

Husqvarna

1981 SPECIFICATION READY REFERENCE CHART

125
CR

250
CR/XC/WR

430
CR/XC/WR

420AXC
AUTOMATIC

420AE
AUTOMATIC

ENGINE:

Displacement:	Single cylinder 2-stroke 124 cc	Single cylinder 2-stroke 245 cc	Single cylinder 2-stroke 430 cc	Single cylinder 2-stroke 412 cc	Single cylinder 2-stroke 412 cc
Bore std:	55 mm	69.50 mm	86 mm	86 mm	86 mm
1st over:	55.25 mm	39.75 mm	86.50 mm	86.50 mm	86.50 mm
2nd over:	55.50 mm	70.00 mm	87.00 mm	87 mm	87 mm
3rd over:	—	70.25 mm	—	—	—
Stroke:	52 mm	84.50 mm	74 mm	71 mm	71 mm
Compression ratio:	15.1:1	12.3:1	11:1	11.5:1	11.5:1

OIL CAPACITY GEARBOX:

Oil capacity in gearbox:	1400 cc	1600 cc	1.4 lit (0.37 US gal)	1200 cc	1200 cc
Oil recommendation:	Engine oil SAE 20	Engine oil SAE 20	Engine oil SAE 20	Esso Univas J-26	Esso Univas J-26

FUEL SYSTEM:

Fuel:	Gas min. 91 oct.	Gas min. 91 oct.	Gas min. 91 oct.	Gas min. 91 oct.	Gas min. 91 oct.
Lubrication:	Oil/gas mixture 4%	Oil/gas mixture. Ratio depends on type of oil used. (Normally 3-5% of oil in gasoline.)	Oil/gas mixture. Ratio depends on type of oil used. (Normally 3-5% of oil in gasoline.)	Oil/gas mixture 4%	Oil/gas mixture 4%
Tank capacity:	8.3 lit (2.2 US gal)	11 lit (2.9 US gal) — XC/WR 10 lit (2.7 US gal) — CR	11 lit (2.9 US gal) — XC/WR 10 lit (2.7 US gal) — CR	8.3 lit (2.2 US gal)	11.8 lit (3.1 US gal)
Oil recommendation:	High quality 2-stroke oil of well-known brand.	High quality 2-stroke oil of well-known brand.	High quality 2-stroke oil of well-known brand.	High quality 2-stroke oil of well-known brand.	High quality 2-stroke oil of well-known brand.

CARBURETOR:

Type:	Bing	Mikuni	Mikuni	Mikuni	Mikuni
Venturi Ø:	84/32/112	VM 38-41	VM 38-89	VM 38-41	VM 38-41
Main jet:	32 mm (1.260 in.)	38 mm	38 mm	38 mm	38 mm
Needle jet:	170	430	450	430	430
Idling jet:	276	R2	R4	R2	R2
Needle position:	35	45	—	45	45
Air jet:	#2	#4	#4	#4	#4
Throttle:	—	2.0	2.0	2.0	2.0
Needle:	—	2.0	2.0	2.0	2.0
Air screw opening:	1.5 turn from bottom position	6 DH 3-4 1.5 turn from bottom position	6 DH 3-4 1.5 turn from bottom position	6 DH3-4 1.5 turn from bottom position	6 DH 3-4 1.5 turn from bottom position

ELECTRICAL SYSTEM:

Type:	Motoplat	Motoplat	SEM/Motoplat	Motoplat CDI (rotor)	SEM CDI
Ignition advance:	CDI — Internal rotor	CDI Ø 116 CR, XC/CDI Ø 139-WR	CDI Ø — XC, WR/Internal — CR	—	—
Ignition advance on piston before TDC:	17°	20°	17°	16°	16°
Ignition advance on flywheel before TDC:	1.43 mm (0.0563 in.)	2.43 mm	2.2 mm	1.73 mm	1.73 mm
AC generator:	17.1 mm (0.6732 in.)	20.1 mm	17.2 mm (XC, WR)	8.8 + 0.5 mm	16 + 1 mm
Spark plug:	—	—	140 W yellow cable 12V (XC, WR)	—	130 W yellow cable
	Bosch W3C	Bosche W4C	Bosch W4C	Champion N2, Bosch W4C	Champion N2, Bosch W4C

ELECTRICAL EQUIPMENT:

Voltage regulator:	—	—	—	—	Tympanium 610201
Headlight:	—	—	—	—	12 V 35/35 W
Taillight:	—	—	—	—	12 V 5/20 W

FRONT FORK:

Travel:	Husqvarna 300 mm (11.3 in.)	Husqvarna 300 mm (11.8 in.) — CR, XC 240 mm (9.5 in.) — WR	Husqvarna 300 mm (11.8 in.)	Husqvarna 300 mm (11.8 in.)	Husqvarna 300 mm (11.8 in.)
Air pressure per leg:	Max. 50 kPa (8 psi)	Max. 50 kPa (8 psi)	Max. 50 kPa (8 psi)	—	—
Oil change:	270 cc — 0.27 l/leg (9.12 oz. US)	270 cc — WR / 440 cc — XC, CR	270 cc — WR / 440 cc — XC, CR	270 cc	240 cc
Disassembling:	280 cc — 0.28 l/leg (9.46 oz. US)	280 cc — WR / 450 cc — XC, CR	280 cc — WR / 450 cc — XC, CR	280 cc	250 cc
Oil recommendation:	Engine oil SAE 10 — SAE 30	Engine oil SAE 10 — SAE 30	Engine oil SAE 10 — SAE 30	Engine oil SAE 10 — SAE 30	Engine oil SAE 10 — SAE 30

TORQUE SPECIFICATIONS:

Flywheel nut:	70 Nm (50 ft. lb.)	90 Nm (66 ft. lb.) — WR 70 Nm (50 ft. lb.) — CR, XC	70 Nm (50 ft. lb.)	70 Nm (50 ft. lb.)	70 Nm (50 ft. lb.)
Cylinder head nuts:	20 Nm (14 ft. lb.)	30 Nm (22 ft. lb.)	30 Nm (22 ft. lb.)	30 Nm (22 ft. lb.)	30 Nm (22 ft. lb.)
Cylinder head screws:	20 Nm (14 ft. lb.)	20 Nm (15 ft. lb.)	20 Nm (15 ft. lb.)	20 Nm (15 ft. lb.)	20 Nm (15 ft. lb.)
Engine mounting bolts:	40 Nm (28.5 ft. lb.)	40 Nm (29 ft. lb.)	40 Nm (29 ft. lb.)	40 Nm (29 ft. lb.)	40 Nm (29 ft. lb.)
Crankcase screws:	12 Nm (8.7 ft. lb.)	12 Nm (9 ft. lb.)	12 Nm (9 ft. lb.)	12 Nm (9 ft. lb.)	12 Nm (9 ft. lb.)
Swing arm mounting nuts:	—	60 Nm (44 ft. lb.)	60 Nm (44 ft. lb.)	60 Nm (44 ft. lb.)	60 Nm (44 ft. lb.)
Rear fork bolt nuts:	40 Nm (28.5 ft. lb.)	—	—	60 Nm (44 ft. lb.)	60 Nm (44 ft. lb.)
Screws, reed valve housing/cylinder:	12 Nm (8.7 ft. lb.)	12 Nm (9 ft. lb.)	12 Nm (9 ft. lb.)	12 Nm (9 ft. lb.)	12 Nm (9 ft. lb.)
Spark plug:	40 Nm (28.5 ft. lb.)	40 Nm (29 ft. lb.)	40 Nm (29 ft. lb.)	40 Nm (29 ft. lb.)	40 Nm (29 ft. lb.)

REBORE SPECIFICATION:

.06 mm (.0025 in.)	.088 mm (.0035 in.)	.10 mm (.004 in.)	.10 mm (.004 in.)	.10 mm (.004 in.)
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Husqvarna

1982 SPECIFICATION READY REFERENCE CHART

125 CR, XC

250 CR, WR, XC

420 AUTOMATIC AE, AXC

430 CR, WR, XC

ENGINE:

Displacement
Bore std:
Bore 1st over:
Bore 2nd over:
Bore 3rd over:
Stroke:
Compression ratio:

Single cylinder 2-stroke
124 cc
55 mm
55.25 mm
55.50 mm
—
52 mm
13.4:1

Single cylinder 2-stroke
245 cc
69.50 mm
69.75 mm
70.00 mm
70.25 mm
64.50
12.3:1

Single cylinder 2-stroke
412 cc
86 mm
86.50 mm
87.00 mm
—
71 mm
11.5:1

Single cylinder 2-stroke
430 cc
86 mm
86.50 mm
87.00 mm
—
74 mm
11.1:1

OIL CAPACITY GEARBOX:

Oil capacity gearbox:
Oil type:

1400 cc
Engine oil 20W

1400 cc
Engine oil 20W

1200 cc
Husqvarna automatic trans fluid
(Esso Univis J-26)

1400 cc
Engine oil 20W

FUEL SYSTEM:

Fuel:
Engine oil:
Oil Mixture:
Tank Capacity:

91 octane (leaded)
Well-known brand only
Use oil manufacturer's recommendations
10 lit (2.7 US gal) CR
11 lit (2.9 US gal) XC

91 octane (leaded)
Well-known brand only
Use oil manufacturer's recommendations
10 lit (2.7 US gal) CR
11 lit (2.9 US gal) WR, XC

91 octane (leaded)
Well-known brand only
Use oil manufacturer's recommendations
11 lit (2.9 US gal)

91 octane (leaded)
Well-known brand only
Use oil manufacturer's recommendations
10 lit (2.7 US gal) CR
11 lit (2.9 US gal) WR, XC

CARBURETOR:

Type:
Venturi:
Main jet:
Needle jet:
Idle jet:
Needle position:
Air jet:
Needle:
Air screw opening:
Throttle slide:

Mikuni (CR, XC)
38 mm
470
R-6
45
±4
2.0
—
1.5 turns
2.5

Mikuni (CR, XC) Mikuni (WR)
38 mm 38 mm
410 410
R-4 Q-4
45 45
±4 ±4
2.0 2.0
6 DH 20 6 F 16
1.5 turns 1.5 turns
2.0 2.0

Mikuni (AE, AXC)
38 mm
430
R-2
45
±4
2.0
6 DH 3
1.5 turns
2.0

Mikuni (CR) Mikuni (WR, XC)
38 mm 38 mm
450 440
R-4 Q-3
45 45
±4 ±4
2.0 2.0
6 DH 3 6 DH 3
1.5 turns 1.5 turns
2.0 2.0

ELECTRICAL SYSTEM:

Type:
Ignition advance (degrees):
Ignition advance (on piston BTDC):
Light coil capacity:

Motoplat (CR, XC)
17°
1.43 mm
36 watt (XC)

Sem (WR) Motoplat (CR, XC)
18°
1.95 mm
70 watt/70 watt (WR)
36 watt (XC)

Sem (AE) Motoplat (AXC)
16°
1.73 mm
130 watt (AE)

Sem (WR) Motoplat (CR, XC)
17°
2.20 mm
70 watt/70 watt (WR)
36 watt (XC)

ELECTRICAL EQUIPMENT:

Headlight:
Taillight:
Voltage regulator:
Spark plug:

Bosch W3C

12 V 40/45 W } WR
12 V 5/10 W }
Tympanium 610201 12 V (WR)
Bosch W4C

12 V 35/35 W } AE
12 V 5/20 W }
Tympanium 610201 12V (AE)
Bosch W4C

12 V 40/45 W } WR
12 V 5/10 W }
Tympanium 610201 12V (WR)
Bosch W4C

FRONT FORK:

Travel:
Oil capacity:
Oil type:
Air pressure:

300 mm (CR, XC)
450 cc (CR, XC)
15 w
8 lbs max.

270 mm (WR)
300 mm (CR, XC)
430 cc (WR)
450 cc (CR, XC)
15 w
8 lbs max.

240 mm (AE)
300 (AXC)
240 cc (AE)
280 cc (AXC)
15 w
8 lbs max.

270 mm (WR)
300 mm (CR, XC)
430 cc (WR)
450 cc (CR, XC)
15 w
8 lbs max.

REAR SUSPENSION:

Type:
Travel:

Ohlins (CR, XC)
310 mm (CR, XC)

Ohlins
270 mm (WR) 310 mm (CR, XC)

Corte Cosso (AE) Koni (AXC)
240 mm (AE) 300 mm (AXC)

Ohlins
270 mm (WR) 310 mm (CR, XC)

TORQUE SPECIFICATIONS:

Flywheel nut:
Cylinder head nuts:
Cylinder head bolts:
Engine mounting bolts:
Crankcase screws:
Swingarm bolt:
Shock mounting bolts:
Spark plug:

70 Nm (50 ft. lbs.)
20 Nm (14 ft. lbs.)
20 Nm (14 ft. lbs.)
40 Nm (28.5 ft. lbs.)
12 Nm (8.7 ft. lbs.)
60 Nm (44 ft. lbs.)
12 Nm (8.7 ft. lbs.)
40 Nm (28.5 ft. lbs.)

70 Nm (50 ft. lbs.)
30 Nm (22 ft. lbs.)
20 Nm (15 ft. lbs.)
40 Nm (28.5 ft. lbs.)
12 Nm (8.7 ft. lbs.)
60 Nm (44 ft. lbs.)
12 Nm (8.7 ft. lbs.)
40 Nm (28.5 ft. lbs.)

70 Nm (50 ft. lbs.)
30 Nm (22 ft. lbs.)
20 Nm (15 ft. lbs.)
40 Nm (28.5 ft. lbs.)
12 Nm (8.7 ft. lbs.)
60 Nm (44 ft. lbs.)
12 Nm (8.7 ft. lbs.)
40 Nm (28.5 ft. lbs.)

70 Nm (50 ft. lbs.)
30 Nm (22 ft. lbs.)
20 Nm (15 ft. lbs.)
40 Nm (28.5 ft. lbs.)
12 Nm (8.7 ft. lbs.)
60 Nm (44 ft. lbs.)
12 Nm (8.7 ft. lbs.)
40 Nm (28.5 ft. lbs.)

REBUILD SPECIFICATIONS:

Piston clearance at rebore:
Maximum radial play
(connecting rod):
Maximum ring end gap:

.06 mm (.0025 in.)
.07 mm-.10 mm
.8 mm (.030 in.)

.088 mm (.0035 in.)
.07-.10 mm
.8 mm (.030 in.)

.10 mm (.004 in.)
.07-.10 mm
.8 mm (.030 in.)

.10 mm (.004 in.)
.07-.10 mm
.8 mm (.030 in.)



