

# Application List

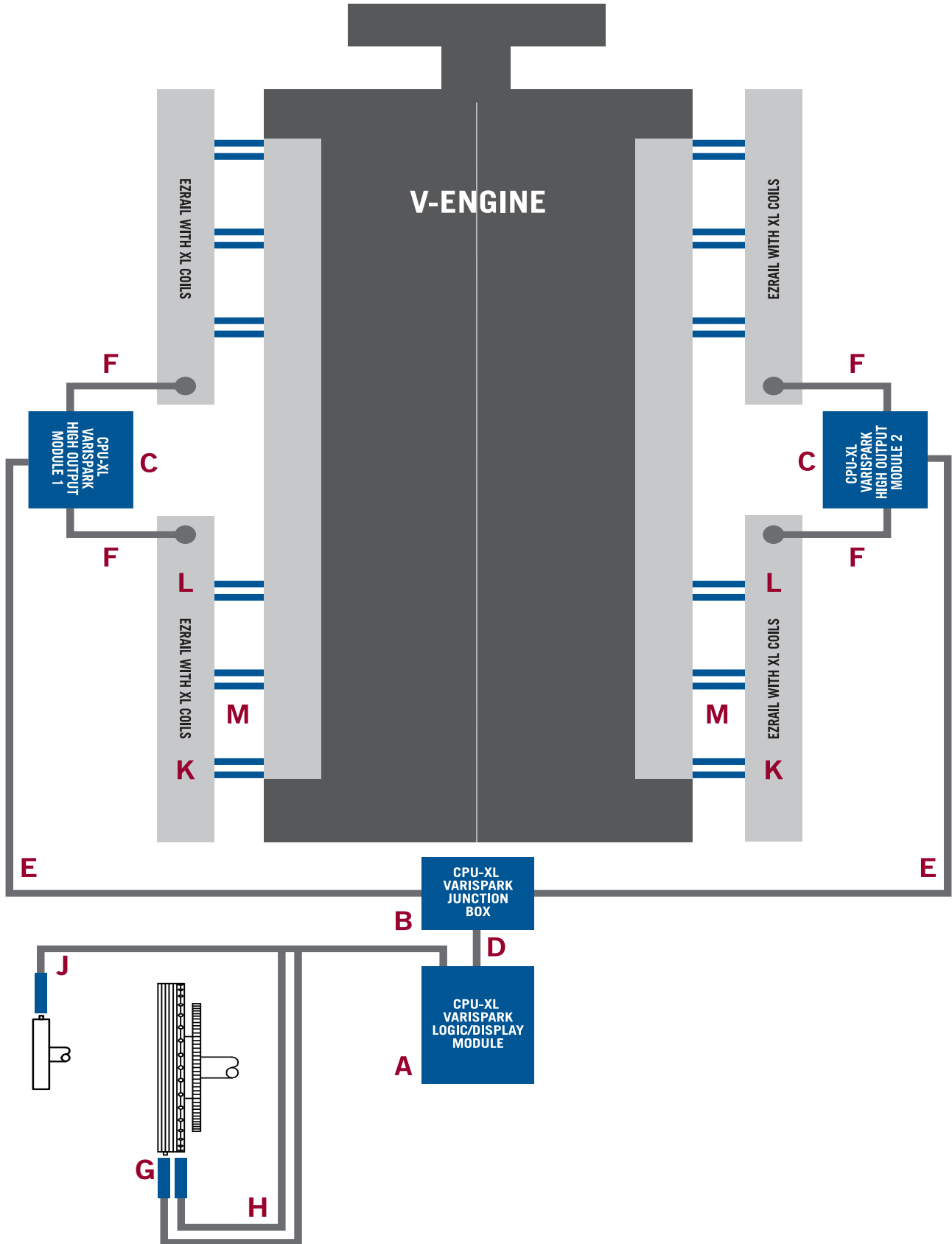
*Altronic CPU-XL VariSpark Ignition System*

