



HIRTH 2703 Carbureted - 55 hp



The 2703 V is an air cooled, piston controlled 2-cylinder-inline-2-stroke engine with one or two carburetors and Nikasil coated cylinders. It has one of the highest power to weight ratio available on the 50 HP engine market. Ideally suited for Ultralights, hovercrafts, light experimental aircrafts and all applications where weight is an issue.

Factory recommended TBO is rated at 1000 hours at 75% power. The warranty of the crank shaft is 3 years.

Technical data	
Specifications subject to change without prior notice	
Type:	Two cylinder two stroke (inline)
Displacement:	521 cm ³ (31,79 cu in)
Stroke:	64 mm (2,52 inl)
Bore:	72 mm (2,83 in)
Max. performance:	38,2 kW (52 HP at 6500 rpm (1c)
According to DIN 70020	40,4 kW (55 HP at 6200 rpm (2c)
	Specification with fan cooling
Max. torque:	60 Nm (44,2 ft.lb) at 5700 rpm (1c) 67 Nm (49,4 ft.lb) at 5600 rpm (2c)
Carburation:	1/2 x slide carburetor (Bing)
Ignition System:	COi
Generator power:	250W, 12V
Cooling:	Fan cooling
Weight:	31 kg (68,4 lb)
Starting device:	Recoil starter
Running direction:	Counter-clockwise, view to output shaft
Fuel mixture:	Mixture 1:50, 2-stroke-oil, fuel min. 95 octeine (RON)

HIRTH ENGINE SETTING VALUES

55 HP Engine	Fan cooled engine
Engine	55HP FC
Ign. Timing @ 2000 Carbureted	14 ° BTC
Spark Plug Heat VI *	280
Spark Plug Gap	.020-.024
No. of Carburetors	Two
Carburetor ID #	Bing 54 Carburetor (38mm)
Main Jet	160
Idle Jet	45
Jet Needle	6P2 Position 1
Needle Jet	2.72
Needle Position	1
Do not exceed RPM	5800
Peak HP RPM	5500
HP (4i Peak RPM	55
Peak Torque RPM	5000
Peak Torque Ft. Lb.	53.2
Maximum CHT	535 ° F
Maximum EGT @ full power	1150 ° F
Maximum EGT @ cruise RPM	1230 ° F
Spark Plug *	
Compression Pressure	120 PSI

* Optional Plugs : NGK BR 8 HS
: Champion RL86C or #830, L78C
: Nippon Denso W24 FSR-u
: Bosch W3AC

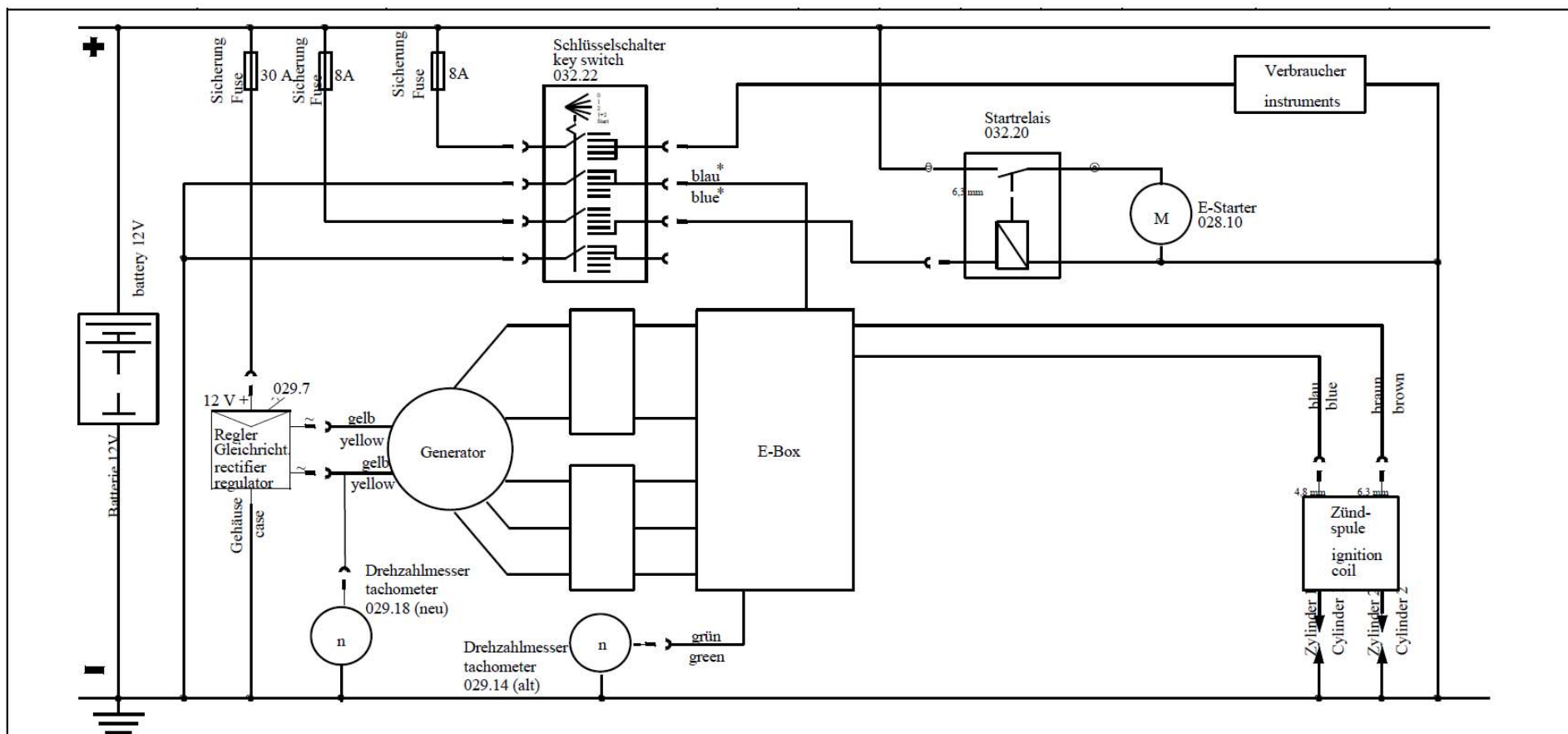
Useful Links:

Official Bing Manual: www.bingcarburetor.com/manual.html

Online Rebuild Manual: www.800-airwolf.com/pdf/ARTICLES/part%2052.PDF

Online Tuning Manual: www.ultralightnews.com/engine/troubleshooting/techtips/techtips2.htm

Online Cleaning Guide: <http://www.light-sport-aircraft.org/bing-54-carburetor-1.htm>



This wiring diagram is to be considered as a proposal for wiring

General size of line wire: 1,5 mm²

Size of line from/to E-Starter: 16 mm²

Rectifier-regulator mount on cooling body (ca. 250x200x5mm)

* Minimum distance to other current wires: 100 mm (4 in.)

f					Tag	Name
e					Gezeichnet:	04.07.00 Rögele
d					Geprüft:	04.07.00 Rögele
c					Schaltplan CDI – Einfachzündung PVL Wiring diagram – single ignition PVL F23	
b						
a						
Buchstabe	Anzahl	Änderung	Tag	Name	2702./03, /04, /05, /06, 3202/03, 3502/03	
		Rohrteil-Nr.		Maßstab	Zeichnungs-Nr.	
					14 AA 104	

**55HP Cylinders
(2703)**

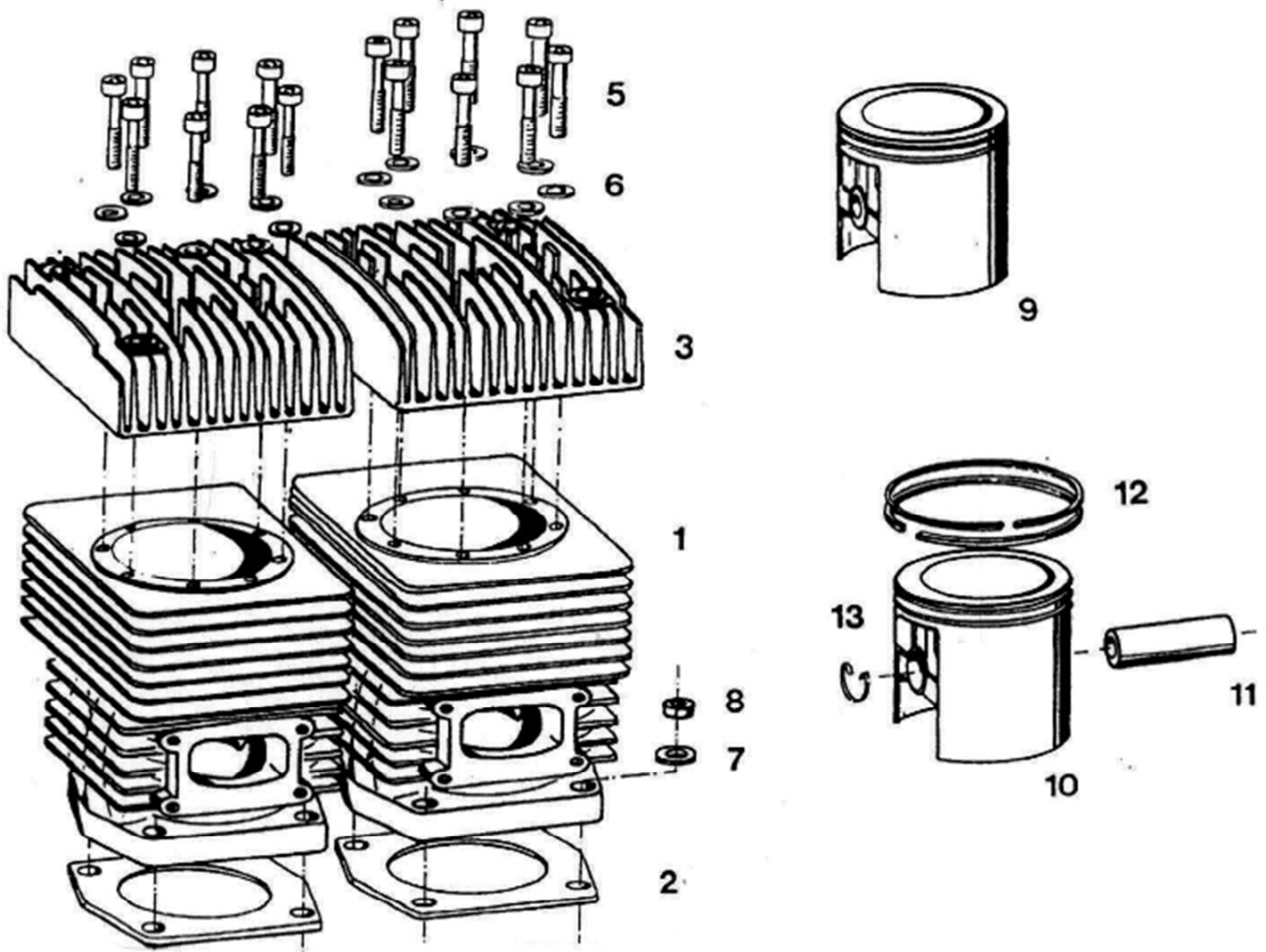


Fig. No.	Qty.	Description	Neoteric Part #	Remark / Notes
1	2	Cylinder	5860	
2	2	Cylinder base gasket	3433	
3	1	Cylinder head	6181	Single Ignition
5	16	Cylinder screw	6911	Torque = 11 Nm (8.1 ft-lb)
6	16	Washer	5994	
7	8	Washer	6162	
8	8	Hexagon head nut	6233	Torque = 23 - 26 Nm (17 - 19.2 ft-lb)
9	2	Piston set	5849	Includes Fig. 10, 11, 12, 13
10	2	Piston	7986	
11	2	Piston pin	7987	
12	4	Piston ring	6302	
13	4	Retaining ring	6301	

