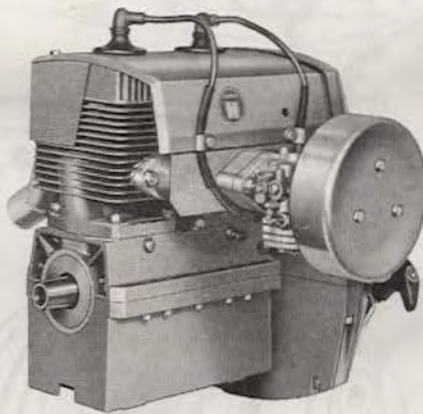




Spare Parts List

ISSUE MM-311-A

MODELS
210R • 211R • 220R

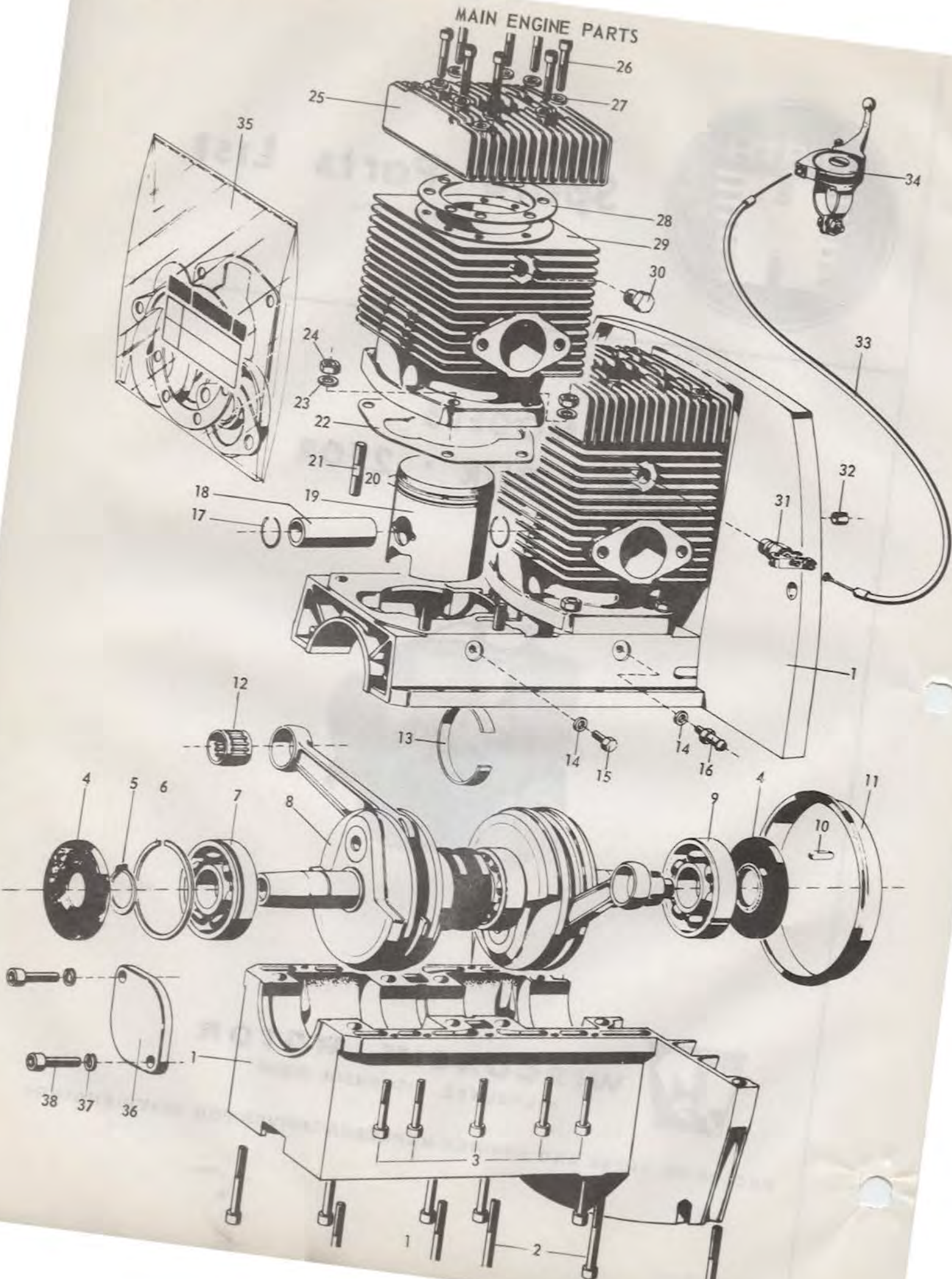


WISCONSIN MOTOR

MILWAUKEE, WISCONSIN 53246

EXCLUSIVE SALES AND SERVICE REPRESENTATIVES FOR HIRTH ENGINES