Husqvarna motorcycles

TECHNICAL DATA 1983

125 CR, WR, XC

240, 250 CR, WR, XC

430 WR

500 CR, XC

ENGINE:

	Single cylinder 2-stroke	Single cylinder 2-stroke	Single cylinder 2-stroke	Single cylinder 2-stroke
Displacement:	124 cc	245 cc	430 cc	488 cc
Bore std:	55 mm	69.50 mm	86 mm	86 mm
Bore 1st over:	55.25 mm	69.75 mm	85.50 mm	86.50 mm
Bore 2nd over:	55.50 mm	70.00 mm	87.00 mm	87.00 mm
Bore 3rd over:	—	70.25 mm	—	—
Stroke:	52 mm	64.50 mm	74 mm	84 mm
Compression ratio:	13.4:1	12.3:1	11.1:5	9.5:1

GEARBOX:

	1400 cc	1600 cc	1600 cc	1600 cc
Oil capacity gearbox:	1400 cc	1600 cc	1600 cc	1600 cc
Oil type:	Engine oil 20W	Engine oil 20W	Engine oil 20W	Engine oil 20W

FUEL SYSTEM:

	93 octane (leaded)	93 octane (leaded)	93 octane (leaded)	93 octane (leaded)
Fuel:	93 octane (leaded)	93 octane (leaded)	93 octane (leaded)	93 octane (leaded)
Engine oil:	Well-known brand only	Well-known brand only	Well-known brand only	Well-known brand only
Oil mixture:	4%	4%	4%	4%
Tank capacity:	10 lit (2.7 US gal)	10 lit (2.7 US gal) CR, WR, EU 12 lit (3.1 US gal) WR USA, XC	10 lit (2.7 US gal) WR, EU 12 lit (3.1 US gal) WR USA	10 lit (2.7 US gal) CR 12 lit (3.1 US gal) XC

CARBURETTOR:

	Mikuni (CR, XC)	Mikuni (WR)	Mikuni (CR, XC)	Mikuni (240, WR)	Mikuni (250, WR)	Mikuni (WR, EU)	Mikuni (WR, USA)	Mikuni
Type:	Mikuni (CR, XC)	Mikuni (WR)	Mikuni (CR, XC)	Mikuni (240, WR)	Mikuni (250, WR)	Mikuni (WR, EU)	Mikuni (WR, USA)	Mikuni
Venturi:	38 mm	38 mm	38 mm	38 mm	38 mm	38 mm	38 mm	40 mm
Main jet:	470	470	440	60	450	100	430	340
Needle jet:	R 6	R 6	R 4	P 8	P 8	Q 8	Q 8	AA 5
Idle jet:	35	35	45	45	45	45	45	45
Needle position:	≠ 4	≠ 4	≠ 4	≠ 3	≠ 4	≠ 4	≠ 4	≠ 3
Air jet:	2.0	2.0	2.0	2.0	2.0	2.0	2.0	0.7
Needle:	6DH20	6DH20	6DH20	6F16	6F16	6DH3	6DH3	7DH3
Air screw opening:	1.0 turns	1.0 turns	1.5 turns	0.25 turns	1.5 turns	1.5 turns	1.5 turns	1.5 turns
Throttle slide:	2.5	2.5	2.0	2.0	2.0	2.0	2.0	2.0

ELECTRICAL SYSTEM:

	Motoplat (CR, XC), Sem (WR)	Sem (WR) Motoplat (CR, XC)	Motoplat	Motoplat
Type:	Motoplat (CR, XC), Sem (WR)	Sem (WR) Motoplat (CR, XC)	Motoplat	Motoplat
Ignition advance (degrees):	13° (CR), 17° (WR, XC)	20°	17°	18°
Ignition advance (on piston BTDC):	0.89 mm (CR), 1.52 mm (WR, XC)	2.55 mm	2.18	2.8 mm
Light coil capacity:	36 watt (XC) 70 watt/70 watt (WR)	70 watt/70 watt (WR) 36 watt (XC)	70 watt/70 watt	36 watt (XC)

ELECTRICAL EQUIPMENT:

	12 v 40/45 W WR	12 v 40/45 W WR	12 v 40/45 W	Bosch W4C
Headlight:	12 v 40/45 W WR	12 v 40/45 W WR	12 v 40/45 W	Bosch W4C
Taillight:	12 v 5/10	12 v 5/10 W	12 v 5/10	
Voltage regulator:	Tympanium 610201 12 V (WR)	Tympanium 610201 12 V (WR)	Tympanium 610201 12 V	
Spark plug:	Bosch W3C	Bosch W4C	Bosch W4C	Bosch W4C

FRONT FORK:

	300 mm (CR, XC) 250 mm (WR)	270 mm (WR) 300 mm (CR, XC)	270 mm	300 mm
Travel:	300 mm (CR, XC) 250 mm (WR)	270 mm (WR) 300 mm (CR, XC)	270 mm	300 mm
Oil capacity:	450 cc (CR, XC) 420 cc (WR)	430 cc (WR) 450 cc (CR, XC)	430 cc	450 cc
Oil type:	15 w	15 w	15 w	15 w
Air pressure:	8 lbs max.	8 lbs max.	8 lbs max.	8 lbs max.

REAR SUSPENSION:

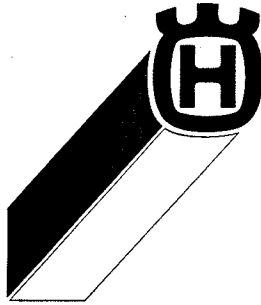
	Husqvarna ITC	Husqvarna ITC	Husqvarna ITC	Husqvarna ITC
Type:	Husqvarna ITC	Husqvarna ITC	Husqvarna ITC	Husqvarna ITC
Travel:	330 mm (CR, XC) 260 mm (WR)	285 mm (WR) 330 mm (CR, XC)	285 mm	330 mm

TORQUE SPECIFICATIONS:

	70 Nm (50 ft. lbs.) 50 Nm (37 ft. lbs.) (WR)	70 Nm (50 ft. lbs.) 50 Nm (37 ft. lbs.) (WR)	50 Nm (37 ft. lbs.)	70 Nm (50 ft. lbs.)
Flywheel nut:	70 Nm (50 ft. lbs.) 50 Nm (37 ft. lbs.) (WR)	70 Nm (50 ft. lbs.) 50 Nm (37 ft. lbs.) (WR)	50 Nm (37 ft. lbs.)	70 Nm (50 ft. lbs.)
Cylinder head nuts:	20 Nm (14 ft. lbs.)	30 Nm (22 ft. lbs.)	30 Nm (22 ft. lbs.)	33 Nm (22 ft. lbs.)
Cylinder head bolts:	20 Nm (14 ft. lbs.)	20 Nm (15 ft. lbs.)	20 Nm (15 ft. lbs.)	25 Nm (15 ft. lbs.)
Engine mounting bolts:	40 Nm (28.5 ft. lbs.)	40 Nm (28.5 ft. lbs.)	40 Nm (28.5 ft. lbs.)	40 Nm (28.5 ft. lbs.)
Crankcase screws:	12 Nm (8.7 ft. lbs.)	12 Nm (8.7 ft. lbs.)	12 Nm (8.7 ft. lbs.)	12 Nm (8.7 ft. lbs.)
Swingarm bolt:	60 Nm (44 ft. lbs.)	60 Nm (44 ft. lbs.)	60 Nm (44 ft. lbs.)	60 Nm (44 ft. lbs.)
Shock mounting bolts:	12 Nm (8.7 ft. lbs.)	12 Nm (8.7 ft. lbs.)	12 Nm (8.7 ft. lbs.)	12 Nm (8.7 ft. lbs.)
Spark plug:	40 Nm (28.5 ft. lbs.)	40 Nm (28.5 ft. lbs.)	40 Nm (28.5 ft. lbs.)	40 Nm (28.5 ft. lbs.)

TEBUILD SPECIFICATIONS:

	0.06 mm (.0025 in.)	0.088 mm (.0035 in.)	0.10 mm (.004 in.)	0.10 mm (.004 in.)
Piston clearance at rebore:	0.06 mm (.0025 in.)	0.088 mm (.0035 in.)	0.10 mm (.004 in.)	0.10 mm (.004 in.)
Maximum radial play (connecting rod):	0.07 mm-. 10 mm	0.07 mm-. 10 mm	0.07 mm-. 10 mm	0.07 mm-. 10 mm
Maximum ring end gap:	0.8 mm (.030 in.)	0.8 mm (.030 in.)	0.8 mm (.030 in.)	0.8 mm (.030 in.)



Husqvarna motorcycles

TECHNICAL DATA 1984

125 CR WR XC

240 250 CR WR XC

500 WR

500 500 CR XC AE

ENGINE:

Single cylinder 2-stroke
 Displacement: 124 cc
 Bore 1st over: 55 mm
 Bore 2nd over: 55.25 mm
 Bore 3rd over: 55.50 mm
 Stroke: 52 mm
 Compression ratio: 14.6:1

Single cylinder 2-stroke
 234 cc 239.4 cc (240 CR, WR)
 Displacement: 69.50 mm 68.75 mm
 Bore 1st over: 69.75 mm 69.50 mm
 Bore 2nd over: 70.00 mm 68.75 mm
 Bore 3rd over: 70.25 mm 70.00 mm
 Stroke: 64.50 mm 64.50 mm
 12.5:1 WR, XC
 15.0:1 CR

Single cylinder 2-stroke
 Displacement: 488 cc
 Bore 1st over: 86 mm
 Bore 2nd over: 86.50 mm
 Bore 3rd over: 87.00 mm
 Stroke: 84 mm
 Compression ratio: 9.0:1

Single cylinder 2-stroke
 Displacement: 488 cc
 Bore 1st over: 86 mm
 Bore 2nd over: 86.50 mm
 Bore 3rd over: 87.00 mm
 Stroke: 84 mm
 Compression ratio: 9.5:1

Single cylinder 2-stroke
 Displacement: 488 cc
 Bore 1st over: 86 mm
 Bore 2nd over: 86.50 mm
 Bore 3rd over: 87.00 mm
 Stroke: 84 mm
 Compression ratio: 9.4:1

GEARBOX:

Oil capacity gearbox: 1400 cc
 Oil type: Engine oil 20 W

1600 cc
 Engine oil 20 W

1600 cc
 Engine oil 20 W

1600 cc
 Engine oil 20 W

1000 cc
 Husqvarna automatic transmission oil

FUEL SYSTEM:

Fuel: 93 octane (leaded)
 Engine oil: Well-known brand only
 Oil mixture: 4 %
 Tank capacity: 11 lit. (2.9 US gal)

93 octane (leaded)
 Well-known brand only
 4 %
 11 lit. (2.9 US gal) CR, WR, EU
 12.5 lit. (3.2 US gal) WR USA, XC

93 octane (leaded)
 Well-known brand only
 4 %
 11 lit. (2.9 US gal) WR, EU
 12.5 lit. (3.2 US gal) WR, USA

93 octane (leaded)
 Well-known brand only
 4 %
 12.5 lit. (3.2 US gal)

93 octane (leaded)
 Well-known brand only
 4 %
 12.5 lit. (3.2 US gal)

CARBURETTOR:

Type: Mikuni
 Venturi: 36 mm
 Main jet: 370
 Needle jet: RO
 Idle jet: 45
 Needle position: -3
 Air jet: 2.0
 Needle: 6FJ6
 Air screw opening: 1.5 turns
 Throttle slide: 2.0

Mikuni (CR)	Mikuni (XC)	Mikuni (240, WR)	Mikuni (250, WR)
38 mm	38 mm	38 mm	38 mm
430	440	440	450
R 4	R 4	P 8	P 8
45	45	45	45
4	± 4	± 3	± 4
—	2.0	2.0	2.0
6FJ40	6DH20	6F16	6F16
1.5 turns	1.5 turns	0.25 turns	1.5 turns
4.0	2.0	2.0	2.0

Mikuni (WR, EU)	Mikuni (WR, USA)
40 mm	38 mm
80	430
AAO	AA5
35	45
± 3	± 4
0.7	2.0
7DH3	6DH3
0.5	1.5 turns
2.5	2.0

Mikuni	Mikuni
40 mm	40 mm
360	380
AA5	AA5
35	35
± 3	± 3
0.7	0.7
7DH3	7DH3
1.5 turns	1.5 turns
2.5	2.5

Mikuni
40 mm
380
AA5
35
± 3
0.7
7DH3
1.5 turns
2.5

ELECTRICAL SYSTEM:

Type: Motoplat (CR, XC), Sem (WR)
 Ignition advance (degrees): 20° (WR, XC) 14.5° (CR)
 Ignition advance (on piston BTDC): 1.00 mm (CR), 1.98 mm (WR)
 Light coil capacity: 36 watt (XC)
 70 watt/70 watt (WR)

Sem (WR) Motoplat (CR, XC)
 20° (WR, XC) 10° (CR)
 2.55 mm
 70 watt/70 watt (WR)
 36 watt (XC)

SEM
 16, 5°
 2, 2°
 70 watt/70 watt

Motoplat
 16, 5°
 2, 2°
 36 watt (XC)

Motoplat
 16, 5°
 2, 2°
 36 W

ELECTRICAL EQUIPMENT:

Headlight: 12 v 40/45 W WR
 Taillight: 12 v 5/10 W WR
 Voltage regulator: Tympanium 610201 12 V (WR)
 Spark plug: Bosch W4C

12 v 40/45 W WR
 12 v 5/10 W WR
 Tympanium 610201 12 V (WR)
 Bosch W4C

12 v 40/45 W
 12 v 5/10 W
 Tympanium 610201 12 V
 Bosch W4C

12 v 40/45 W
 12 v 5/10 W
 Tympanium 610201 12 V
 Bosch W4C

FRONT FORK:

Type: 300 mm (CR, XC) 270 mm (WR)
 Oil capacity: 500 cc (CR, XC) 430-500 cc (WR)
 Oil type: 5-15 w
 Air pressure: 8 lbs max.

270 mm (WR)
 300 mm (CR, XC)
 430-500 cc (WR)
 500 cc (CR, XC)
 5-15 w
 8 lbs max.

270 mm
 430-500 cc
 5-15 w
 8 lbs max.

300 mm
 500 cc
 5-15 w
 8 lbs max.

270 mm
 430-500 cc
 5-15 w
 8 lbs max.

REAR SUSPENSION:

Type: Husqvarna ITC
 Travel: 345 mm (CR, XC) 300 mm (WR)

Husqvarna ITC
 300 mm (WR) 345 mm (CR, XC)

Husqvarna ITC
 300 mm

Husqvarna ITC
 345 mm

Husqvarna ITC
 300 mm

TORQUE SPECIFICATIONS:

Flywheel nut: 70 Nm (50 ft. lbs.) 50 Nm (37 ft. lbs.) (WR)
 Cylinder head nuts: 30 Nm (22 ft. lbs.) 25 Nm (15 ft. lbs.) (short studs)
 Cylinder head bolts: 40 Nm (28.5 ft. lbs.)
 Engine mounting bolts: 12 Nm (8.7 ft. lbs.)
 Crankcase screws: 60 Nm (44 ft. lbs.)
 Swingarm bolts: 12 Nm (8.7 ft. lbs.)
 Shock mounting bolts: 12 Nm (8.7 ft. lbs.)
 Spark plug: 40 Nm (28.5 ft. lbs.)

