

CHAMPION HEAT RANGE COMPARISON CHART

AUTOMOTIVE ENGINE TYPES

THREAD SIZE	HEAT RANGE	CHAMPION		AC	AUTOLITE	BOSCH	KLG	LODGE
		STANDARD	RESISTOR					
7/8"-18	HOT ↑	W20 .....	.....	78, C77, 76.....	.....	Z45T4, Z95T1.....	.....	S2B7
	↓ COLD	W18 .....	.....	C78L, 78L Com.....	TT10.....	Z30T2	AL20	3B-L7, 2B-L7.....
18 mm.	HOT ↑	C16C .....	.....	78S.....	TT8.....	Z45T1	A5.....	2B-7
	↓ COLD	W14 .....	.....	75 Com., 74.....	TT4.....	Z120T1	A20.....	BV-7
18 mm. Tapered Seat	HOT ↑	W-10 .....	.....	C73.....	.....	Z145T1	A30.....	CV-7, CVT.....
	↓ COLD	D-23 .....	.....	C88L, 88L Com.....	BT10, BR10.....	M45T1, M45T2.....	TM50	CB3, C3-L18.....
18 mm. Tapered Seat Proj. Core	HOT ↑	D-21	XD-21	88, C87	BT9.....	M95T1, DM95T2.....	SM50, M30.....	S2B-18E, SC, 3BL.....
	↓ COLD	D-16, UD-16†.....	XD-16	{ C85, 85S Com.....	BT8, BR8, BZ8... ..	M145T5	M50, SM30, SM50... ..	C3-18, CI-18, 3BL.....
14 mm. 3/8" Reach	HOT ↑	D-14	XD-14	86 Com., 86, C86	BT6.....	M225T1, M240T1	M60	CV-18.....
	↓ COLD	D-10	XD-10	C83, 83 Com., 83S Com.	BT4, BR4.....	M175T1, M175T5	M100	H3-18, HI-18.....
14 mm. 3/8" Reach Proj. Core	HOT ↑	D-9	XD-9	C82.....	BZ3	DM270T16.....	M250/4	HIP, HNI8P, HV-18... ..
	↓ COLD	D-6	XD-6	82.....	BT3	DM310T1.....	M280/4	18-47.....
14 mm. 7/16" Reach	HOT ↑	K-61R .....	.....	C81.....	B903 .....	.....	M290/4	18-49.....
	↓ COLD	K-58R .....	.....	M83.....	B603 .....	.....	.....	18-51.....
14 mm. 7/16" Reach Proj. Core	HOT ↑	K-55R .....	.....	M82.....	BF7, BRF8	MA95T1	MT50	CTNI8, CTNI8P.....
	↓ COLD	K-53T .....	.....	M81.....	MA145T1	MA145T1	TMT50.....	HTNI8, HTNI8P.....
14 mm. 3/4" Reach	HOT ↑	870	X-870	85T	BTF3, BTF6, BTF31 .....	.....	.....	CTNY.....
	↓ COLD	860	X-860	84T, C84T	BTF1 .....	.....	.....	.....
14 mm. 3/4" Reach Proj. Core	HOT ↑	F-10	XF-10	C83T	BF703	MA45T7 .....	.....	.....
	↓ COLD	F-82	XF-82 .....	.....	BF603	MA75T7 .....	.....	.....
14 mm. 1/2" Reach	HOT ↑	F-63R	XF-63R .....	.....	BF403 .....	.....	.....	.....
	↓ COLD	F-58R	XF-58R .....	.....	BF203 .....	.....	.....	.....
14 mm. 1/2" Reach Proj. Core	HOT ↑	F-55R	XF-55R .....	.....	.....	.....	.....	.....
	↓ COLD	F-53T	XF-53T .....	.....	.....	.....	.....	.....
14 mm. 3/8" Reach	HOT ↑	UJ-12†.....	XJ-12	48, 48X, C47, C49.....	Al1, AR10, AZ9... ..	W95T6.....	TFS20, FT20.....	CANI4, CCANI4, BAN
	↓ COLD	J-11	XJ-11	46, C46.....	A9, AT8, AR80... ..	W123T3.....	TFS30	CAN
14 mm. 3/8" Reach Proj. Core	HOT ↑	J-8, UJ-8†.....	XJ-8	45, C45.....	A7, AT6.....	W145T3.....	TFS50	HANI4
	↓ COLD	J-7	XJ-7	44, C44.....	A5, AT4, AR51... ..	W175T3.....	FS70.....	2HANI4, HAN.....
14 mm. 7/16" Reach	HOT ↑	J-6, UJ-6†.....	XJ-6	43, C43.....	A3, AT3, AR31... ..	W225T3.....	.....	HHN, 3HANI4.....
	↓ COLD	J-63R .....	.....	C42-4, M42.....	A703.....	W240T1.....	.....	.....
14 mm. 7/16" Reach Proj. Core	HOT ↑	J-4 .....	.....	C42-1.....	A603.....	.....	.....	.....
	↓ COLD	J-58R .....	.....	M41.....	A403.....	.....	.....	.....
14 mm. 1/2" Reach	HOT ↑	J-55T .....	.....	C42.....	A203.....	.....	.....	.....
	↓ COLD	J-53T .....	.....	.....	.....	.....	.....	.....
14 mm. 3/4" Reach	HOT ↑	J-18Y	XJ-20Y .....	.....	A82.....	W95T6, W125T6... ..	.....	CANY
	↓ COLD	J-12Y	XJ-18Y	46S	A52, AR52.....	W145T7.....	.....	.....
14 mm. 3/4" Reach Proj. Core	HOT ↑	J-10Y	XJ-12Y	44S, 45S.....	A42, AR42.....	.....	.....	.....
