

80-06-05 SLICK ELECTRO, INC.: Amendment 39-3718. Applies to the following Slick magneto models and associated serial and impulse coupling numbers:

MAGNETO MODEL NO. (1)	IMPULSE COUPLING		NO. (1)
	SERIAL NO. (1)	(2)	
447 & 447R	9040001 thru	9040049	M2374
662 & 662R	9020462 thru	9070000	M2362
664 & 664R	9040001 thru	9040086	M2370
680 & 680R	9020462 thru	9070000	M2369
4151 & 4151R	9020017 thru	9070000	M1709
4152 & 4152R	9020017 thru	9070000	M1709
4181 & 4181R	9020017 thru	9070000	M1709
4201 & 4201R	9020210 thru	9070000	M3007
4251 & 4251R	9030001 thru	9070000	M3163
4281 & 4281R	9030001 thru	9070000	M3007
4230 & 4230R	9040001 thru	9040197	M3068
6210	8090073 thru	9070000	M3050
6214	8050001 thru	9070000	M3089
			(3) M2371, M3100, & M3165

NOTES:

- (1) Any of the units listed were manufactured subsequent to January 1979.
- (2) Any magneto serial numbers between and including the lower and upper limits as shown are affected by this AD.
- (3) These coupling numbers are for parts used as spares and also must be tested.

The magneto models as listed above are installed on, but not limited to, the following engines:

Lycoming	AEIO-360
	AEIO-320
	IO-320
	O-235
	O-320
	O-360
Continental	A-65-8
	A-75-8
	C-85-8
	C-90-8
	O-200-A
	O-300-A, -B, -C, -D
	O-470-U
	IO-360-KB
	IO-470
	IO-520-A, -B, -F
	TSIO-470
	TSIO-520-T

Compliance is required as indicated unless already accomplished.

To prevent a possible magneto failure and subsequent engine or accessory malfunction, accomplish the following:

Prior to the next ten (10) hours of aircraft time in service, or within the next thirty (30) calendar days from the date of this AD, whichever occurs first, complete the following comparative

hardness test procedures:

1. Remove the impulse coupling magneto(s) from the engine per engine manufacturer's instructions.
2. Remove the impulse coupling assembly from the magneto frame per Slick's maintenance and overhaul instructions.
3. Establish a reference level of acceptable metal hardness by sliding a fine cut mill file over the flat surface of either pawl. The file will slide freely and will only burnish the hard surface of the pawl.
4. By a similar filing action, test for the hardness of each of the two rivet heads.
5. If there is resistance to sliding and material is removed from the rivet head, the rivet has not been heat treated and the coupling assembly must be replaced. Return the defective coupling assembly to a Slick Electro, Inc. distributor.
6. If hardness of the rivet heads and pawls are equivalent, reassemble and identify AD compliance by metal stamping a letter "C" on the Slick insignia located on the side of the magneto identification plate.
7. If the results of the comparative hardness test on the rivet(s) are questionable, the coupling assembly must be replaced.

This amendment becomes effective March 28, 1980, as to all persons except those to whom it was made immediately effective by the airmail letter dated February 4, 1980, which contained this amendment.