

# EPV--ENGINE

## VORTEX Mini ROK

**EPV**

**ROTAX  
SECTION**

**AA**

**BRAND  
OR  
DESCRIPTION**

**000**

**PART  
NUMBER**

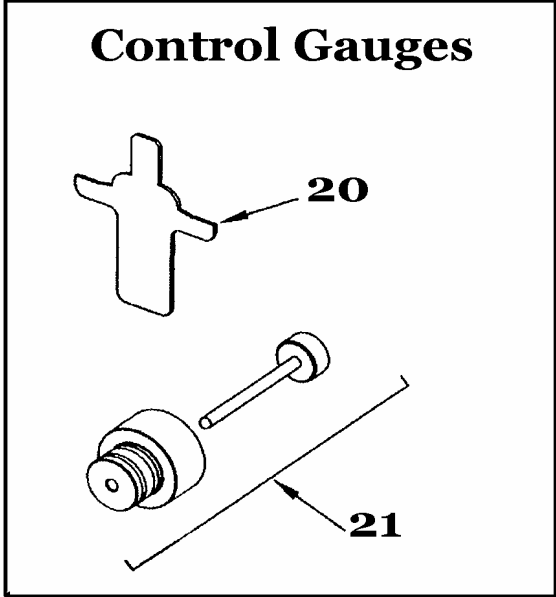
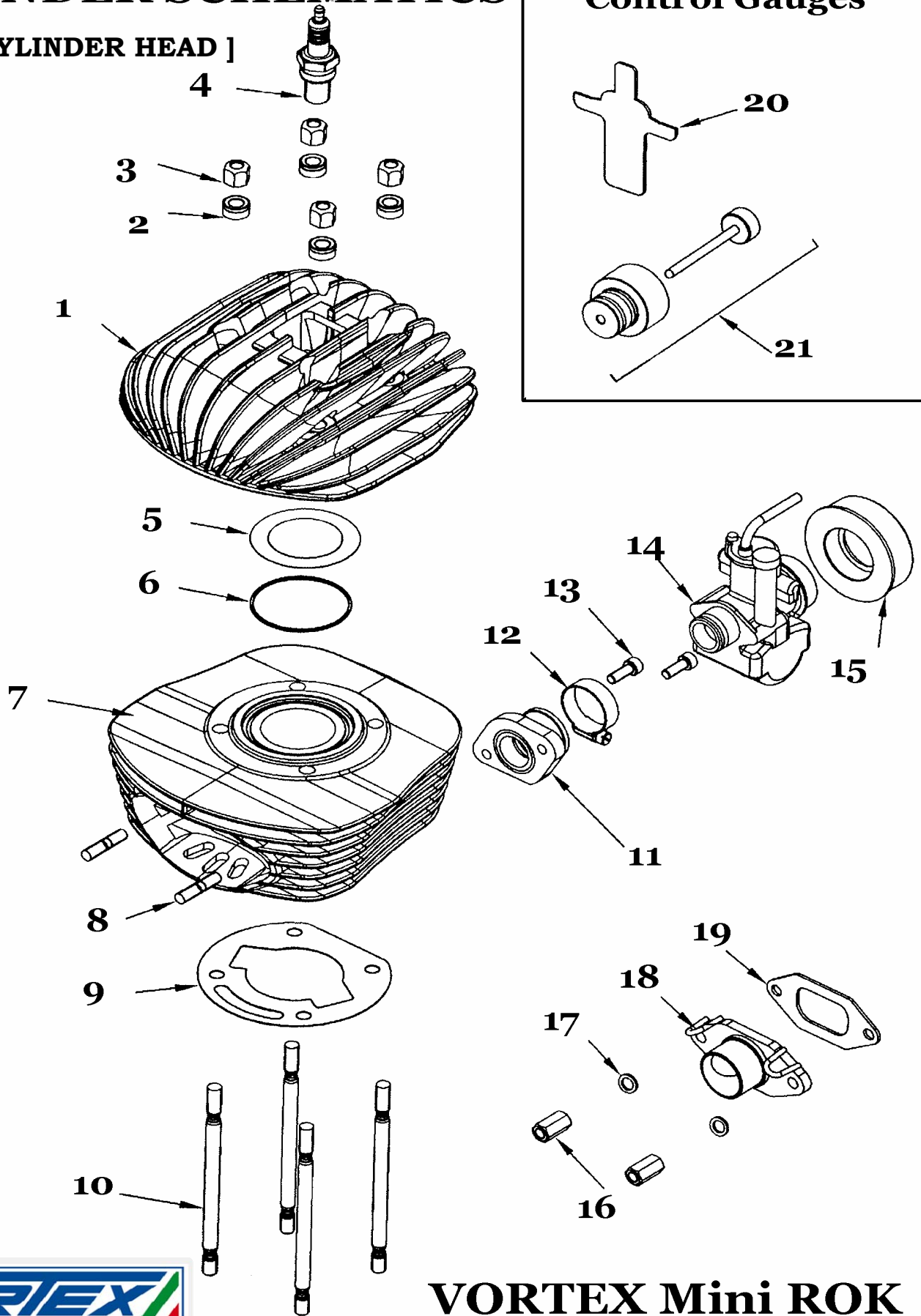


**Airbox**  
**Airbox Bracket**  
**Air Filter**  
**Bearing Piston [ Little End ]**  
**Bearing Clutch**  
**Bearing Main**  
**Battery,Charger & Mounting**  
**Carby Parts**  
**Clutch Parts**  
**Crankcase & Parts**  
**Crankshaft & Parts**  
**Drive Sprockets**  
**Exhaust Muffler & Spring**  
**Ignition Parts**  
**Starter & Drive**  
**SCHEMATIC DIAGRAMS**  
**Head & Cylinder Schematic:**  
**Crankcase & Starter Schematic:**  
**Crankshaft & Clutch Schematic**  
**Ignition & Exhaust Schematic:**  
**Carburetor Schematic:**  
**Ignition , Battery & Tools Schematic:**

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# CYLINDER SCHEMATICS

[ CH - CYLINDER HEAD ]

