

**ALTRONIC II-CPU,
CPU-2000, CPU-90/95**

**FIRING PATTERN CODES
FORM FP-CPU 7-98**

----- FIRING PATTERN IN DISTRIBUTOR DEGREES -----			
CODE	II-CPU	CPU-2000	CPU-90/95
C2A +	120° even	120° even	120° even
C4A +	120° even	120° even	120° even
D2A +	90° even	90° even	90° even
D2B +	60°-120°	60°-120°	60°-120°
D2F +	63°-117°	63°-117°	63°-117°
D4A +	90° even	90° even	90° even
D4G +	90°-120°-90°-60°	90°-120°-90°-60°	90°-120°-90°-60°
D4S +	90°-45°-90°-135°	90°-45°-90°-135°	90°-45°-90°-135°
E2A +	72° even	72° even	72° even
E4A +	72° even	72° even	72° even
F2A +	60° even	60° even	60° even
F2B +	90°-30°	90°-30°	90°-30°
F2D +	36°-84°	36°-84°	36°-84°
F2F +	63°-57°	63°-57°	63°-57°
F2R#	0°-120°	0°-120°	--
F3A	60° even	--	--
F4A +	60° even	60° even	60° even
F4B +	90°-30°	90°-30°	90°-30°
F4C +	82.5°-37.5°	82.5°-37.5°	82.5°-37.5°
F4E +	30°-90°-60°-30°-60°-90°	30°-90°-60°-30°-60°-90°	30°-90°-60°-30°-60°-90°
F4G	--	--	75°-45°
F4H	--	--	45°-75°
F4P +	92.5°-27.5°	92.5°-27.5°	92.5°-27.5°
F5A	60° even	--	--
G2A +	51.43° even	51.43° even	51.43° even
G4A +	51.43° even	51.43° even	51.43° even
H2A +	45°	45°	45°
H2B +	30°-60°	30°-60°	30°-60°
H2C +	67.5°-22.5°	67.5°-22.5°	67.5°-22.5°
H2D +	36°-54°	36°-54°	36°-54°
H2f*	--	--	63°-27°
H2F +	63°-27°	63°-27°	27°-63°
H2H +	22.5°-67.5°	22.5°-67.5°	22.5°-67.5°
H2N#	0°-60°-0°-120°	0°-60°-0°-120°	--
H2R#	0°-90°	0°-90°	--
H2T +	60°-30°	60°-30°	60°-30°
H2V +	50°-40°	50°-40°	--
H3A	45° even	--	--

