

DESCRIPTION AND MAINTENANCE INSTRUCTIONS

RE-DESIGNATION OF CHAMPION SPARK PLUGS

(This EO replaces EO 15-5CA-2A dated 5 Jul 57)

- 1 The purpose of this EO is to familiarize personnel with the current designation system of Champion spark plugs.
- 2 Champion Spark Plug Company are gradually converting the shielded aviation spark plug production to the original wide seating flange design .970" an increase of .100" over the former design. Along with this increase in flange diameter a zinc coating process on the spark plug body has been adopted to increase the protection against corrosion encountered under humid or long term storage conditions.
- 3 This current, see appendix "B", and former, see appendix "A", system has been introduced to simplify identification of plug types and does not involve any change of operating characteristics.
- 4 The following list details the original, former and current corresponding designations:

Original Designation Wide seating flange .970 inches	Former Designation Narrow seating flange .870 inches	Current Designation Wide seating flange .970 inches
R37S-1	REA37N	REB37N
R103	RHA29N	RHB29N
R111	RHA32N	RHB32N
R115	RHA37N	RHB37N
RC26S	RED39N	REM39N

NOTE

C26S spark plugs remain the same, as these plugs are no longer in production.

ISSUED ON AUTHORITY OF THE CHIEF OF THE AIR STAFF

~~AMC/SAGO/ACR~~
~~Jan 21/60~~

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1 The spark plugs listed are not in order of preference. In any one engine all spark plugs installed are to be of the same type.

2 Spark plugs approved types for RCAF aircraft engines in this EO will have precedence over all spark plugs listed in applicable engine or aircraft EOs.

3 Spark plugs are to be changed at periods detailed in relevant aircraft maintenance schedules.

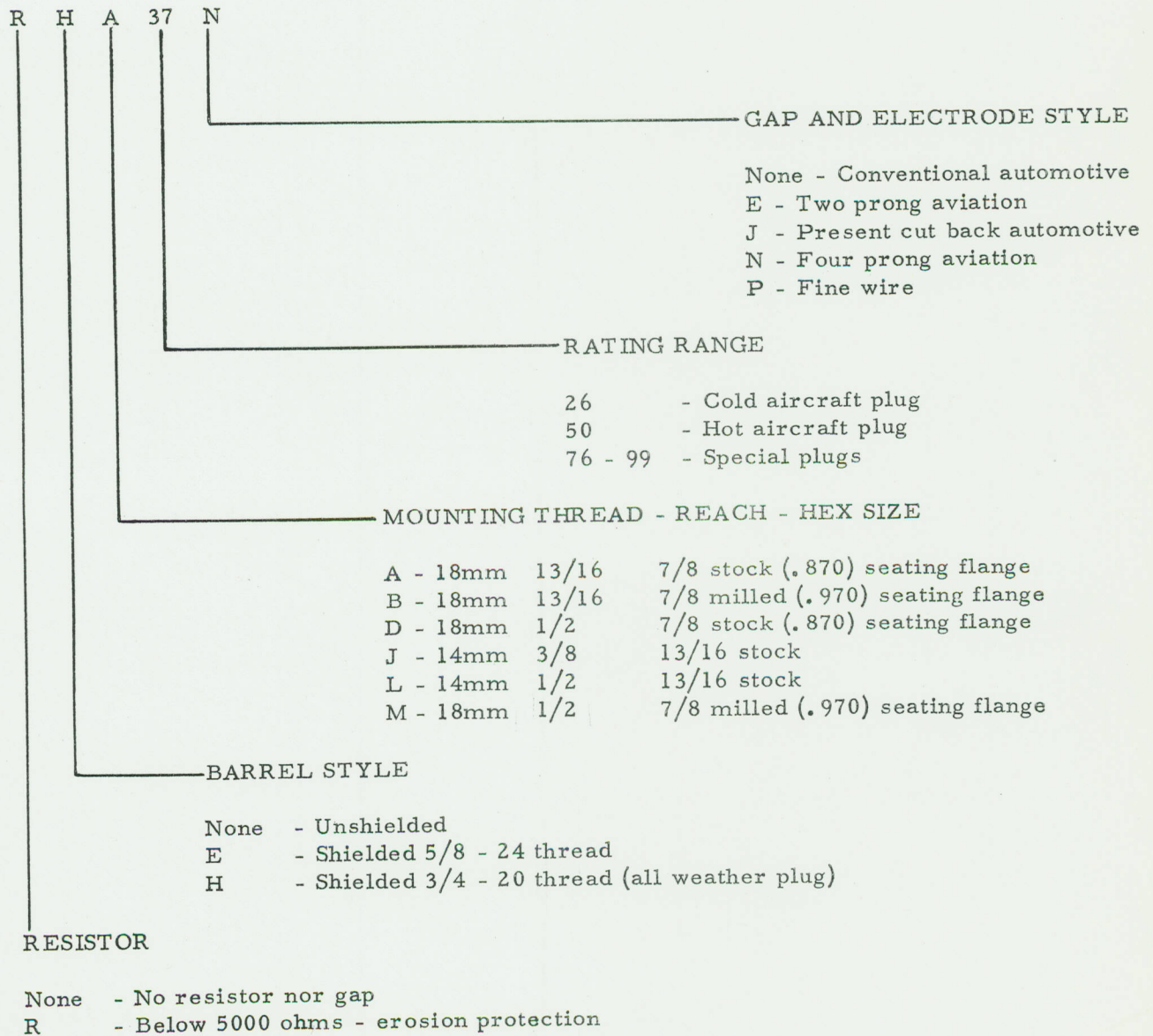
4 For detailed information regarding the introduction of new model numbering system for Champion spark plugs, see EO 15-5CA-2A.