70 Nm (50 ft. lbs.) 50 Nm (37 ft. lbs.) (WR)
 35 Nm (25 ft. lbs.) 30 Nm (22 ft. lbs.) (short studs) 33 Nm (22 ft. lbs.) (WR, XC)
 20 Nm (15 ft. lbs.) (WR, XC)
 40 Nm (28.5 ft. lbs.)
 12 Nm (8.7 ft. lbs.)
 60 Nm (44 ft. lbs.)
 12 Nm (8.7 ft. lbs.)
 40 Nm (28.5 ft. lbs.)

50 Nm (37 ft. lbs.)
 30 Nm (22 ft. lbs.)
 25 Nm (15 ft. lbs.)
 40 Nm (28.5 ft. lbs.)
 12 Nm (8.7 ft. lbs.)
 80 Nm (44 ft. lbs.)
 12 Nm (8.7 ft. lbs.)
 40 Nm (28.5 ft. lbs.)

70 Nm (50 ft. lbs.)
 33 Nm (22 ft. lbs.)
 25 Nm (15 ft. lbs.)
 40 Nm (28.5 ft. lbs.)
 12 Nm (8.7 ft. lbs.)
 80 Nm (44 ft. lbs.)
 12 Nm (8.7 ft. lbs.)
 40 Nm (28.5 ft. lbs.)

70 Nm (50 ft. lbs.)
 33 Nm (22 ft. lbs.)
 25 Nm (15 ft. lbs.)
 40 Nm (28.5 ft. lbs.)
 12 Nm (8.7 ft. lbs.)
 80 Nm (44 ft. lbs.)
 12 Nm (8.7 ft. lbs.)
 40 Nm (28.5 ft. lbs.)
 gearbox cover 25 Nm (15 ft. lbs.)
 1st clutch 110 Nm (78.5 ft. lbs.) cleaned

REBUILD SPECIFICATIONS:

Piston clearance at rebore: 0.08 mm (.0025 in.)
 Maximum radial play (connecting rod): 0.07 mm-.10 mm
 Maximum ring end gap: 0.8 mm (.030 in.)

0.08 mm (.0025 in.) (WR, XC) 0.06 mm (.0025 in.) (CR)
 0.07 mm-.10 mm 0.0
 0.8 mm (.030 in.)

0.10 mm (.004 in.)
 0.07 mm-.10 mm
 0.8 mm (.030 in.)

0.10 mm (.004 in.)
 0.07 mm-.10 mm
 0.8 mm (.030 in.)

0.10 mm (.004 in.)
 0.07 mm-.10 mm
 0.8 mm (.030 in.)

TECHNICAL DATA 175 XC

Engine: Single cylinder two-stroke

Displacement: 171.2 cc
Bore std: 64.75 mm
1st over: 65.00 mm
2nd over: 65.25 mm
3rd over: --
Stroke: 52.00 mm
Compression ratio: 13.2:1

Transmission:

Primary transmission ratio: 3.89 (18:70)
Secondary transmission ratio: 3.69 (13:48)
Chain dimension: 5/8 x 1/4"

Number of cogs, gearbox (MS:AS):

1st	14:33	4th	23:24
2nd	17:29	5th	25:22
3rd	20:26	6th	27:20

Total gear ratios (crankshaft: rear wheel):

1st	33.85:1	4th	14.98:1
2nd	24.49:1	5th	12.64:1
3rd	18.67:1	6th	10.64:1

Oil capacity in gearbox: 1.4 lit (0.37 US gal)
Oil recommendation: Bel-Ray LV Gear Oil

Fuel System:

Fuel: Gas min. 94 oct.
Lubrication: Oil-gas-mixture 50:1
Tank capacity: 10 lit (2.7 US gal)
Oil recommendation: Husky Products MCI+

Carburetor: Mikuni

Venturi \emptyset 38 mm
Main jet: 400
Needle jet: Q 6
Idling jet: 55
Needle position: 3 from top
Air jet: 2.0
Needle: 6 DH 20
Airscrew opening: 1.5 turn from bottom position
Throttle: 2.5

Electrical System:	Motoplat	
Type:	CD1 Ø 116	
Ignition advance:	17°	
Ignition adv. on piston before TDC:	1.52 mm	
Ignition adv. on fly-wheel before TDC:	17.1 mm	
Light coil:	36 W yellow cable	
Spark plug:	Bosch W 3 C	
Front Fork:	Husqvarna	
Travel:	300 mm (11.8 in)	
Trail:	152 mm (6.0 in)	
Fork angle (caster):	30°	
Air pressure per leg:	max. 50 kPa (8 psi)	
Oil capacity per leg:	500 cc	
Oil recommendation:	V.S.P. Husky Fork oil SAE 5 - SAE 20	
Rear Suspension:	Husqvarna ITC Made by Ohlins	
Travel:	330 mm (13 in)	
Wheels and Brakes:	Front:	Rear:
Tires: Trelleborg	3.00 x 21"	4.50 x 18"
	Deep Grip	Ten Master
Spoke Ø:	4/4.5 mm	
Brake drum Ø:	160 mm (6.3 in)	
Dimensions:		
Length:	2180 mm (85.8 in)	
Height:	1240 mm (48.8 in)	
Wheelbase:	1465 mm (57.6 in)	
Seat height:	980 mm (38.5 in)	
Ground clearance:	300 mm (11.8 in)	
Weight:	96 kg (211 lbs)	
Torque Specifications:		
Flywheel nut:	70 Nm (51 ft. lb)	
Cylinder head nuts:	20 Nm (15 ft. lb)	
Cylinder head screws:	20 Nm (15 ft. lb)	
Engine mounting bolts:	40 Nm (29 ft. lb)	
Crankcase screws:	12 Nm (9 ft. lb)	
Swing arm mounting nuts:	60 Nm (44 ft. lb)	
Screws, reed valve housing/cylinder:	12 Nm (9 ft. lb)	
Spark plug:	40 Nm (29 ft. lb)	



TECHNICAL DATA 175 WR

Engine: Single cylinder two-stroke
 Displacement: 171.2 cc
 Bore std: 64.75 mm
 1st over: 65.00 mm
 2nd over: 65.25 mm
 3rd over: --
 Stroke: 52.00 mm
 Compression ratio: 13.2:1

Transmission:

Primary transmission ratio: 3.89 (18:70)
 Secondary transmission ratio: 3.69 (13:48)
 Chain dimension: 5/8 x 1/4"

Number of cogs, gearbox (MS:AS):

1st	14:33	4th	23:24
2nd	17:29	5th	25:22
3rd	20:26	6th	27:20

Total gear ratios (crankshaft: rear wheel):

1st	33.85:1	4th	14.98:1
2nd	24.49:1	5th	12.64:1
3rd	18.67:1	6th	10.64:1

Oil capacity gearbox: 1.4 lit (0.37 US gal)
 Oil recommendation: Bel-Ray LV Gear Oil

Fuel System:

Fuel: Gas min 94 oct.
 Lubrication: Oil-gas-mixture 50:1
 Tank capacity: 10 lit (2.7 US gal)
 Oil recommendation: Husky Products MCl+

Carburetor: Mikuni

Venturi Ø: 38 mm
 Main jet: 400
 Needle jet: Q 6
 Idling jet: 55
 Needle position: 3 from top
 Air jet: 2.0
 Needle: 6 DH 20
 Air screw opening: 1 turn from bottom
 Throttle: 2.5



Electrical System:	Motoplat
Type:	CDI \emptyset 116
Ignition advance:	17 ^o
Ignition adv. on piston before TDC:	1.52 mm
Ignition adv. on flywheel before TDC:	17.1 mm
Light coil:	36 W yellow cable
Spark plug:	Bosch W 3 C

Electrical Equipment:

Headlight:	12 V 40/45 W
Tail light:	12 V 5/10 W

Front Fork:	Husqvarna
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Travel:	250 mm (9.8 in)
Trail:	152 mm (6.0 in)
Fork angle (caster):	30 ^o
Air pressure per leg:	max. 50 kPa (8 psi)
Oil capacity per leg:	430 cc
Oil recommendation:	V.S.P. Husky Fork oil SAE 5 - SAE 20

Rear Suspension:	Betor
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Travel:	250 mm (9.8 in)
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Wheels and Brakes:	Front:	Rear:
Tires: Trelleborg	3.00 x 21" Deep Grip	4.50 x 18" Ten Master
Spoke \emptyset :	4/4.5 mm	
Brake drum \emptyset :	160 mm	

Dimensions:

Length:	2190 mm (86.2 in)
Height:	1250 mm (49.2 in)
Wheelbase:	1465 mm (57.6 in)
Seat height:	925 mm (36.4 in)
Ground clearance:	300 mm (11.8 in)
Weight:	100 kg (220 lbs)

Torque Specifications:

Flywheel nut:	70 Nm (51 ft. lb)
Cylinder head nut:	20 Nm (15 ft. lb)
Cylinder head screw:	20 Nm (15 ft. lb)
Engine mounting bolts:	40 Nm (29 ft. lb)
Crankcase screws:	12 Nm (9 ft. lb)
Rear fork bolt nuts:	60 Nm (44 ft. lb)
Screws - reed valve housing:	12 Nm (9 ft. lb)

SERVICE BULLETIN

ROUTE TO: SERVICE MGR. _____



TECHNICAL DATA 510 TE

Engine: Single cylinder, 4-Stroke,
4 valves, overhead cam,
Husqvarna RAL system.
(Reed Activated Lubrication)

Displacement: 503 cc
Bore/stroke: 91.5 x 76.4 mm
Compression ratio: 9.5:1

Transmission:

Primary transmission ratio: 2.63 (79:30)

Number of cogs, gearbox (AS:MS)

1st	34:13 = 2.6	4th	24:23 = 1.04
2nd	29:16 = 1.8	5th	22:25 = 0.88
3rd	26:19 = 1.3	6th	20:27 = 0.74

Secondary transmission ratio: 2.8 (48:17)

Total gear ratios (crankshaft: rear wheel):

1st	19.3:1	4th	7.7:1
2nd	13.4:1	5th	6.5:1
3rd	9.7:1	6th	5.5:1

Clutch: multi disc in oil bath

Chain: 5/8" x 1/4"

Valve clearance (cold): In. .1mm (.004") Ex. 15mm (.006")

De-Compressor cable: 1-2mm clearance on cables with engine running.

Oil capacity in gearbox: 1.9 lit (2 qt.)

Oil recommendation: Bel-Ray Racing Engine Oil MC5

Fuel System: SAE 40

Fuel: Gas min. 91 oct.

Tank capacity: 10 lit. (2.7 US gal)

Carburetor: Dellorto

Venturi Ø: 36 mm

Main jet: 150

Needle jet: AB 265

Idling jet: 52

Starting jet: 70

Acc. pump jet: 35

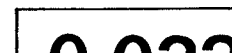
Throttle: 50/3

Needle position: 2

Mixture control screw: 1 3/4

Float: 14 pr

(over)



Electrical System:	SEM
Type:	CD1
Ignition advance:	35°
Ignition adv. on piston before TDC:	9.17 mm
Ignition adv. on flywheel before TDC:	42.5 mm
AC generator:	70 + 70 W
Spark plug:	NGK D8 EA
Spark plug gap:	.028" - .032"

Electrical Equipment:

Head light:	12 V 45 W (USA)
Tail light:	12 V 5 W (USA)

Front Fork:

Husqvarna

Travel:	270 mm (10.6 in)
Trail:	131 mm (5.1 in)
Fork angle (caster):	28.5°
Air pressure per leg:	max. 50 kPa (8 psi)
Oil capacity per leg:	430 cc
Oil recommendation:	V.S.P. Husky Fork Oil SAE 5 - SAE 20

Rear Suspension:

Husqvarna ITC

Travel:	300 mm (11.8 in)
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Wheels and Brakes:

Front:	Rear:
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Tires: Trelleborg	3.00 x 21"	5.00 x 18"
Spoke Ø:	4/4.5 mm	
Brake drum Ø:	160 mm (6.3 in)	

Dimensions:

Length:	2190 mm (86.2 in)
Height:	1250 mm (49.2 in)
Height at seat:	960 mm (37.7 in)
Wheelbase:	1480 mm (58.3 in)
Ground clearance:	320 mm (12.5 in)

Weight (dry):	120.2 kg (265 lbs)
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Torque Specifications:

Flywheel nut:	70 Nm (51 ft. lb)
Head nuts (above head):	50 Nm (36 ft. lb)
Head nuts (below cylinder):	25 Nm (18 ft. lb)
Engine mounting bolts:	40 Nm (29 ft. lb)
Crankcase screws:	12 Nm (9 ft. lb)
Swing arm mounting nuts:	60 Nm (44 ft. lb)
Spark plug:	33 Nm (24 ft. lb)

Workshop Manual:

Part Number 15 17 736-01

SERVICE BULLETIN

ROUTE TO: SERVICE MGR. _____



1984 TECHNICAL DATA 510 TX

Engine: Single cylinder, 4-stroke,
4 valves, overhead cam,
Husqvarna RAL system.
(Reed Activated Lubrication)

Displacement 503 cc
Bore/stroke: 91.5 x 76.4 mm
Compression ratio: 9.5:1

Transmission: 6 Speed Constant Mesh

Primary transmission ratio: 2.63 (79:30)

Number of cogs, gearbox (AS:MS):

1st	34:13 = 2.6	4th	24:23 = 1.04
2nd	29:16 = 1.8	5th	22:25 = 0.88
3rd	26:19 = 1.3	6th	20:27 = 0.74

Secondary transmission ratio: 2.8 (48:17)
Total gear ratios (crankshaft: rear wheel):

1st	19.3:1	4th	7.7:1
2nd	13.4:1	5th	6.5:1
3rd	9.7:1	6th	5.5:1

Clutch: multi disc in oil bath
Chain: 5/8" x 1/4"
Valve clearance (cold): In. .1mm (.004") Ex. .15mm (.006")
De-Compressor cable: 1-2mm clearance on cables with engine
running.
Oil capacity in gearbox: 1.9 lit (2 qt.)
Oil recommendation: Bel-Ray Racing Engine Oil MC5 SAE 40
Fuel System:

Fuel: Gas min 91 oct.
Tank capacity: 10 lit (2.7 US gal)

Carburetor: Dellorto

Venturi \emptyset : 36 mm
Main jet: 150
Needle jet: AB 265
Idling jet: 52
Starting jet: 70
Acc. pump jet: 35
Throttle: 50/3
Needle position: 2
Mixture control screw: 1 3/4
Float: 14 pr

