

REPLACEMENT PARTS LIST - CONTRACT W535-AC-8131

<u>Part No.</u>	<u>Part Name and Description</u>	<u>No. of Units</u>	<u>Unit Price</u>	<u>Total</u>
503603	Bearing, propeller shaft (inner) This bearing had turned in propeller shaft and slipped out 1/16 inch to the gear flange. Replaced with a new bearing having .001 more shrink on propeller shaft. New bearing bored in place	1	49.27	49.27
503726	Housing - camshaft The right hand cam housing was cracked in the fillets at several of the mounting pads. The design will be changed to strengthen up the part where failure occurred, however, in order to continue operations, temporary replacement was made from stock on hand as part of Spare Parts Contract W535-AC-9060.	1	Government property	
503708	Support - valve rocker The new cam housing necessitated new valve rocker supports. Replaced from stock on hand as part of Spare Parts Contract W535-AC-9060.	6	Government property	
503709	Cap - valve rocker support and camshaft bearing The new cam housing necessitated new caps as they are bored in place. Replaced from stock on hand as part of Spare Parts Contract W535-AC-9060.	6	Government property	
503733	Cap - camshaft thrust bearing The new cam housing necessitated new thrust bearing cap. Made one new part.	1	15.10	15.10
503735	Cap - camshaft rear bearing The new cam housing necessitated new rear bearing cap. Replaced from government stock on hand as part of Spare Parts Contract W535-AC-9060.	1	Government property	
501104	Pin - bearing dowel The new cam housing necessitated a new bearing dowel pin. Made new parts.	2	.64	1.28
503736	Cover - cam housing The cam housing cover had been cracked and a new one was installed with the new cam housing. As this is the second cover that has cracked, the design will be changed to eliminate this failure, however, to continue operations, temporary replacement was made from stock on hand as part of Spare Parts Contract W535-AC-9060.	1	Government property	

<u>Part No.</u>	<u>Part Name and Description</u>	<u>No. of Units</u>	<u>Unit Price</u>	<u>Total</u>
503748	Finger assembly - clockwise distributor The finger broke damaging the distributor head and plate. This is the second such failure and as it is a standard Scintilla part, the damaged piece was sent to them for suggestions as to the trouble. Replaced from spare stock on hand as part of Spare Parts order P.O. 37-4358.	1		Government property
503750	Head clockwise distributor This part was damaged when the finger assembly broke. Replaced from spare parts on hand as part of Spare Parts order W535-AC-9785, P.O. 37-4358.	1		Government property
503771	Plate - distributor insulating This part was damaged when the finger assembly broke. Replaced from spare parts on hand as part of Spare Parts Order W535-AC-9785, P.O. 37-4358.	1		Government property
503604	Bearing - propeller shaft (outer) Bearing metal broke loose from steel backing causing failure and also plugging oil feed line to inner bearing causing pinion reduction gear to seize on the inner bearing. Replaced without change. One new bearing bored in place.	1	42.40	42.40
503603	Bearing - propeller shaft inner. Failure caused by failure of part number 503604. Replaced without change. One new bearing bored in place.	1	49.27	49.27
503566	Shaft - propeller Failure of outer bearing caused slight scoring on journal necessitating re-grinding. Re-work present part.	1	6.12	6.12
500570	Gear - pinion reduction gear Lack of oil due to failure of bearing, part number 503604, caused front journal to seize in its bearing necessitating re-grinding of journal. Re-work present part.	1	5.80	5.80

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<u>Part No.</u>	<u>Part Name and description</u>	<u>No. of Units</u>	<u>Unit Price</u>	<u>Total</u>
500569	Shaft - crankshaft reduction gear drive Overheating of part number 500570 caused this part to stick at spline. Difficulty was experienced in dis-assembly and after dis-assembly the spline needed re-grinding and the gear teeth needed re-working to gauge. Re-work present part.	1	16.40	16.40
503507	Housing - reduction gear front The failure of the propeller shaft bearing caused its supporting boss to go out of round necessitating re-boring. Re-work present piece.	1	<u>20.40</u>	<u>20.40</u>
Total of Replacement Parts List dated 5-15-37				\$206.04

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RECAPITULATION

Replacement parts previously reported\$9,920.47
 Total of Replacement Parts List dated 5-15-37 206.04
 Total Replacement Parts listed to date 5-15-37\$10,126.51

Spare Parts Contract W535-AC-8131
 P.O. 37-1091 Invoiced 9-16-36\$3,372.11

spare Parts Contract W535-AC-9573
 P.O. 37-3067 Invoiced 1-9-37 2,457.13

Spare Parts Contract W535-AC-9785
 P.O. 37-4368 Invoiced 4-8-37 2,776.95

Total Replacement Parts invoiced to date 5-15-37 8,606.19

Total Government liability to date 5-15-37, over and
 above the amount specified in article 17, as provided
 for in paragraph #3d, Item 3 of article 15, subject
 contract\$1,520.32

AIR CORPS INSPECTOR'S CERTIFICATE

I certify that the articles listed on pages one to three inclusive of
 this report dated 5-15-37 were inspected and accepted by me in the quantities
 stated, and that they conform to the contract requirements for articles
 and parts used in the subject engine, and that the above replacement
 articles and parts were necessary for the continued operation of the
 subject engine.



 Inspector's Signature

Procurement Inspector
 U. S. Army Air Corps

 Title and Rank

6-8-37
 Date