*Form CPU-XL VariSpark AL 07-21*

***altronic***



**CPU-XL VARISPARK IGNITION SYSTEM FOR SLOW-SPEED INTEGRAL ENGINES**



## CPU-XL VARISPARK APPLICATION LIST

<b>A LOGIC/DISPLAY MODULE - 1 per system</b>	
291400-1	CPU-XL VariSpark Logic/Display Module
<b>B JUNCTION/DIAGNOSTIC MODULE - 1 per system</b>	
291405-2	Junction/Diagnostic Module
NOTE: All new installations must use the 291405-2 Junction/Diagnostic Module and the 791401-2 Coil. The -1 versions of these parts are for replacement applications only.	
<b>C OUTPUT MODULE - 1 for in-line engines, 2 for V engines</b>	
291410-1	CPU-XL VariSpark Output Module
<b>D HARNESS - DISPLAY MODULE TO J-BOX - 1 per system</b>	
293030-25	Harness, shielded, 180 connector, 72" conduit, 25' leads
293030-50	Harness, shielded, 180 connector, 72" conduit, 50' leads
293030-75	Harness, shielded, 180 connector, 72" conduit, 75' leads
<b>E HARNESS - J-BOX to OUTPUT MODULE(S) - 1 per bank (length may vary between banks)</b>	
793101-L	Harness, shielded, 1x90 and 1x180 connector, L" conduit, L = 24,36,48,60,72,96,120,144,180
793102-L	Harness, shielded, 2x90 connector, L" conduit, L = 24,36,48,60,72,96,120,144,180
<b>F HARNESS - OUTPUT MODULE(S) TO EZ RAILS - 1 per EZ Rail</b>	
793101-L	Harness, shielded, 1x90 and 1x180 connector, L" conduit, L = 24,36,48,60
793102-L	Harness, shielded, 2x90 connector, L" conduit, L = 24,36,48,60
NOTE: These harnesses should be not more than 60" length.	
<b>G MAGNETIC PICKUP - 2 per system</b>	
691118-1	Magnetic pickup, 5/8"-18 thread X 1.75" threaded body length
691118-2	Magnetic pickup, 5/8"-18 thread X 2.50" threaded body length
691118-3	Magnetic pickup, 5/8"-18 thread X 3.00" threaded body length
691118-4	Magnetic pickup, 5/8"-18 thread X 4.50" threaded body length
691118-6	Magnetic pickup, 5/8"-18 thread X 6.00" threaded body length
<b>H CABLE ASSEMBLY, MAGNETIC PICKUP - 2 per system</b>	
593048-L	Cable, shielded, 180 connector, L" conduit, L = 12, 18, 24, 36, 48, 72, 96
593054-L	Cable, shielded, 90 connector, L" conduit, L = 12, 18, 24, 36, 48, 72, 96

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693104-L	Cable, unshielded, 180 connector, L = length of cable in feet x 10, L = 1, 2, 3, 4, 5
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### J CYCLE TRIGGER (4-CYCLE ENGINES ONLY) - 1 from each group per system

#### Trigger Magnet:

260604	Trigger Magnet, 3/4" dia. X 8 mm thread (max. rotating circle of 15" dia.)
260605	Trigger Magnet, 3/4" hex X 8 mm thread (max. rotating circle of 15" dia.)
720002	Trigger Magnet, 3/8" hex x 8 mm thread (max. rotating circle is 6" dia.)

#### Hall-effect Pickup:

591014-2	Hall-effect Pickup, 5/8"-18 thread x 2.5" threaded body length
591014-4	Hall-effect Pickup, 5/8"-18 thread x 4.0" threaded body length

#### HE Pickup Cable:

593050	Pickup cable, unshielded, 180 connector, 25 ft. cable
593052-L	Pickup cable, shielded, 180 connector, L" conduit, L = 6, 12, 18, 24, 36, 48, 72, 96
593057-L	Pickup cable, shielded, 90 connector, L" conduit, L = 6, 12, 18, 24, 36, 48, 72, 96

### K EZ RAIL ASSEMBLY - see listing

5941xx-xxx	Rail assembly, 1 coil per cyl.
5942xx-xxx	Rail assembly, 2 coils per cyl.

