

THE WARNER AIRCRAFT CORPORATION  
20263 Hoover Avenue  
Detroit, Michigan

SERVICE LETTER M-10

May 7, 1941

Gentlemen:

This is to advise you that from this date on, all engines leaving our factory will be equipped with the following valve springs:

<u>SUPER SCARAB</u>	<u>Intake</u>	<u>Exhaust</u>
Outer Spring	7740	7740
Inner Spring	7131	7741
<u>SCARAB AND SCARAB JUNIOR</u>		
Outer Spring	7132	7740
Inner Spring	7131	7741

You will notice from this letter that part No. 7494 Spring Outer Valve Super Scarab is now being replaced by No. 7740 Spring Outer Valve. You will also notice that part No. 7131 Spring Inner Valve is being replaced by part No. 7741 on all engines on the exhaust side. On the Super Scarab engine, part No. 7740 replaced part No. 7494 on the intake side.

However, part No. 7131 will still be used as the inner spring on the intake side of all Super Scarab engines. The valve spring "set-up" on the intake side of the Scarab and Scarab Junior engines remains the same. Valve springs No. 7740 and 7741 may be identified, also, by the red paint on the end of the spring.

When installing the No. 7740 and 7741 Valve Springs, the dampener end marked with the red paint should be installed to rest upon part No. 7094 Valve Washer Lower, which bears on the cylinder head.

In filling service orders, part No. 7740 will supercede part No. 7494. Part No. 7740, Outer Spring, and Part No. 7741 Inner Spring, is a satisfactory combination for use with the No. 7610, Exhaust Valve, and 7739 Exhaust Valve.

However, when it is definitely known that the above mentioned valves are installed in Warner Engines, Part No. 7741 may be substituted for Part No. 7131, Spring. Exhaust Valve No. 7610 is used in all Super Scarab engines having the letter "E" following

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the engine number.

However, valve No. 7739 is of different material than Valve No. 7610 which is installed in the Super Scarab engine. In identifying the No. 7610 valve from the No. 7739 valve, a small magnet can be used. The No. 7610, Austenetic Steel Valve, is non-magnetic, whereas the No. 7739 valve is magnetic.

All valve springs No. 7740 and 7741 being shipped from our factory at this time are accompanied with service instructions covering their installation. It is, therefore, advisable at the time you re-ship these valve springs, that service instructions for installation be forwarded. When shipping you this type of valve spring, a quantity of our Service letters will accompany same.

Yours very truly,

THE WARNER AIRCRAFT CORPORATION

L. A. Faunce, Vice-President  
Sales Manager

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