**Spare part list - 55 HP Single Ignition
Crankcase 2703**

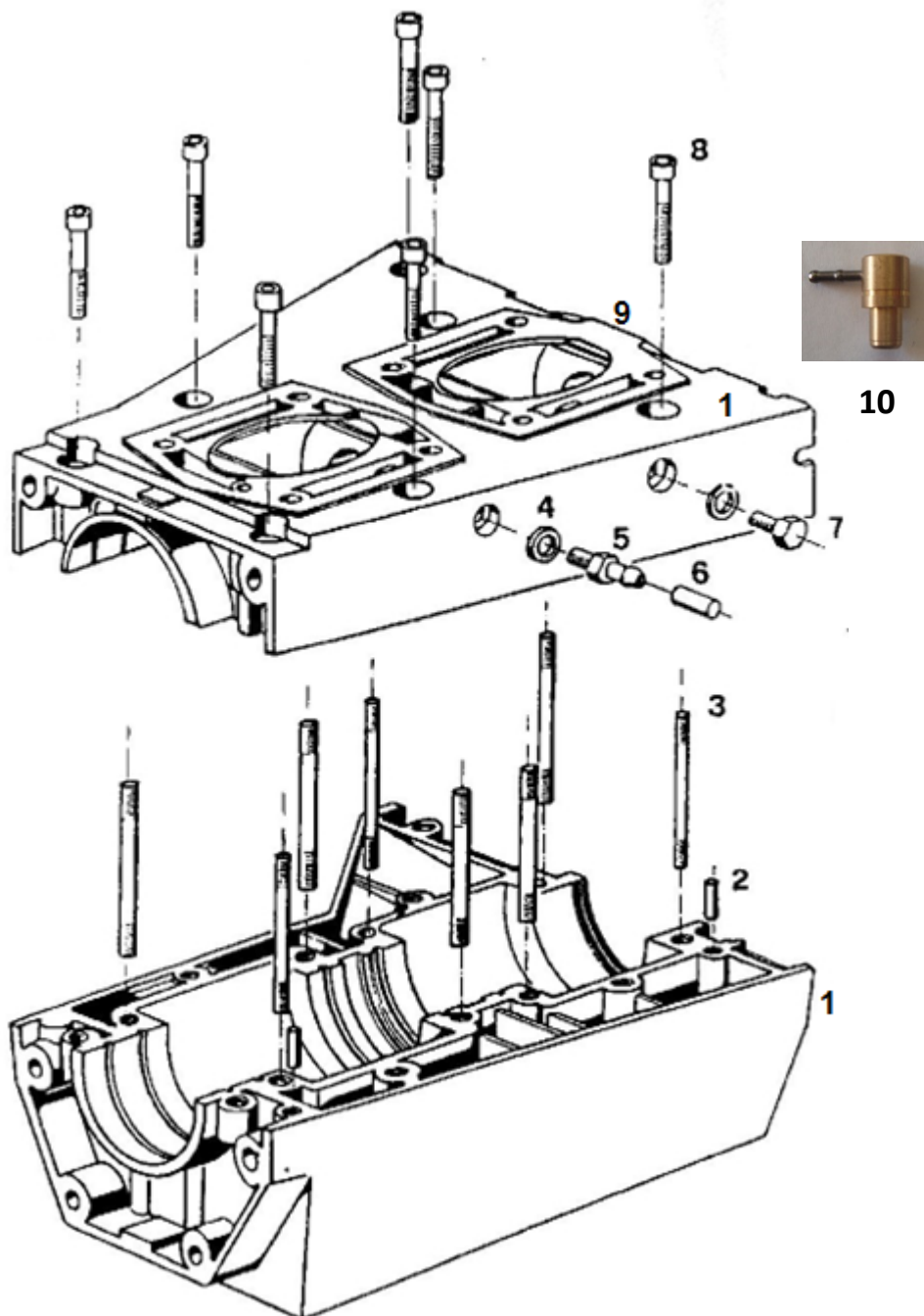


Fig No.	Qty.	Description	Neoteric Part #	Remark / Notes
1	1	Crankcase, complete	7935	Incl. Pos. 2. 3
2	2	Alignment pin	7936	
3	8	Stud screw	7163	Loctite 586
4	2	Sealing ring	5629	
5	1	Hose nipple	5630	
6	1	Rubber cap	7208	
7	1	Hexagon head screw	6927	
8	7	Cylinder screw	7937	Torque = 23 Nm (16.9 ft-lb) & Loctite 242
9	2	Cylinder Base Gasket	5455	See form 17749 for gasket set
10	1	Oil Injection Nipple	5490	Oil Inj. Engines With F.I.
		Rubber Gasket Sealant	7842	Use as crankcase gasket

Crankshaft 2703

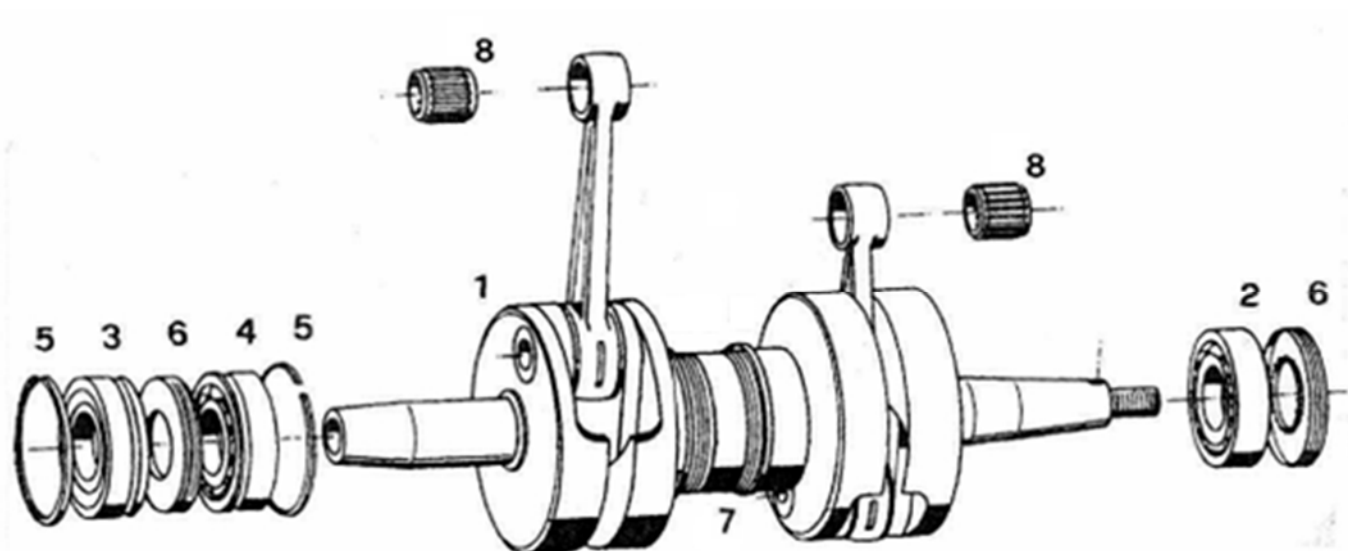


Fig. No.	Qty.	Description	Neoteric Part #	Remark / Notes
1	1	Crankshaft, complete	7911	Includes items 2 - 7
2	1	Deep groove ball bearing	5460	
3	1	Deep groove ball bearing	5461	
4	1	Deep groove ball bearing	5462	
5	2	Circlip	7912	
6	2	Shaft sealing ring	5453	
7	1	Space ring	7913	
8	2	Needle Bearing, Blue dot (#1)	7909	* Connecting Rods are Color-Coded with a Paint Dot on the Piston end. Engines built from 2010 onward also include a Number Code next to the Paint Dot. The coding corresponds to the correct Needle bearing size. (Approx 0.0003" [0.008mm] graduation between each size) Blue (#1) is the smallest and Green (#5) is the largest. Connecting rods with a Red (#3) dot are most common. If the paint dot is missing and no number code can be found, all bearings must be tried for the best fit.
		Needle Bearing, Yellow dot (#2)	6082	
		Needle Bearing, Red dot (#3)	6083	
		Needle Bearing, White dot (#4)	5464	
		Needle Bearing, Green dot (#5)	7910	

**55HP Exhaust Header Pipe
(Y-Pipe)**

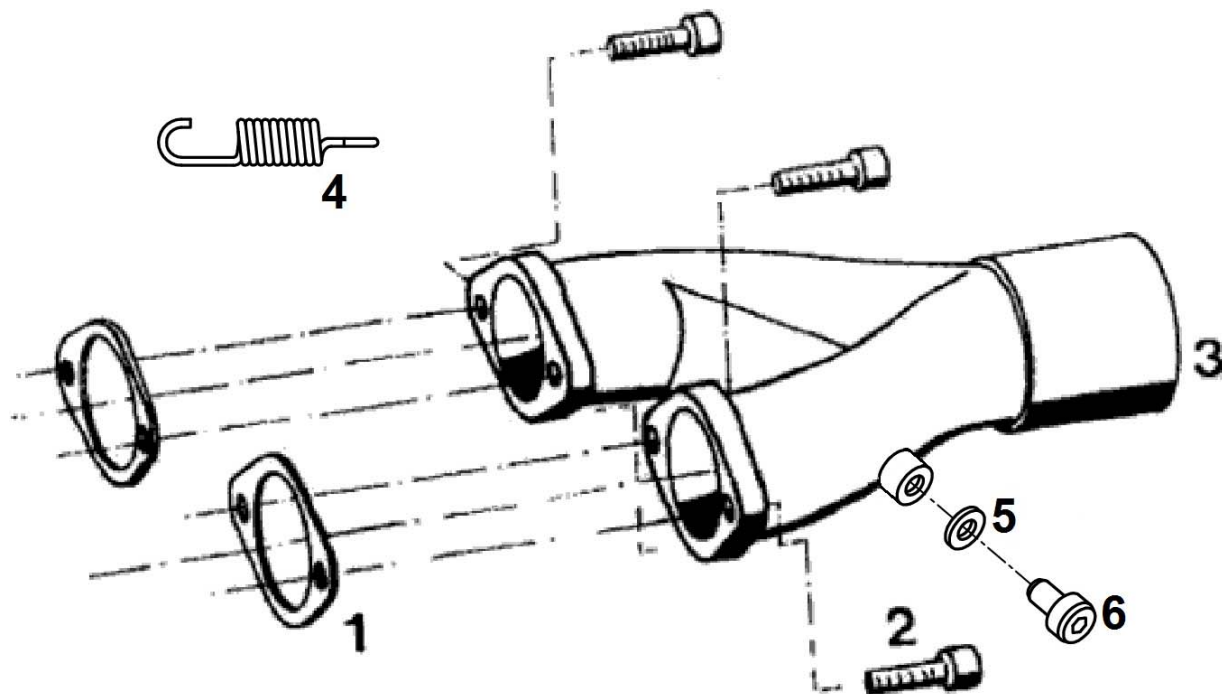


Fig. No.	Qty.	Description	Neoteric Part #	Remark / Notes
1	2	Exhaust gasket	5245	
2	4	Cylinder screw	6932	Torque = 23 - 26 Nm (16.9 - 19.2 ft-lb)
3	1	Exhaust manifold	5547	Prepared for temperature meas.
4	4	Exhaust Spring	5421	
5	2	Copper Washer	7077	EGT Plugs; used when no EGT is installed
6	2	M8x1x10 SHCS	6934	EGT Plugs; used when no EGT is installed