MAIN ENGINE PARTS



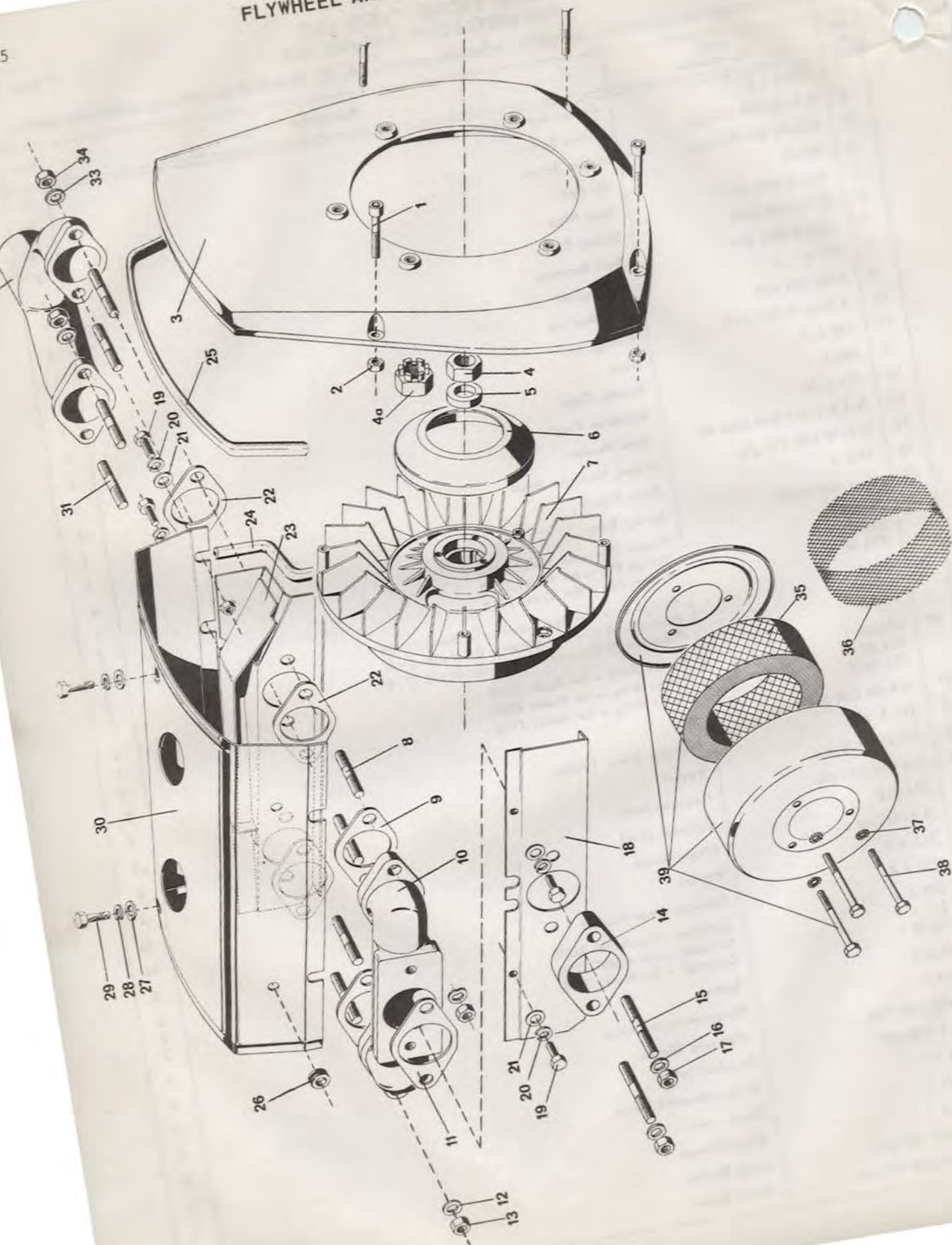
MAIN ENGINE PARTS LIST FOR MODELS 210R, 211R AND 220R

Figure 14

Parts are identical for all models, except for reference numbers 18, 19, 20 and 29 as noted by model designation.

