



AIRCRAFT PRODUCTS CATALOG

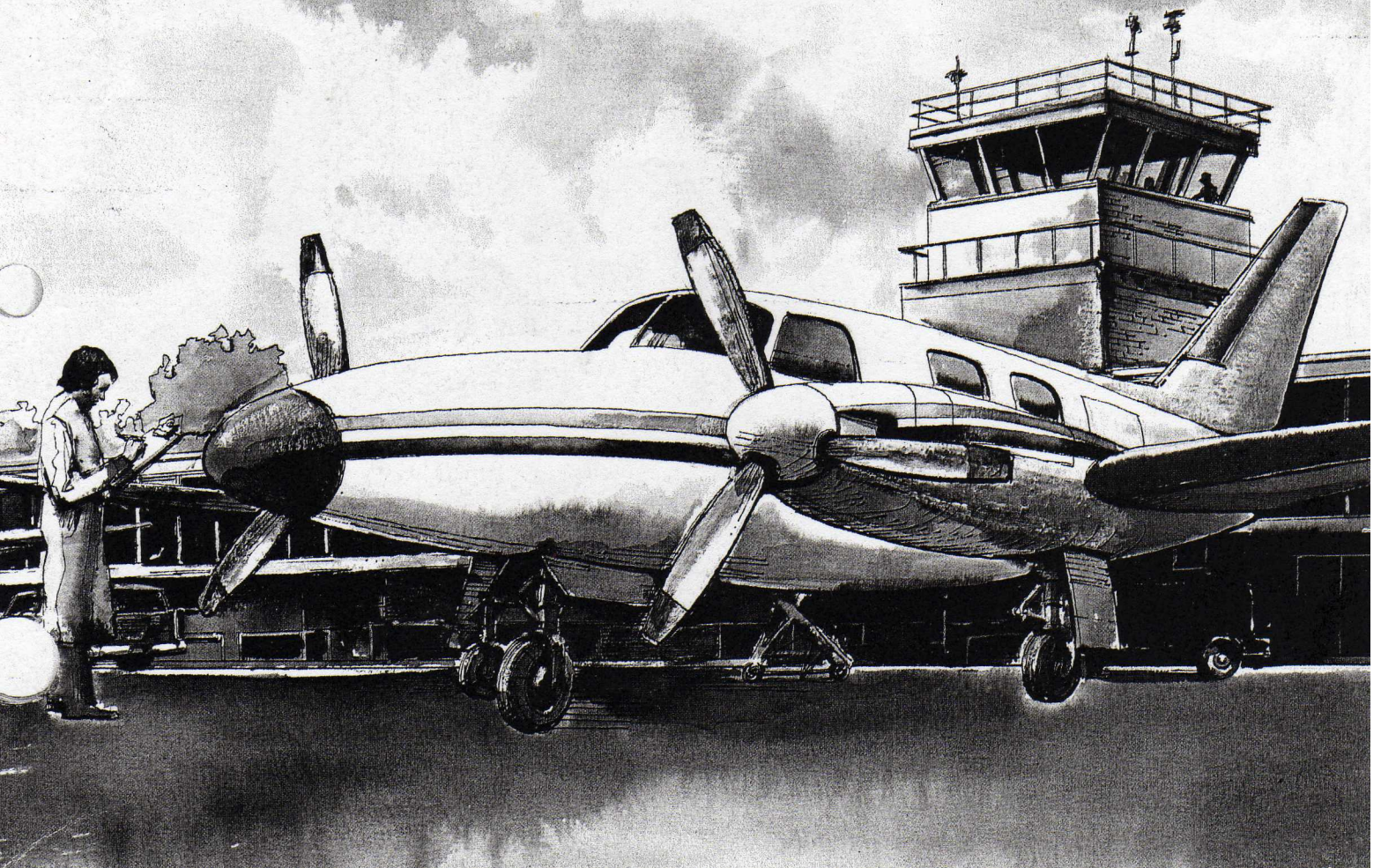




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AIRCRAFT PRODUCTS

SPARK PLUG NOMENCLATURE

All AC aircraft spark plugs are identified by a 2 or 3 digit number which is found on the side of the shielding barrel.

Two digit spark plugs are prefixed by one or more letters. (For example: SA-43, S-88, SR-86, HSR-83P). Three digit plugs have no letter prefix or suffix. (For example: 171, 273, 281, 293).

All spark plugs with precious metal electrodes are identified with either an 8 or a 9. An 8 indicates a platinum electrode, a 9 indicates a hybrid design. (For example: SR-83P, 281, SR-93, 291).

What the identification means

TWO DIGIT PLUGS — example: HSR-87; SR-93; SR-47P

H
E
A
T

R
A
N
G
E



- H—high altitude
- S—shielded barrel
- R—with a resistor
- 8—18 mm; 9—18 mm (hybrid); 4—14 mm
- 7—heat range (3,6,7,8 denote heat range)
- P—platinum electrodes

When the first digit is 4, the plug is 14 mm; when it is 8, the plug is 18 mm; when it is 9, the plug is 18 mm and a hybrid design. The second digit is used to denote heat range; the smaller the number the colder the spark plug with short reach designs... exp. 6, 7, or 8.