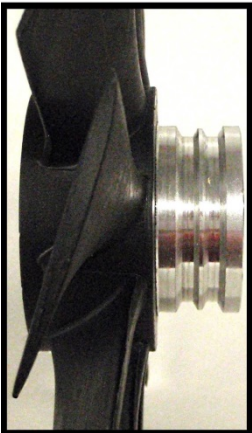
Fan cooling system 2703



Flat Belt
Cooling Fan
(Old Style)



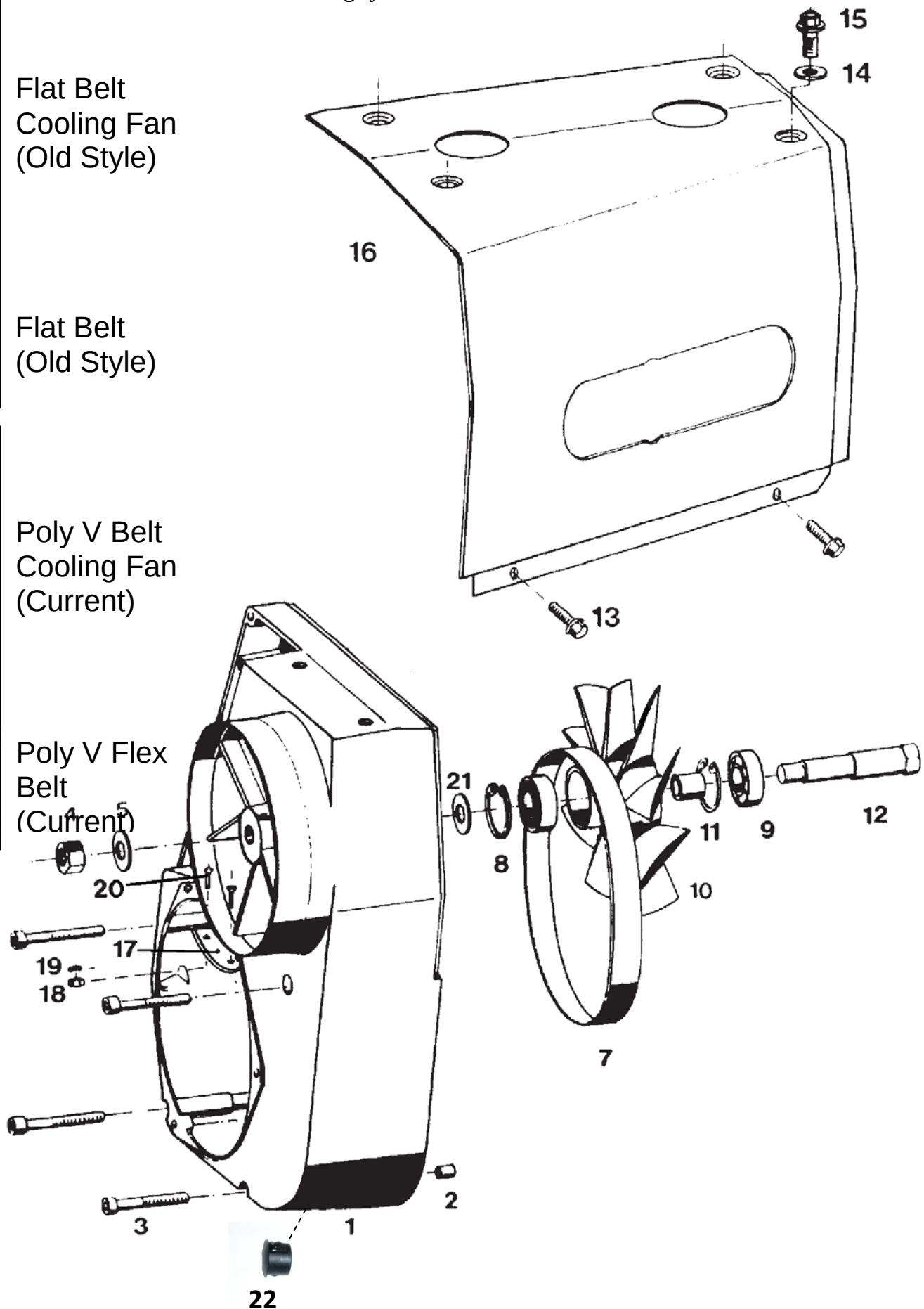
Flat Belt
(Old Style)



Poly V Belt
Cooling Fan
(Current)



Poly V Flex
Belt
(Current)



**55HP Cooling Fan System
(2703)**

Fig. No.	Qty.	Description	Neoteric Part #	Remark / Notes
1	1	Fan housing, complete	7938	Includes Fig No. 4, 5, 7, 8, 9, 10, 11, 12
2	3	Alignment sleeve	7939	
3	4	Cylinder screw	3258	Torque = 9.6 - 11 Nm (7.1 - 8.1 ft-lb)
4	1	Hexagon head nut	6855	Torque = 27 - 30 Nm (19.9 - 22.1 ft-lb)
5	1	Washer	6856	
7*	1	Flat belt	3409	*Used up to model year 2008 (Engine #901105 & Lower)
7	1	Poly V Flex belt	6390	Currently used, from 2008 onward (Engine #901106 & Higher)
8	2	Locking ring	7940	
9	2	Deep groove ball bearing	6887	
10*	1	Fan wheel Assy, Flat belt	3408 (5879 - rebuilt)	Incl. Pos. 8, 9, 10, 11 *Used up to model year 2008 (Engine #901105 & Lower)
10	1	Fan wheel Assy, Poly V	6391	Incl. Pos. 8, 9, 10, 11 Currently used, from 2008 onward (Engine #901106 & Higher)
-	-	Poly V Cooling System Conversion Kit	7457	Contains all parts required to convert engine from "Flat Belt" cooling system to "Poly V Belt" cooling system.
11	1	Bushing	7941	
12	1	Eccentric shaft	6857	
13	2	Thread screw	5987	
14	4	Washer	5996	
15	4	Thread screw	5997	
16	1	Air guide cowl	5346	
17	1	Metal plate	6183	
18	2	Hexagon head nut	2694	
19	2	Washer	7942	
20	2	Screw	2693	
21	1	Washer	7943	
22	1	Hole Plug	2449	Covers Hole In Housing

55HP Starting Device (2703)

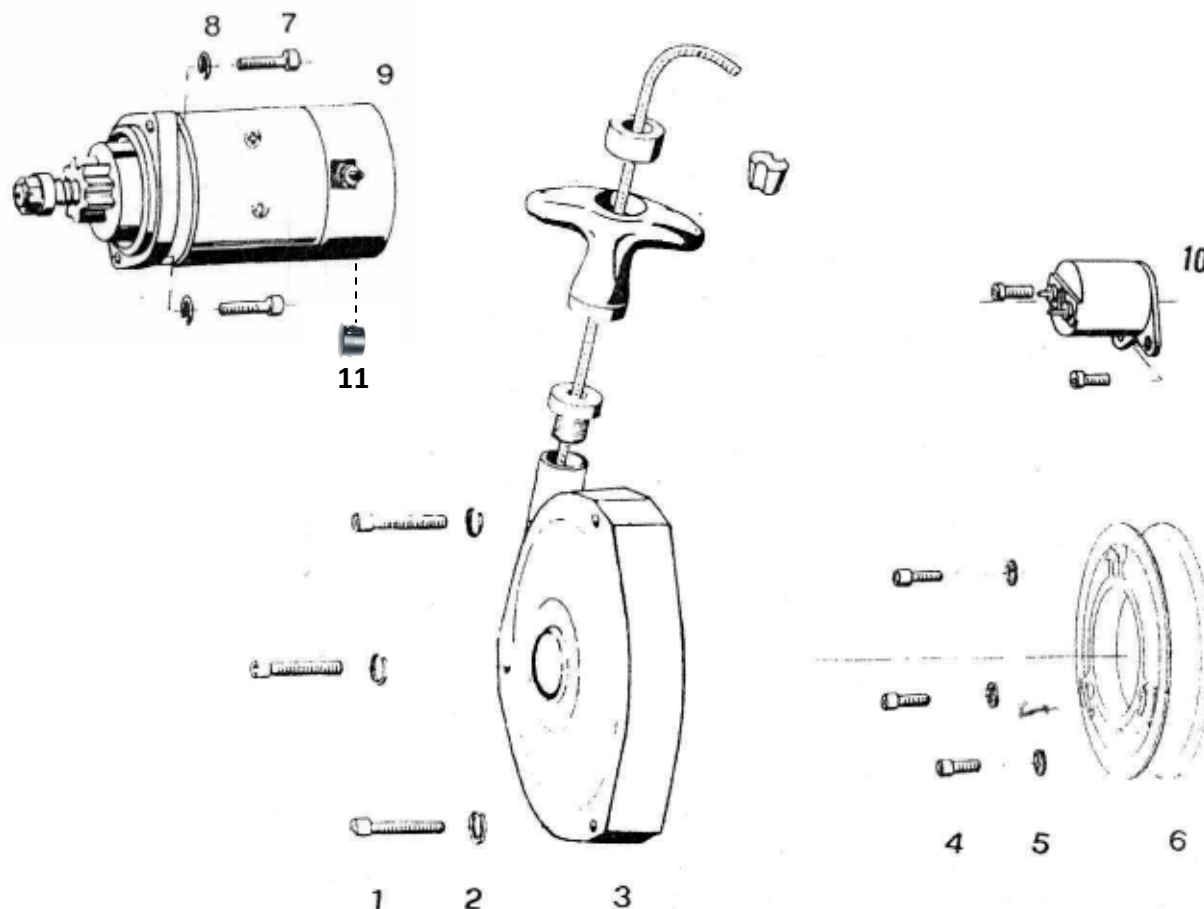


Fig. No.	Qty	Description	Neoteric Part #	Remark / Notes
1	3	Cylinder screw	6911	Torque = 9.6 - 11 Nm (7.1 - 8.1 ft-lb)
2	3	Spring ring	6940	
3	1	Starter, mounted	5267	
4	3	Cylinder screw	7944	Torque = 23 - 28 Nm (17 - 20.7 ft-lb)
5	3	Tab washer	5995	
6*	1	Driving dog with starter, Flat	6203	*Used up to model year 2008 (Engine #901105 & Lower)
6	1	Driving dog with starter, Poly-V	6389	Currently used, from 2008 onward (Engine #901106 & Higher)
7	2	Cylinder screw	2348	Torque = 23 - 28 Nm (17 - 20.7 ft-lb)
8	2	Tab washer	5995	
9	1	Electric Starter, Hirth	5545	
-	1	Electric Starter, Alternative	6498	
10	1	Starter Solenoid	5417	
11	1	Hole Plug	9172	Plugs Drain Hole In Starter