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H4A +	45° even	45° even	45° even
H4B +	30°-60°	30°-60°	30°-60°
H4E +	45°-45°-45°-67.5°-45°-45°-45°-22.5°	45°-45°-45°-67.5°-45°-45°-45°-22.5°	45°-45°-45°-67.5°-45°-45°-45°-22.5°
H4G +	45°-45°-45°-30°-45°-45°-45°-60°	45°-45°-45°-30°-45°-45°-45°-60°	45°-45°-45°-30°-45°-45°-45°-60°
H4H +	22.5°-67.5°	22.5°-67.5°	22.5°-67.5°
H4K +	45°-67.5°-22.5°-67.5°-45°-22.5°-67.5°-22.5°	45°-67.5°-22.5°-67.5°-45°-22.5°-67.5°-22.5°	45°-67.5°-22.5°-67.5°-45°-22.5°-67.5°-22.5°
H4O +	--	23°-67°	23°-67°
H4P +	45°-45°-45°-32.5°-45°-45°-45°-57.5°	45°-45°-45°-32.5°-45°-45°-45°-57.5°	45°-45°-45°-32.5°-45°-45°-45°-57.5°
H4T +	60°-30°	60°-30°	60°-30°
H4Y +	Use H5Y	23.5°-66.5°	23.5°-66.5°
H5A	45° even	--	--
H5O	23°-67°	--	--
H5Y	23.5°-66.5°	--	--
I2A +	40° even	40° even	40° even
I4A +	40° even	40° even	40° even
J2A +	36° even	36° even	36° even
J2b*	--	--	60°-12°
J2B +	60°-12°	60°-12°	12°-60°
J2C +	30°-30°-30°-60°-30°	30°-30°-30°-60°-30°	--
J2f*	--	--	63°-9°
J2F +	63°-9°	63°-9°	9°-63°
J2G +	--	9°-63°	--
J2K +	--	62°-10°	--
J2Q +	41°-31°	41°-31°	--
J2t*	--	--	50°-22°
J2T +	50°-22°	50°-22°	22°-50°
J2W +	30°-6°-30°-84°-30°-6°-30°-54°-36°-54°	30°-6°-30°-84°-30°-6°-30°-54°-36°-54°	--
J3A	36° even	--	--
J4A +	36° even	36° even	36° even
J4d*	--	--	66°-6°
J4D	66°-6°	66°-6°	6°-66°
J4e*	--	--	58.5°-13.5°
J4E +	58.5°-13.5°	58.5°-13.5°	13.5°-58.5°
J4G +	22.5°-60°-37.5°-22.5°-37.5°- 22.5°-37.5°-60°-22.5°-37.5°	22.5°-60°-37.5°-22.5°-37.5°- 22.5°-37.5°-60°-22.5°-37.5°	22.5°-60°-37.5°-22.5°-37.5°- 22.5°-37.5°-60°-22.5°-37.5°
J4L +	30°-42°	30°-42°	--
J4M +	22.5°-37.5°-22.5°-37.5°-60°- 22.5°-37.5°-22.5°-37.5°-60°	22.5°-37.5°-22.5°-37.5°-60°- 22.5°-37.5°-22.5°-37.5°-60°	22.5°-37.5°-22.5°-37.5°-60°- 22.5°-37.5°-22.5°-37.5°-60°
J4p*	--	--	68.5°-3.5°
J4P	68.5°-3.5°	68.5°-3.5°	3.5°-68.5°

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L2A +	30° even	30° even	30° even
L2d*	--	--	36°-24°
L2D +	36°-24°	36°-24°	24°-36°
L2E +	54°-18°-18°-18°-36°-36°	54°-18°-18°-18°-36°-36°	--
L2Q	8°-55°-2°-55°	8°-55°-2°-55°	--
L2R#	0°-60°	0°-60°	--
L2t*	--	--	50°-10°
L2T +	50°-10°	50°-10°	--
L2U +	9°-27°-40.5°-36°-40.5°-27°	9°-27°-40.5°-36°-40.5°-27°	--
L2V +	36°-18°-36°-27°-36°-27°	36°-18°-36°-27°-36°-27°	--
L2W +	36°-54°-36°-39°-15°-21°- 15°-54°-15°-21°-15°-39°	36°-54°-36°-39°-15°-21°- 15°-54°-15°-21°-15°-39°	--
L2X#	0°-63°-0°-57°	0°-63°-0°-57°	--
L2Z +	40°-20°	40°-20°	--
L3A	30° even	--	--
L3T	50°-10°	--	--
L4A +	30° even	30° even	30° even
L4B	--	--	45°-15°
L4C +	37.5°-22.5°	37.5°-22.5°	37.5°-22.5°
L4D	--	--	24°-36°
L4E	--	--	15°-45°
L4H +	22.5°-37.5°	22.5°-37.5°	22.5°-37.5°
L4I +	--	24°-36°	--
L4J	--	--	35°-25°
L4K	--	--	27°-33°
L4L +	18°-42°	18°-42°	--
L4N +	20°-40°	20°-40°	20°-40°
L4O +	--	23°-37°	23°-37°
L4p*	--	--	32.5°-27.5°
L4P +	32.5°-27.5°	32.5°-27.5°	27.5°-32.5°
L4S	2°-58°	2°-58°	2°-58°
L4V +	--	25°-35°	25°-35°
L4W	--	3°-57°	--
L4Y +	--	23.5°-36.5°	23.5°-36.5°
L4Z	--	--	40°-20°
L5A	30° even	--	--
L5C	37.5°-22.5°	--	--
L5I	24°-36°	--	--
L5O	23°-37°	--	--
L5V	25°-35°	--	--
L5W	3°-57°	--	--
L5Y	23.5°-36.5°	--	--