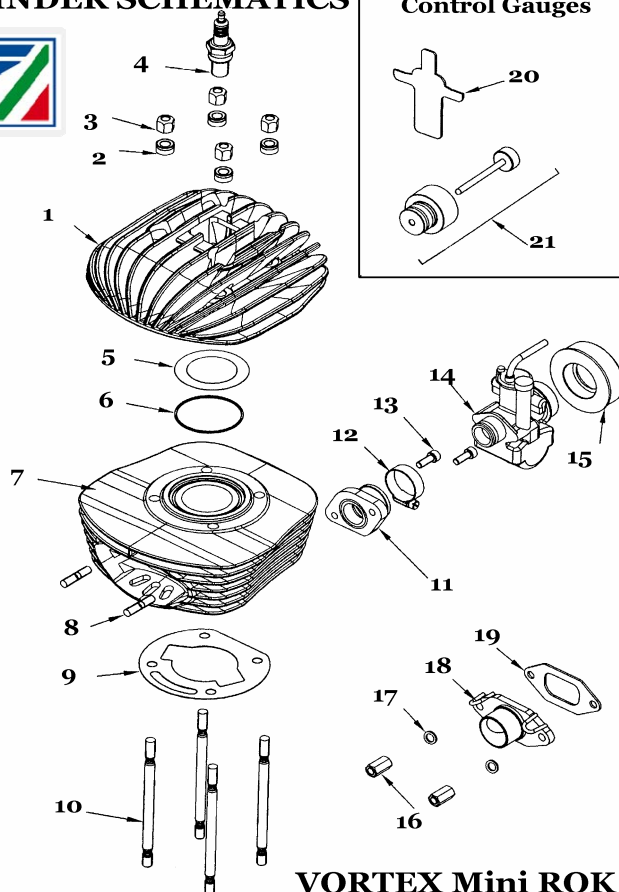


## VORTEX Mini ROK



## CYLINDER SCHEMATICS

### Control Gauges

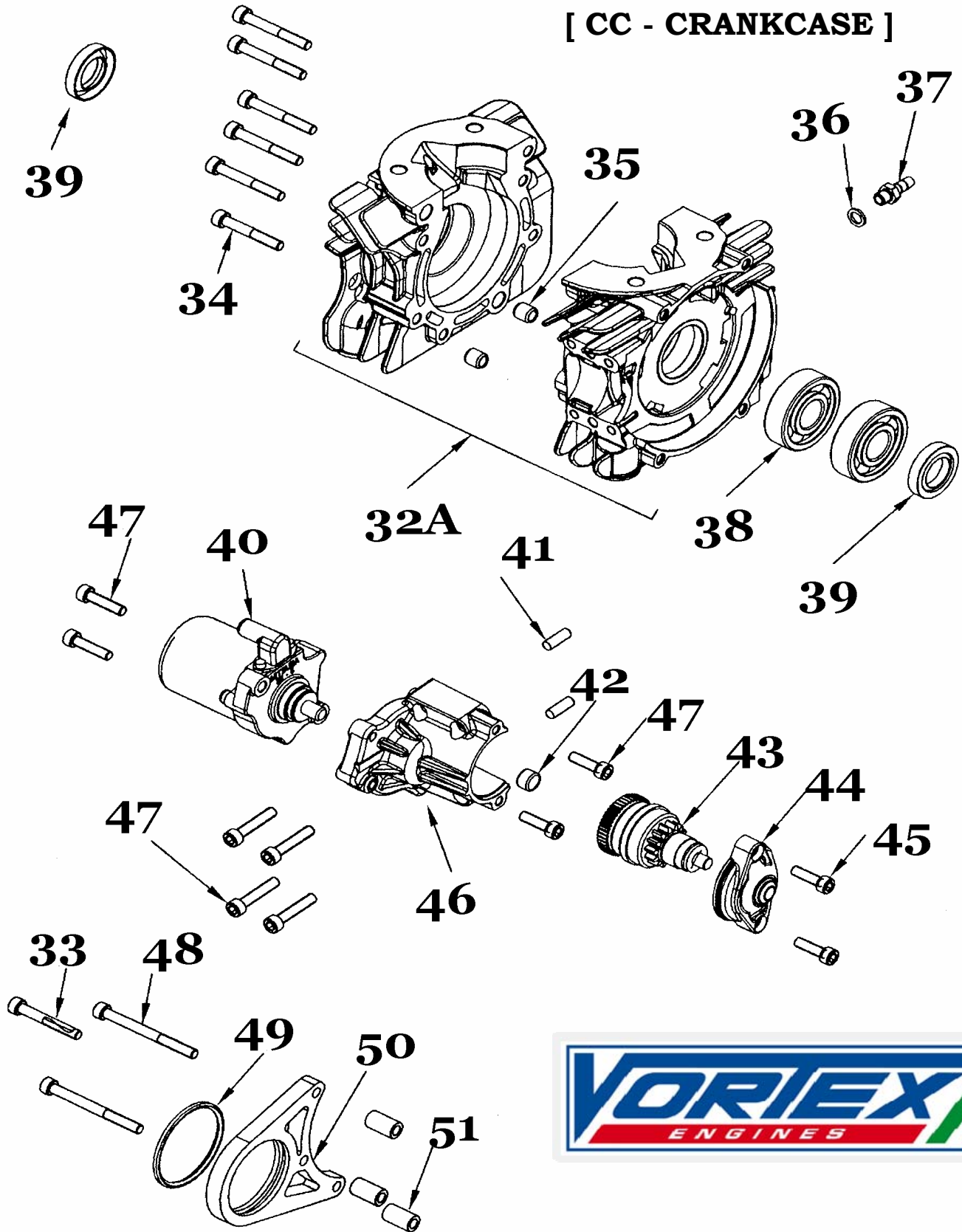


**VORTEX Mini ROK**

ENGINE PARTS VORTEX Mini ROK	F I G	VORTEX Mini ROK AGS P/NUMBER	VORTEX Mini ROK OEM P/NUMBER
<b>CYLINDER &amp; HEAD</b>			
CYLINDER HEAD AIR COOLED	1	EPVCH001	W010/MR
WASHER CYLINDER HEAD 8.5 X 15 X 8mm	2	EPVCH002	W560
NUT CYLINDER HEAD 8mm [ STANDARD ]	3	EPVCH003	W530/12
SPARK PLUG [ NGK B10 ]	4		W003
GASKET HEAD COPPER 42.2 X 62.4 X 0.01mm	5	EPVCH005	W631/01MR
GASKET HEAD COPPER 42.2 X 62.4 X 0.02mm	5	EPVCH005.2	W631/02MR
O RING HEAD [VITON]	6	EPVCH006	W620/MR
CYLINDER MINI ROK COMPLETE	7	EPVCH007	W020/1MRC
STUD EXHAUST 32mm X 7mm	8	EPVCH008	W470
GASKET CYLINDER BASE 0.2mm	9	EPVCH009.2	W610/1MRC02
GASKET CYLINDER BASE 0.3mm	9	EPVCH009.3	W610/1MRC03
GASKET CYLINDER BASE 0.4mm	9	EPVCH009.4	W610/1MRC04
GASKET CYLINDER BASE 0.5mm	9	EPVCH009.5	W610/1MRC05
STUD CYLINDER 142mm X 8mm	10	EPVCH010	W461/1VLC
INLET MANIFOLD PHBG 18 MINI ROK	11	EPVCH011	W2050/MR
CARBURETOR CLAMP D.23-35mm	12	EPVCH012	W825/1MR
SOCKET HEAD BOLT 16mm X 6mm	13	EPVCH013	V.TCE6Z16
CARBURETOR DELLORTO PHBG 18B	14	EPVCH014	W820/MR
CONNECTOR	15	EPVCH015	W981400
NUT EXHAUST LONG	16	EPVCH016	W540/RVA
WASHER EXHAUST 12mm X 1.5mm X .8	17	EPVCH017	W565
MANIFOLD EXHAUST OPEN CADET 12	18	EPVCH018/12	W750/1MR
MANIFOLD EXHAUST RESTRICTED 16mm CADET 9	18	EPVCH018/9	W750.BR2NZ
GASKET EXHAUST	19	EPVCH019	W370/MR
TOOL HEAD CONTROL TEMPLATE MINI ROK	20	EPVCH020	WA063
CARBURETOR GAP CONTROL TEMPLATE	21	EPVCH021	WA064