(over)

0-034

Electrical System:	SEM	
Type:	CD ₁	
Ignition advance:	35°	
Ignition adv. on piston before TDC:	9.17 mm	
Ignition adv. on flywheel before TDC:	42.5 mm	
AC generator:	70 + 70 W	
Spark plug:	NGK D8 EA	
Spark plug gap:	.028" - .032"	
Front Fork:	Husqvarna	
Travel:	300 mm (11.8 in)	
Trail:	131 mm (5.1 in)	
Fork angle (caster):	28.5°	
Air pressure per leg:	max. 50 kPa (8 psi)	
Oil capacity per leg:	500 cc	
Oil recommendation:	V.S.P. Husky Fork Oil SAE 5 - SAE 20	
Rear Suspension:	Husqvarna ITC	
Travel:	345 mm (13.6 in)	
Wheels and Brakes:	Front:	Rear:
Tires: Trelleborg	3.00 x 21"	5.00 x 18"
Spoke Ø:	4/4.5 mm	
Brake drum Ø:	160 mm (6.3 in)	
Dimensions:		
Length:	2190 mm (86.2 in)	
Height:	1240 mm (48.8 in)	
Height at seat:	997 mm (39.2 in)	
Wheelbase:	1498 mm (58.9 in)	
Ground clearance:	385 mm (15.2 in)	
Weight (dry):	117.2 kg (260 lbs)	
Torque Specifications:		
Flywheel nut:	70 Nm (51 ft. lb)	
Head nuts (above head):	50 Nm (36 ft. lb)	
Head nuts (below cylinder):	25 Nm (18 ft. lb)	
Engine mounting bolts:	40 Nm (29 ft. lb)	
Crankcase screws:	12 Nm (9 ft. lb)	
Swing arm mounting nuts:	60 Nm (44 ft. lb)	
Spark plug:	20 Nm (15 ft. lb)	
Workshop Manual:	Part number 15 17 736-01	

SERVICE BULLETIN

ROUTE TO: SERVICE MGR. _____



TECHNICAL DATA 500 TC

Engine: Single Cylinder, 4-stroke,
4 valves, overhead cam,
Husqvarna RAL system.
(Reed Activated Lubrication)

Displacement: 490 cc
Bore/stroke: 90.0 x 76.4 mm
Compression ratio: 9.5:1

Transmission:

Primary transmission ratio: 2.63 (79:30)

Number of cogs, gearbox (AS:MS)

1st	29:17 = 1.7	3rd	24:23 = 1.04
2nd	26:20 = 1.3	4th	22:25 = 0.88

Secondary transmission ratio: 3.4 (48:14)
Total gear ratios (crankshaft: rear wheel):

1st	15.3:1	3rd	9.4:1
2nd	11.7:1	4th	7.9:1

Clutch: multi disc in oil bath

Chain: 5/8" x 1/4"

Valve clearance (cold): In. 1mm (.004") Ex. 15mm (.006")

De-Compressor cable: 1-2mm clearance on cables with engine
running.

Oil capacity in gearbox: 1.9 lit (2 qt.)

Oil recommendation: Bel-Ray Racing Engine Oil MC5
SAE 40

Fuel System:

Fuel: Gas min. 91 oct.

Tank capacity: 10 lit. (2.7 US gal)

Carburetor: Dellorto

Venturi \varnothing : 36 mm
Main jet: 150
Needle jet: AB 265
Idling jet: 52
Starting jet: 70
Acc. pump jet: 35
Throttle: 50/3
Needle position: 2
Mixture control screw: 1 3/4
Float: 14 pr

(over)

0-025

Electrical System:	SEM	
Type:	CD1	
Ignition advance:	35 ^o	
Ignition adv. on piston before TDC:	9.17 mm	
Ignition adv. on flywheel before TDC:	42.5 mm	
AC generator:	70 + 70 W	
Spark plug:	NGK D8 EA	
Spark plug gap:	.028" - .032"	
Front Fork:	Husqvarna	
Travel:	300 mm (11.8 in)	
Trail:	131 mm (5.1 in)	
Fork angle (caster):	28.5 ^o	
Air pressure per leg:	max. 50 kPa (8 psi)	
Oil capacity per leg:	500 cc	
Oil recommendation:	V.S.P. Husky Fork oil SAE 5 - SAE 20	
Rear Suspension:	Husqvarna ITC	
Travel:	345 mm (13.6 in)	
Wheels and Brakes:	Front:	Rear:
Tires: Trelleborg	3.00 x 21"	5.00 x 18"
Spoke \emptyset :	4/4.5 mm	
Brake drum \emptyset :	160 mm (6.3 in)	
Dimensions:		
Length:	2190 mm (86.2 in)	
Height:	1240 mm (48.8 in)	
Height at seat:	997 mm (39.2 in)	
Wheelbase:	1498 mm (58.9 in)	
Ground clearance:	385 mm (15.2 in)	
Weight (dry):	117.2 kg (256 lbs)	
Torque Specifications:		
Flywheel nut:	70 Nm (51 ft. lb)	
Head nuts (above head):	50 Nm (36 ft. lb)	
Head nuts (below cylinder):	25 Nm (18 ft. lb)	
Engine mounting bolts:	40 Nm (29 ft. lb)	
Crankcase screws:	12 Nm (9 ft. lb)	
Swing arm mounting nuts:	60 Nm (44 ft. lb)	
Spark plug:	33 Nm (24 ft. lb)	
Workshop Manual:	Part number 15 17 736-01	

SERVICE BULLETIN

ROUTE TO: SERVICE MGR. _____



BEL-RAY SAE 40 4-CYCLE RACING ENGINE OIL WITH "MOLBUAMIN" MC-5

THE ONLY ENGINE OIL RECOMMENDED FOR THE HUSQVARNA 4-STROKE

Bel-Ray 4-Cycle Racing Engine Oil has been specially formulated to meet the special demands of 4-cycle racing engines. It will increase engine life, reduce friction and enable the engine to run cooler. The result is increased horsepower delivered to the wheel. This is accomplished with the use of the special compound "Molbuamin" developed by the Bel-Ray Company to achieve a high degree of wear protection in the engine oil. The "Molbuamin" in Bel-Ray 4-cycle oil offers extremely high film strength and exceptional anti-wear protection, as demonstrated by its ability to go to 2750 lbs. on the Falex Lubricant Tester.

Bel-Ray 4-Cycle Racing Engine Oil is very stable. Due to the high shear caused by transmission gears and the high degree of heat created by the wet clutches, this oil has been developed to be shear stable and temperature stable. This is readily demonstrated when the oil is ready to be changed. This oil was run in a 750cc street bike for 6000 miles. Laboratory analysis of the used oil indicated a minimal viscosity drop and a minimal drop in load-carrying ability. Inspection of the engine showed no apparent wear and the engine was exceptionally clean.

This exceptionally clean engine is the result of the high detergency and the thermal stabilizers incorporated in its formula. Bel-Ray 4-cycle oil exceeds API Service Classification SE and Federal Specification MIL-L-46152. This, in addition, also assures full positive rust and corrosion protection in the engine.

This product is available in SAE 30 and SAE 40. The SAE 40 is recommended for most applications and the SAE 30 is recommended for extremely cold operating temperatures.

TYPICAL SPECIFICATIONS

Gravity, Specific 60 ^o /60 ^o F	0.870
Viscosity SUS @ 100 ^o F	858
@ 210 ^o F	85
Viscosity Index	100
Pour Point ^o F	-15
Flash Point ^o F	475
<u>Load Carrying Ability:</u>	
Falex Load, Lbs., Minimum	
3000 Lb. Gage	2750

SERVICE BULLETIN

ROUTE TO: SERVICE MGR _____



1984 TECHNICAL DATA 125 WR

Engine: Single cylinder two-stroke
liquid cooled

Displacement: 124 cc

Bore std: 55.00 mm

1st over: 55.25 mm

2nd over: 55.50 mm

3rd over: -----

Stroke: 52 mm

Compression ratio: 15.0:1

Transmission: 6 Speed Constant Mesh

Primary transmission ratio: 3.89 (18:70)

Secondary transmission ratio: 3.20 (15:48)

Chain dimension: 5/8" x 1/4"

Number of cogs, gearbox (MS:AS):

1st	14:33	4th	23:24
2nd	17:29	5th	25:22
3rd	20:26	6th	27:20

Total gear ratios (crankshaft: rear wheel):

1st	29.3:1	4th	13.0:1
2nd	21.2:1	5th	10.0:1
3rd	16.2:1	6th	9.2:1

Oil capacity in gearbox: 1.5 lit

Oil recommendation: Engine oil SAE 20

Fuel System:

Fuel: Gas min. 94 oct.

Lubrication: Oil-gas-mixture. Ration depends on type of oil used (normally 3-5% of oil in gasoline)

Tank capacity: 11 lit (2.8 US gal)

Oil recommendation: Husky Products 2-stroke oil or Bel-Ray MCl+

Carburetor: Mikuni

Venturi \emptyset : 36 mm

Main jet: 370

Needle jet: R0

Idling jet: 45

Needle position: 3 from top

Air jet: 2.0

Needle: 6FJ6

Airscrew opening: 1 turn from bottom position

Throttle: 2.0

0-037

Electrical System:	Motoplat	Electrical Equipment
Type:	CD1 \emptyset 116	Head light: 12V 40/45W
Ignition advance:	20 ^o	Tail light: 12V 5/10W
Ignition adv. on piston before TDC:	1.98 mm	
Ignition adv. on fly-wheel before TDC:	20.3 mm	
Light coil:	70 \emptyset 70W	
Spark plug:	Bosch W 3 C	

Front fork:	Husqvarna
Travel:	270 mm
Trail:	131 mm
Fork angle (caster):	28.5 ^o
Air pressure per leg:	Max 50 kPa (8 psi)
Oil capacity per leg:	450 cc
Oil recommendation:	V.S.P. Husky Fork Oil SAE 5 - SAE 20

Rear suspension:	Husqvarna ITC
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Travel:	300 mm
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Wheels and Brakes:	Front:	Rear:
Tires: Trelleborg	300 x 21 Deep Grip	450 x 18 Ten Master
Spoke \emptyset :	4 mm	4.5 mm
Brake drum \emptyset :	160 mm	160 mm

Dimensions:

Length:	2190 mm (86.2 in)
Height:	1250 mm (49.2 in)
Wheelbase	1480 mm (58.2 in)
Seat height:	960 mm (37.7 in)
Ground clearance:	320 mm (12.6 in)
Weight:	98 kg (216 lbs)

Torque specifications:

Flywheel nut:	70 Nm (51 ft. lb)
Cylinder head nuts:	25 Nm (18 ft. lb)
Cylinder head screws:	25 Nm (18 ft. lb)
Engine mounting bolts:	40 Nm (29 ft. lb)
Crankcase screws:	12 Nm (9 ft. lb)
Swing arm mounting nuts:	60 Nm (44 ft. lb)
Screws, reed valve housing/cylinder:	12 Nm (9 ft. lb)
Spark plug:	40 Nm (29 ft. lb)

SERVICE BULLETIN



ROUTE TO: SERVICE MGR _____

1984 TECHNICAL DATA 125 XC

Engine: Single cylinder two-stroke
liquid cooled

Displacement: 124 cc

Bore std: 55.00 mm

1st over: 55.25 mm

2nd over: 55.50 mm

3rd over: -----

Stroke: 52.00 mm

Compression ratio: 15.0:1

Transmission: 6 speed constant mesh

Primary transmission ratio: 3.89 (18:70)

Secondary transmission ratio: 4.00 (13:52)

Chain dimension: 5/8" x 1/4"

Number of cogs, gearbox (MS:AS):

1st	14:33	4th	23:24
2nd	17:29	5th	25:22
3rd	20:26	6th	27:20

Total gear ratios (crankshaft: rear wheel):

1st	36.7:1	4th	16.2:1
2nd	26.5:1	5th	13.7:1
3rd	20.2:1	6th	11.5:1

Oil capacity in gearbox: 1.5 lit (0.39 US gal)

Oil recommendation: Engine oil SAE 20

Fuel System: Gas min 94 oct.

Fuel: Oil-gas-mixture 4%

Lubrication: 11 lit (2.8 US gal)

Tank capacity: Husky Products two-stroke oil or

Oil recommendation: Bel Ray MCl+

Carburetor: Mikuni

Venturi \emptyset : 36 mm

Main jet: 370

Needle jet: R0

Idling jet: 45

Needle position: 3 from top

Air jet: 2.0

Needle: 6FJ6

Airscrew opening: 1.5 turn from bottom position

Throttle: 2.0

0-038

Electrical System:	Motoplat	
Type:	CD1 Ø 116	
Ignition advance:	20°	
Ignition adv. on piston before TDC:	1.98 mm	
Ignition adv. on fly-wheel before TDC:	20.4 mm	
Light coil:	35 W (Yellow cable)	
Spark plug:	Bosch W 3 C	
Front fork:	Husqvarna	
Travel:	300 mm (11.8 in)	
Trail:	131 mm (5.2 in)	
Fork angle (caster):	28.5°	
Air pressure per leg:	Max 50 kPa (8 psi)	
Oil capacity per leg:	500cc	
Oil recommendation:	V.S.P. Husky Fork Oil SAE 5 - SAE 20	
Rear suspension:	Husqvarna ITC	
Travel:	345 mm (13.5 in)	
Wheels and Brakes:	Front:	Rear:
Tires: Trelleborg	300 x 21	450 x 18
Spoke Ø:	Deep Grip	Ten Master
Brake drum Ø:	4 mm	4.5 mm
	160 mm (6.3 in)	160 mm (6.3 in)
Dimensions:		
Length:	2190 mm (86.2 in)	
Height:	1240 mm (48.8 in)	
Wheelbase:	1498 mm (58.9 in)	
Seat height:	997 mm (39.2 in)	
Ground clearance:	385 mm (15.2 in)	
Weight:	96 kg (211 lbs)	
Torque specifications:		
Flywheel nut:	70 Nm (51 ft lbs)	
Cylinder head nuts:	25 Nm (18 ft lbs)	
Cylinder head screws:	25 Nm (18 ft lbs)	
Engine mounting bolts:	40 Nm (29 ft lbs)	
Crankcase screws:	12 Nm (9 ft lbs)	
Swing arm mounting nuts:	60 Nm (44 ft lbs)	
Screws, reed valve housing/cylinder:	12 Nm (9 ft lbs)	
Spark plug:	40 Nm (29 ft lbs)	

SERVICE BULLETIN

ROUTE TO: SERVICE MGR. _____



1984 TECHNICAL DATA 250 CR

Engine: Single cylinder two-stroke
liquid cooled
Displacement: 245 cc
Bore std: 69.50 mm
1st over: 69.75 mm
2nd over: 70.00 mm
3rd over: 70.25 mm
Stroke: 64.50 mm
Compression ratio: 15.0:1

Transmission: 6 Speed Constant Mesh

Primary transmission ratio: 2.41:1 (32.77)
Secondary transmission ratio: 4.33:1 (12.52)
Chain dimension: 5/8" x 1/4"

Number of cogs, gearbox (MS:AS):

1st	16:31	4th	23:24
2nd	18:28	5th	25:22
3rd	21:26	6th	27:21

Total gear ratios (crankshaft: rear wheel):

1st	20.63:1	4th	11.12:1
2nd	16.57:1	5th	9.37:1
3rd	13.19:1	6th	8.29:1

Oil capacity in gearbox: 1.6 lit (0.42 US gal)
Oil recommendation: Engine oil SAE 20

Fuel System:

Fuel: Gas min 94 oct.