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CODE	II-CPU	CPU-2000	CPU-90/95
N2D +	36°-15.43°	36°-15.43°	--
N2U +	30°-6°-30°-15°-36°-33°-30°- 6°-30°-45°-9°-27°-9°-54°	30°-6°-30°-15°-36°-33°-30°- 6°-30°-45°-9°-27°-9°-54°	--
N2W +	36°-9°-36°-9°-36°-39°-15°- 21°-15°-54°-15°-21°-15°-39°	36°-9°-36°-9°-36°-39°-15°- 21°-15°-54°-15°-21°-15°-39°	--
N4B +	--	21.43°-30°	21.43°-30°
N4N	--	--	21.3°-30°-20.2°-30°-20.3°-30°-21.2°- 30°-22.3°-30°-22.5°-30°-22.2°-30°
N4V +	--	25°-26.43°	25°-26.43°
N5B	21.43°-30°	--	--
N5V	25°-26.43°	--	--
P2A +	22.5° even	22.5° even	22.5° even
P2B	--	15°-30°	--
P2D +	36°-9°	36°-9°	--
P2E +	18°-18°-36°-18°	18°-18°-36°-18°	--
P2H +	22.5°-27.5°-22.5°-17.5°	22.5°-27.5°-22.5°-17.5°	--
P2N#	0°-40°-0°-50°	0°-40°-0°-50°	--
P2Z +	20°-20°-30°-20°	20°-20°-30°-20°	--
P4A +	22.5° even	22.5° even	22.5° even
P4G +	--	24°-21°	24°-21°
P4K	--	--	27°-18°
P4L +	18°-27°	18°-27°	--
P4O +	--	23°-22°	23°-22°
P4P +	15°-30°	15°-30°	15°-30°
P4S	2°-43°	2°-43°	--
P4T +	--	30°-15°	30°-15°
P4V +	--	25°-20°	25°-20°
P4W	--	3°-20.5°-3°-63.5°	10°-35°
P4Y +	--	23.5°-21.5°	23.5°-21.5°
P5A	22.5° even	--	--
P5G	24°-21°	--	--
P5O	23°-22°	--	--
P5P	15°-30°	--	--
P5T	30°-15°	--	--
P5V	25°-20°	--	--
P5W	3°-20.5°-3°-63.5°	--	--
P5Y	23.5°-21.5°	--	--

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CPU-2000, CPU-90/95**

**FIRING PATTERN CODES
FORM FP-CPU 7-98**

CODE	----- FIRING PATTERN IN DISTRIBUTOR DEGREES -----		
	II-CPU	CPU-2000	CPU-90/95
R2D	36°-4°	36°-4°	--
R4B	--	--	10°-30°
R4C	--	--	17.5°-22.5°
R4N	--	9.5°-30°-9.5°-30°-11°-30°	9.5°-30°-9.5°-30°-11°-30°
R4T	--	--	5°-35°
R4V	--	25°-15°	25°-15°
R5N	9.5°-30°-9.5°-30°-11°-30°	--	--
R5V	25°-15°	--	--
T2A	18° even	18° even	--
T2B	24°-12°	24°-12°	--
T2H	14°-22°	14°-22°	--
T2Q	32°-9°-22°-9°	32°-9°-22°-9°	--
T2R#	0°-36°	0°-36°	--
T2Z	4°-32°	4°-32°	--
T4A	18° even	18° even	--
X4L	2°-16°-2°-40°	--	--
X5W	3°-20.5°-3°-33.5°	--	--
Z4L	2°-16°-2°-25°	--	--
Z5W	3°-20.5°-3°-18.5°	--	--

- + For CPU-2000 only, firing pattern can be furnished with two outputs for each cylinder. In this case, change number "2" to "6", or "4" to "8". Examples: F2A → F6A; L4H → L8H.
- * Application for CPU-95 only.
- # Two cylinders fire simultaneously.