55/65HP Ignition System

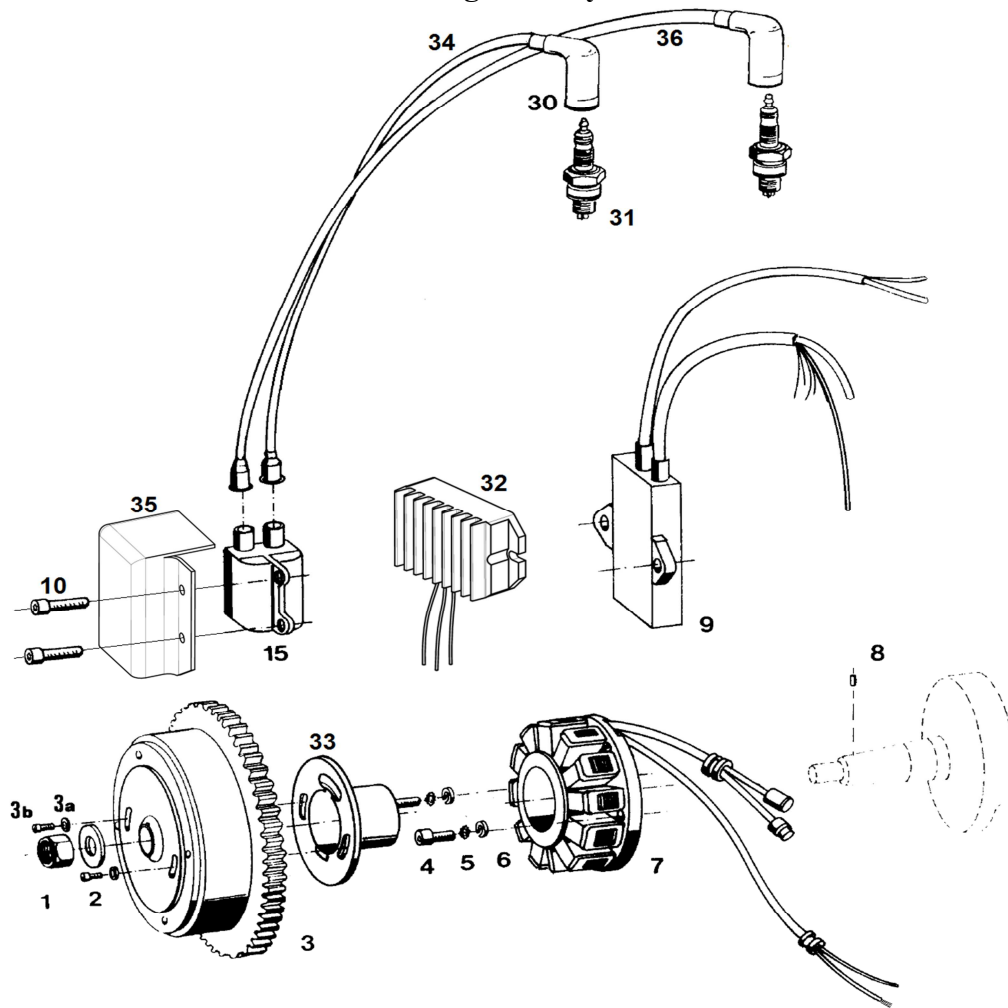


Fig. No.	Qty.	Description	Neoteric Part #	Remark/Notes
1	1	Hexagon head nut	6939	Torque = 140 - 150 Nm (103.3 - 110.6 ft-lb)
2	1	Washer	7196	
3	1	Flywheel with gear ring	7984	Includes fig. 3a, 3b, 33
4	2	Cylinder screw	7182	Neoteric does not stock
5	2	Washer	5994	
6	2	Washer	6936	Torque = 4 - 4.5 Nm (3 - 3.3 ft-lb)
7	1	Stator plate complete	5591	
8	1	Flywheel alignment pin	7985	
9	1	CDI - Box	5664	Mounted with silicone
10	2	Coil Mounting Screw	2469	
15	1	Ignition coil	5682	Includes fig. 15
30	2	Spark plug cap	5826	
31	2	Spark plug	5668	Do not mix spark plug types
32	1	Voltage Regulator	5338	
33	1	Magnet Support	5724	
34	1	Spark plug lead, short	5666	Wire only; does not include fig. 30
35	1	Coil spray guard	6683	
36	1	Spark plug lead, long	5665	Wire only; does not include fig. 30
-	-	Spark Plug lead set	5661	Includes fig. 30, 34, 36

NOTES:

1) 1 HALL EFFECT SENSOR ON
PLATE GENERATES TIMING PULSE.

2) ALWAYS USE SYSTEM 1.
SYSTEM 2 IS JUST A BACK UP.

BLACK: GROUND.

BROWN: HALL EFFECT POWER 10VDC.

RED: HALL EFFECT SIGNAL.

GRAY AND BLUE: CDI POWER.