Lubrication: Oil-gas-mixture 4%

Tank capacity: 11 lit (2.8 US gal)

Oil recommendation: Husky Products 2-stroke or Bel-Ray MCl+

Carburetor: Mikuni

Venturi Ø: 38mm

Main jet: 400

Needle jet: Q6

Idling jet: 45

Needle position: 4 from top

Air jet: -----

Needle: 6FJ40

Airscrew opening: 1.5 turn from bottom position

Throttle: 4.0

Electrical System: Motoplat

Type: CD1 Internal Rotor Ø 63

Ignition advance: 10°

Ignition adv. on piston before TDC: 0.6mm

Ignition adv. on fly-wheel before TDC:

Light coil:

Spark plug: Bosch W 4 C

Front fork: Husqvarna

Travel: 300 mm (11.8 in)

Trail: 131 mm (5.2 in)

Fork angle (caster): 28.5°

Air pressure per leg: Max 50 kPa (8 psi)

Oil capacity per leg: 500 cc

Oil recommendation: V.S.P. Husky Fork Oil
SAE 5 - SAE 20

Rear suspension: Husqvarna ITC

Travel: 345 mm (13.5 in)

Wheels and Brakes:	Front:	Rear:
Tires: Trelleborg (front)	300 x 21	425 x 18
Pirelli (rear)		
Spoke Ø:	4 mm	4.5 mm
Brake drum Ø:	160 mm	160 mm

Dimensions:

Length: 2190 mm (86.2 in)

Height: 1240 mm (48.8 in)

Wheelbase: 1498 mm (58.9 in)

Seat height: 997 mm (39.2 in)

Ground clearance: 385 mm (15.2 in)

Weight: 103 kg (227 lbs)

Torque specifications:

Flywheel nut: 70 Nm (51 ft. lb)

Cylinder head nuts: 30 Nm (22 ft. lb)

Cylinder head screws: 20 Nm (15 ft. lb)

Engine mounting bolts: 40 Nm (29 ft. lb)

Crankcase screws: 12 Nm (9 ft. lb)

Swing arm mounting nuts: 60 Nm (44 ft. lb)

Screws, reed valve housing/cylinder: 12 Nm (9 ft. lb)

Spark plug: 40 Nm (29 ft. lb)

SERVICE BULLETIN

ROUTE TO: SERVICE MGR _____



1984 TECHNICAL DATA 250 WR

Engine: Single cylinder two-stroke
air cooled

Displacement: 245 cc

Bore std: 69.50 mm

1st over: 69.75 mm

2nd over: 70.00 mm

3rd over: 70.25 mm

Stroke: 64.50 mm

Compression ratio: 12.3:1

Transmission: 6 speed constant mesh

Primary transmission ratio: 2.41 (32:77)

Secondary transmission ratio: 4.00 (13:52)

Chain dimension: 5/8" x 1/4"

Number of cogs, gearbox (MS:AS):

1st	14:33	4th	23:24
2nd	17:29	5th	25:22
3rd	20:26	6th	27:20

Total gear ratios (crankshaft: rear wheel):

1st	24.7:1	4th	10.9:1
2nd	17.8:1	5th	9.2:1
3rd	13.5:1	6th	7.7:1

Oil capacity in gearbox: 1.6 lit (0.42 US gal)

Oil recommendation: Engine oil SAE 20

Fuel System:

Fuel: Gas min 94 oct.

Lubrication: Oil-gas-mixture 4%

Tank capacity: 12.5 lit (3.3 US gal)

Oil recommendation: Husky Products two stroke oil or
Bel Ray MCI+

Carburetor: Mikuni

Venturi \emptyset : 38 mm

Main jet: 450

Needle jet: P8

Idling jet: 45

Needle position: 4 from top

Air jet: 2.0

Needle: 6F16

Airscrew opening: 1.5 turn from bottom position

Throttle: 2.0

0-040

Electrical System: SEM Electrical equipment

Type: CD1 \emptyset 116 Head light 12V 45W
Ignition advance: 20^o Tail light 12V 5W
Ignition adv. on
piston before TDC: 2.55 mm
Ignition adv. on fly-
wheel before TDC: 20.3 mm
Light coil: 70 + 70 W (Yellow cable)
Spark plug: Bosch W 4 C

Front fork: Husqvarna

Travel: 270 mm (10.6 in)
Trail: 131 mm (5.2 in)
Fork angle (caster): 28.5^o
Air pressure per leg: Max 50 kPa (8 psi)
Oil capacity per leg: 450cc
Oil recommendation: V.S.P. Husky Fork Oil
SAE 5 - SAE 20

Rear suspension: Husqvarna ITC

Travel: 300 mm (11.8 in)

Wheels and Brakes:	Front:	Rear:
Tires: Trelleborg	300 x 21	500 x 18
Spoke \emptyset :	4 mm	4.5 mm
Brake drum \emptyset :	160mm (6.3 in)	160 mm (6.3 in)

Dimensions:

Length: 2190 mm (86.2 in)
Height: 1250 mm (49.2 in)
Wheelbase: 1480 mm (58.3 in)
Seat height: 960 mm (37.8 in)
Ground clearance: 320 mm (12.6 in)
Weight: 108 kg (238 lbs)

Torque specifications:

Flywheel nut: 50 Nm (37 ft lbs)
Cylinder head nuts: 30 Nm (22 ft lbs)
Cylinder head screws: 25 Nm (18 ft lbs)
Engine mounting bolts: 40 Nm (29 ft lbs)
Crankcase screws: 12 Nm (9 ft lbs)
Swing arm mounting nuts: 60 Nm (44 ft lbs)
Screws, reed valve
housing/cylinder: 12 Nm (9 ft lbs)
Spark plug: 40 Nm (29 ft lbs)

SERVICE BULLETIN

ROUTE TO: Service Mgr. _____



1984 TECHNICAL DATA 250 XC

Engine: Single cylinder two-stroke
air cooled
Displacement: 245 cc
Bore std: 69.50 mm
1st over: 69.75 mm
2nd over: 70.00 mm
3rd over: 70.25 mm
Stroke: 64.50 mm
Compression ratio: 12.3:1

Transmission: 6 Speed Constant Mesh

Primary transmission ratio: 2.41 (32:77)
Secondary transmission ratio: 4.00 (13.52)
Chain dimension: 5/8" x 1/4"

Number of cogs, gearbox (MS:AS):

1st	14:33	4th	23:24
2nd	17:29	5th	25:22
3rd	20:26	6th	27:20

Total gear ratios (crankshaft: rear wheel):

1st	22.7:1	4th	10.0:1
2nd	16.4:1	5th	8.5:1
3rd	12.5:1	6th	7.1:1

Oil capacity in gearbox: 1.6 lit (0.42 US gal)
Oil recommendation: Engine oil SAE 20

Fuel System:

Fuel: Gas min 94 oct.
Lubrication: Oil-gas-mixture 4%
Tank capacity: 12.5 lit (3.3 US gal)
Oil recommendation: Husky Products 2-stroke or Bel-Ray MCl+

Carburetor: Mikuni

Venturi \emptyset : 38mm
Main jet: 440
Needle jet: R4
Idling jet: 45
Needle position: 4 from top
Air jet: 2.0
Needle: 6DH20
Airscrew opening: 1.5 turn from bottom position

Throttle: 2.0

Electrical System:	Motoplat	
Type:	CD1 \emptyset 116	
Ignition advance:	20 ^o	
Ignition adv. on piston before TDC:	2.55 mm	
Ignition adv. on fly-wheel before TDC:	20.4 mm	
Light coil:	35 W (yellow cable)	
Spark plug:	Bosch W 4 C	
Front fork:	Husqvarna	
Travel:	300 mm (11.8 in)	
Trail:	131 mm	
Fork angle (caster):	28.5 ^o	
Air pressure per leg:	Max 50 kPa (8 psi)	
Oil capacity per leg:	500 cc	
Oil recommendation:	V.S.P. Husky Fork Oil SAE 5 - SAE 20	
Rear suspension:	Husqvarna ITC	
Travel:	345 mm (13.5 in)	
Wheels and Brakes:	Front:	Rear:
Tires: Trelleborg	300 x 21"	450 x 18"
	Deep Grip	Ten Master
Spoke \emptyset :	4 mm	4.5 mm
Brake drum \emptyset :	160 mm	160 mm
Dimensions:		
Length:	2190 mm (86.2 in)	
Height:	1240 mm (48.8 in)	
Wheelbase	1498 mm (58.9 in)	
Seat height:	997 mm (39.2 in)	
Ground clearance:	385 mm (15.2 in)	
Weight:	105 kg (231 lbs)	
Torque specifications:		
Flywheel nut:	70 Nm (29 ft. lb)	
Cylinder head nuts:	30 Nm (22 ft. lb)	
Cylinder head screws:	20 Nm (15 ft. lb)	
Engine mounting bolts:	40 Nm (29 ft. lb)	
Crankcase screws:	12 Nm (9 ft. lb)	
Swing arm mounting nuts:	60 Nm (44 ft. lb)	
Screws, reed valve housing/cylinder:	12 Nm (9 ft. lb)	
Spark plug:	40 Nm (29 ft. lb)	

SERVICE BULLETIN

ROUTE TO: SERVICE MGR. _____



1984 TECHNICAL DATA 500 CR

Engine: Single cylinder two-stroke
air cooled

Displacement: 488 cc

Bore std: 86.00 mm

1st over: 86.50 mm

2nd over: 87.00 mm

3rd over: -----

Stroke: 84 mm

Compression ratio: 9.5:1

Transmission: 6 Speed Constant Mesh

Primary transmission ratio: 1.79 (39:70)

Secondary transmission ratio: 4.42 (12:53)

Chain dimension: 5/8" x 1/4"

Number of cogs, gearbox (MS:AS):

1st	14:33	4th	23:24
2nd	17:29	5th	25:22
3rd	20:26	6th	27:21

Total gear ratios (crankshaft: rear wheel):

1st	18.7:1	4th	8.2:1
2nd	13.5:1	5th	7.0:1
3rd	10.3:1	6th	6.1:1

Oil capacity in gearbox: 1.6 lit (0.42 US gal)

Oil recommendation: Engine oil SAE 20

Fuel System:

Fuel: Gas min 94 oct.

Lubrication: Oil-gas-mixture 4%

Tank capacity: 12.5 lit (3.3 US gal)

Oil recommendation: Husky Products 2-stroke or Bel-Ray MCl+

Carburetor: Mikuni

Venturi \emptyset : 40 mm

Main jet: 360

Needle jet: AA5

Idling jet: 35

Needle position: 3 from top

Air jet: 0.7

Needle: 7DH3

Airscrew opening: 1.5 turn from bottom position

Throttle: 2.5

0-042

Electrical System:	Motoplat	
Type:	CD1 Ø 63	
Ignition advance:	18 ^o	
Ignition adv. on piston before TDC:	2.8 mm	
Ignition adv. on fly-wheel before TDC:	9.8 mm	
Light coil:	-----	
Spark plug:	Bosch W 4 C	
Front fork:	Husqvarna	
Travel:	300 mm (11.8 in)	
Trail:	131 mm (5.2 in)	
Fork angle (caster):	28.5 ^o	
Air pressure per leg:	Max 50 kPa (8 psi)	
Oil capacity per leg:	500 cc	
Oil recommendation:	V.S.P. Husky Fork Oil SAE 5 - SAE 20	
Rear suspension:	Husqvarna ITC	
Travel:	345 mm (13.5 in)	
Wheels and Brakes:	Front:	Rear:
Tires: Trelleborg (front)	300 x 21	500 x 18
Pirelli (rear)	Deep Grip	Sand Cross
Spoke Ø:	4 mm	4.5 mm
Brake drum Ø:	160 mm (6.3 in)	160 mm (6.3 in)
Dimensions:		
Length:	2190 mm (86.2 in)	
Height:	1240 mm (48.8 in)	
Wheelbase	1498 mm (58.9 in)	
Seat height:	997 mm (39.2 in)	
Ground clearance:	385 mm (15.2 in)	
Weight:	108 kg (238 lbs)	
Torque specifications:		
Flywheel nut:	70 Nm (51 ft. lb)	
Cylinder head nuts:	30 Nm (22 ft. lb)	
Cylinder head screws:	25 Nm (18 ft. lb)	
Engine mounting bolts:	40 Nm (29 ft. lb)	
Crankcase screws:	12 Nm (9 ft. lb)	
Swing arm mounting nuts:	60 Nm (44 ft. lb)	
Screws, reed valve housing/cylinder:	12 Nm (9 ft. lb)	
Spark plug:	40 Nm (29 ft. lb)	

SERVICE BULLETIN

ROUTE TO: SERVICE MGR. _____



1984 TECHNICAL DATA 500 WR

Engine: Single cylinder two-stroke
air cooled
Displacement: 488 cc
Bore std: 86.00 mm
1st over: 86.50 mm
2nd over: 87.00 mm
3rd over: -----
Stroke: 84.00 mm
Compression ratio: 9.0:1

Transmission: 6 Speed Constant Mesh

Primary transmission ratio: 1.79 (39:70)
Secondary transmission ratio: 4.42 (13.53)
Chain dimension: 5/8" x 1/4"

Number of cogs, gearbox (MS:AS):

1st	13:34	4th	23:24
2nd	16:29	5th	25:22
3rd	19:26	6th	27:20

Total gear ratios (crankshaft: rear wheel):

1st	17.4:1	4th	6.8:1
2nd	12.0:1	5th	5.8:1
3rd	9.1:1	6th	4.9:1

Oil capacity in gearbox: 1.6 lit (0.42 US gal)
Oil recommendation: Engine oil SAE 20

Fuel System:

Fuel: Gas min 94 oct.
Lubrication: Oil-gas-mixture 4%
Tank capacity: 12.5 lit (3.3 US gal)
Oil recommendation: Husky Products 2-Stroke or Bel-Ray MCl+