Ref. No.	Hirth Part Number	Description	Qty.
1	210 B 2 U	Crankcase Complete	1
2	M 8x50 DIN 912 glz.	Ellern Screw	10
3	M 6x30 DIN 912 glz.	Ellern Screw	10
4	055.21	Oil Seal	2
5	30x1.5 DIN 471	Snap Ring	1
6	Sp 72 DIN 5417	Spring Ring	1
7	6306 N DIN 625	Ball Bearing	1
8	211 A 1 U	Crankshaft	1
9	6306 DIN 625	Ball Bearing	1
10	A 6x6x14 DIN 6885	Fitting Key	1
11	160 A 5	Ring	1
12	046.6	Needle Cage	2
13	211 A 10	Distance Ring	1
14	A 6.5x9.5x2 DIN 7603 AL	Joint Washer	2
15	M 6x10 DIN 933 glz.	Screw, Hexagon Head	1
16	50 K 4	Hose Nipple	1
17	C 18 DIN 73123	Spring Ring	4
18	014.30/4 014.29/4 014.36/4	Piston Pin – for Model 220R Piston Pin – for Model 210R Piston Pin – for Model 211R	2 2 2
19	014.30 014.29 014.36	Piston with Pin and Rings – for Model 220R Piston with Pin and Rings – for Model 210R Piston with Pin and Rings – for Model 211R	2 2 2
20	014.30/1 014.29/1 014.36/1	Piston Ring – for Model 220R Piston Ring – for Model 210R Piston Ring – for Model 211R	4 4 4
21	M 8x28 DIN 835 glz.	Stud	8
22	212 A 2	Cylinder Base Gasket	2
23	8.4 DIN 125 glz.	Washer	8
24	M 8 DIN 934 gls.	Hexagon Nut	8
25	212 A 3	Cylinder Head	2
26	M 6x35 DIN 912 glz.	Ellern Screw	16
27	212 A 5	Washer	16
28	212 A 6	Cylinder Head Gasket	2
29	222 A 1 212 A 1 212 B 1	Cylinder – for Model 220R Cylinder – for Model 210R Cylinder – for Model 211R	2 2 2
30	19 S 1	Screw	2
31	058.2	Decompression Valve	2
32	8x10 DIN 7346	Clamping Sleeve	4
33	17 M 1 U/450	Bowden Cable	2
34	049.11	Clamp Mounted Lever	2
35	Di 22/1	Gasket Set	1
36	195 A 1	Blind Flange	1
37	B 8 DIN 127 glz.	Lock Washer	2
38	M 8x30 DIN 912 glz.	Ellern Screw	2