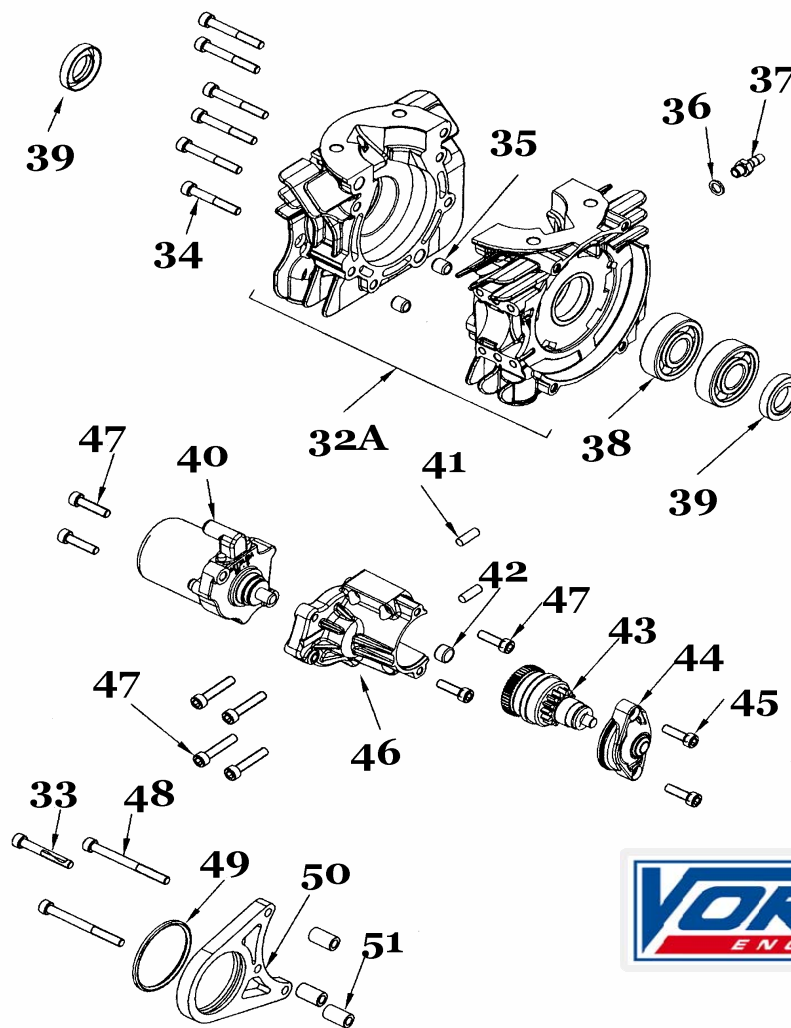
# CRANKCASE SCHEMATICS

[ CC - CRANKCASE ]