DUAL SYSTEM

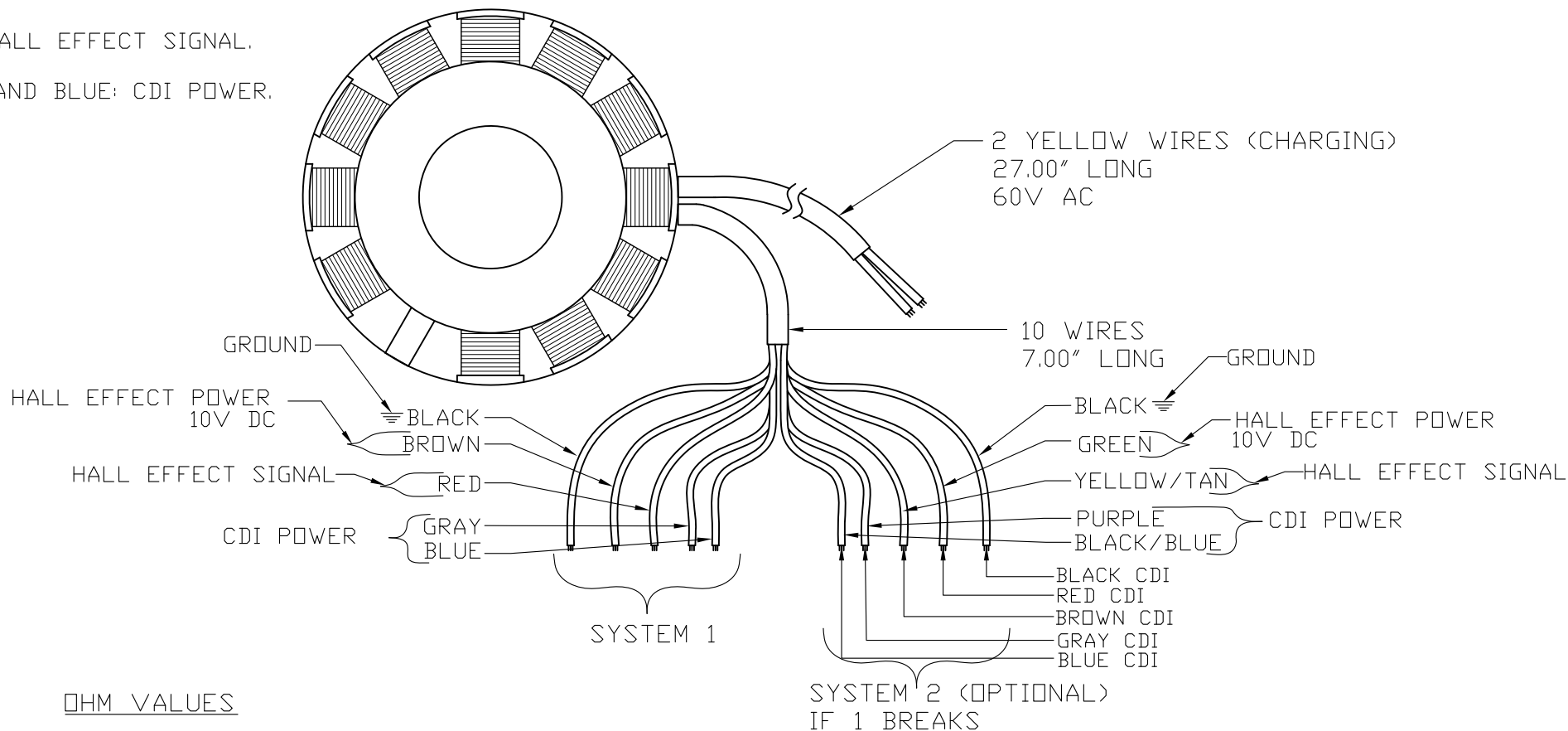
55/65HP MAGNETO

12 WIRES IN TOTAL

5 WIRES TO CDI.

5 WIRES REDUNDANT CDI (SYSTEM 2).

2 WIRE TO BATTERY CHARGE.



OHM VALUES

YELLOW & YELLOW: 0.4 ohm

BLACK & BLACK: 0.3 ohm

BLUE & GREY: 9.5 ohm

BLACK TO PLATE: 0.7 ohm

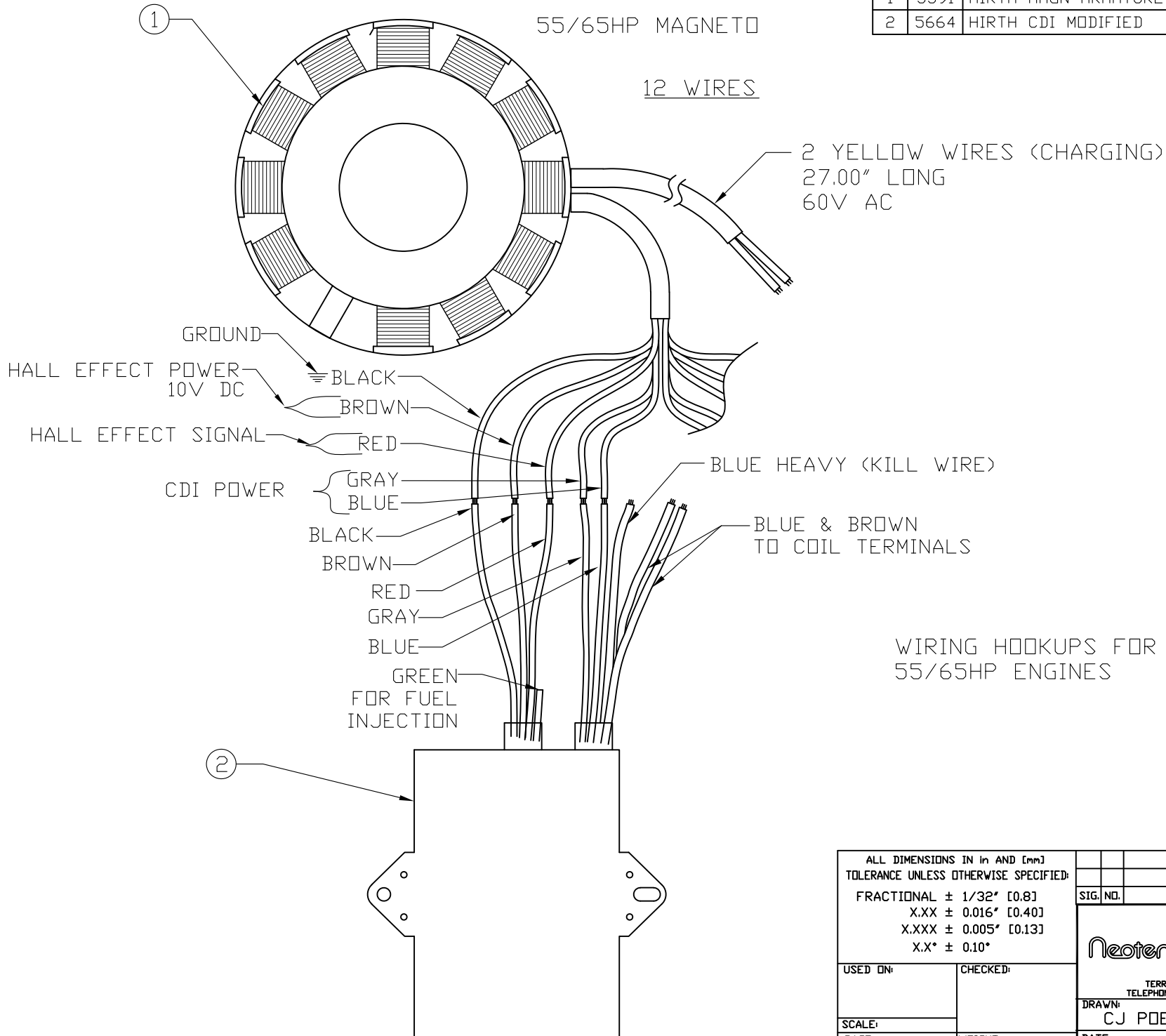
BILL OF MATERIAL			
REF.	PART #	DESCRIPTION	QTY.
X	XXXX	XXXX XXXX XXXX XXXX	X

ALL DIMENSIONS IN in AND [mm]			
TOLERANCE UNLESS OTHERWISE SPECIFIED:			
FRACTIONAL $\pm 1/32"$ [0.8]			
X.XX $\pm 0.016"$ [0.40]			
X.XXX $\pm 0.005"$ [0.13]			
X.X° $\pm 0.10^\circ$			
USED ON:	CHECKED:	SIG. NO.	REVISION
SCALE:	WEIGHT:	DATE:	NAME:
PAGE:			
1 OF 2		14 APR, 2016	CJ POEHLEIN
Neoteric Hovercraft Inc. 1649 TIPPECANOE STREET TERRE HAUTE, INDIANA, U.S.A. 47807-2394 TELEPHONE (812) 234-1120 FAX (812) 234-3217			
DRAWN:		NAME:	
CJ POEHLEIN		HIRTH 55/65HP MAGNETO ARMETUR PLATE	
NUMBER:		REV.	
16644		2	

DUAL SYSTEM

55/65HP MAGNETO

12 WIRES

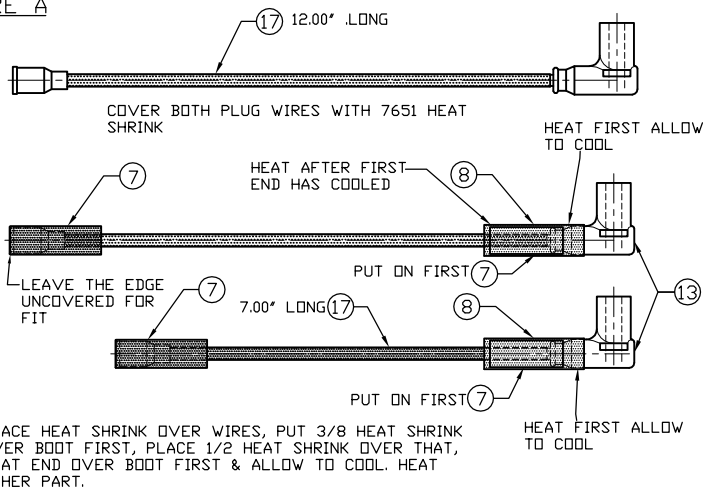


BILL OF MATERIAL			
REF.	PART #	DESCRIPTION	QTY.
1	5591	HIRTH MAGN ARMATURE PLATE & RESISTANCES	1
2	5664	HIRTH CDI MODIFIED	1

WIRING HOOKUPS FOR MAGNETO TO CDI
55/65HP ENGINES

ALL DIMENSIONS IN IN AND [mm] TOLERANCE UNLESS OTHERWISE SPECIFIED: FRACTIONAL $\pm 1/32"$ [0.8] X.XX $\pm 0.016"$ [0.40] X.XXX $\pm 0.005"$ [0.13] X.X° $\pm 0.10^\circ$		SIG.	NO.	REVISION	DATE
USED ON:		CHECKED:		 Neoteric Hovercraft Inc. 1649 TIPPECANOE STREET TERRE HAUTE, INDIANA, U.S.A. 47807-2394 TELEPHONE (812) 234-1120 FAX (812) 234-3217	
SCALE:		DRAWN:			
PAGE: 2 OF 2		NAME: CJ POEHLEIN			
WEIGHT:		DATE: 28 JUNE, 2016		NUMBER: 16644 REV. 2	

FIGURE A



BILL OF MATERIAL					
REF.	PART #	DESCRIPTION	QTY.	OPT.	
1	2209	TERM. FITTING	11		
2	2371	WIRE TIE	6		
3	2372	WIRE TIE	6		✓
4	2378	SEALANT/ADHESIVE, BLACK	20		
5	2520	DIELECTRIC GREASE	10		
6	2732	STAINLESS STEEL SOLDERING FLUX	2		
7	3191	HEAT SHRINK	8		
8	3192	HEAT SHRINK	4		
9	3305	PLASTC LIQUID ELECTRIC COATING	10		✓
10	3431	SOLDER	1.5		
11	5334	HIRTH CDI UNIT PVL 55/65HP	1		
12	5335	HIRTH COIL 55/65HP	1		
13	5661	PVL SPARK PLUG WIRE ASSEMBLY PAIR	1		
14	5664	MODIFIED HIRTH CDI	1		✓
15	5682	MODIFIED HIRTH COIL	1		✓
16	7650	HEAT SHRINK W/ ADHESIVE, BLACK	10		
17	7651	HEAT SHRINK W/ ADHESIVE, BLACK	28.5		
18	9180	SALT WATER COIL/CDI PROTECTION BAG	1		

ORDER OF OPERATIONS

- 1) PUT HEAT SHRINK ON PLUG WIRES AS SHOWN IN FIGURE A.
- 2) EXTEND ALL WIRES AS SHOWN IN FIGURE B.
- 3) FIT TERMINAL FITTING ON WIRES AS SHOWN.
* DO NOT FIT TERM. TO BROWN OR BLUE WIRE
- 4) CUT TABS OFF COIL USING BANDSAW. FIGURE C.
- 5) BOND COIL TO CDI AS SHOWN IN FIGURE D.
- 6) ROUTE BROWN AND BLUE WIRE AND SOLDER AS SHOWN IN FIGURE D.
- 7) FIT PLUG WIRES TO COIL & TIE WITH WIRE TIES.
- 8) GOOD SOLDERED TERMINALS OF COIL AS SHOWN IN FIGURE E.
- 9) PLACE IN NEOPRENE BAG #9180.

FIGURE B

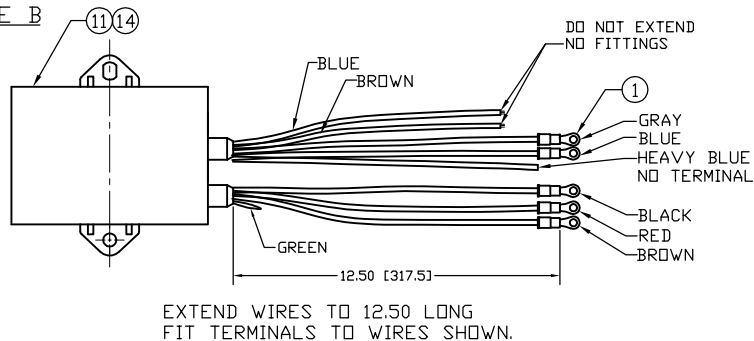


FIGURE C

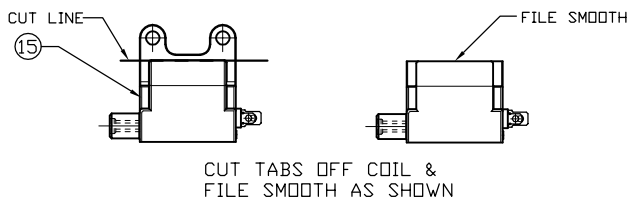


FIGURE D

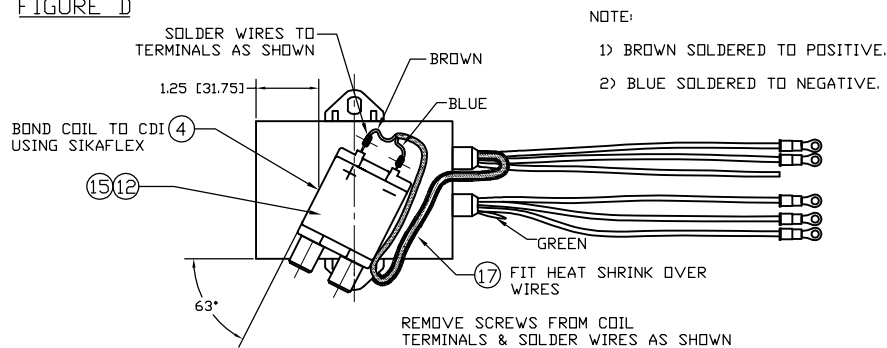
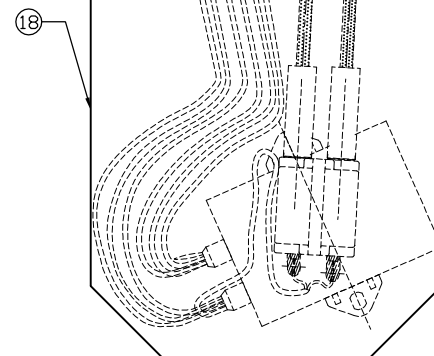
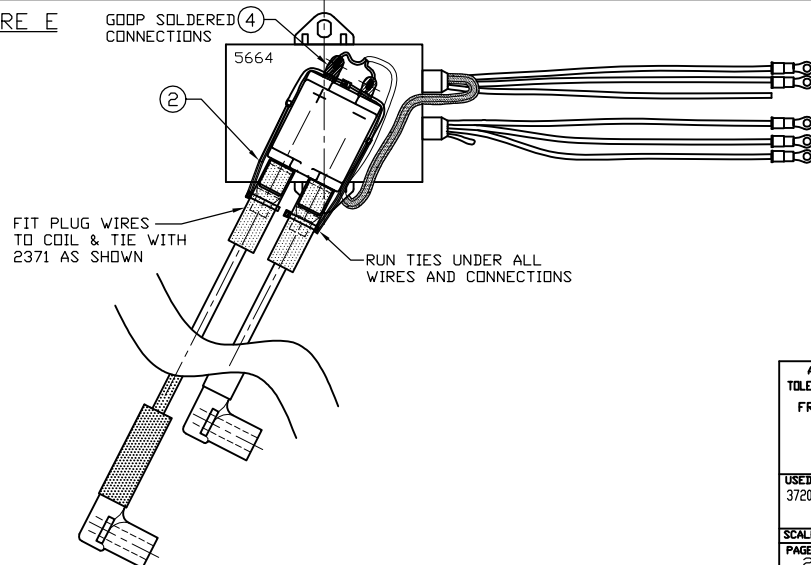


