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# SERVICE INSTRUCTION

DATE: November 20, 2020

Service Instruction No. 1579  
Engineering Aspects are  
FAA Approved

SUBJECT: Exhaust System Replacement Components

MODELS AFFECTED: TIO-540-AJ1A

TIME OF COMPLIANCE: As required

**NOTICE:** Incomplete review of all the information in this document can cause errors. Read the entire Service Instruction to make sure you have a complete understanding of the requirements.

This Service Instruction contains replacement component information for exhaust system kits 05J28882 and 05J28883 previously installed on TIO-540-AJ1A engines under the guidance of Lycoming Service Bulletin 627E and/or Airworthiness Directive (AD) 2017-11-10.

This parts list can be applied to the following TIO-540-AJ1A engines shipped from Lycoming.

- Factory REBUILT and OVERHAUL engines with the supplied logbook entry dated on or after August 22, 2017
- Factory NEW engines beginning with serial number L-14337-61E

**⚠ CAUTION:** DO NOT USE THIS SERVICE INSTRUCTION AS AN ASSEMBLY OR INSTALLATION DOCUMENT. THIS SERVICE INSTRUCTION MUST ONLY BE USED TO IDENTIFY PARTS IN CONJUNCTION WITH THE APPLICABLE MANUALS.



ISSUED			REVISED			PAGE NO.	REVISION
MO	DAY	YEAR	MO	DAY	YEAR		
11	20	20	--	--	--	1 of 4	--

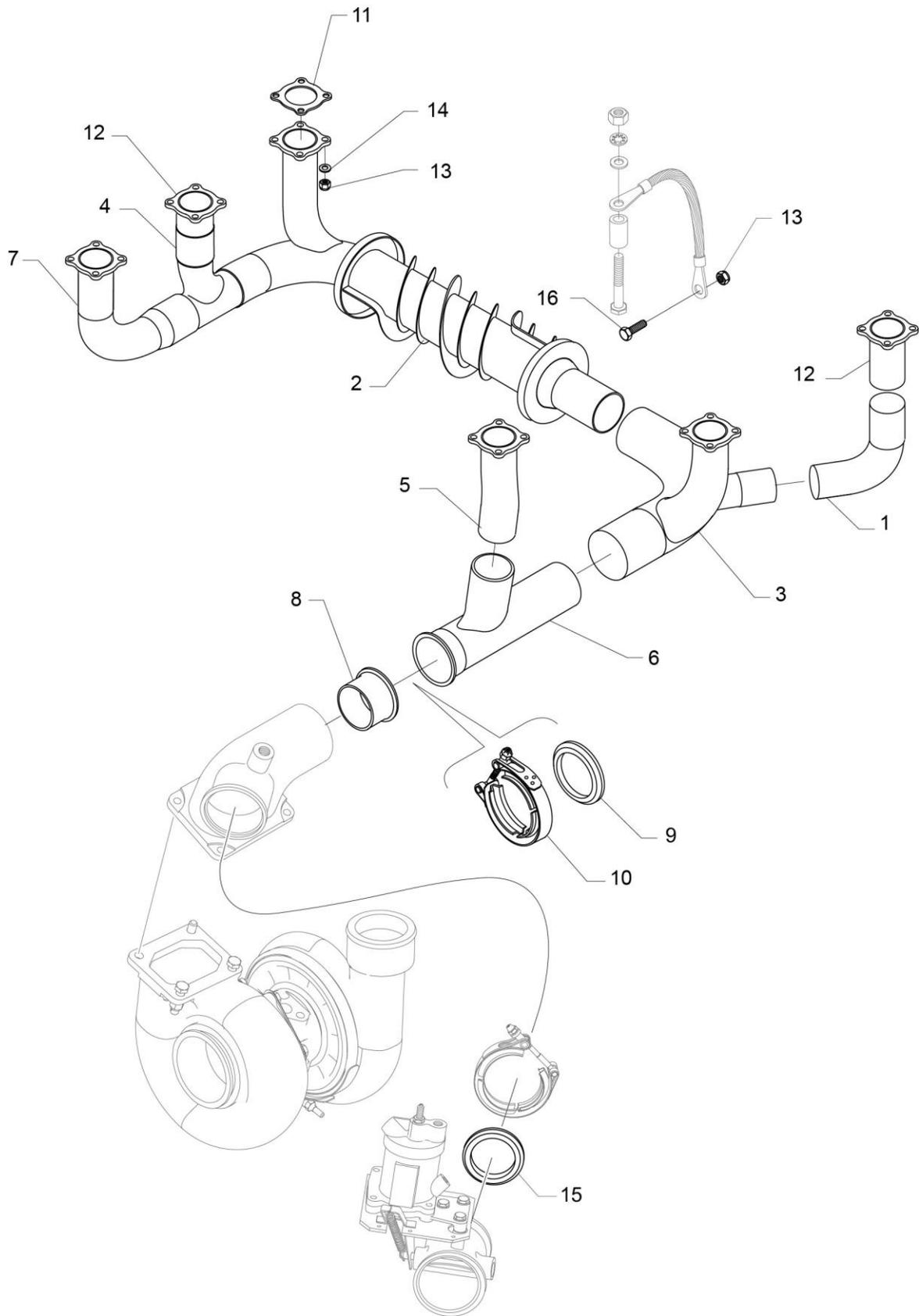
**Figure 1 & 2 – Exhaust System Replacement Kit and Hardware**