**VORTEX Mini ROK**

# CRANKCASE SCHEMATICS



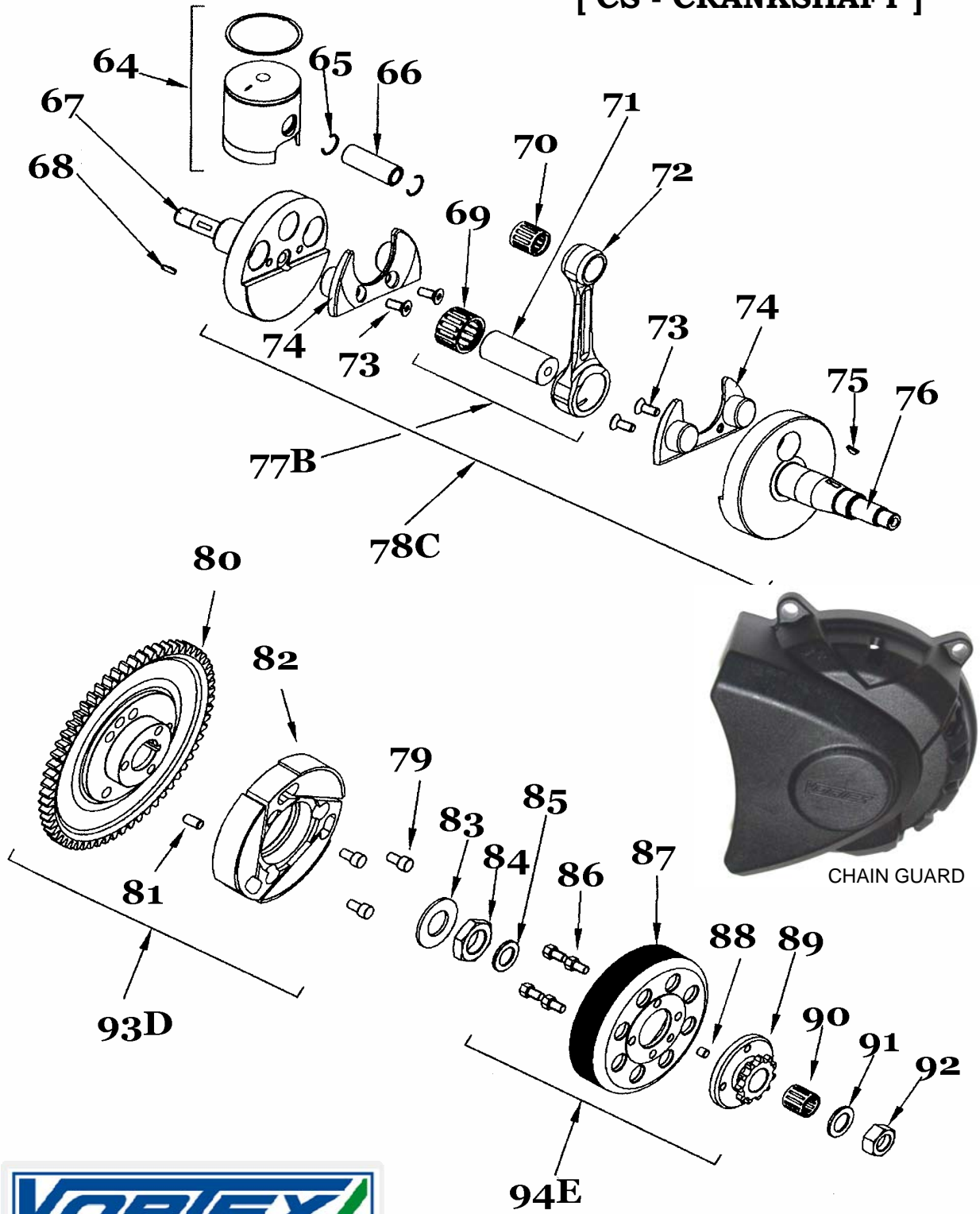
**VORTEX Mini ROK**

ENGINE PARTS VORTEX Mini ROK	FIG	VORTEX Mini ROK AGS P/N	VORTEX Mini ROK OEM P/N	CRANKCASE	FIG	VORTEX Mini ROK AGS P/N	VORTEX Mini ROK OEM P/N
CRANKCASE 60cc COMPLETE W/B	32A	EPVCC32A	W050/MRC	SOCKET HEAD BOLT 30 X 6mm	47	EPVCC47	V.TCE6X30
SOCKET HEAD BOLT 40mm X 6mm	33	EPVCC33	V.TCEX40	SOCKET HEAD BOLT 65 X 6mm	48	EPVCC48	V.TCE6X65
SOCKET HEAD BOLT 45mm X 6mm	34	EPVCC34	V.TCE6X45	O RING STARTER SUPPORT	49	EPVCC49	W972/MR
DOWEL CRANKCASE 10X10.5X6.5mm	35	EPVCC35	W075/1	STARTER SUPPORT Dia 50mm	50	EPVCC50	W970/MR
WASHER COPPER .8 X 12 X 1mm	36	EPVCC36	W10267	STARTER SUPPORT SPACER	51	EPVCC51	W975/MR
DEPRESSION PIPE FITTING 8mm	37	EPVCC37	W800				
BEARINGS MAIN	38	EPVCC38	W300/MR				
SEAL 20 X 35 X 7mm DOUBLE LIP	39	EPVCC39	W310				
STARTER MOTOR	40	EPVCC40	W940/ROK				
PIN S/HOUSING LOCATE 6 X 18mm	41	EPVCC41	W019				
BEARING ROLLER STARTER DRIVE	42	EPVCC42	W924				
STARTER DRIVE GEAR	43	EPVCC43	W916/ROK				
COVER STARTER DRIVE GEAR	44	EPVCC44	W910/ROK				
SOCKET HEAD BOLT 20 X 6mm	45	EPVCC45	V.TCE6X20				
STARTER SUPPORT HOUSING	46	EPVCC46	W960/RKT				

# CRANKSHAFT & CLUTCH SCHEMATICS

[ CL - CLUTCH ]

[ CS - CRANKSHAFT ]

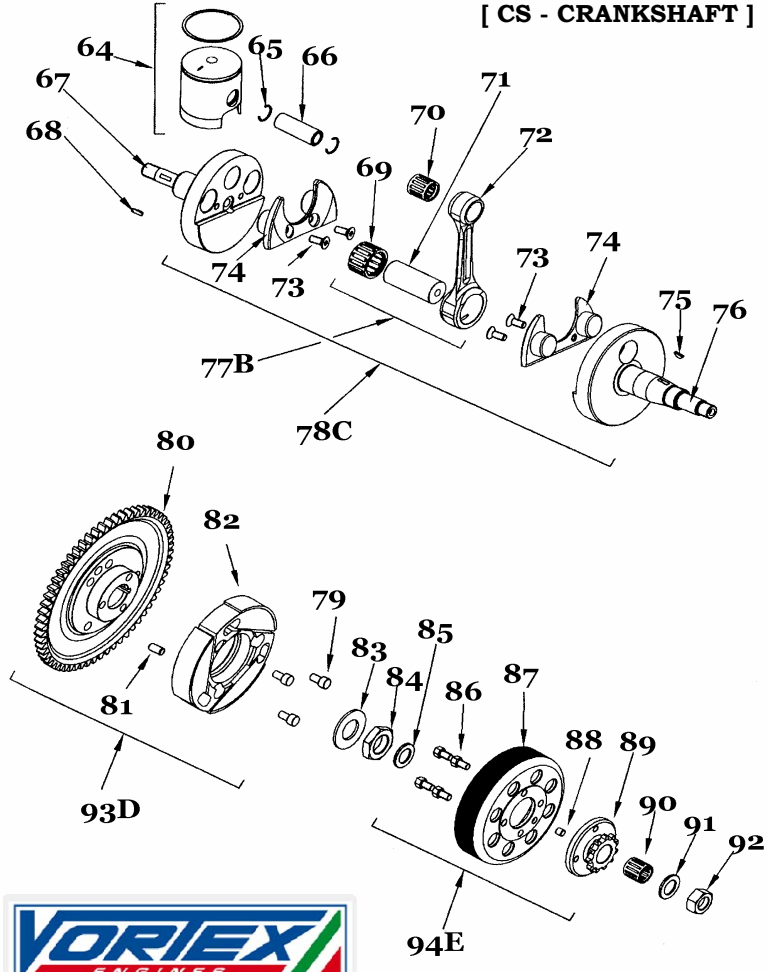


## VORTEX Mini ROK



# CRANKSHAFT & CLUTCH SCHEMATICS

[ CL - CLUTCH ]  
[ CS - CRANKSHAFT ]