FIGURE E



ALL DIMENSIONS IN IN AND (MM)					
TOLERANCE UNLESS OTHERWISE SPECIFIED:					
FRACTIONAL ± 1/32" [0.8]		SIG. NO.	REVISION	DATE	
X.XX ± 0.016" [0.40]					
X.XXX ± 0.005" [0.13]					
X.X" ± 0.10"					
USED ON	CHECKED:	 Neoteric Hovercraft Inc. 1649 TIPPECANOE STREET TERRE HAUTE, INDIANA 47607-2394 TELEPHONE (812) 234-1120 FAX (812) 234-3217			
3720					
SCALE:	WEIGHT:	DRAWN:	NAME: HIRTH 55/65HP		
		CJ POEHLIN	COIL/COIL SALT WATER ASSEMBLY		
PAGE:	DATE:	NUMBER:	REV.		
2 OF 2	14 APR, 2017	16461			

Hirth HT4 Air Box Assembly

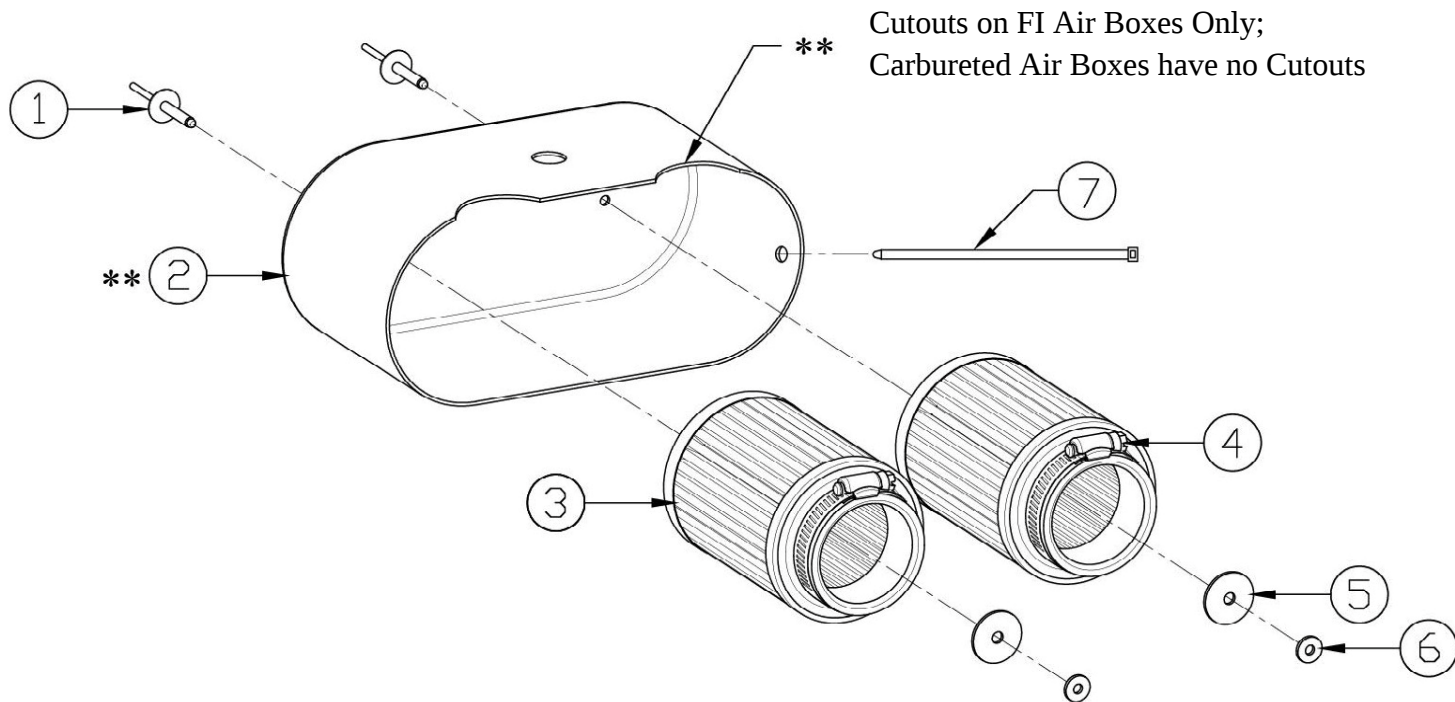


Fig. No.	Qty	Designation	Neoteric Part #	Remark
1	2	Rivet	2156	
2	1	Fiberglass Air Box, Carbureted	5584	
2	1	Fiberglass Air Box, FI	7764	
3	2	Air Filter	6622	Includes item 4
4	2	Hose Clamp	-	
5	2	Large Washer	2516	
6	2	Small Washer	2352	
7	2	Wire Tie	2371	Safety tie
-	-	Air Box Assembly, Carbureted	5583	Includes item 1 - 7 as shown above
-	-	Air Box Assembly, FI	7765	Includes item 1 - 7 as shown above

**55HP Fuel Mixture, 2-Carb Sys
(2703)**

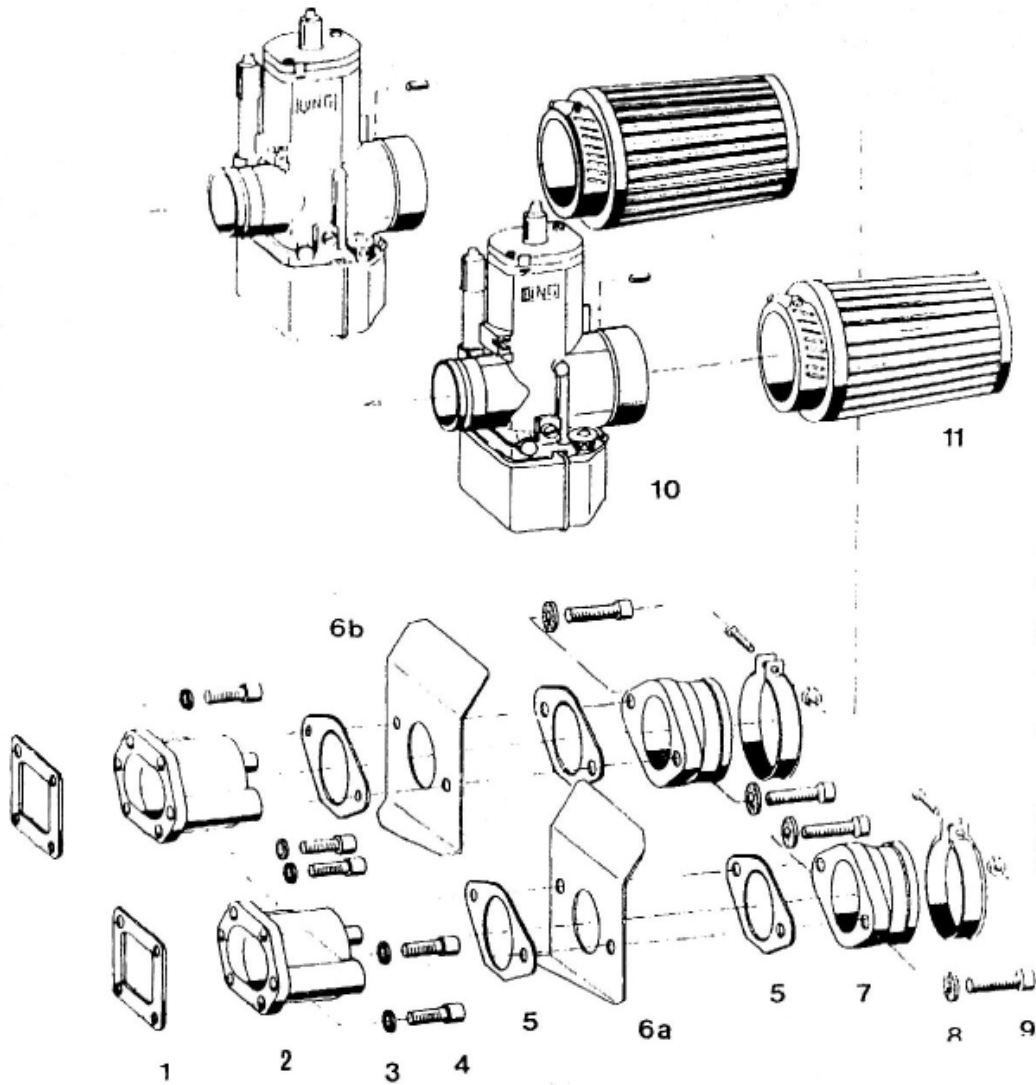
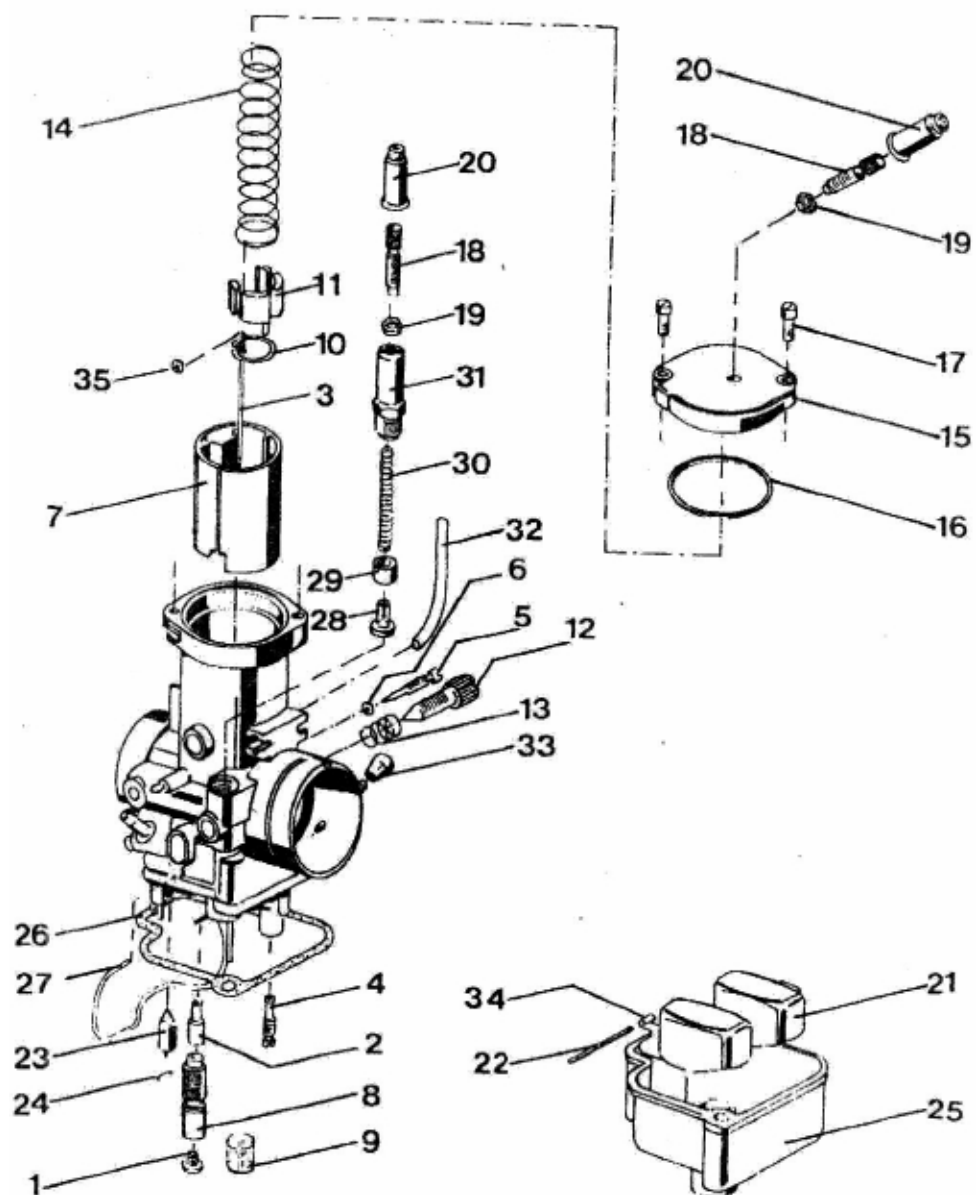