THREE DIGIT PLUGS — example: 171, 273, 281, 293

H
E
A
T

R
A
N
G
E



All three digit plugs are 18 mm, have 1³/₁₆" reach, and have resistors.

- When the first digit is
- 1—indicates 5/8" diameter shielding barrel
 - 2—indicates 3/4" diameter shielding barrel

- When the second digit is
- 7—indicates massive electrodes
 - 8—indicates platinum electrodes
 - 9—indicates hybrid electrodes (platinum center electrode and iridium ground electrodes)

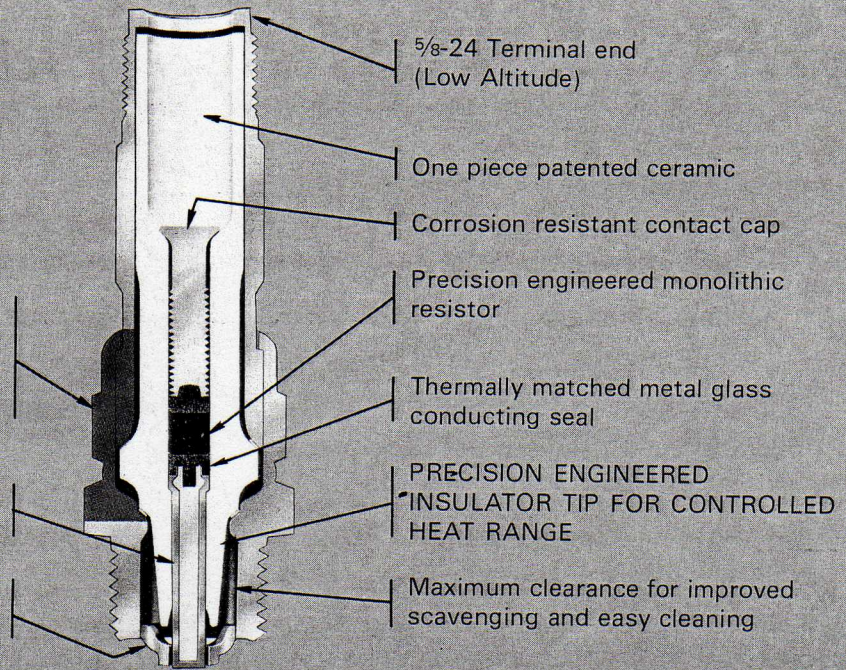
The third digit denotes heat range; the smaller the number the hotter the spark plug with long reach designs... exp. 1, 3, 5, 6.

INSIDE A SPARK PLUG

Crimp locked construction with designed safety nickel sealing gasket. Cico weld, heat shrink construction assures positive leakproof assembly

Large diameter, copper cored, nickel alloy center electrode

Extra heavy, 3 pronged nickel alloy, ground electrode



MASSIVE ELECTRODE TYPE



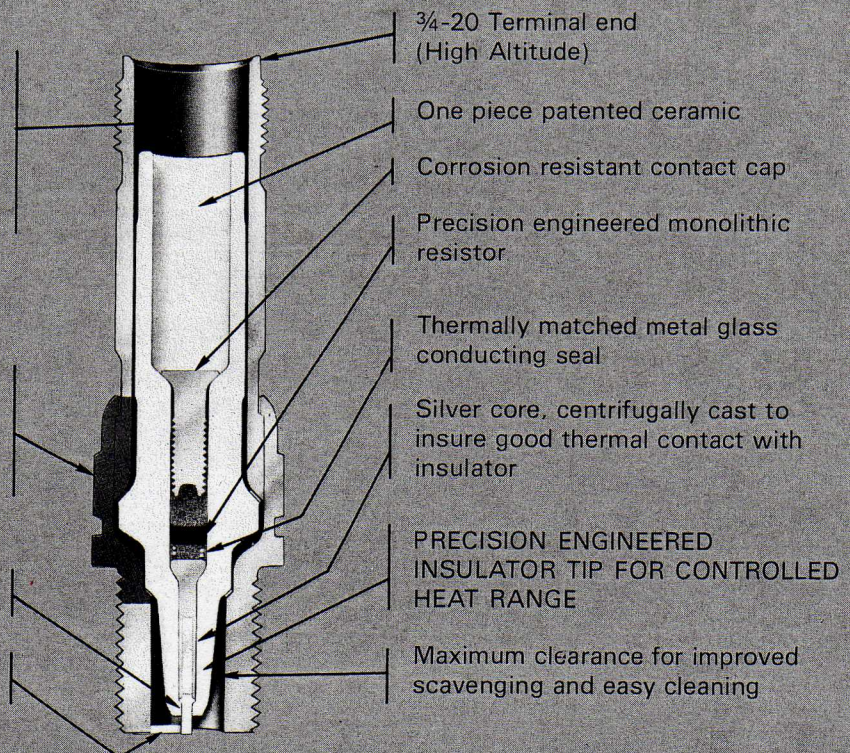
ALL WEATHER CONNECTOR

Grommet seats on insulator forming electrical, moisture, and altitude seal. Flashover tendency eliminated under all conditions of operation