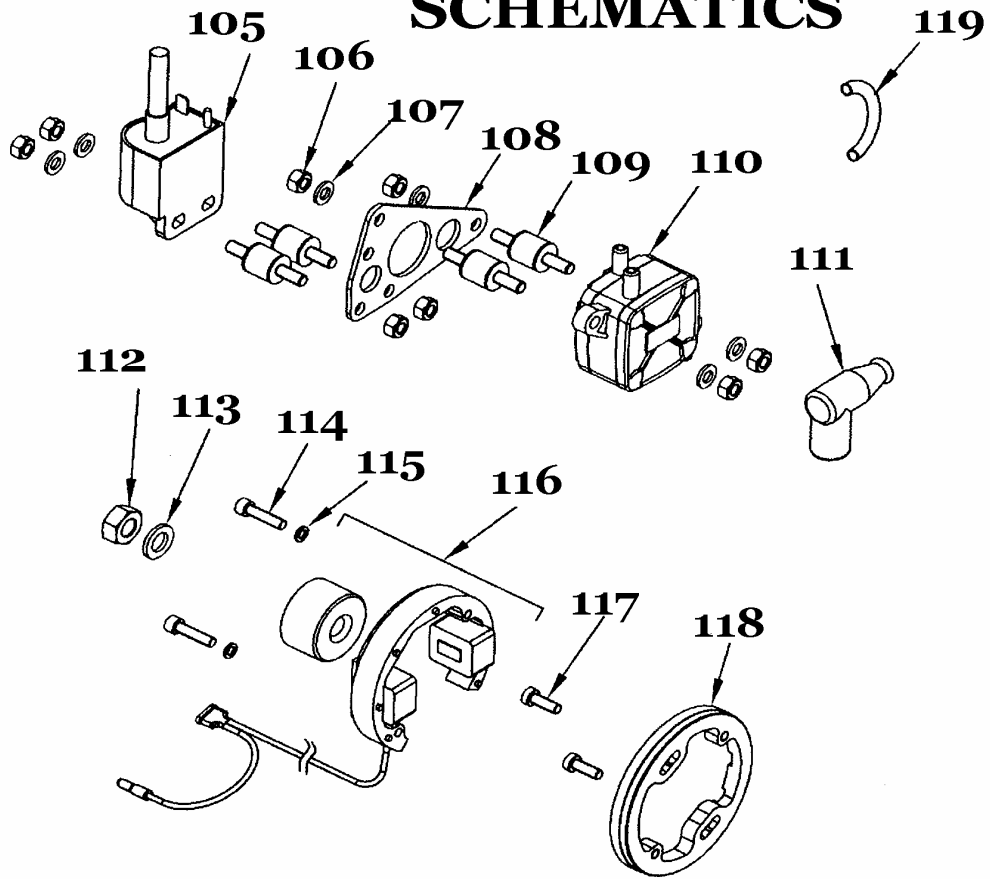
CHAIN  
GUARD  
EPVCL100



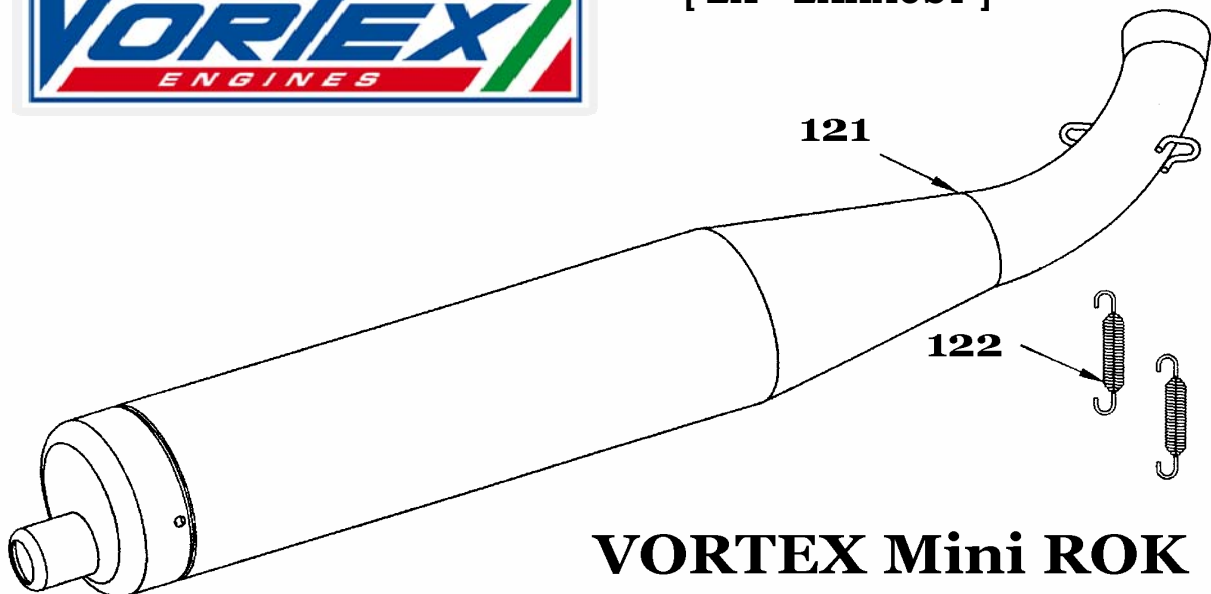
**VORTEX Mini ROK**

ENGINE PARTS VORTEX Mini ROK	FIG	VORTEX Mini ROK AGS P/N	VORTEX Mini ROK OEM P/N	C/SHAFT & CLUTCH	FIG	VORTEX Mini ROK AGS P/N	VORTEX Mini ROK OEM P/N
PISTON COMPLETE 41.88mm	64	EPVCS064/.88	W240/MR01A	CRANKSHAFT COMPLETE MR	77C	EPVCS077C	W130/1MR
PISTON COMPLETE 41.91mm	64	EPVCS064/.91	W240/MR03A	SOCKET HEAD BOLT 14 X 6mm	79	EPVCS079	W510/14
PISTON COMPLETE 41.93mm	64	EPVCS064/.93	W240/MR06A	STARTER DRIVEN GEAR 62T	80	EPVCL080	W1753/MR
PISTON COMPLETE 41.95mm	64	EPVCS064/.95	W240/MR09A	PIN CYLINDRICAL 10 X 6mm	81	EPVCL081	W1766/1ROK
PISTON COMPLETE 41.98mm	64	EPVCS064/.98	W240/MR11A	CLUTCH LINING HUB & PIN	82	EPVCL082	W1751/1KFC
RING PISTON 41.95mm	64A	EPVCS064A/.95	W260/MR95L	WASHER BELLEVILLE	83	EPVCL083	W1708
RING PISTON 42.00mm	64A	EPVCS064A/.00	W260/MR00L	NUT LINING HUB SECURE 16 X 1mm	84	EPVCL084	W1727
RING PISTON 42.05mm	64A	EPVCS064A/.05	W260/MR05L	WASHER 2mm	85	EPVCL085	W1726/1
CIRCLIP 12mm	65	EPVCS065	W280/MR	FLAT HEAD SCREW 8 X 5mm	86	EPVCL086	W523/08
PIN PISTON	66	EPVCS066	W270/MRA	DRUM CLUTCH BARE	87	EPVCL087	W1773/MR2
CRANKSHAFT HALF IGN SIDE	67	EPVCS067	W140/MR	ROLLER 5 X 5mm	88	EPVCL088	W1766/ROK
KEY IGNITION 2.5 X 3.7 X 10mm	68	EPVCS068	W122	SPROCKET ENGINE 10T	89	TR04310T/V	W690/MR10C
BEARING BIG END 18 X 24 X 15mm	69	EPVCS069	W220	SPROCKET ENGINE 11T	89	TR04311T/V	W690/MR11
BEARING L/ END 12 X 16 X 15.5mm	70	EPVCS070	W290/MR	BEARING ROLLER 10 X 15 X 15mm	90	EPVCL090	W1715
PIN CRANKSHAFT B/END 18 X 40.6	71	EPVCS071	W200/1MR	WASHER CLUTCH 10 X 18.8 X 2mm	91	EPVCL091	W1777/1ROK
CONROD MR	72	EPVCS072	W230/MR	NUT OUTER SPROCKET	92	EPVCL092	W696/MR
FLAT HEAD SCREW 10 X 5mm	73	EPVCS073	M522/10	CLUTCH ASSY COMPLETE W/GEAR	93D	EPVCL93D	W1750/1MR
STUFFER NYLON CRANKSHAFT	74	EPVCS074	W160/MR	CLUTCH ASSY COMPLETE 10T	94E	EPVCL094E/10T	W1763/MR10
KEY WOODRUFF 3 X 3.7 X 10mm	75	EPVCS075	W121	CLUTCH ASSY COMPLETE 11T	94E	EPVCL094E/11T	W1763/MR11
CRANKSHAFT HALF DRIVE SIDE	76	EPVCS076	W150/MR	CLUTCH ASSY COMPLETE 12T	94E	EPVCL094E/12T	W1763/MR12
CONROD COMPLETE MR 60cc	77B	EPVCS077B	W190/MR	CLUTCH/CHAIN GUARD		EPVCL100	

# COIL,IGNITION,FUEL PUMP & EXHAUST SCHEMATICS



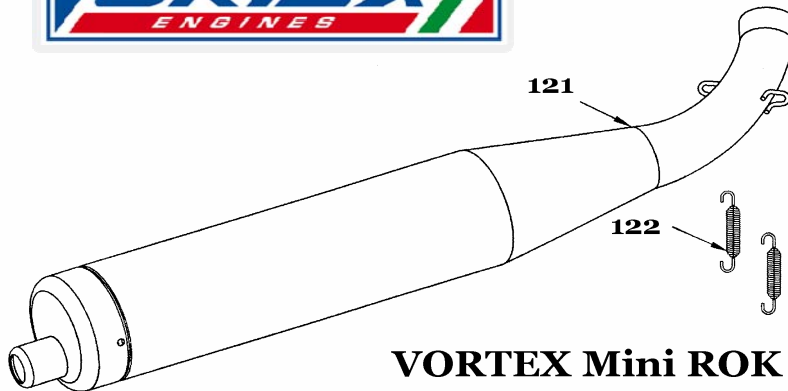
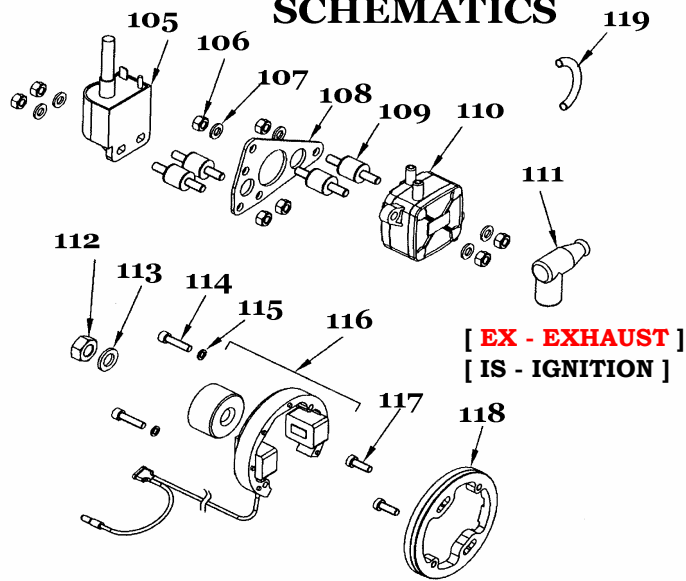
[ IS - IGNITION ]  
 [ CA - FUEL ]  
 [ EX - EXHAUST ]