Fig. No.	Qty	Description	Neoteric Part #	Remark / Notes
1	2	Gasket	7949	
2	2	Intake manifold	7948	
3	8	Serrated lock washer	6902	
4	8	Cylinder screw	2292	Torque = 9.6 - 11 Nm (7.1 - 8.1 ft-lb)
5	4	Gasket	5454	
6a	1	Heat shield plate, right	7950	
6b	1	Heat shield plate, left	7951	
7	2	Intake Boot	6567	
8	4	Tab washer	7952	
9	4	Cylinder screw	7953	Torque = 23 - 28 Nm (17 - 20.1 ft-lb)
10	2	BING carburetor	5333	Main Jet:160, Idle Jet:45, Needle Jet: 2.72 Jet Needle 6P2 Pos:1, Air screw: 0.5-1
11	2	Air filter	6622	* See Form 16619 for Air filter system details

Carburetor 2703



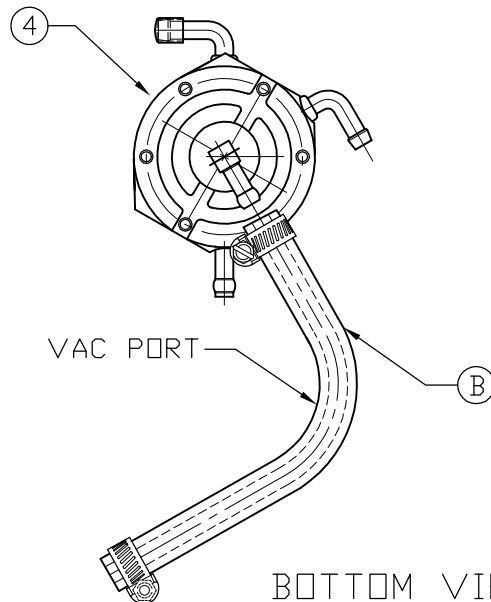
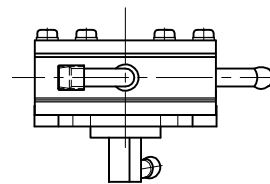
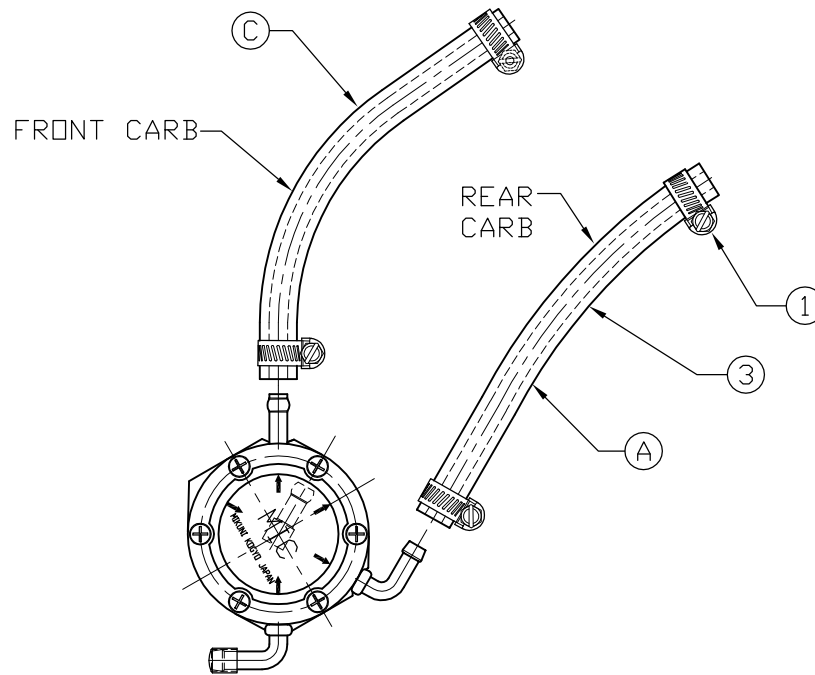
**55HP Hirth Bing Carburetor Parts
(2703)**

Fig. No.	Qty	Description	Neoteric Part #	Remark / Notes
1	1	Main jet	-	See form 16642 for all Bing Jets
2	1	Needle jet	-	
3	1	Jet needle	-	
4	1	Idle jet	-	
5	1	Idle Screw	7954	
6	1	Idle Screw O-Ring	7955	
7	1	Throttle slide	7956	
8	1	Mixture tube	7957	
9	1	Sieve Sleeve	7958	
10	1	Bracket plate	6974	
11	1	Spring Cup	7959	
12	1	Adjusting screw	7960	
13	1	Adjustment Screw Spring	7961	
14	1	Slide Spring	7962	
15	1	Cover plate	7963	
16	1	Cover Plate O-Ring	7964	
17	2	Cover Plate Screw	7965	
18	1	Adjusting screw	6105	
19	1	Nut	6106	
20	2	Socket	6113	
21	2	Float	7966	
22	1	Float Pivot Pin	7967	
23	1	Float Needle	7968	
24	1	Float Needle Clip	7969	
25	1	Float chamber	7973	
26	1	Bowl Gasket	7974	
27	1	Bowl Clip	7975	
28	1	Choke Piston	7976	
29	1	Choke Sleeve	7977	
30	1	Choke Spring	7978	
31	1	Choke housing	7979	
32	2	Vent Tube	7980	
33	1	Rubber cap for primer connection	7981	
34	1	Float chamber	7982	
35	1	Jet Needle O-ring	7983	
-	-	Rebuild Kit	6286	Includes fig. 6, 9, 16, 20, 22, 23, 26

**55HP Hirth Bing Carburetor Jets
(2703)**

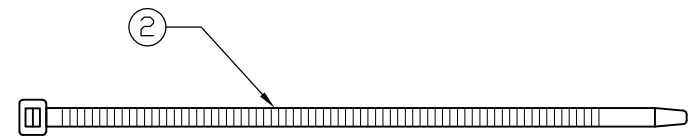


Fig. No.	Qty	Description	Neoteric Part #	Remark / Notes
1	1	Main Jet, 148	5759	
		Main Jet, 155	5474	
		Main Jet, 158	5473	
		Main Jet, 160	5876	
		Main Jet, 162	5890	
		Main Jet, 165	5891	
		Main Jet, 170	6196	
		Main Jet, 180	6195	
2	1	Needle Jet, 2.62	5757	
		Needle Jet, 2.68	5758	
		Needle Jet, 2.7	5725	
		Needle Jet, 2.72	6177	
3	1	Jet Needle, 6P2	6976	
4	1	Idler Jet, 45	6519	
		Idler Jet, 50	6521	



BOTTOM VIEW

BILL OF MATERIAL			
REF.	PART #	DESCRIPTION	QTY.
1	2203	HOSE CLAMP, SS	6
2	2371	WIRE TIE	1
3	3000	FUEL HOSE, BLACK	38.25
4	5465	FUEL PUMP	1



REF.	LENGTH
A	15.00
B	12.50
C	10.75

ALL DIMENSIONS IN IN AND [mm] TOLERANCE UNLESS OTHERWISE SPECIFIED:			
X.XX ± 0.016" [0.40]			
X.XXX ± 0.005" [0.13]			
# REQUIRED:	CHECKED:	SIG. NO.	REVISION
SCALE:	EW3 12-JAN-2015 CJ173 12-JAN-2015	DATE	
PAGE: 1 OF 1	WEIGHT:		
		1649 TIPPECANOE STREET TERRE HAUTE, INDIANA, U.S.A. 47807-2394 TELEPHONE (812) 234-1120 FAX (812) 234-3217	
DRAWN: CJ POEHLEIN		NAME: BING FUEL PUMP ASSY.	
DATE: 7 MAR, 2013		NUMBER: 16643	
		REV. 2	