Crimp locked construction with designed safety nickel sealing gasket, Cico weld, heat shrink construction assures positive leakproof assembly

Large diameter platinum center electrode

Two large platinum or Iridium ground electrodes



FINE WIRE ELECTRODE TYPE



AC AIRCRAFT SPARK PLUGS

14 mm

PLUG TYPE	PLUG REACH	SHIELDING THREAD
SA-43*† A-44 SR-47P†	3/8" 3/8" 1/2"	5/8 - 24 Unshielded 5/8 - 24

18 mm Massive Electrode (short reach)

H
E
A
T

R
A
N
G
E

7
6

PLUG TYPE	PLUG REACH	SHIELDING THREAD
S-88*† HS-88*† SR-88 † HSR-88 † A-88 SR-87 † HSR-87 SR-86 HSR-86	1/2" 1/2" 1/2" 1/2" 1/2" 1/2" 1/2" 1/2" 1/2"	5/8 - 24 3/4 - 20 5/8 - 24 3/4 - 20 Unshielded 5/8 - 24 3/4 - 20 5/8 - 24 3/4 - 20

18 mm Massive Electrode (long reach)

H
E
A
T

R
A
N
G
E

2
3
5

PLUG TYPE	PLUG REACH	SHIELDING THREAD
171 271 172† 272† 273 175 275	13/16" 13/16" 13/16" 13/16" 13/16" 13/16" 13/16"	5/8 - 24 3/4 - 20 5/8 - 24 3/4 - 20 3/4 - 20 5/8 - 24 3/4 - 20

18 mm Fine Wire (short reach)

H
E
A
T

R
A
N
G
E

3

PLUG TYPE	PLUG REACH	SHIELDING THREAD
SR-83P HSR-83P SR-93 HSR-93	1/2" 1/2" 1/2" 1/2"	5/8 - 24 3/4 - 20 5/8 - 24 3/4 - 20

18 mm Fine Wire (long reach)

H
E
A
T

R
A
N
G
E

1
3
6

PLUG TYPE	PLUG REACH	SHIELDING THREAD
181 281 291 283 293 286	13/16" 13/16" 13/16" 13/16" 13/16" 13/16"	5/8 - 24 3/4 - 20 3/4 - 20 3/4 - 20 3/4 - 20 3/4 - 20

Standard Gap .016
* No resistor
† Available with .019 gap



AVIATION SPARK PLUG CROSS REFERENCE CHART

AC	CHAMPION	B. G.	AUTOLITE (FORD)	RED SEAL
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14 mm

SA-43	REJ38	707S, 707SR, RB613S	A4S, AH4S	—
A-44	J43	707, 707R, RB613	A4	—
SR-47P	REL37W	RB590S	PE-30	—

18 mm Massive Electrode (short reach)

A-88	M41E, M41N, M42E	706, 706R	H-15	SA190
S-88	EM42E, EM41N	706S	SH15	—
HS-88	HM41E	—	—	—
SR-88	REM40E	706SR	SH15R	SE190
HSR-88	RHM40E	—	SH150	SJ190
SR-87	REM38E, REM39N	919SR-5	SH20A	SE230
HSR-87	RHM38E, RHM39N	—	SH200A	SJ230
SR-86	REM38E	—	SH26	SE270
HSR-86	RHM38E	—	SH260	SJ270

18 mm Massive Electrode (long reach)

171	REB37E, REB37N	—	SL30A	LE310
271	RHB37N, RHB37E, RHB38E	340	SL300A	LJ310
172	REB87N	—	—	—
272	RHB87N	—	—	—
273	RHB32N, RHB32E, RHB33E	—	SL350A	LJ360
175	REB29N	—	—	—
275	RHB29N, RHB29E	345	SL400	—

18 mm Fine Wire (short reach)

SR-83P	REM38P	RB485S	PH26	SE270P
HSR-83P	RHM38P	RB955S	PH260	SJ270P
SR-93	REM38W	—	—	—
HSR-93	RHM38W	—	—	—

18 mm Fine Wire (long reach)

181	REB36W, REB36P	RB27R, RB19R2	—	—
281	RHB36P	RB39R, RB965	—	—
291	RHB36W	—	—	—
283	RHB32P	—	PL350	—
293	RHB32W	—	—	—
286	—	—	—	—

This is not an AC recommendation chart. Refer to aircraft spark plug application charts by F. A. A., engine manufacturer, or spark plug manufacturer for approved applications.