Figure Item	Part Number	Description	Units per Assembly
1	40B28859	PIPE, Exhaust, cylinder No. 1	1
	40B28871	PIPE, Exhaust, cylinder No. 1 (EGT probe hole)	1
2	40B28743	PIPE, Exhaust, cylinder No. 2	1
	40B28872	PIPE, Exhaust, cylinder No. 2 (EGT probe hole)	1
3	40B28744	PIPE, Exhaust, cylinder No. 3	1
	40B28873	PIPE, Exhaust, cylinder No. 3 (EGT probe hole)	1
4	40B28745	PIPE, Exhaust, cylinder No. 4	1
	40B28874	PIPE, Exhaust, cylinder No. 4 (EGT probe hole)	1
5	40B28746	PIPE, Exhaust, cylinder No. 5	1
	40B28875	PIPE, Exhaust, cylinder No. 5 (EGT probe hole)	1
6	40B28747	PIPE, Exhaust, intermediate, cylinder No. 5	1
7	40B28748	PIPE, Exhaust, cylinder No. 6	1
	40B28876	PIPE, Exhaust, cylinder No. 6 (EGT probe hole)	1
8	78064	FLANGE, Exhaust manifold	1
9	78246	GASKET, V-band coupling, 2-1/4 tube	1
10	LW-12093-6	COUPLING, V-band, 2-1/4 O.D. tube (MVT69183-225)	1
11	LW-18234	GASKET, Exhaust flange	12
12	40G28860	ADAPTER, Exhaust pipe	2
13	STD-2044	NUT, 1/4-20 self-locking	25
14	AN960C416	WASHER, 1/4 plain	24
15	75845	GASKET, V-band coupling, 2-1/4	1
16	LW-25SS-0.75	BOLT, 1/4-20 x 3/4 long, hex. head	1
17	MS20500-624	NUT, 3/8-24 UNF, self-locking	10
18	AN6C17A	BOLT, 3/8-24 UNF x 1-61/64 long	1
19	LW-38SS-1.06	BOLT, 3/8-16 x 1-1/16 long, hex. head	2
20	AN6C22A	BOLT, 3/8-24 UNF x 2-21/64 long	1
21	AN6C11A	BOLT, 3/8-24 UNF x 1-13/64 long	2
22	406064	LOCKPLATE	1

Kit P/N 05J28882 for exhaust system without holes for Exhaust Gas Temperature (EGT) Probes.  
 Kit P/N 05J28883 for exhaust system with holes for EGT Probes.