Carburetor: Mikuni

Venturi Ø: 40 mm
Main jet: 360
Needle jet: AA-5
Idling jet: 35
Needle position: 3 from top
Air jet: 0.7
Needle: 7DH3
Airscrew opening: 1.5 turn from bottom position

Throttle: 2.5

0-043

Electrical System:	S.E.M.	Electrical Equipment
Type:	CD1 \emptyset 116	Head light: 12V 45 W
Ignition advance:	18 ^o	Tail Light: 12V 5 W
Ignition adv. on piston before TDC:	2.8 mm	
Ignition adv. on fly-wheel before TDC:	18.1 mm	
Light coil:	70 + 70W (yellow cable)	
Spark plug:	Bosch W 4 C	

Front fork:	Husqvarna
Travel:	270 mm (10.6 in)
Trail:	131 mm (5.2 in)
Fork angle (caster):	28.5 ^o
Air pressure per leg:	Max 50 kPa (8 psi)
Oil capacity per leg:	450 cc
Oil recommendation:	V.S.P. Husky Fork Oil SAE 5 - SAE 20

Rear suspension:	Husqvarna ITC
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Travel:	300 mm (11.8 in)
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Wheels and Brakes:	Front:	Rear:
Tires: Trelleborg	300 x 21	500 x 18
Spoke \emptyset :	4 mm	4.5 mm
Brake drum \emptyset :	160 mm (6.3 in)	160 mm (6.3 in)

Dimensions:

Length:	2190 mm (86.2 in)
Height:	1250 mm (49.2 in)
Wheelbase	1480 mm (58.3 in)
Seat height:	960 mm (37.8 in)
Ground clearance:	320 mm (12.6 in)
Weight:	112 kg (246 lbs)

Torque specifications:

Flywheel nut:	50 Nm (37 ft. lb)
Cylinder head nuts:	30 Nm (22 ft. lb)
Cylinder head screws:	20 Nm (15 ft. lb)
Engine mounting bolts:	40 Nm (29 ft. lb)
Crankcase screws:	12 Nm (9 ft. lb)
Swing arm mounting nuts:	60 Nm (44 ft. lb)
Screws, reed valve housing/cylinder:	12 Nm (9 ft. lb)
Spark plug:	40 Nm (29 ft. lb)

SERVICE BULLETIN

ROUTE TO: SERVICE MGR. _____



1984 TECHNICAL DATA 500 XC

Engine: Single cylinder two-stroke
air cooled

Displacement: 488 cc

Bore std: 86.00 mm

1st over: 86.50 mm

2nd over: 87.00 mm

3rd over: -----

Stroke: 84.00 mm

Compression ratio: 9.5:1

Transmission: 6 Speed Constant Mesh

Primary transmission ratio: 1.79 (39:70)

Secondary transmission ratio: 4.08 (13:53)

Chain dimension: 5/8" x 1/4"

Number of cogs, gearbox (MS:AS):

1st	13:34	4th	23:24
2nd	16:29	5th	25:22
3rd	19:26	6th	27:20

Total gear ratios (crankshaft: rear wheel):

1st	19.1:1	4th	7.6:1
2nd	13.3:1	5th	6.4:1
3rd	10.0:1	6th	5.4:1

Oil capacity in gearbox: 1.6 lit (0.42 US gal)

Oil recommendation: Engine oil SAE 20

Fuel System:

Fuel: Gas min 94 oct.

Lubrication: Oil-gas-mixture 4%

Tank capacity: 12.5 lit (3.3 US gal)

Oil recommendation: Husky Products 2-stroke oil or
Bel-Ray MCl+

Carburetor: Mikuni

Venturi \emptyset : 40 mm

Main jet: 360

Needle jet: AA5

Idling jet: 35

Needle position: 3 from top

Air jet: 0.7

Needle: 7DH3

Airscrew opening: 1.5 turn from bottom position

Throttle: 2.5

Electrical System: Motoplat

Type: CD1 Ø 116

Ignition advance: 18°

Ignition adv. on piston before TDC: 2.8 mm

Ignition adv. on fly-wheel before TDC: 18.5 mm

Light coil: 35 W (yellow cable)

Spark plug: Bosch W 4 C

Front fork: Husqvarna

Travel: 300 mm (11.8 in)

Trail: 131 mm (5.2 in)

Fork angle (caster): 28.5°

Air pressure per leg: Max 50 kPa (8 psi)

Oil capacity per leg: 500 cc

Oil recommendation: V.S.P. Husky Fork Oil
SAE 5 - SAE 20

Rear suspension: Husqvarna ITC

Travel: 345 mm (13.6 in)

Wheels and Brakes:	Front:	Rear:
Tires: Trelleborg	300 x 21	500 x 18
	Deep Grip	Ten Master
Spoke Ø:	4 mm	4.5 mm
Brake drum Ø:	160 mm (6.3 in)	160 mm (6.3 in)

Dimensions:

Length: 2190 mm (86.2 in)

Height: 1240 mm (48.8 in)

Wheelbase: 1498 mm (58.9 in)

Seat height: 997 mm (39.2 in)

Ground clearance: 385 mm (15.2 in)

Weight: 109 kg (240 lbs)

Torque specifications:

Flywheel nut: 70 Nm (51 ft. lb)

Cylinder head nuts: 30 Nm (22 ft. lb)

Cylinder head screws: 25 Nm (18 ft. lb)

Engine mounting bolts: 40 Nm (29 ft. lb)

Crankcase screws: 12 Nm (9 ft. lb)

Swing arm mounting nuts: 60 Nm (44 ft. lb)

Screws, reed valve housing/cylinder: 12 Nm (9 ft. lb)

Spark plug: 40 Nm (29 ft. lb)

SERVICE BULLETIN

ROUTE TO: SERVICE MGR. _____



1984 TECHNICAL DATA 500 AE

Engine: Single cylinder two-stroke
air cooled

Displacement: 488 cc

Bore std: 86.00 mm

1st over: 86.50 mm

2nd over: 87.00 mm

3rd over: -----

Stroke: 84 mm

Compression ratio: 9.0:1

Transmission: Automatic 3 speed gearbox controlled by 3
centrifugal clutches

Primary transmission ratio: 1.23 (47:58)

Secondary transmission ratio: 4.42 (12:53)

Chain dimension: 5/8" x 1/4"

Number of cogs, gearbox (MS:AS):

1st 15:36

2nd 24:41

3rd 28:36

Total gear ratios (crankshaft: rear wheel):

1st 13.1:1

2nd 9.3:1

3rd 7.0:1

Oil capacity in gearbox: 1.0 lit (0.26 US gal)

Oil recommendation: Esso Univis J-26 - Husky Products
Automatic Transmission Fluid

Fuel System:

Fuel: Gas min 94 oct.

Lubrication: Oil-gas-mixture 4%

Tank capacity: 12.5 lit (3.3 US gal)

Oil recommendation: Husky Products 2-stroke oil
Bel-Ray MCl+

Carburetor: Mikuni

Venturi Ø: 40 mm

Main jet: 360

Needle jet: AA5

Idling jet: 35

Needle position: 3 from top

Air jet: 0.7

Needle: 7DH3

Airscrew opening: 1.5 turn from bottom position

Throttle: 2.5

Electrical System: Motoplat Electrical Equipment

Type: CD1 Head light: 12V 45 W
Ignition advance: 18° Tail light: 12V 10 W
Ignition adv. on
piston before TDC: 2.8 mm
Ignition adv. on fly-
wheel before TDC: 18.5 mm
Light coil: 35W (yellow cable)
Spark plug: Bosch W 4 C

Front fork: Husqvarna

Travel: 270 mm (10.6 in)
Trail: 131 mm (5.2 in)
Fork angle (caster): 28.5°
Air pressure per leg: Max 50 kPa (8 psi)
Oil capacity per leg: 450 cc
Oil recommendation: V.S.P. Husky Fork Oil
SAE 5 - SAE 20

Rear suspension: Husqvarna ITC

Travel: 300 mm (11.8 in)

Wheels and Brakes: Front Rear

* Tires: Trelleborg 300 x 21 500 x 18
Spoke Ø: 4 mm 4.5 mm
Brake drum Ø: 160 mm (6.3 in) 160 mm (6.3 in)

Dimensions:

Length: 2190 mm (86.2 in)
Height: 1250 mm (49.2 in)
Wheelbase 1480 mm (58.3 in)
Seat height: 960 mm (37.8 in)
Ground clearance: 320 mm (12.6 in)
Weight: 113 kg (249 lbs)

Torque specifications:

Flywheel nut: 70 Nm (51 ft. lb)
Cylinder head nuts: 30 Nm (22 ft. lb)
Cylinder head screws: 25 Nm (18 ft. lb)
Engine mounting bolts: 40 Nm (29 ft. lb)
Crankcase screws: 12 Nm (9 ft. lb)
Swing arm mounting nuts: 60 Nm (44 ft. lb)
Screws, reed valve
housing/cylinder: 12 Nm (9 ft. lb)
Spark plug: 40 Nm (29 ft. lb)



1984 TECHNICAL DATA 510 TE

Engine: Single cylinder, 4-Stroke,
4 valves, overhead cam,
Husqvarna RAL system.
(Reed Activated Lubrication)

Displacement: 503 cc
Bore/stroke: 91.5 x 76.4 mm
Compression ratio: 9.5:1

Transmission: 6 Speed Constant Mesh

Primary transmission ratio: 2.63 (79:30)

Number of cogs, gearbox (AS:MS)

1st	34:13 = 2.6	4th	24:23 = 1.04
2nd	29:16 = 1.8	5th	22:25 = 0.88
3rd	26:19 = 1.3	6th	20:27 = 0.74

Secondary transmission ratio: 2.8 (48:17)
Total gear ratios (crankshaft: rear wheel):

1st	19.3:1	4th	7.7:1
2nd	13.4:1	5th	6.5:1
3rd	9.7:1	6th	5.5:1

Clutch: multi disc in oil bath

Chain: 5/8" x 1/4"

Valve clearance (cold): In. .1mm (.004") Ex. .15mm (.006")

De-Compressor cable: 1-2mm clearance on cables with engine running.

Oil capacity in gearbox: 1.9 lit (2 qt.)

Oil recommendation: Bel-Ray Racing Engine Oil MC5

Fuel System: SAE 40

Fuel: Gas min. 91 oct.

Tank capacity: 10 lit. (2.7 US gal)

Carburetor: Dellorto

Venturi Ø: 36 mm

Main jet: 150

Needle jet: AB 265

Idling jet: 52

Starting jet: 70

Acc. pump jet: 35

Throttle: 50/3

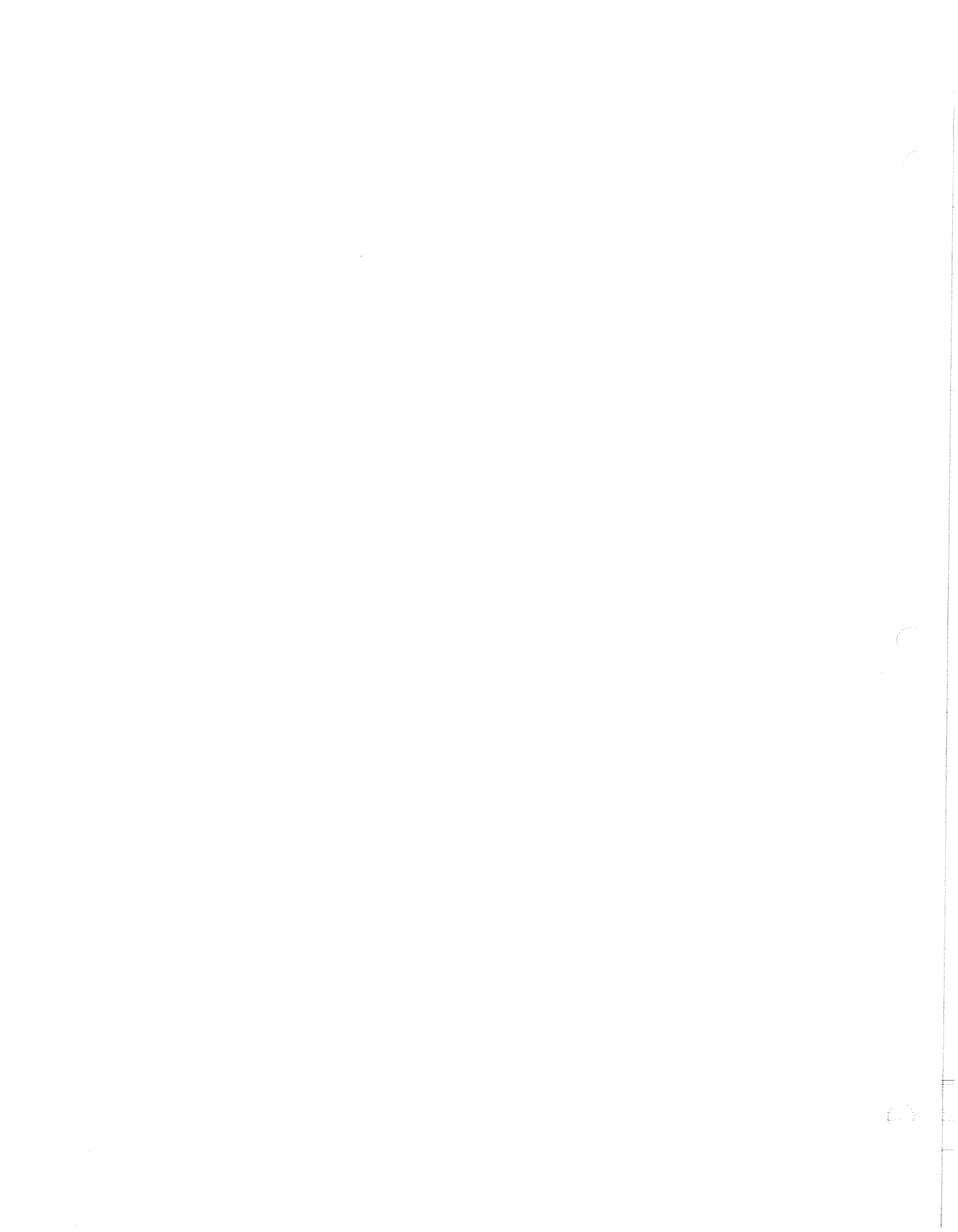
Needle position: 2

Mixture control screw: 1 3/4

Float: 14 pr

(over)

0-033



Electrical System: SEM
SERVICE BULLETIN CD1



Type: 35°
Ignition advance:
Ignition adv. on piston
before TDC: 9.17 mm
Ignition adv. on flywheel
before TDC: 42.5 mm
AC generator: 70 + 70 W
Spark plug: NGK D8 EA
Spark plug gap: .028" - .032"