**VORTEX Mini ROK**

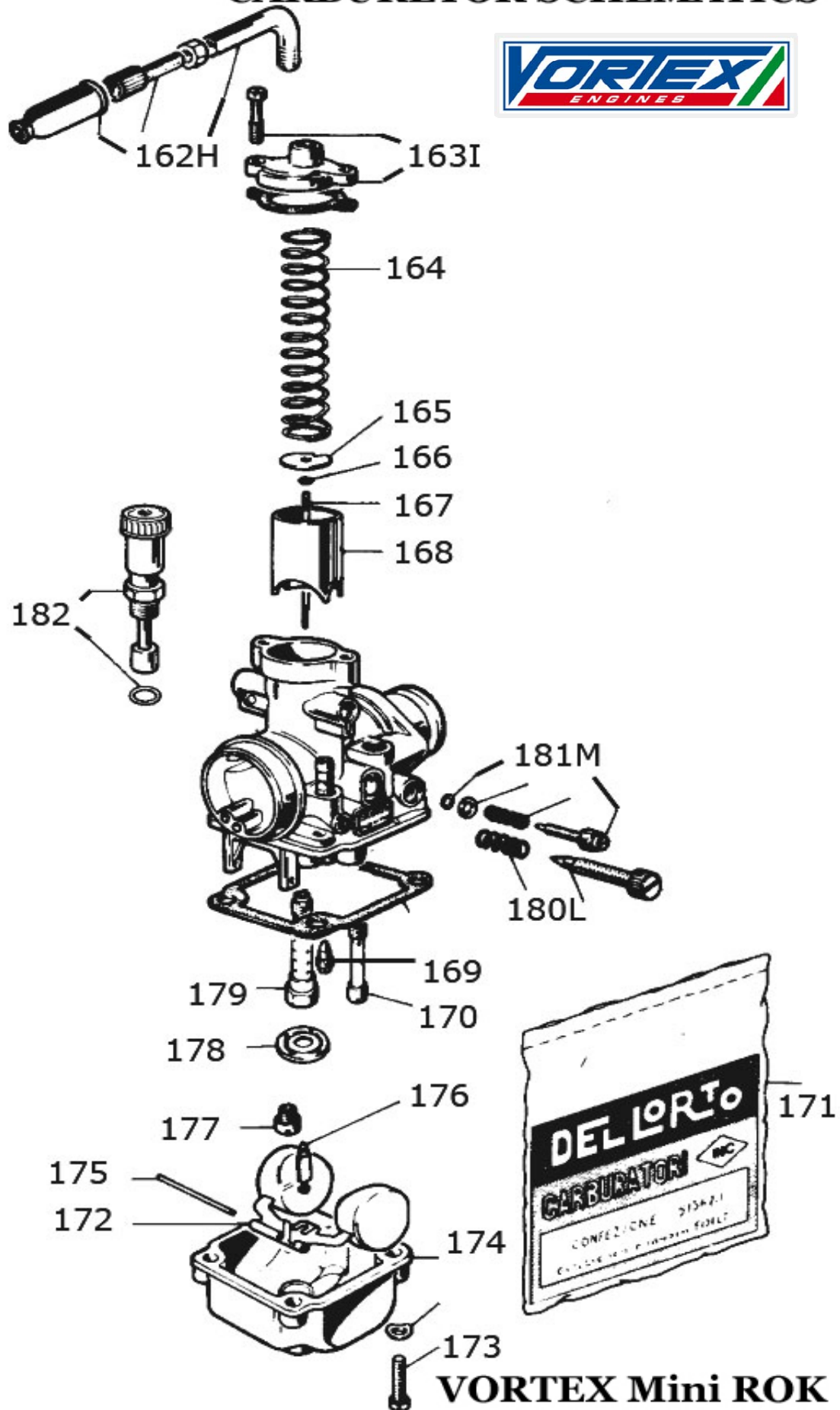


# COIL,IGNITION,FUEL PUMP & EXHAUST SCHEMATICS

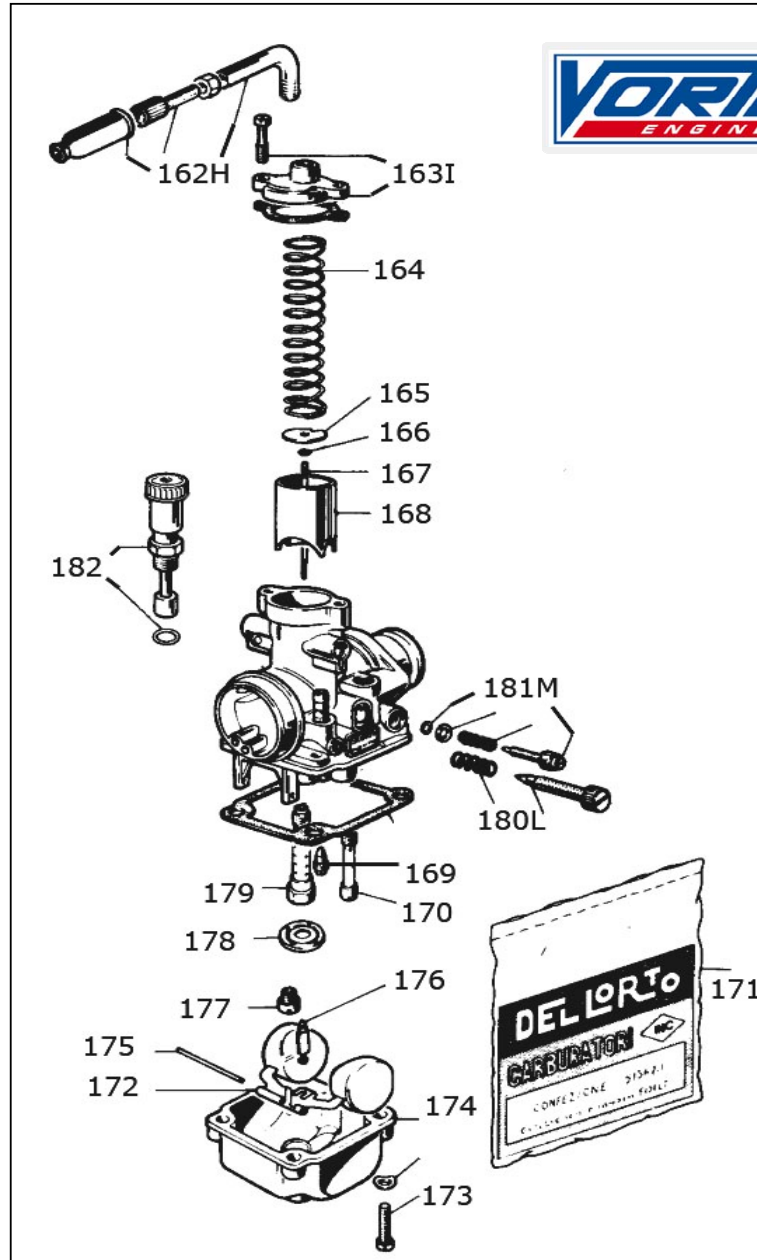


ENGINE PARTS VORTEX Mini ROK	F I G	VORTEX Mini ROK AGS P/NUMBER	VORTEX Mini ROK OEM P/NUMBER
<b>IGNITION &amp; EXHAUST</b>			
COIL MR	105	EPVIS105	W410/MR
NUT 1mm X 6mm	106	EPVIS106	W531/06
WASHER FLAT 12 X 1.5 X 6mm	107	EPVIS107	W570/12
BRACKET SUPPORT PLATE FUEL PUMP	108	EPVIS108	W2052/MR
INSULATOR BLOCK COIL	109	EPVIS109	W440
FUEL PUMP VACUUM	110	EPVIS110	W11023
SPARK PLUG CAP PVL 401222 50HM	111	SP014B	W420/2
NUT IGNITION 1 X 10mm	112	EPVIS112	W529/0108
WASHER IGNITION 10.4 X 18 X 2mm	113	EPVIS113	W1777/MR
SOCKET HEAD BOLT 20mm X 5mm	114	EPVIS114	V.TCE5X20
WASHER 10 X 5.5 X .3mm	115	EPCIS115	W580/10
IGNITION ROTOR AND STATOR	116	EPVIS116	W407/MR
SCREW 14 X 5mm	117	EPVIS117	W524/14
SUPPORT SPACER FOR IGNITION	118	EPVIS118	W068/MR
FUEL TUBE 6 X 9mm	119	EPVIS119	0074.CO
EXHAUST MUFFLER MR	121	EPVEX121	W780/1MR
SPRING EXHAUST	122	EPVEX122	W10925

