

# Application List

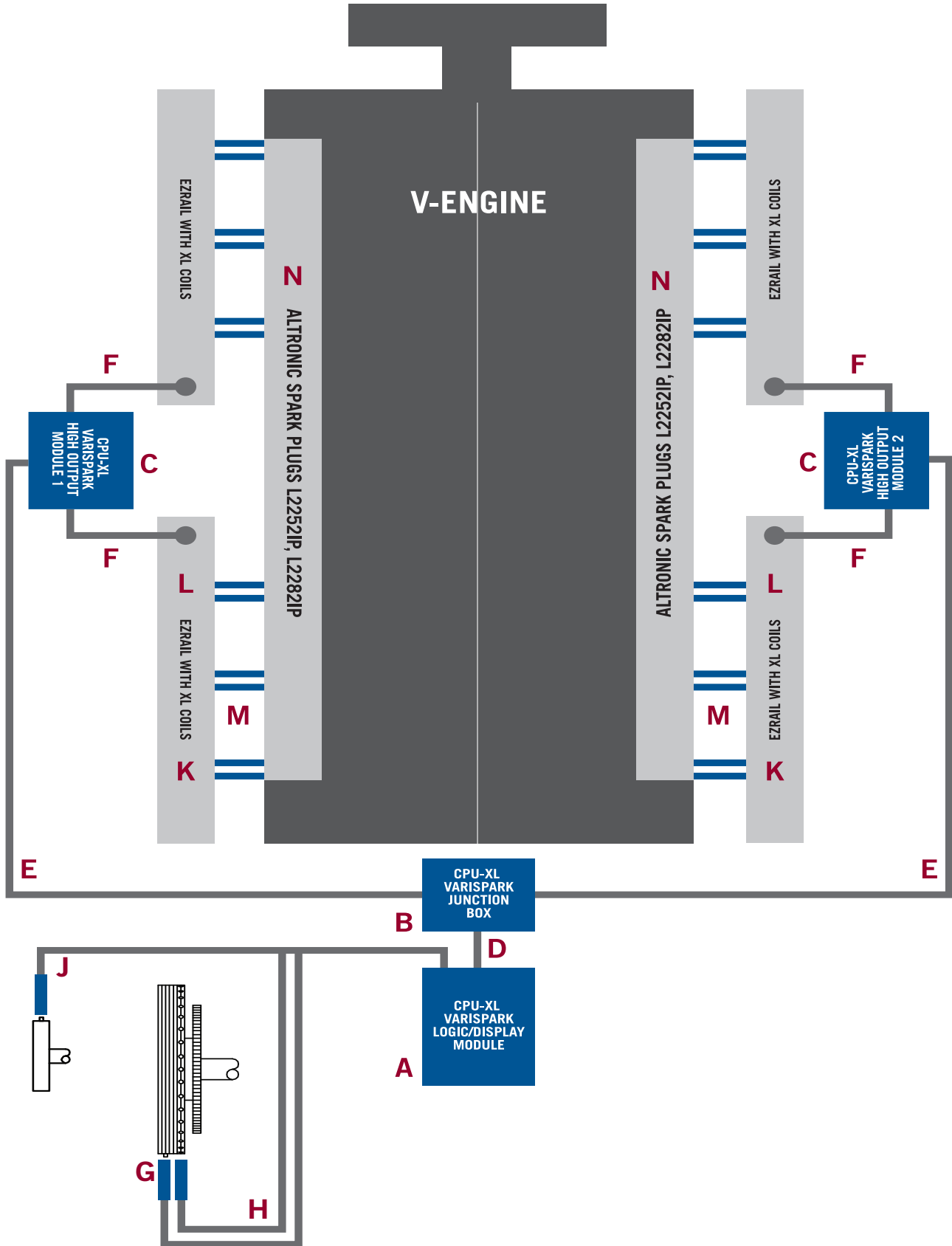
*Altronic CPU-XL VariSpark Ignition System*

*Form CPU-XL VariSpark AL 7-11*

**altronic**  
HOERBIGER Engine Solutions



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



## CPU-XL VARISPARK APPLICATION LIST

### A LOGIC/DISPLAY MODULE - 1 per system

291400-1	CPU-XL VariSpark Logic/Display Module
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### B J-BOX / DIAGNOSTIC MODULE - 1 per system

291405-1	J-Box / Diagnostic Module
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### C OUTPUT MODULE - 1 for in-line engines, 2 for V engines

291410-1	CPU-XL VariSpark Output Module
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### D HARNESS - DISPLAY MODULE TO J-BOX - 1 per system

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

### E HARNESS - J-BOX to OUTPUT MODULE(S) - 1 per bank (length may vary between banks)

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

### F HARNESS - OUTPUT MODULE(S) TO EZ RAILS - 1 per EZ Rail

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.

### G MAGNETIC PICKUP - 2 per system

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

### H CABLE ASSEMBLY, MAGNETIC PICKUP - 2 per system

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
693104-L	Cable, unshielded, 180 connector, L = length of cable in feet x 10, L = 1, 2, 3, 4, 5

## CPU-XL VARISPARK APPLICATION LIST

### 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

591401-1	Ignition Coil, CPU-XL VariSpark
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### 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

### N SPARK PLUGS - 1 or 2 per cylinder

L2252IP	Spark plug, iridium-platinum, 7/8"-18 x 5/8" reach
L2282IP	Spark plug, iridium-platinum, 7/8"-18 x 1" reach

## 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 BESSEMER</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.

### SPARK PLUG SPECIFICATION

CLARK	L2252IP
COOPER BESSEMER	
5/8" Reach Heads	L2252IP
1" Reach Heads	L2282IP
DE LAVAL	L2282IP
INGERSOLL RAND	L2282IP