D	RL-224-72T	O-360-A1H6	L-3964-36A	O-360-F1A6	L-35875-36A
LO-360-E1A6D	RL-235-72T	O-360-A1H6	L-29951-36A	O-360-F1A6	L-37661-36A
LO-360-E1A6D	RL-236-72T	O-360-A1H6	L-37296-36A	O-360-F1A6	RL-28613-36A
LO-360-E1A6D	RL-354-72T	O-360-A1H6	L-37352-36A	O-360-F1A6	RL-32831-36A
LO-360-E1A6D	RL-372-72T	O-360-A1H6	L-37515-36A	O-360-F1A6	RL-34366-36A
LO-360-E1A6D	RL-451-72T	O-360-A1H6	L-37738-36A	O-360-F1A6	RL-37018-36A
LO-360-E1A6D	RL-496-72T	O-360-A1H6	L-37769-36A	O-360-F1A6	RL-37034-36A
LO-360-E1A6D	RL-523-72T			O-360-F1A6	RL-37435-36A

TABLE 2

Crankshaft S/N	Crankshaft S/N	Crankshaft S/N	Crankshaft S/N	Crankshaft S/N	Crankshaft S/N
V537910373	V537913014	V537913671	V537914718	V537915335	V537916058
V537912825	V537913015	V537913809	V537914719	V537915336	V537916059
V537912827	V537913016	V537913923	V537914720	V537915337	V537916060
V537912829	V537913017	V537913934	V537914721	V537915338	V537916061
V537912830	V537913018	V537913988	V537914722	V537915339	V537916062
V537912831	V537913021	V537914236	V537914723	V537915340	V537916063
V537912833	V537913022	V537914237	V537914724	V537915341	V537916064
V537912837	V537913023	V537914238	V537914725	V537915343	V537916295
V537912838	V537913024	V537914239	V537914727	V537915344	V537916296
V537912839	V537913026	V537914240	V537914728	V537915345	V537916297
V537912840	V537913027	V537914242	V537914729	V537915346	V537916298
V537912841	V537913028	V537914243	V537914730	V537915347	V537916299
V537912842	V537913029	V537914244	V537914731	V537915348	V537916300
V537912845	V537913030	V537914245	V537914732	V537915675	V537916301
V537912846	V537913031	V537914246	V537914733	V537915676	V537916302
V537912848	V537913033	V537914247	V537914734	V537916022	V537916303
V537912851	V537913034	V537914249	V537914735	V537916023	V537916304
V537912852	V537913035	V537914250	V537914736	V537916024	V537916305
V537912853	V537913037	V537914252	V537914737	V537916025	V537916306
V537912854	V537913040	V537914253	V537914738	V537916026	V537916307
V537912855	V537913041	V537914254	V537914739	V537916027	V537916309
V537912856	V537913042	V537914255	V537914740	V537916029	V537916310
V537912982	V537913043	V537914280	V537914741	V537916030	V537916311
V537912983	V537913044	V537914366	V537914742	V537916031	V537916312
V537912984	V537913045	V537914558	V537914743	V537916032	V537916313
V537912985	V537913046	V537914690	V537914744	V537916033	V537916314
V537912986	V537913047	V537914691	V537914745	V537916035	V537916500
V537912987	V537913048	V537914692	V537914746	V537916036	V537916501
V537912990	V537913049	V537914693	V537914747	V537916037	V537916502
V537912991	V537913050	V537914694	V537914748	V537916038	V537916503
V537912992	V537913183	V537914695	V537914749	V537916039	V537916504
V537912993	V537913184	V537914700	V537914750	V537916041	V537916505
V537912994	V537913185	V537914701	V537914751	V537916042	V537916506
V537912995	V537913186	V537914702	V537914752	V537916043	V537916507
V537912996	V537913187	V537914703	V537914753	V537916044	V537916508
V537912997	V537913188	V537914704	V537914754	V537916045	V537916509
V537912998	V537913189	V537914705	V537914755	V537916046	V537916510
V537913000	V537913190	V537914706	V537914756	V537916047	V537916511
V537913002	V537913191	V537914707	V537914757	V537916048	V537916512
V537913003	V537913192	V537914708	V537914758	V537916049	V537916513
V537913004	V537913194	V537914709	V537914759	V537916050	V537916514
V537913005	V537913195	V537914710	V537914760	V537916051	V537916515
V537913007	V537913196	V537914711	V537914761	V537916052	V537916516
V537913008	V537913375	V537914712	V537915329	V537916053	V537916517
V537913009	V537913661	V537914713	V537915331	V537916054	V537916518
V537913010	V537913663	V537914714	V537915332	V537916055	V537916519
V537913011	V537913667	V537914715	V537915333	V537916056	V537916520
V537913013	V537913670	V537914717	V537915334	V537916057	V537916522

TABLE 2 (CONT.)

Crankshaft S/N	Crankshaft S/N	Crankshaft S/N	Crankshaft S/N	Crankshaft S/N	Crankshaft S/N
V537916523	V537916999	V537917015	V537918245	V537918307	V537918323
V537916524	V537917000	V537917016	V537918246	V537918308	V537918325
V537916525	V537917001	V537917017	V537918247	V537918309	V537918326
V537916526	V537917002	V537917018	V537918248	V537918310	V537918327
V537916527	V537917003	V537917019	V537918249	V537918311	V537918328
V537916528	V537917004	V537917020	V537918250	V537918312	V537918329
V537916529	V537917005	V537917021	V537918251	V537918313	V537918330
V537916987	V537917006	V537917022	V537918252	V537918314	V537918331
V537916988	V537917007	V537917023	V537918253	V537918315	V537918334
V537916989	V537917008	V537917024	V537918254	V537918316	V537919254
V537916991	V537917009	V537917025	V537918255	V537918317	V537919317
V537916993	V537917010	V537917026	V537918256	V537918318	V537919652
V537916994	V537917011	V537917902	V537918302	V537918319	V537923290
V537916995	V537917012	V537918242	V537918303	V537918320	
V537916996	V537917013	V537918243	V537918305	V537918321	
V537916997	V537917014	V537918244	V537918306	V537918322	