# CARBURETOR SCHEMATICS

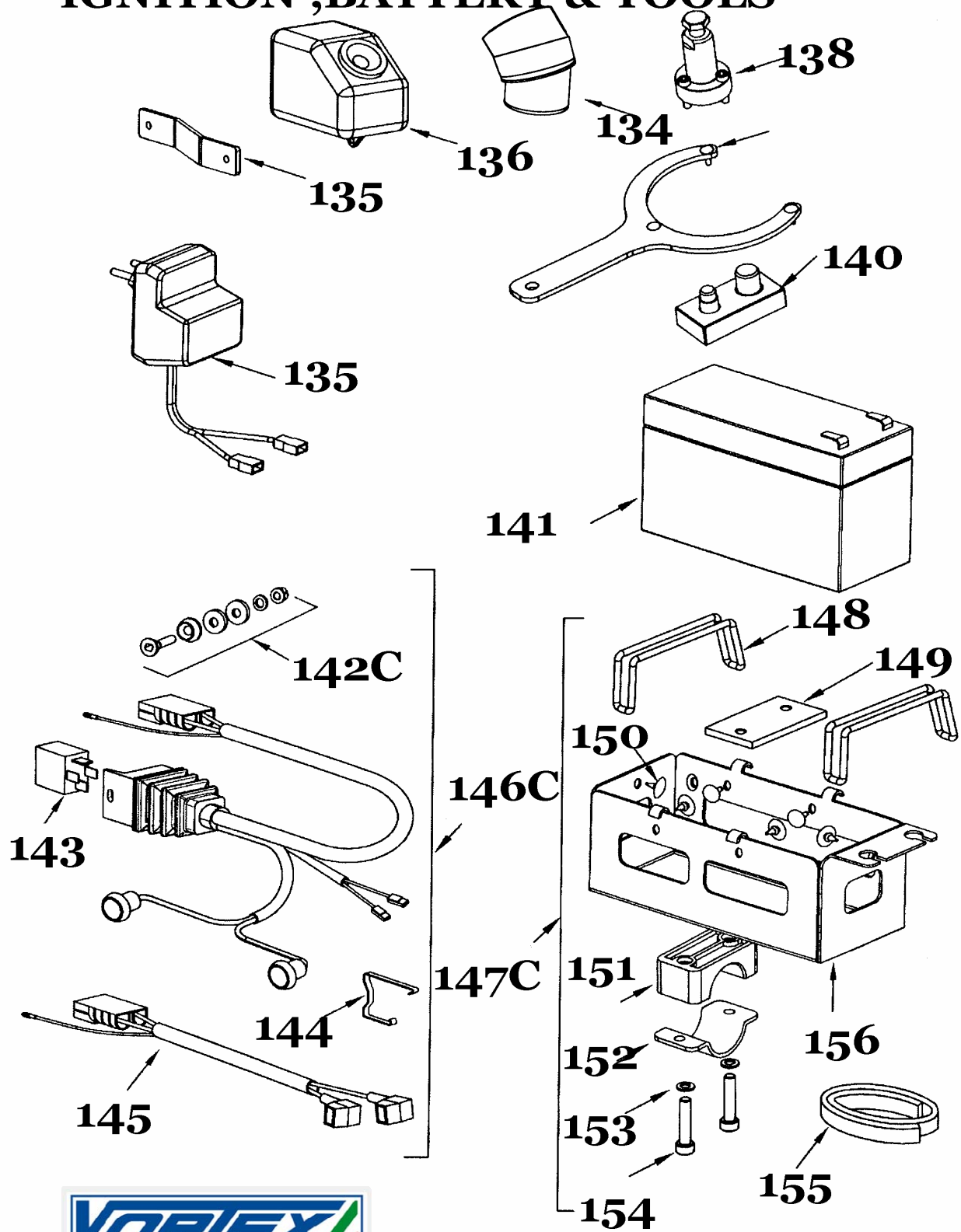


# CARBURETOR SCHEMATICS



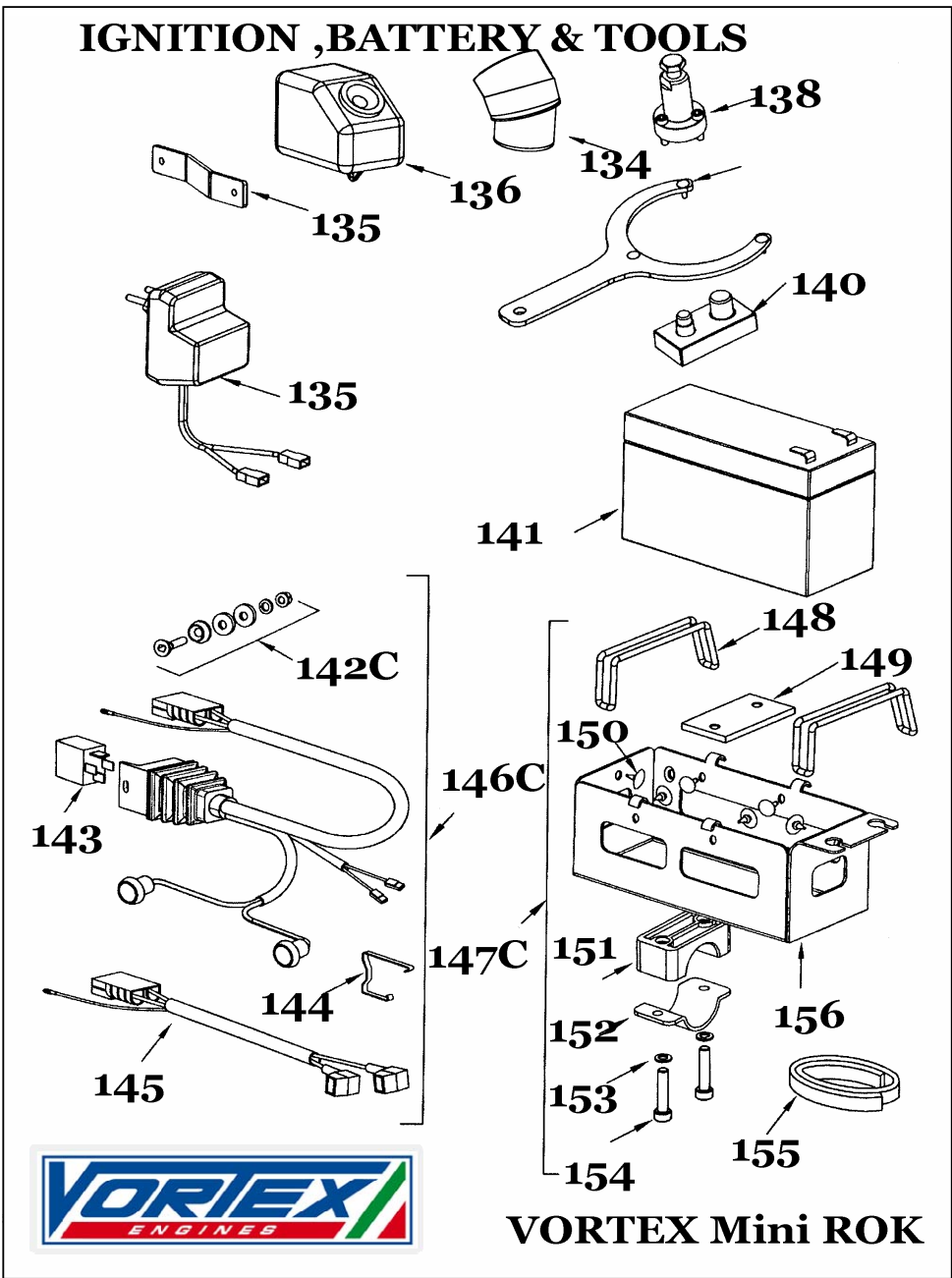
ENGINE PARTS VORTEX Mini ROK	FIG	VORTEX Mini ROK AGS P/N	VORTEX Mini ROK OEM P/N	CARBURETOR	FIG	VORTEX Mini ROK AGS P/N	VORTEX Mini ROK OEM P/N
DELLORTO CARBURETOR	161V	EPVCA161V	W820/MR	NEEDLE FUEL INLET	176	EPVCA176	W283805
TUBE 90 Deg KIT	162H	EPVCA162H	W53036-78	MAIN JET 92	177	EPVCA177/92	W148692
CAP CARBURETOR	163I	EPVCA163I	W53031-78	MAIN JET 93	177	EPVCA177/93	W148693
SPRING VALVE GAS	164	EPVCA164	W9597-21	MAIN JET 94	177	EPVCA177/94	W148694
RETAINER NEEDLE	165	EPVCA165	W14958-21	MAIN JET 95	177	EPVCA177/95	W148695
CIRCLIP NEEDLE	166	EPVCA166	W9596211	MAIN JET 96	177	EPVCA177/96	W148696
NEEDLE W23	167	EPVCA167	W959523	MAIN JET 97	177	EPVCA177/97	W148697
SLIDE 40 X 64	168	EPVCA168	W947540	PLATE SURGE	178	EPVCA178	W9779-52
PILOT JET 50	169	EPVCA169	W148850	SPRAY NOZZLE 266	179	EPVCA179	W9511266
STARTER JET 60	170	EPVCA170	W950160	IDLE SCREW KIT	180L	EPVCA180L	W53027-78
GASKET KIT	171	EPVCA171	W52526-77	AIR SCREW KIT	181M	EPVCA181M	W53024-78
FLOAT	172	EPVCA172	W9450-80	CHOKE PLUNGER	182	EPVCA182	W9538-64
SCREWS FLOAT BOWL	173	EPVCA173	W11836-36				
FLOAT BOWL	174	EPVCA174	W9444-96				
PIVOT PIN FLOAT	175	EPVCA175	W9506-22				

# IGNITION ,BATTERY & TOOLS



**VORTEX Mini ROK**

# IGNITION ,BATTERY & TOOLS



STARTER SINGLE LEAD  