Electrical Equipment:

Head light: 12 V 45 W (USA)
Tail light: 12 V 5 W (USA)

Front Fork:

Husqvarna

Travel: 270 mm (10.6 in)
Trail: 131 mm (5.1 in)
Fork angle (caster): 28.5°
Air pressure per leg: max. 50 kPa (8 psi)
Oil capacity per leg: 430 cc
Oil recommendation: V.S.P. Husky Fork Oil
SAE 5 - SAE 20

Rear Suspension:

Husqvarna ITC

Travel: 300 mm (11.8 in)

Wheels and Brakes:

	Front:	Rear:
Tires: Trelleborg	3.00 x 21"	5.00 x 18"
Spoke Ø:	4/4.5 mm	
Brake drum Ø:	160 mm (6.3 in)	

Dimensions:

Length: 2190 mm (86.2 in)
Height: 1250 mm (49.2 in)
Height at seat: 960 mm (37.7 in)
Wheelbase: 1480 mm (58.3 in)
Ground clearance: 320 mm (12.5 in)

Weight (dry): 120.2 kg (265 lbs)

Torque Specifications:

Flywheel nut: 70 Nm (51 ft. lb)
Head nuts (above head): 50 Nm (36 ft. lb)
Head nuts (below cylinder): 25 Nm (18 ft. lb)
Engine mounting bolts: 40 Nm (29 ft. lb)
Crankcase screws: 12 Nm (9 ft. lb)
Swing arm mounting nuts: 60 Nm (44 ft. lb)
Spark plug: 20 Nm (15 ft. lb)

Workshop Manual:

Part Number 15 17 736-01



SERVICE BULLETIN

ROUTE TO: SERVICE MGR. _____



1984 TECHNICAL DATA 510 TX

Engine: Single cylinder, 4-stroke,
4 valves, overhead cam,
Husqvarna RAL system.
(Reed Activated Lubrication)

Displacement 503 cc
Bore/stroke: 91.5 x 76.4 mm
Compression ratio: 9.5:1

Transmission: 6 Speed Constant Mesh

Primary transmission ratio: 2.63 (79:30)

Number of cogs, gearbox (AS:MS):

1st	34:13 = 2.6	4th	24:23 = 1.04
2nd	29:16 = 1.8	5th	22:25 = 0.88
3rd	26:19 = 1.3	6th	20:27 = 0.74

Secondary transmission ratio: 2.8 (48:17)

Total gear ratios (crankshaft: rear wheel):

1st	19.3:1	4th	7.7:1
2nd	13.4:1	5th	6.5:1
3rd	9.7:1	6th	5.5:1

Clutch: multi disc in oil bath

Chain: 5/8" x 1/4"

Valve clearance (cold): In. .1mm (.004") Ex. .15mm (.006")

De-Compressor cable: 1-2mm clearance on cables with engine running.

Oil capacity in gearbox: 1.9 lit (2 qt.)

Oil recommendation: Bel-Ray Racing Engine Oil MC5 SAE 40

Fuel System:

Fuel: Gas min 91 oct.

Tank capacity: 10 lit (2.7 US gal)

Carburetor: Dellorto

Venturi ϕ : 36 mm

Main jet: 150

Needle jet: AB 265

Idling jet: 52

Starting jet: 70

Acc. pump jet: 35

Throttle: 50/3

Needle position: 2

Mixture control screw: 1 3/4

Float: 14 pr

0-024

10

Electrical System:	SEM	
Type:	CDI	
Ignition advance:	35°	
Ignition adv. on piston before TDC:	9.17 mm	
Ignition adv. on flywheel before TDC:	42.5 mm	
AC generator:	70 + 70 W	
Spark plug:	NGK D8 EA	
Spark plug gap:	.028" - .032"	
Front Fork:	Husqvarna	
Travel:	300 mm (11.8 in)	
Trail:	131 mm (5.1 in)	
Fork angle (caster):	28.5°	
Air pressure per leg:	max. 50 kPa (8 psi)	
Oil capacity per leg:	500 cc	
Oil recommendation:	V.S.P. Husky Fork Oil SAE 5 - SAE 20	
Rear Suspension:	Husqvarna ITC	
Travel:	345 mm (13.6 in)	
Wheels and Brakes:	Front:	Rear:
Tires: Trelleborg	3.00 x 21"	5.00 x 18"
Spoke Ø:	4/4.5 mm	
Brake drum Ø:	160 mm (6.3 in)	
Dimensions:		
Length:	2190 mm (86.2 in)	
Height:	1240 mm (48.8 in)	
Height at seat:	997 mm (39.2 in)	
Wheelbase:	1498 mm (58.9 in)	
Ground clearance:	385 mm (15.2 in)	
Weight (dry):	117.2 kg (260 lbs)	
Torque Specifications:		
Flywheel nut:	70 Nm (51 ft. lb)	
Head nuts (above head):	50 Nm (36 ft. lb)	
Head nuts (below cylinder):	25 Nm (18 ft. lb)	
Engine mounting bolts:	40 Nm (29 ft. lb)	
Crankcase screws:	12 Nm (9 ft. lb)	
Swing arm mounting nuts:	60 Nm (44 ft. lb)	
Spark plug:	20 Nm (15 ft. lb)	
Workshop Manual:	Part number 15 17 736-01	

SERVICE BULLETIN ROUTE TO: SERVICE MGR. _____



1984 TECHNICAL DATA 500 TC

Engine: Single Cylinder, 4-stroke,
4 valves, overhead cam,
Husqvarna RAL system.
(Reed Activated Lubrication)

Displacement: 490 cc
Bore/stroke: 90.0 x 76.4 mm
Compression ratio: 9.5:1

Transmission: 4 Speed Constant Mesh

Primary transmission ratio: 2.63 (79:30)

Number of cogs, gearbox (AS:MS)

1st	29:17 = 1.7	3rd	24:23 = 1.04
2nd	26:20 = 1.3	4th	22:25 = 0.88

Secondary transmission ratio: 3.4 (48:14)
Total gear ratios (crankshaft: rear wheel):

1st	15.3:1	3rd	9.4:1
2nd	11.7:1	4th	7.9:1

Clutch: multi disc in oil bath

Chain: 5/8" x 1/4"

Valve clearance (cold): In..1mm (.004") Ex..15mm (.006")

De-Compressor cable: 1-2mm clearance on cables with engine running.

Oil capacity in gearbox: 1.9 lit (2 qt.)

Oil recommendation: Bel-Ray Racing Engine Oil MC5
SAE 40

Fuel System:

Fuel: Gas min. 91 oct.
Tank capacity: 10 lit. (2.7 US gal)

Carburetor: Dellorto

Venturi Ø: 36 mm
Main jet: 150
Needle jet: AB 265
Idling jet: 52
Starting jet: 70
Acc. pump jet: 35
Throttle: 50/3
Needle position: 2
Mixture control screw: 1 3/4
Float: 14 pr

(over)

0-035

41

Electrical System:	SEM
Type:	CD ₁
Ignition advance:	35°
Ignition adv. on piston before TDC:	9.17 mm
Ignition adv. on flywheel before TDC:	42.5 mm
AC generator:	70 + 70 W
Spark plug:	NGK D8 EA
Spark plug gap:	.028" - .032"
Front Fork:	Husqvarna
Travel:	300 mm (11.8 in)
Trail:	131 mm (5.1 in)
Fork angle (caster):	28.5°
Air pressure per leg:	max. 50 kPa (8 psi)
Oil capacity per leg:	500 cc
Oil recommendation:	V.S.P. Husky Fork oil SAE 5 - SAE 20
Rear Suspension:	Husqvarna ITC
Travel:	345 mm (13.6 in)
Wheels and Brakes:	Front: Rear:
Tires: Trelleborg	3.00 x 21" 5.00 x 18"
Spoke Ø:	4/4.5 mm
Brake drum Ø:	160 mm (6.3 in)
Dimensions:	
Length:	2190 mm (86.2 in)
Height:	1240 mm (48.8 in)
Height at seat:	997 mm (39.2 in)
Wheelbase:	1498 mm (58.9 in)
Ground clearance:	385 mm (15.2 in)
Weight (dry):	117.2 kg (256 lbs)
Torque Specifications:	
Flywheel nut:	70 Nm (51 ft. lb)
Head nuts (above head):	50 Nm (36 ft. lb)
Head nuts (below cylinder):	25 Nm (18 ft. lb)
Engine mounting bolts:	40 Nm (29 ft. lb)
Crankcase screws:	12 Nm (9 ft. lb)
Swing arm mounting nuts:	60 Nm (44 ft. lb)
Spark plug:	20 Nm (15 ft. lb)
Workshop Manual:	Part number 15 17 736-01



BEL-RAY SAE 40 4-CYCLE RACING
ENGINE OIL WITH "MOLBUAMIN" MC-5

THE ONLY ENGINE OIL RECOMMENDED
FOR THE HUSQVARNA 4-STROKE

Bel-Ray 4-Cycle Racing Engine Oil has been specially formulated to meet the special demands of 4-cycle racing engines. It will increase engine life, reduce friction and enable the engine to run cooler. The result is increased horsepower delivered to the wheel. This is accomplished with the use of the special compound "Molbuamin" developed by the Bel-Ray Company to achieve a high degree of wear protection in the engine oil. The "Molbuamin" in Bel-Ray 4-cycle oil offers extremely high film strength and exceptional anti-wear protection, as demonstrated by its ability to go to 2750 lbs. on the Falex Lubricant Tester.

Bel-Ray 4-Cycle Racing Engine Oil is very stable. Due to the high shear caused by transmission gears and the high degree of heat created by the wet clutches, this oil has been developed to be shear stable and temperature stable. This is readily demonstrated when the oil is ready to be changed. This oil was run in a 750cc street bike for 6000 miles. Laboratory analysis of the used oil indicated a minimal viscosity drop and a minimal drop in load-carrying ability. Inspection of the engine showed no apparent wear and the engine was exceptionally clean.

This exceptionally clean engine is the result of the high detergency and the thermal stabilizers incorporated in its formula. Bel-Ray 4-cycle oil exceeds API Service Classification SE and Federal Specification MIL-L-46152. This, in addition, also assures full positive rust and corrosion protection in the engine.

This product is available in SAE 30 and SAE 40. The SAE 40 is recommended for most applications and the SAE 30 is recommended for extremely cold operating temperatures.

TYPICAL SPECIFICATIONS

Gravity, Specific 60 ^o /60 ^o F	0.870
Viscosity SUS @ 100 ^o F	858
@ 210 ^o F	85
Viscosity Index	100
Pour Point ^o F	-15
Flash Point ^o F	475
<u>Load Carrying Ability:</u>	
Falex Load, Lbs., Minimum	
3000 Lb. Gage	2750

SERVICE BULLETIN

ROUTE TO: Service Mgr. _____



1984 TECHNICAL DATA 125 CR

Engine: Single cylinder two-stroke
liquid cooled
Displacement: 124 cc
Bore std: 55.00 mm
1st over: 55.25 mm
2nd over: 55.50 mm
3rd over: -----
Stroke: 52 mm
Compression ratio: 15.0:1

Transmission: 6 Speed Constant Mesh

Primary transmission ratio: 3.89 (18:70)
Secondary transmission ratio: 4.00 (13:52)
Chain dimension: 5/8" x 1/4"

Number of cogs, gearbox (MS:AS):

1st	15:31	4th	23:24
2nd	18:28	5th	25:22
3rd	21:26	6th	27:21

Total gear ratios (crankshaft: rear wheel):

1st	32.77:1	4th	16.54:1
2nd	24.66:1	5th	13.95:1
3rd	19.63:1	6th	12.33:1

Oil capacity in gearbox: 1.5 lit (0.39 US gal)
Oil recommendation: Engine oil SAE 20

Fuel System:

Fuel: Gas min 94 oct.

Lubrication: Oil-gas-mixture ratio depends on type of oil used
(Normally 3-5% of oil in gasoline)

Tank Capacity: 1.1 Liter

Oil recommendation: Husky Products 2 stroke oil or Bel-Ray MCl+

Carburetor: Mikuni

Venturi ϕ : 36 mm
Main jet: 370
Needle jet: R0
Idling jet: 45
Needle position: 3 from top
Air jet: 2.0
Needle: 6FJ6
Airscrew opening: 1.5 turn from bottom position

Throttle: 2.0

0-036

Electrical System: Motoplat

Type: CD1 Ø 63

Ignition advance: 14.5°

Ignition adv. on piston before TDC: 1.11 mm

Ignition adv. on fly-wheel before TDC: 6.6 mm

Light coil: -----

Spark plug: Bosch W 4 C

Front fork: Husqvarna

Travel: 300 mm (11.8 in)

Trail: 131 mm (5.2 in)

Fork angle (caster): 28.5°

Air pressure per leg: Max 50 kPa (8 psi)

Oil capacity per leg: 500 cc

Oil recommendation: V.S.P. Husky Fork Oil
SAE 5 - SAE 20

Rear suspension: Husqvarna ITC

Travel: 345 mm (13.5 in)

Wheels and Brakes:	Front:	Rear:
Tires: Trelleborg	300 x 21	450 x 18
	Deep Grip	Ten Master
Spoke Ø:	4 mm	4.5 mm
Brake drum Ø:	160 mm (6.3 in)	160 mm (6.3 in)

Dimensions:

Length: 2190 mm (86.2 in)

Height: 1240 mm (48.8 in)

Wheelbase: 1498 mm (58.9 in)

Seat height: 997 mm (39.2 in)

Ground clearance: 385 mm (15.2 in)

Weight: 95 kg (209 lbs)

Torque specifications:

Flywheel nut: 70 Nm (51 ft lbs)

Cylinder head nuts: 25 Nm (18 ft lbs)

Cylinder head screws: 25 Nm (18 ft lbs)

Engine mounting bolts: 40 Nm (29 ft lbs)

Crankcase screws: 12 Nm (9 ft lbs)

Swing arm mounting nuts: 60 Nm (44 ft lbs)

Screws, reed valve housing/cylinder: 12 Nm (9 ft lbs)

Spark plug: 40 Nm (29 ft lbs)

SERVICE BULLETIN

ROUTE TO: SERVICE MGR _____



1984 TECHNICAL DATA 125 WR

Engine: Single cylinder two-stroke
liquid cooled
Displacement: 124 cc
Bore std: 55.00 mm
1st over: 55.25 mm
2nd over: 55.50 mm
3rd over: -----
Stroke: 52 mm
Compression ratio: 15.0:1

Transmission: 6 Speed Constant Mesh

Primary transmission ratio: 3.89 (18:70)
Secondary transmission ratio: 3.20 (15:48)
Chain dimension: 5/8" x 1/4"

Number of cogs, gearbox (MS:AS):

