

REPLACEMENT PARTS LIST - CONTRACT W535-AC-8131Progress  
Report

<u>Date</u>	<u>Part No.</u>	<u>Part Name and Description</u>	<u>No. of Units</u>	<u>Unit Price</u>	<u>Total</u>
9-30-36	503691	Magneto The front magneto coil went dead and was replaced by a coil taken from the magneto #2071 on loan from Wright Field	1		Government Property
9-30-36	503537	Gear - accessory drive shaft drive This gear broke at the shaft. A photograph of this has been mailed to the Division by the Resident Inspector. The apparent stresses on this shaft are not high, however it must be subjected to additional stresses not calculated for. A new replacement part was in stock (part of contract W535-AC-9060) This was reinforced with a shaft pressed on the inside as shown on drawing number 500600 which will be used until a new part with a heavier section where the failure occurred is made. Reinforcing part on hand as shown on drawing no. 500600	1	19.50	19.50
9-30-36	500524	Bearing - accessory drive eccentric Damaged from overload and misalignment due to failure of gear part number 503537. Replaced with same type, no change.	2	27.32	54.64
9-30-36	503785	Pin - piston ring Pin for the first ring in piston No. 1L and the second ring in 2R and 4R became loose in piston. Replaced with a new part fitting tighter in piston	3	1.14	3.42
9-30-36	503840	Oil ring - 3/16 A.H. vented. In order to cut down on the oil consumption a 3/16 American Hammered special vented oil ring was placed in the lower groove of the present pistons. This ring set-up had been tested on the single cylinder test engine and should cut the oil consumption on the multi cylinder engine about 50% as desired.	12	.72	8.64

## Progress

Report Date	Part No.	Part Name and Description	No. of Units	Unit Price	Total
9-30-36	503783	Piston The lower ring groove on all pistons was widened out to accommodate the 3/16 oil rings as described above. Re-machining present pistons as shown on drawing number 500601.	12	2.04	24.48
9-30-36	503691	Magneto The front magneto coil again went dead and was replaced by a coil taken from magneto #2071 on loan from Wright Field.	1	Government Property	
9-30-36	503787	Spark plugs B.G. spark plugs were replaced with a new set of Champion M-11-A. These plugs had been tested on the single cylinder and proved very satisfactory. They were sent as samples for test by the Champion Spark Plug Company.	24	No Charge	

Total of Replacement parts List dated 9-30-36 .....\$110.68

RECAPITULATION

Replacement parts previously reported .....	\$4,508.19
Total of Replacement Parts List dated 9-30-36 .....	<u>110.68</u>
Total Replacement Parts listed to date 9-30-36 .....	\$4,618.87
Spare Parts Contract W535-AC-9188 P.O. 37-1091 Invoiced 9-16-36 .....	<u>3,372.11</u>
Total Government liability to date, 9-30-36, over and above the amount specified in Article 17, as provided for in paragraph #3d, Item 3 of Article 15, subject contract .....	\$1,246.76

AIR CORPS INSPECTOR'S CERTIFICATE

I certify that the articles listed on pages one and two of this report dated 9-30-36 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.

Silas C. Snyder  
Inspector's Signature

Oct. 7, 1936  
Date

Procurement Inspector  
U. S. Army Air Corps  
Title and Rank