FLYWHEEL AND MANIFOLD PARTS



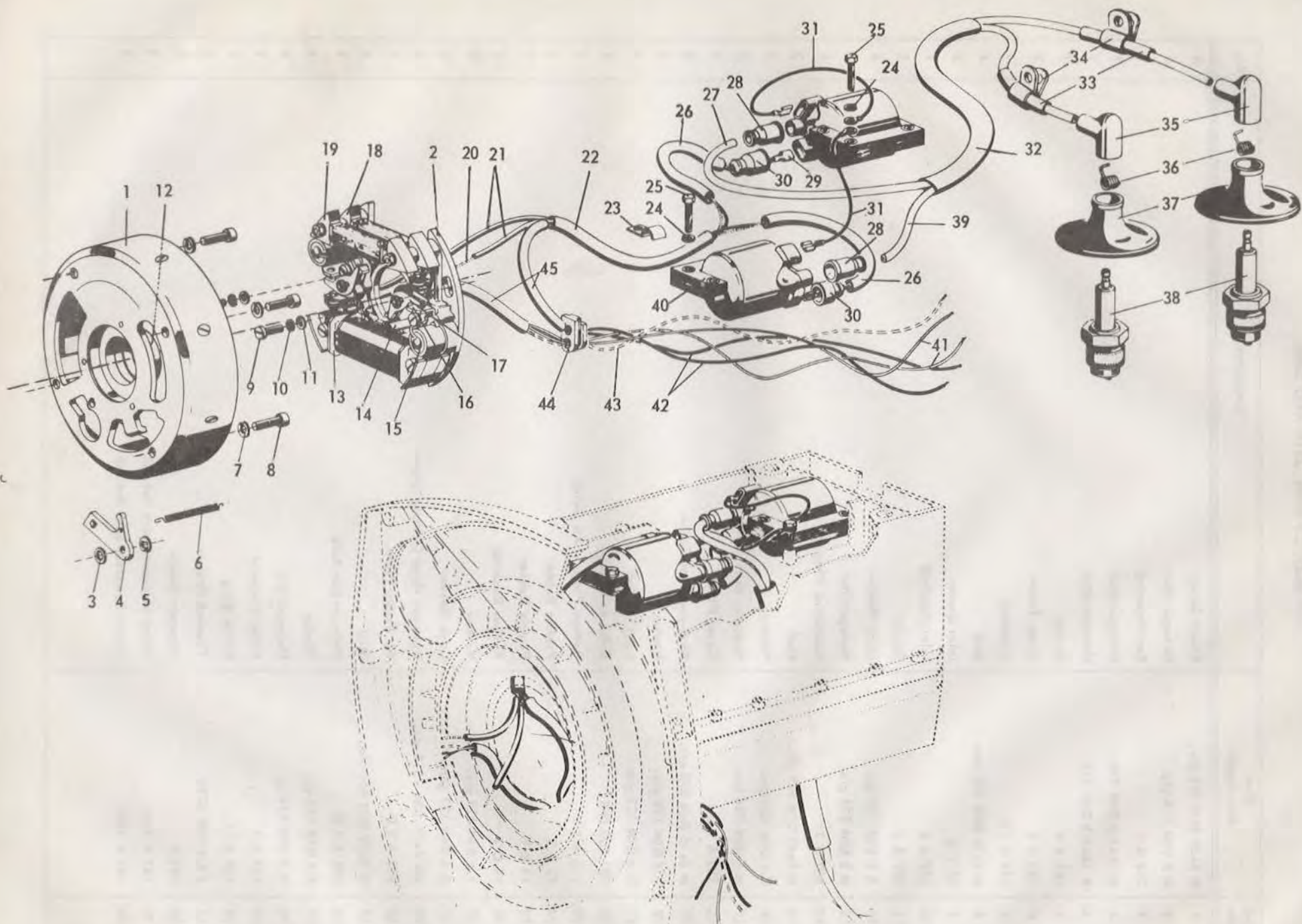
FLYWHEEL AND MANIFOLD PARTS
FOR MODELS 210R, 211R AND 220R

Figure 15

Ref. No.	Hirth Part Number	Description	Qty.
1	M 6x30 DIN 912 glz.	Ellern Screw	4
2	M 6 DIN 934 glz.	Hexagon Nut	4
3	213 A 1	Fan Housing	1
4	M 16x1.5 DIN 934	Hexagon Nut	1
4a	M 16x1.5 DIN 935	Hexagon Nut	1
5	161 A 6	Washer	1
6	193 D 3	Cover Plate	1
7	193 D 1 U	Flywheel	1
8	M 8x18 DIN 940 glz.	Stud	4
9	57 Y 6	Inlet Gasket	2
10	217 A 2	Inlet Manifold	1
11	207 A 2	Gasket	1
12	B 8 DIN 137 glz.	Lock Washer	4
13	M 8 DIN 934 glz.	Hexagon Nut	4
14	207 A 1	Insulating Flange	1
15	M 8x45 DIN 939 glz.	Stud	2
16	8.4 DIN 125 glz.	Washer	2
17	M 8 DIN 934 glz.	Hexagon Nut	2
18	213 A 9 U	Cover Plate	1
19	M 6x15 DIN 933 glz.	Hexagon Head Screw	5
20	7.4 DIN 125 glz.	Washer	5
21	B 6 DIN 127 glz.	Lock Washer	5
22	901.300.008	Exhaust Gasket	4
23	213 A 6 U	Bottom Plate — Air Guide	1
24	13 B 5	Profile Rubber	1
25	13 B 1	Profile Rubber	1
26	14 C 2	Rubber Bushing	2
27	7.4 DIN 125 glz.	Washer	2
28	B 6 DIN 127 glz.	Lock Washer	2
29	AM 6x18 DIN 7513 glz.	Hexagon Head Cutting Screw	2
30	213 A 2 U	Air Guide Plate	1
31	M 8x22 DIN 940 glz.	Stud	4
32	218 A 1 U	Exhaust Manifold	1
33	8.4 DIN 125 glz.	Washer	4
34	M 8 DIN 934 cu	Hexagon Nut	4
35	167 A 9	Filter Element	1
36	167 A 11	Filter Ring	1
37	J 6.4 DIN 6798	Toothed Washer	3
38	051.5	Hexagon Screw	3
39	167 A 5 U	Filter Complete with Ref. 35	1
39	167 A 10 U	Filter Complete with Ref. 36	1