Aircraft	Engine	Make	Model		Sec./Ref.	Gap	Base	Lead End
			OLD	NEW				
ARGUS	Wright R3350-EA1	Champion Lodge	R103	RHA29N	37S/163 37S/238	.015 to .018 .023 to .025	18 mm 18 mm	3/4 - 20 3/4 - 20
			RS35R	NA				
BELL H13 HELICOPTER	Franklin 6V4-200-C32	AC AC Champion	LA-47	NA	37S/174 37S/214 37S/235	.015 to .018 .015 to .018 .018 to .023	14 mm 14 mm 14 mm	5/8 - 24 5/8 - 24 5/8 - 24
			SR47P	NA				
			NA	REL-38B				
BRISTOL FREIGHTER MK31	Hercules 734	Lodge Lodge KLG	LB3/2	NA	37S/157 37S/162 37S/181	.008 to .010 .008 to .010 .008 to .010	14 mm 14 mm 14 mm	11/16 - 24 11/16 - 24 11/16 - 24
			LB3/3	NA				
			KB3	NA				
CANSO 2F-2SR	Pratt and Whitney R1830-92	Champion Lodge AC AC	R37S/1	REA37N	37S/13 37S/25 37S/215 37S/233	.013 to .016 .012 to .015 .013 to .016 .013 to .016	18 mm 18 mm 18 mm 18 mm	5/8 - 24 5/8 - 24 5/8 - 24 5/8 - 24
			RS19/2R	NA				
			171	NA				
			181	NA				

Aircraft	Engine	Make	Model		Sec/Ref.	Gap	Base	Lead End
			OLD	NEW				
CESSNA L-19A	Continental 0-470-11	Champion Champion Champion	C26S	NA	37S/22 37S/176 37S/232	.012 to .015 .012 to .015 .013 to .016	18 mm 18 mm 18 mm	5/8 - 24 5/8 - 24 5/8 - 24
			RC26S	RED39N				
			NA	C27S				
CHIPMUNK	Gypsy Major (all series)	KLG	RV12/3	NA	37S/6	.012 to .015	12 mm	11/16 - 24
DAKOTA	Pratt and Whitney R1830 (all series)	Champion Lodge Lodge AC AC	R37S/1	REA37N	37S/13 37S/25 37S/25 37S/215 37S/233	.013 to .016 .012 to .015 .012 to .015 .013 to .016 .013 to .016	18 mm 18 mm 18 mm 18 mm 18 mm	5/8 - 24 5/8 - 24 5/8 - 24 5/8 - 24 5/8 - 24
			RS19/2R	NA				
			RS19/2RS	NA				
			171	NA				
			181	NA				
EXPEDITOR	Pratt and Whitney R985-AN14B	Champion	C26S	NA	37S/22	.012 to .015	18 mm	5/8 - 24
HARVARD	Pratt and Whitney R1340-AN1, -S3H1 & -PC1	Champion	C26S	NA	37S/22	.012 to .015	18 mm	5/8 - 24
LANCASTER	Packard - EO Merlin 224-225	Lodge	RS5/7	NA	37S/17	.015 to .030	14 mm	11/16 - 24

Aircraft	Engine	Make	Model		Sec/Ref.	Gap	Base	Lead End
			OLD	NEW				
MITCHELL	Wright R2600 (all series)	Champion Lodge AC AC	R37S/1	REA37N	37S/13 37S/25 37S/215 37S/233	.013 to .016 .012 to .015 .013 to .016 .013 to .016	18 mm 18 mm 18 mm 18 mm	5/8 - 24 5/8 - 24 5/8 - 24 5/8 - 24
			RS19/2R	NA				
			171	NA				
			181	NA				
NEPTUNE	Wright R3350-32W	Lodge Champion	RS35R	NA	37S/238 37S/163	.023 to .025 .015 to .018	18 mm 18 mm	3/4 - 20 3/4 - 20
			R103	RHA29N				
NORTH STAR	Rolls Royce 622	Lodge	LR3R	NA	37S/16	.018 to .021	14 mm	11/16 - 24
NORTH STAR C5	Pratt and Whitney R2800 - CA15	Champion AC	R37S/1	REA37N	37S/13 37S/215	.013 to .016 .013 to .016	18 mm 18 mm	5/8 - 24 5/8 - 24
			171	NA				
PACKET C119	Wright R3350-85, -85A -89, and -89A	Champion Lodge	R103	RHA29N	37S/163 37S/238	.015 to .018 .023 to .025	18 mm 18 mm	3/4 - 20 3/4 - 20
			RS35R	NA				
OTTER	Pratt and Whitney R1340-S1H1G	Champion	C26S	NA	37S/22	.012 to .015	18 mm	5/8 - 24
SIKORSKY H5	Pratt and Whitney R985-AN5	Champion	C26S	NA	37S/22	.012 to .015	18 mm	5/8 - 24

A typical former designation with explanation is given below:-



A typical current designation with explanation is given below:-