### L IGNITION COILS - 1 per spark plug

591401-2	Ignition Coil, CPU-XL VariSpark
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NOTE: All new installations must use the 791401-2 Coil. The -1 version is for replacement applications only.

### M SPARK PLUG LEADS - 1 per spark plug

593224-L	Flashguard lead, L = 12, 16, 18, 20, 24, 30
593226-L	Flashguard lead, w/silicone hose, L = 12, 16, 18, 20, 24, 30
593220-L	Shielded lead, 3/4-20, L = 10, 13, 16, 18, 24, 30
593221-L	Safe-T-Lead, L = 14, 18, 22
593222-L	Safe-T-Lead, L = 14, 18, 22
593223-L	Safe-T-Lead, L = 14, 18, 22
593230-L	Shielded lead, 3/4-20, L = 10, 13, 16, 18
593231-L	Safe-T-Lead, L = 14, 18, 22
593232-L	Safe-T-Lead, L = 14, 18, 22
593233-L	Safe-T-Lead, L = 8, 14, 18, 22
593234-L	Safe-T-Lead, L = 14, 19
593262-L	Unshielded lead for KVG, L = 14, 19

## EZRAIL SYSTEM APPLICATION CHART – CPU-XL VARISPARK SYSTEM

Engine	EZRail Assembly	
	Qty.	Part No.
<b>CLARK</b>		
HRA-5	1	594210-210
HRA-6	2	594206-210
HRA-8	2	594208-210
TLA-5	1	594210-211
TLA-6	2	594206-211
TLA-8	2	594208-211
TLA-10	2	594210-211
TCV-10	2	594206-212
	2	594204-212
TCV-12	4	594206-212
TCV-16	4	594208-212
TCV-20	4	594210-212
<b>COOPER BESSEMBER</b>		
GMV-6 Series	2	594206-221
GMV-8 Series 60-30	4	594204-221
GMV-8 flat crank	4	594204-221
GMV-10 Series	2	594206-221
	2	594204-221
GMVH-12 flat crank	4	594206-221
GMW-6 Series	2	594206-222
GMW-8 Series	2	594208-222
GMW-10, GMWC-10	2	594206-222
	2	594204-222
GMWA-10	2	594206-222
	2	594204-222
GMW-12 Series	4	594206-222
6V250, 6V275, 6W330	2	594206-222
8V250, 8V275, 8W330	2	594208-222
10V250, 10V275, 10W330	2	594206-222
	2	594204-222
12V250, 12V275, 12W330	4	594206-222
16V250, 16V275, 16W330	4	594208-222
LS8G	2	594208-225
<b>DE LAVAL</b>		
HVA-8	2	594208-251
HVA-12	4	594206-251
HVA-16	4	594208-251

Engine	EZRail Assembly	
	Qty.	Part No.
<b>INGERSOLL RAND</b>		
KVG, KVS 6-cyl.	2	594206-231
KVG, KVS 8-cyl.	2	594208-231
KVG 103, 104, 410	2	594210-231
KVG 410/510 (12-cyl. crank)	2	594206-231-1
	2	594204-231-2
KVS 410/510 (12-cyl. crank)	1	594206-231-1
	1	594206-231-2
	2	594204-231
KVG/KVS 412, 512	2	594206-231-1
	2	594206-231-2
KVT/KVR 38	4	594204-232
KVT/KVR 410	2	594206-232
	2	594204-232
KVT/KVR 512	4	594206-232
KVT/KVR 616	4	594208-232

Note: EZRail part no. is for engine with 2 spark plugs per cylinder; for 1 plug per cylinder, change above part no. from 5942ab-xxx to 5941cd-xxx where cd equals one-half the number ab from listing. Example – 594206-221 becomes 594103-221 for 1 plug per cylinder.