Figure 16

MAIN IGNITION PARTS



MAIN IGNITION PARTS
FOR MODELS 210R, 211R AND 220R

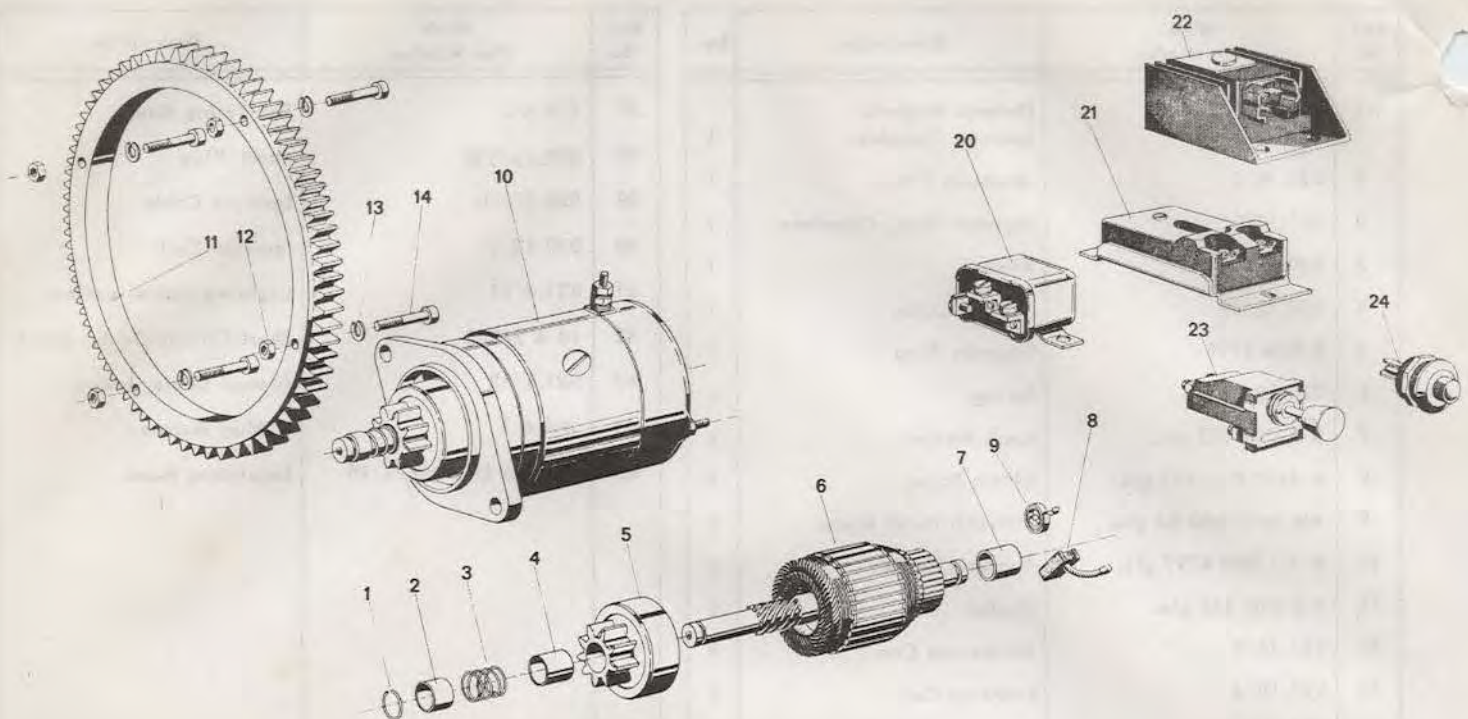
Figure 16

Ref. No.	Hirth Part Number	Description	Qty.
1-2	021.18	Dynamo Magneto Ignition Complete	1
1	021.18/1	Armature Plate	1
2	021.18/2	Magneto Ring, Complete	1
3	020.12/20	Washer	1
4	020.12/19	Timing Lever	1
5	5 DIN 6799	Security Ring	1
6	020.12/18	Spring	1
7	B 6 DIN 127 glz.	Lock Washer	4
8	M 6x15 DIN 912 glz.	Ellern Screw	4
9	AM 5x15 DIN 84 glz.	Fillister Head Screw	2
10	A 5.1 DIN 6797 glz.	Toothed Washer	2
11	5.3 DIN 433 glz.	Washer	2
12	021.17/9	Advancing Cam	1
13	021.18/4	Lighting Coil	1
14	021.17/8	Lubrication Wick	1
15	021.3/7	Condenser	2
16	021.4/6	Fixed Point	2
17	021.4/5	Movable Point	2
18	021.18/3 b	Generator Coil	1
19	021.18/3 a	Generator Coil	1
20	021.16/10	Generator Cable, blue	2
21	B 3x0.4 DIN 40621/80	Insulating Hose	2
22	B 8x0.7 DIN 40621/130	Insulating Hose	1
23	1x8 DIN 72571	Clamp	1
24	B 5 DIN 127 glz.	Lockwasher	4
25	AM 5x25 DIN 7513 glz.	Hexagon Head Cutting Screw	4
26	B 7x0.7 DIN 40621/110	Insulating Hose	2
27	026.5/710	Ignition Cable	1
28	020.13/15	Protecting Sleeve	2
29	6.3x2.5 DIN 46247	Plug	2
30	034.15	Protecting Sleeve	2
31	14 B 9 U	Ground Cable, Complete	2
32	B 12x0.8 DIN 40621/230	Insulating Hose	1
33	B 8x0.7 DIN 40621/100	Insulating Hose	2
34	063.7/1	Clamp	2
35	024.11	Spark Plug Hood	2
36	024.12	Spring	2

Ref. No.	Hirth Part Number	Description	Qty.
37	174 A 2	Protecting Hood	2
38	023.12/240	Spark Plug	2
39	026.5/610	Ignition Cable	1
40	020.13/3	Ignition Coil	2
41	021.4/11	Lighting Cable, yellow	2
42	14 A 2/900	Short Circuit Cable, black	2
43	021.5/13	Ground Cable, brown	1
44	164 A 1	Rubber Bushing	1
45	B 6x0.6 DIN 40621/90	Insulating Hose	2