**55HP Gasket Set
(2703)**

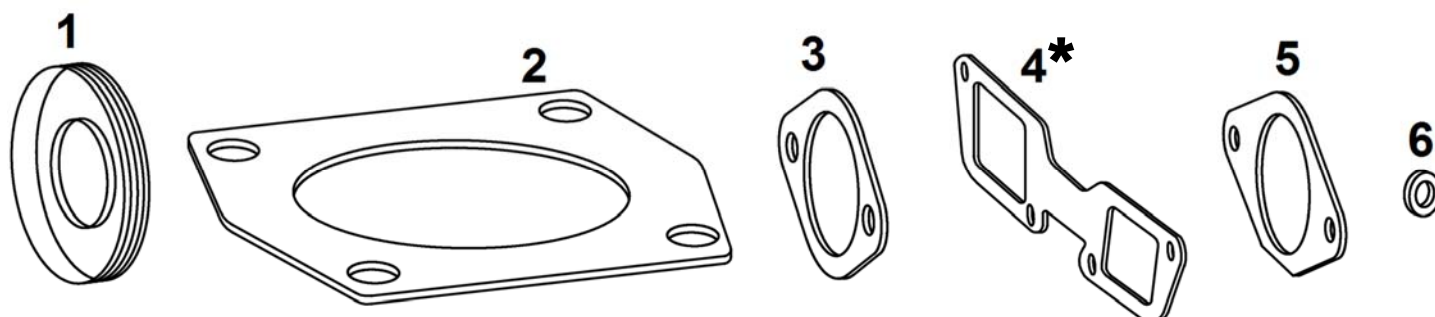
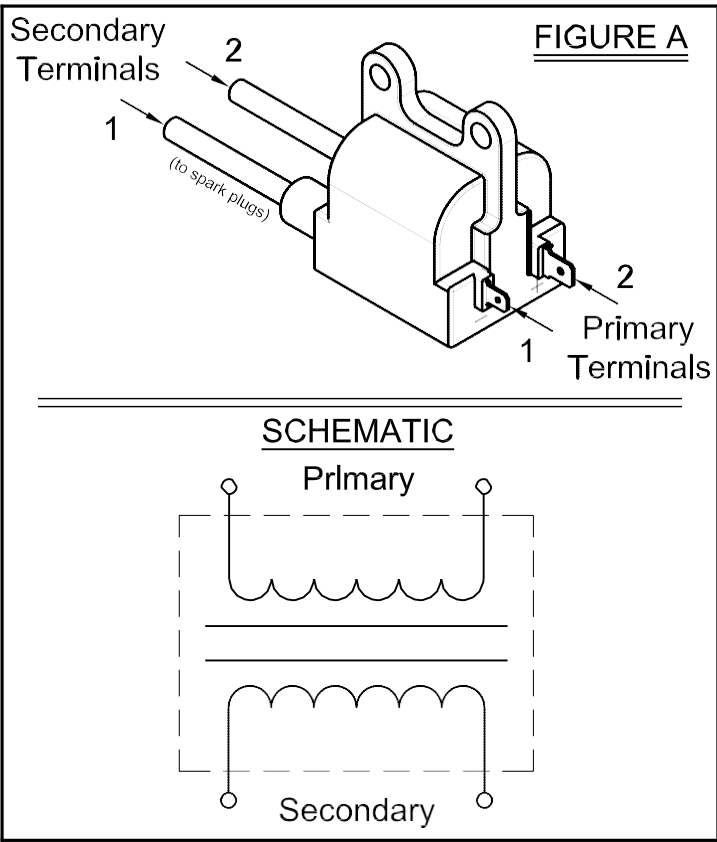
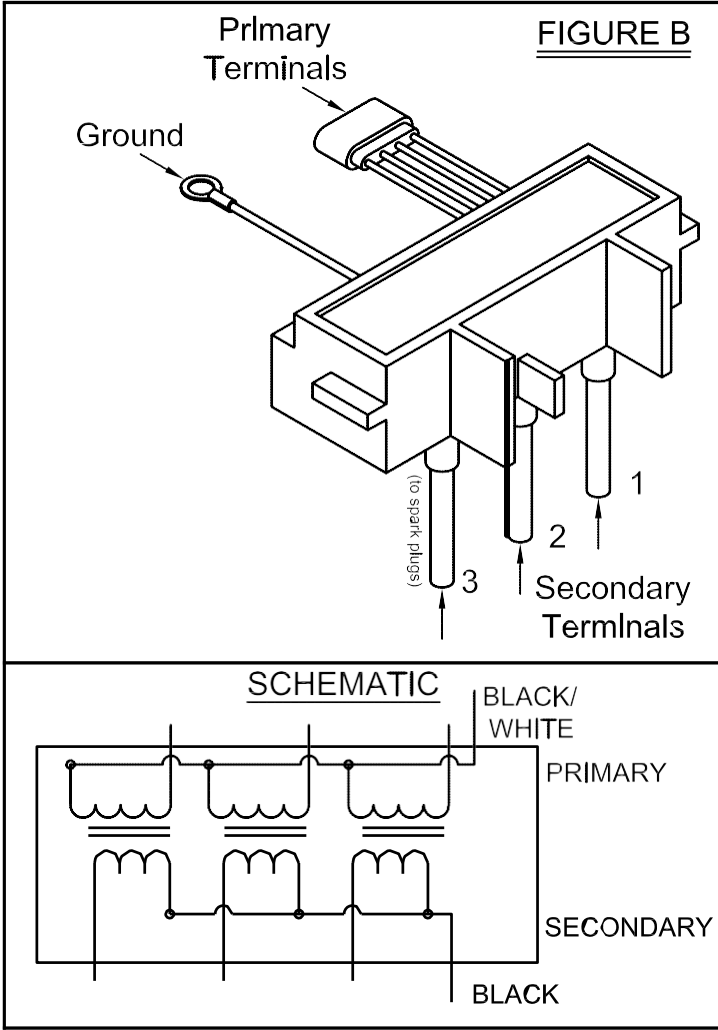
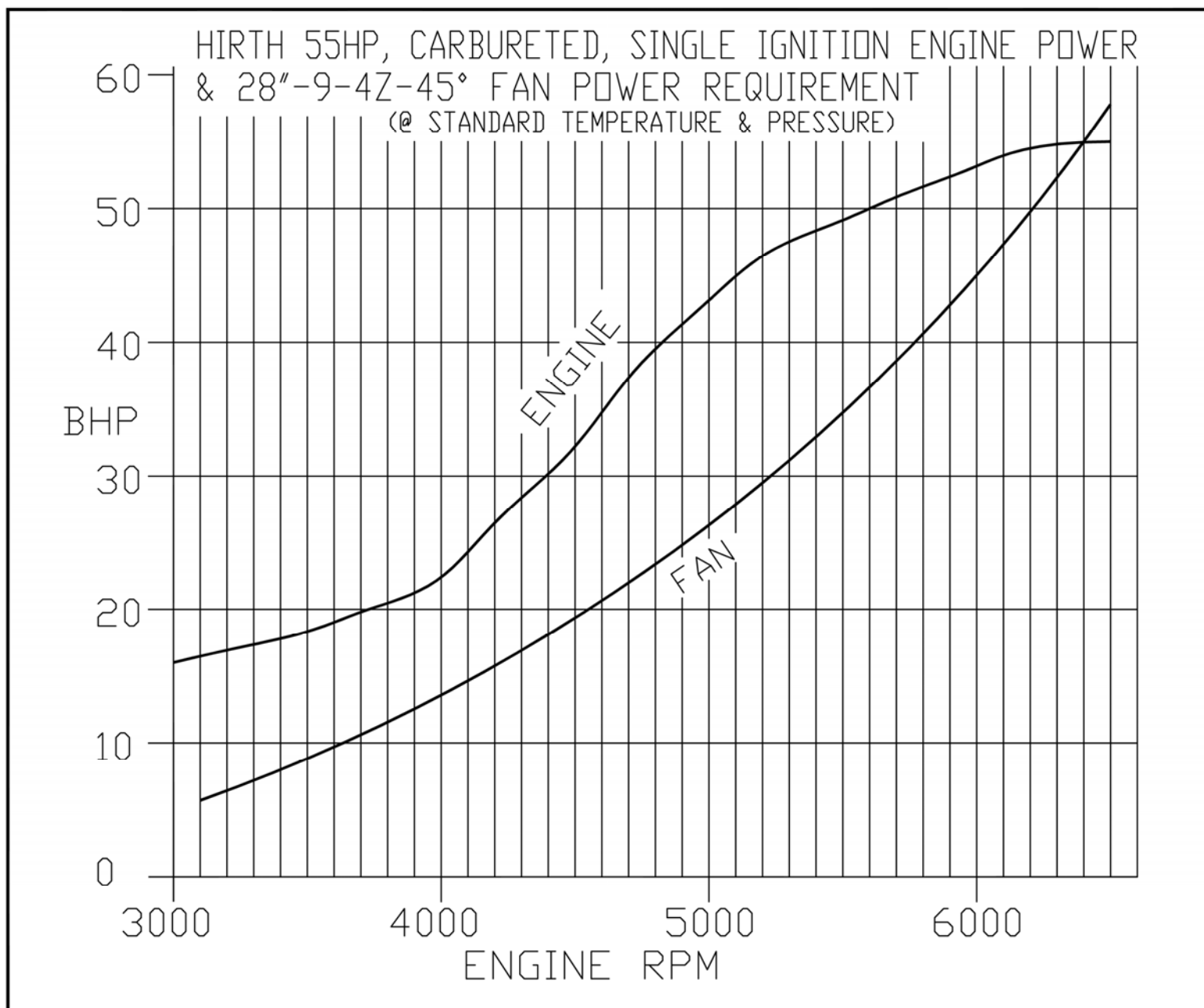


Fig. No.	Qty.	Description	Neoteric Part #	Remark / Notes
-	1	55HP Gasket Set	5861	Includes Fig 1, 2, 3, 4, 5, 6
1	2	Crankshaft Seal	5453	
2	2	Cylinder Base Gasket	3433	
3	2	Exhaust Outlet Gasket	5245	
4*	1	<i>Single Carb Intake Gasket</i>	-	<i>* Not Used</i>
5	2	Intake Boot Gasket, Oval	5454	
6	2	Vacuum Nipple Gasket Washer	5629	Not Used

HIRTH ELECTRICAL COMPONENT RESISTANCE VALUES					
Volt Meter Terminal 1 (Red Lead)	Volt Meter Terminal 2 (Black Lead)	Value	Unit	Part	Notes
Yellow Wire	Yellow Wire	0.080	Ohm	5591 - 55/65Hp Stator Coil (Magneto)	
Yellow Wire	Mount Plate	450000000 - 550000000	Ohm		
Primary 1	Primary 2	0.351 - 0.429	Ohm	5682 - 55/65Hp Ignition Coil	See Figure "A"
Primary	Secondary	450000000 - 550000000	Ohm		
Secondary 1	Secondary 2	2699.1 - 3298.9	Ohm		
Black & Green Wire	Black & White Wire	0.396 - 0.484	Ohm	6097 - 100Hp Ignition Coil	See Figure "B"
Yellow & Brown Wire	Black & White Wire	0.405 - 0.495	Ohm		
Black & Blue Wire	Black & White Wire	0.387 - 0.473	Ohm		
Ground	Black & White Wire	450000000 - 550000000	Ohm		
Secondary 1	Ground	1385.1 - 1747.9	Ohm		
Secondary 2	Ground	1386 - 1694	Ohm		
Secondary 3	Ground	1386 - 1694	Ohm		
Yellow Wire	Yellow Wire	0.100	Ohm	6564 - 100Hp Stator Coil (Magneto)	
Black	Red	2.950	Volts (DC)	5338 - Hirth Voltage Regulator	* Must have a multi-meter with a diode test to diagnose voltage regulator
Red	Black	> 5.000	Volts (DC)		
Yellow	Yellow	2.300	Volts (DC)		



55HP Hirth Engine/Fan Power Requirement Graph



55HP Fan Altitude Performance Graph