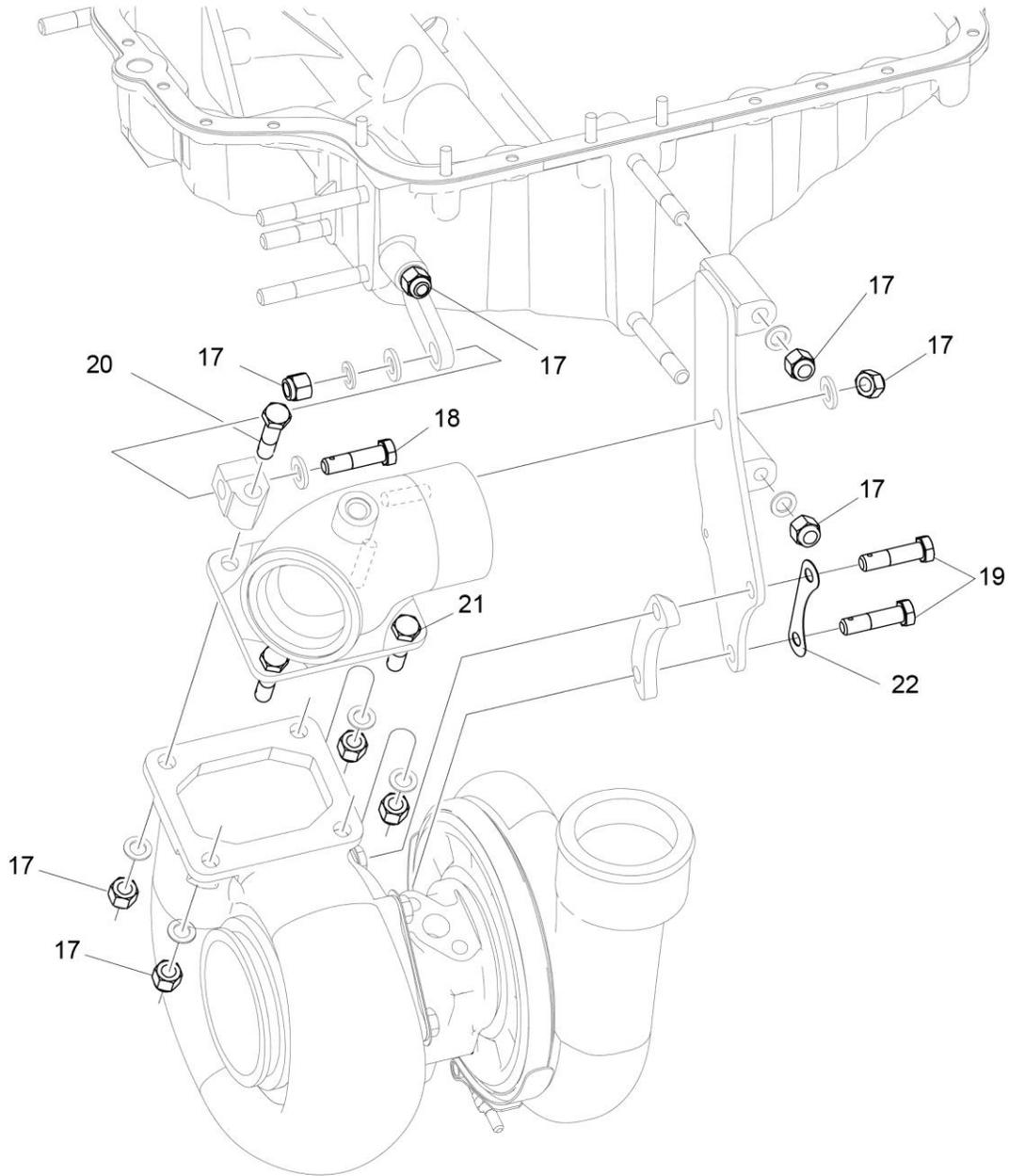
**NOTICE:** Parts listed with EGT probe holes are intended for use on aircraft equipped with individual EGT probes. Installations that do not have individual EGT probes use parts without EGT probe holes.

ISSUED			REVISED			PAGE NO.	REVISION	S.I. 1579
MO	DAY	YEAR	MO	DAY	YEAR	2 of 4	--	
11	20	20	--	--	--			



**Figure 1**  
**TIO-540-AJ1A Turbocharged Exhaust System**

ISSUED			REVISED			PAGE NO.	REVISION	S.I. 1579
MO	DAY	YEAR	MO	DAY	YEAR			
11	20	20	--	--	--	3 of 4	--	



**Figure 2**  
**TIO-540-AJ1A Turbocharger Hardware**

If you have any questions, contact Lycoming Technical Support by phone at 570-327-7222 or 877-839-7878 or email to [Technicalsupport@lycoming.com](mailto:Technicalsupport@lycoming.com).

ISSUED			REVISED			PAGE NO.	REVISION	S.I. 1579
MO	DAY	YEAR	MO	DAY	YEAR			
11	20	20	--	--	--	4 of 4	--	