Figure 17

STARTING MOTOR PARTS FOR MODELS 210R, 211R AND 220R

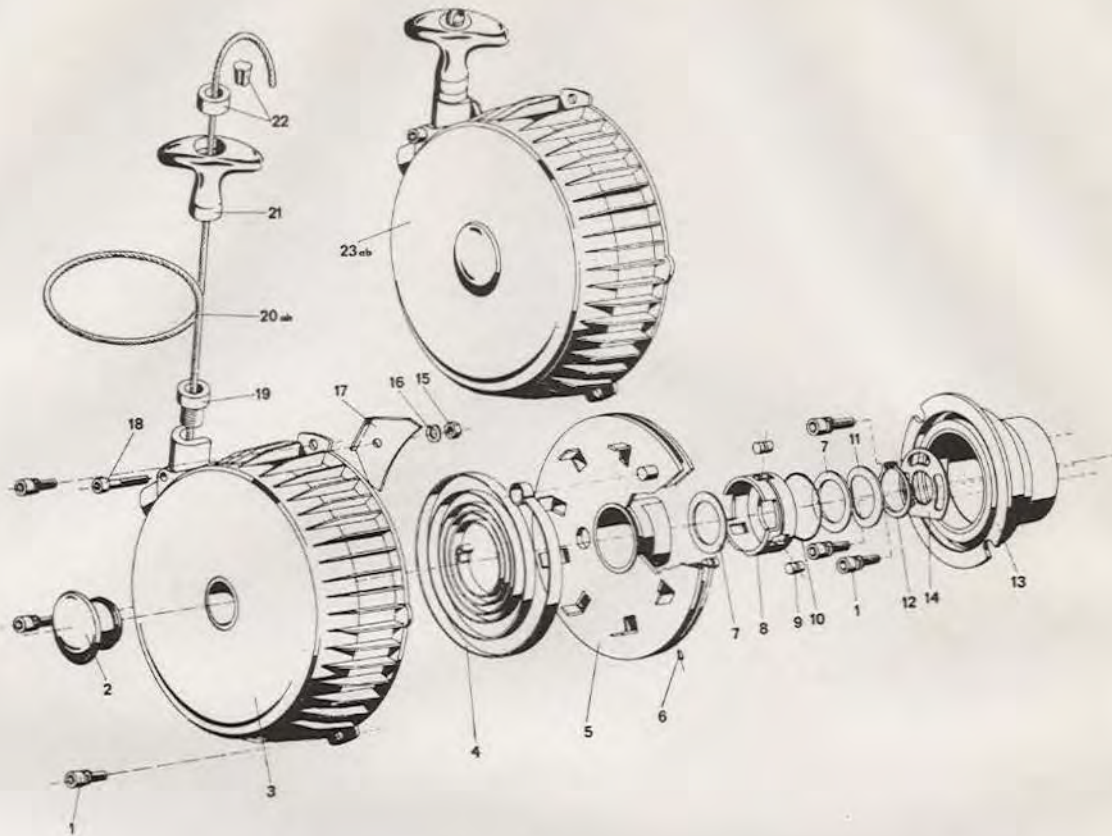


Ref. No.	Hirth Part Number	Description	Qty.
1	028.9/7	Security Ring	1
2	028.9/6	Stop Ring	1
3	028.9/5	Spring	1
4	028.9/4	Bearing Bushing	1
5	028.9/3	Drive Assembly	1
6	028.9/2	Armature	1
7	028.9/1	Bearing Bushing	1
8	028.9/9	Carbon Brush Set	1
9	028.3/10	Carbon Brush Spring	1
10	028.9	Pinion Starter	1
11	163 B 3	Ring Gear	1
12	M 6 DIN 934 glz.	Hexagon Nut	4
13	6 DIN 7980 glz.	Lock Washer	4

Ref. No.	Hirth Part Number	Description	Qty.
14	M 6x20 DIN 912	Ellern Screw	4
20	032.15	Relay	1
21	032.14	Resistor	1
22	032.12	Rectifier	1
23	032.11	Pull Switch	1
24	032.7	Starter Switch	1

RECOIL STARTER ASSEMBLY FOR ALL 210R, 211R AND 220R MODELS

Figure 18



Ref. No.	Hirth Part Number	Description	Qty.	Ref. No.	Hirth Part Number	Description	Qty.
1	M 6x18 Z 4-1 DIN 912 glz.	Ellern Screw	9	15	M 6 DIN 934 glz.	Hexagon Nut	1
2	15 B 20	Plug	1	16	B 6 DIN 127 glz.	Lock Washer	1
3	165 A 24 U	Starter Housing	1	17	165 A 18	Cover Plate	1
4	165 A 20	Spiral Spring	1	18	M 6x30 DIN 912 glz.	Ellern Screw	1
5	165 A 8 U	Driver Pulley	1	19	75 B 23	Rope Guide Bushing	1
6	3x8 DIN 1473	Pin	1	20a	165 A 16	Wire Rope 2475 mm long	1
7	15 A 17	Washer	1-2	20b	165 C 2	Wire Rope 2680 mm long	1
8	15 B 31	Roller Cage	1	21	75 B 36	Handle	1
9	75 B 16	Clamp Roller	3	22	75 B 34 75 B 35	Clamp Ring Order Clamp Piece both parts	1 1
10	75 B 17	Roller Retaining Spring	1	23a	165 D 2 U	Recoil Starter complete with wire rope 20a	1
11	15 A 19	Lock Washer	1-2	23b	165 E 2 U	Recoil Starter complete with wire rope 20b	1
12	32x1.5 DIN 471	Snap Ring	1				
13	165 A 1 U	Recoil Starter Drive Hub	1				
14	165 A 3	Security Plate	1				