	↓ COLD	J-9Y	XJ-10Y	C44S.....	AT42.....	.....	.....	.....
14 mm. 1/2" Reach	HOT ↑	H-12	XH-12	42S	A32, AR32.....	.....	.....	.....
	↓ COLD	H-11	XH-11 .....	.....	.....	.....	.....	.....
14 mm. 1/2" Reach Proj. Core	HOT ↑	H-10	XH-10	47L.....	Al11 .....	.....	.....	BS14
	↓ COLD	H-8	XH-8	45L.....	Al9 .....	.....	CL9	CSNP, CSN, CS14... ..
14 mm. 3/8" Reach	HOT ↑	H-4	XH-4	45L Com., C45L	Al7, ARL8	W125T4.....	FA50.....	HSNP
	↓ COLD	H-18Y	XH-18Y	43L, C43L, 43L Com.....	Al5, ARL5.....	W225T3.....	FA70, CL3.....	.....
14 mm. 3/8" Reach Proj. Core	HOT ↑	H-14Y	XH-14Y .....	.....	.....	.....	.....	.....
	↓ COLD	H-18Y	XH-18Y	45LS.....	Al-82 .....	.....	.....	.....
14 mm. 1/2" Reach	HOT ↑	L-14 .....	.....	.....	Al-52	W145T7.....	.....	.....
	↓ COLD	UL-15Y††.....	.....	46FF, 45FFS, 44FF.....	.....	.....	.....	.....
14 mm. 1/2" Reach Proj. Core	HOT ↑	L-10	XL-10	45F	AE42	W95T1.....	F20.....	B14, BB14, BN.....
	↓ COLD	L-7, L-85*.....	XL-7	42FF, 43LG, 44F, F8.....	AE6, AER6	W145T1.....	F70	CNY.....
14 mm. 3/4" Reach	HOT ↑	L-63R .....	.....	42, 41F, 42F.....	AE4, AER4.....	W175T1.....	F80	C14, CN, CC14.....
	↓ COLD	L-5 .....	.....	.....	AE703	W240T16.....	F100, F220.....	H14, H14S, HN.....
14 mm. 3/4" Reach Proj. Core	HOT ↑	L-58R .....	.....	.....	AE3	W225T1, W240T1... ..	F250, F260.....	HNP, HH14, 2HN
	↓ COLD	L-55T .....	.....	.....	AE603	W310T16.....	F280.....	3HN
14 mm. 3/4" Reach Proj. Core	HOT ↑	L-53T .....	.....	.....	AE403	W370T16.....	F310.....	R47
	↓ COLD	N-21 .....	.....	.....	AE203	W400T16.....	.....	R49
14 mm. 3/4" Reach	HOT ↑	N-18 .....	.....	.....	.....	.....	.....	R51
	↓ COLD	N-8	XN-8	FL9, 47XL.....	AG7 .....	.....	.....	.....
14 mm. 3/4" Reach Proj. Core	HOT ↑	N-6	XN-6	45XL, 46N, 46XL.....	AG5, AGZ7.....	W125T2	FE20.....	BL14, BLN.....
	↓ COLD	N-5	XN-5	C42N, 44N, 45N	AGR41, AGR51... ..	W175T2, W145T2... ..	F30	CL14, CLNI4P, CLNH
14 mm. 3/4" Reach Proj. Core	HOT ↑	N-4 .....	.....	R44XL, 43N, 44XL.....	AG4, AGR31.....	W225T2.....	FE50.....	HLN, HLNP, HBLN... ..
	↓ COLD	N-63R .....	.....	.....	.....	.....	.....	HLN
14 mm. 1/2" Reach	HOT ↑	N-3 .....	.....	.....	.....	.....	.....	2HLN
	↓ COLD	N-58R .....	.....	FL7, 43XL.....	AG3, AGR2	W240T17.....	FE100.....	3HLN
14 mm. 1/2" Reach Proj. Core	HOT ↑	N-55T .....	.....	.....	AG603	W260T20, W280T2... ..	FE220, FE250, FE260	RL47
	↓ COLD	N-53T .....	.....	.....	AG403	W310T17.....	FE280/4	RL49.....
14 mm. 3/4" Reach	HOT ↑	N-16Y	XN-16Y .....	.....	AG203	W340T17.....	FE920/4	RL51.....
	↓ COLD	N-14Y	XN-14Y	46N, 45N.....	AG82, AGR82... ..	W400T17.....	FE320/4 .....	.....
14 mm. 3/4" Reach Proj. Core	HOT ↑	UN-12Y, †N-12Y.....	XN-12Y	R44XLS, 43N, 44N,	{ AG42, AGR42... ..	.....	.....	.....
	↓ COLD	N-9Y	XN-9Y	45XLS	AG52	W95T2, W145T2... ..	.....	.....
10 mm. 1/4" Reach	HOT ↑	UY-6 .....	.....	C42N.....	AG32, AGR32... ..	.....	.....	.....
	↓ COLD	.....	.....	M-8, 104.....	.....	.....	TEN20S, TEN50.....	B10, C10.....

†Projected Core Nose (Use ONLY in OHV Passenger car engines)

*Special Reach (UK-10.....·445") (L-85.....·472")

‡Auxiliary Gap Plugs

NOTE:— These are approximate comparisons and should be used only as a guide. Refer to respective vehicle recommendation for approved spark plug type and gap setting.