EPILIS152LEAD

## VORTEX Mini ROK

ENGINE PARTS VORTEX Mini ROK	FIG	VORTEX Mini ROK AGS P/N	VORTEX Mini ROK OEM P/N		FIG	VORTEX Mini ROK AGS P/N	VORTEX Mini ROK OEM P/N
<b>IGN,BATTERY &amp; TOOLS</b>				<b>IGN,BATTERY &amp; TOOLS</b>			
AIR FILTER MINI ROK AUSTRALIA	134	CAAB048FAKAMR	W850/1AF	BELT	148	EPVIS148	0096.00
SUPPORT BRACKET AIR FILTER	135	EPVAB135	W856/MR	THREADED MOUNTING PLATE	149	EPVIS149	0274.A1
AIRBOX	136	CAAB048AKAMR	W850/1MR	ACCUMULATOR SUPPORT RUBBER	150	EPVIS150	W2121.ROK
CHARGER ITALY	137	EPVIS137	W2130/ROK	MOUNT NYLON BRACKET 30mm	151	EPVIS151	0274.A2B
CHARGER JAPAN - USA	137	EPCIS137/J	W2131/ROK	MOUNT U CLAMP	152	EPVIS152	0274.A3
PULLER CLUTCH	138	TLCLMR001	WA052.KF	WASHER PLAIN 11 X 6mm	153	EPVIS158	R.P.6X11
HOLDING TOOL CLUTCH	139	TLCLMR002	WA061	SOCKER HEAD BOLT 40 X 6mm	154	EPVIS154	V.TCE6X40
SPROCKET DISMANTLING TOOL	140	TLCLMR003	WA062	SPONGE FOR BATTERY SUPPORT	155	EPVIS155	0274.A4
BATTERY	141	GABATTERY/MR	W991	ACCUMULATOR SUPPORT	156	EPVIS156	0274.DO
BOLT KIT WIRING HARNESS	142C	EPVIS142C	W2103/ROK4				
RELAY 12 VOLT 70 AMP	143	EPVIS143	W2119/ROK				
CLIP HARNESS	144	EPVIS144	W2103/ROK3				
WIRING HARNESS SECONDARY	145	EPVIS145	W2103/MROK2				
WIRING HARNESS COMPLETE	146C	EPVIS146C	W2103/MRKIT				
BATTERY CARRIER W/BRACKETS	147C	EPVIS147C	W2122/1MRC				