1st	14:33	4th	23:24
2nd	17:29	5th	25:22
3rd	20:26	6th	27:20

Total gear ratios (crankshaft: rear wheel):

1st	29.3:1	4th	13.0:1
2nd	21.2:1	5th	10.0:1
3rd	16.2:1	6th	9.2:1

Oil capacity in gearbox: 1.5 lit
Oil recommendation: Engine oil SAE 20

Fuel System:

Fuel: Gas min. 94 oct.
Lubrication: Oil-gas-mixture. Ration depends on type of
oil used (normally 3-5% of oil in gasoline)
Tank capacity: 11 lit (2.8 US gal)
Oil recommendation: Husky Products 2-stroke oil or Bel-Ray MCl+
Carburetor: Mikuni

Venturi \emptyset : 36 mm
Main jet: 370
Needle jet: R0
Idling jet: 45
Needle position: 3 from top
Air jet: 2.0
Needle: 6FJ6
Airscrew opening: 1 turn from bottom position
Throttle: 2.0

Electrical System: Motoplat Electrical Equipment

Type: CD1 Ø 116 Head light: 12V 40/45W
 Ignition advance: 20° Tail light: 12V 5/10W
 Ignition adv. on piston before TDC: 1.98 mm
 Ignition adv. on fly-wheel before TDC: 20.3 mm
 Light coil: 70 Ø 70W
 Spark plug: Bosch W 3 C

Front fork: Husqvarna

Travel: 270 mm
 Trail: 131 mm
 Fork angle (caster): 28.5°
 Air pressure per leg: Max 50 kPa (8 psi)
 Oil capacity per leg: 450 cc
 Oil recommendation: V.S.P. Husky Fork Oil
 SAE 5 - SAE 20

Rear suspension: Husqvarna ITC

Travel: 300 mm

Wheels and Brakes: Front: Rear:

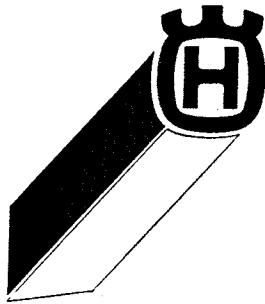
Tires: Trelleborg 300 x 21 450 x 18
 Deep Grip Ten Master
 Spoke Ø: 4 mm 4.5 mm
 Brake drum Ø: 160 mm 160 mm

Dimensions:

Length: 2190 mm (86.2 in)
 Height: 1250 mm (49.2 in)
 Wheelbase 1480 mm (58.2 in)
 Seat height: 960 mm (37.7 in)
 Ground clearance: 320 mm (12.6 in)
 Weight: 98 kg (216 lbs)

Torque specifications:

Flywheel nut: 70 Nm (51 ft. lb)
 Cylinder head nuts: 25 Nm (18 ft. lb)
 Cylinder head screws: 25 Nm (18 ft. lb)
 Engine mounting bolts: 40 Nm (29 ft. lb)
 Crankcase screws: 12 Nm (9 ft. lb)
 Swing arm mounting nuts: 60 Nm (44 ft. lb)
 Screws, reed valve housing/cylinder: 12 Nm (9 ft. lb)
 Spark plug: 40 Nm (29 ft. lb)



Husqvarna motorcycles

TECHNICAL DATA 1985

125 CR WR XC

ENGINE:	Single cylinder 2-stroke
Displacement:	124 cc
Bore std:	55 mm
Bore 1st over:	55.25 mm
Bore 2nd over:	55.50 mm
Bore 3rd over:	—
Stroke:	52 mm
Compression ratio:	15.0:1 (CR, XC), 15.8:1 (WR)
GEARBOX:	6-speed
Oil capacity/gearbox:	1400 cc
Oil type:	Engine oil 20W
FUEL SYSTEM:	
Fuel:	93 octane (leaded)
Engine oil:	Well-known brand only
Oil mixture:	4%
Tank capacity:	10 lit (2.6 US gal) (CR, XC) 11 lit (2.9 US gal) (WR)
CARBURETTOR:	
Type:	Mikuni
Venturi:	36 mm
Main jet:	390
Needle jet:	RD special
Idle jet:	45
Needle position:	3
Air jet:	2.0
Needles:	6L1
Air screw opening:	1.5 laps (CR, XC), 1.25 laps (WR)
Throttle slide:	2.0
ELECTRICAL SYSTEM:	
Type:	Motorol (CR, XC), Sem (WR)
Ignition advance (degrees):	15° (WR, XC), 12° (CR)
Ignition advance (on piston BTDC):	0.75 mm (CR), 1.10 mm (WR, XC)
Light coil capacity:	36 watt (XC) 70 watt/70 watt (WR)
ELECTRICAL EQUIPMENT:	
Headlight:	12 v 4045 W (WR US), H4 (WR EU)
Taillight:	12 v 5/10 W (WR)
Voltage regulator:	Tympanum 610201 12 V (WR)
Spark plug:	Bosch W5C
FRONT FORK:	
Travel:	300 mm (CR, XC) 270 mm (WR)
Oil capacity:	500 cc (CR, XC) 430-500 cc (WR)
Oil type:	5-15 w
REAR SUSPENSION:	
Type:	Husqvarna ITC (WR), single shock (CR, XC)
Travel:	350 mm (CR, XC) 300 mm (WR)
Standard setting shock absorber:	Compression: 10 "kicks" from bottom (CR, XC) Rebound: 11 "kicks" from bottom (CR, XC)
TORQUE SPECIFICATIONS:	
Flywheel:	70 Nm (50 ft. lbs.)
Cylinder head nuts:	30 Nm (22 ft. lbs.) 25 Nm (15 ft. lbs.) (flort butt)
Cylinder head bolts:	40 Nm (28.5 ft. lbs.)
Engine mounting bolts:	80 Nm (44 ft. lbs.)
Swingarm bolt:	12 Nm (.87 ft. lbs.) (WR)
Shock mounting bolts:	40 Nm (28.5 ft. lbs.)
Spark plug:	40 Nm (28.5 ft. lbs.)
REBUILD SPECIFICATIONS:	
Piston clearance at rebore:	0.06 mm (.0025 in.)
Maximum radial play (connecting rod):	0.07-0.1 mm
Maximum ring end gap:	0.8 mm (.030 in.)

240 250 CR WR XC

ENGINE:	Single cylinder 2-stroke
Displacement:	245 cc
Bore std:	68.50 mm
Bore 1st over:	68.75 mm
Bore 2nd over:	69.50 mm
Bore 3rd over:	70.00 mm
Stroke:	70.25 mm
Compression ratio:	15.3:1
GEARBOX:	5-speed (CR), 6-speed (WR, XC)
Oil capacity/gearbox:	1800 cc
Oil type:	Engine oil 20W
FUEL SYSTEM:	
Fuel:	93 octane (leaded)
Engine oil:	Well-known brand only
Oil mixture:	4%
Tank capacity:	10 lit (2.6 US gal) (CR) 11.0 lit (2.9 US gal) (WR) 12.0 lit (3.0 US gal) (XC)
CARBURETTOR:	
Type:	Mikuni (CR, XC) Mikuni (WR)
Venturi:	38 mm
Main jet:	390
Needle jet:	80 (240 WR)
Idle jet:	420 (250 WR)
Needle position:	C4
Air jet:	35
Needles:	4
Air screw opening:	2.0
Throttle slide:	6F40 6DH20 1.5 laps 1.5 laps 4.0 2.5
ELECTRICAL SYSTEM:	
Type:	SEM (WR EU) Motorol (CR, WR US, XC)
Ignition advance (degrees):	10° (CR)
Ignition advance (on piston BTDC):	2.05 mm (WR, XC), 0.61 (CR)
Light coil capacity:	70 watt/70 watt (WR EU) 36 watt (WR US, XC)
ELECTRICAL EQUIPMENT:	
Headlight:	12 v 4045 W (WR US), H4 (WR EU)
Taillight:	12 v 5/10 W (WR)
Voltage regulator:	Tympanum 610201 12 V (WR)
Spark plug:	Bosch W4C
FRONT FORK:	
Travel:	270 mm (WR)
Oil capacity:	300 mm (CR, XC) 430-500 cc (WR)
Oil type:	5-15 w
REAR SUSPENSION:	
Type:	Husqvarna ITC (WR), single shock (CR, XC)
Travel:	300 mm (WR) 350 mm (CR, XC)
Standard setting shock absorber:	Compression: 10 "kicks" from bottom (CR, XC) Rebound: 11 "kicks" from bottom (CR, XC)
TORQUE SPECIFICATIONS:	
Flywheel:	70 Nm (50 ft. lbs.)
Cylinder head nuts:	35 Nm (25 ft. lbs.) 30 Nm (22 ft. lbs.) (flort butt)
Cylinder head bolts:	40 Nm (28.5 ft. lbs.)
Engine mounting bolts:	80 Nm (44 ft. lbs.)
Swingarm bolt:	12 Nm (.87 ft. lbs.) (WR)
Shock mounting bolts:	40 Nm (28.5 ft. lbs.)
Spark plug:	40 Nm (28.5 ft. lbs.)
REBUILD SPECIFICATIONS:	
Piston clearance at rebore:	0.06 mm (.0025 in.)
Maximum radial play (connecting rod):	0.07-0.1 mm
Maximum ring end gap:	0.8 mm (.030 in.)

400 WR

ENGINE:	Single cylinder 2-stroke
Displacement:	395 cc
Bore std:	82.5 mm
Bore 1st over:	83.00 mm
Bore 2nd over:	83.50 mm
Bore 3rd over:	—
Stroke:	74 mm
Compression ratio:	12.1 mm
GEARBOX:	6-speed
Oil capacity/gearbox:	1600 cc
Oil type:	Engine oil 20W
FUEL SYSTEM:	
Fuel:	93 octane (leaded)
Engine oil:	Well-known brand only
Oil mixture:	4%
Tank capacity:	11 lit (2.9 US gal)
CARBURETTOR:	
Type:	Mikuni
Venturi:	38 mm
Main jet:	75 (WR EU), 400 (WR US)
Needle jet:	O6
Idle jet:	35
Needle position:	4
Air jet:	2.0
Needles:	6DH3
Air screw opening:	1.5 laps
Throttle slide:	2.5
ELECTRICAL SYSTEM:	
Type:	SEM (WR EU), Motorol (WR US)
Ignition advance (degrees):	17°
Ignition advance (on piston BTDC):	2.0
Light coil capacity:	70 watt/70 watt (WR EU) 36 watt (WR US)
ELECTRICAL EQUIPMENT:	
Headlight:	12 v 4045 W (WR US), H4 (WR EU)
Taillight:	12 v 5/10 W
Voltage regulator:	Tympanum 610201 12 V
Spark plug:	Bosch W4C
FRONT FORK:	
Travel:	270 mm
Oil capacity:	430-500 cc
Oil type:	5-15 w
REAR SUSPENSION:	
Type:	Husqvarna ITC
Travel:	300 mm
Standard setting shock absorber:	Compression: 10 "kicks" from bottom (CR, XC) Rebound: 11 "kicks" from bottom (CR, XC)
TORQUE SPECIFICATIONS:	
Flywheel:	50 Nm (37 ft. lbs.)
Cylinder head nuts:	35 Nm (25 ft. lbs.)
Cylinder head bolts:	30 Nm (22 ft. lbs.)
Engine mounting bolts:	40 Nm (28.5 ft. lbs.)
Swingarm bolt:	60 Nm (44 ft. lbs.)
Shock mounting bolts:	12 Nm (.87 ft. lbs.) (WR)
Spark plug:	40 Nm (28.5 ft. lbs.)
REBUILD SPECIFICATIONS:	
Piston clearance at rebore:	0.06 mm (.0025 in.)
Maximum radial play (connecting rod):	0.07-0.1 mm
Maximum ring end gap:	0.8 mm (.030 in.)

500 CR XC

ENGINE:	Single cylinder 2-stroke
Displacement:	498 cc
Bore std:	86 mm
Bore 1st over:	86.50 mm
Bore 2nd over:	87.00 mm
Bore 3rd over:	—
Stroke:	84 mm
Compression ratio:	11.3:1
GEARBOX:	4-speed (CR), 6-speed (XC)
Oil capacity/gearbox:	1600 cc
Oil type:	Engine oil 20W
FUEL SYSTEM:	
Fuel:	93 octane (leaded)
Engine oil:	Well-known brand only
Oil mixture:	4%
Tank capacity:	10 lit (2.6 US gal) (CR) 12.0 lit (3.0 US gal) (XC)
CARBURETTOR:	
Type:	Mikuni
Venturi:	40 mm
Main jet:	350
Needle jet:	AA5
Idle jet:	58
Needle position:	3
Air jet:	0.7
Needles:	7DH3
Air screw opening:	1.5 laps
Throttle slide:	2.5
ELECTRICAL SYSTEM:	
Type:	Motorol
Ignition advance (degrees):	16.5°
Ignition advance (on piston BTDC):	2.2 mm
Light coil capacity:	36 watt (XC)
ELECTRICAL EQUIPMENT:	
Headlight:	12 v 4045 W (WR US), H4 (WR EU)
Taillight:	12 v 5/10 W
Voltage regulator:	Tympanum 610201 12 V
Spark plug:	Bosch W4C
FRONT FORK:	
Travel:	300 mm
Oil capacity:	500 cc
Oil type:	5-15 w
REAR SUSPENSION:	
Type:	Husqvarna Single shock
Travel:	350 mm
Standard setting shock absorber:	Compression: 10 "kicks" from bottom (CR, XC) Rebound: 11 "kicks" from bottom (CR, XC)
TORQUE SPECIFICATIONS:	
Flywheel:	70 Nm (50 ft. lbs.)
Cylinder head nuts:	35 Nm (25 ft. lbs.)
Cylinder head bolts:	30 Nm (22 ft. lbs.)
Engine mounting bolts:	40 Nm (28.5 ft. lbs.)
Swingarm bolt:	80 Nm (44 ft. lbs.)
Shock mounting bolts:	12 Nm (.87 ft. lbs.) (WR)
Spark plug:	40 Nm (28.5 ft. lbs.)
REBUILD SPECIFICATIONS:	
Piston clearance at rebore:	0.06 mm (.0025 in.)
Maximum radial play (connecting rod):	0.07-0.1 mm
Maximum ring end gap:	0.8 mm (.030 in.)

SERVICE BULLETIN



1985 TECHNICAL DATA 125WR

Engine: Single cylinder two-stroke
liquid cooled
Displacement: 124cc
Bore std: 55.00mm
1st over: 55.25mm
2nd over: 55.50mm
3rd over: -----
Stroke: 52mm
Compression ratio: 15.8:1

Transmission: 6 Speed Constant Mesh

Primary transmission: 3.89 (18:70)
Secondary transmission ratio: 3.00 (16:48)
Chain dimension: 5/8" x 1/4"

Number of cogs, gearbox (MS:AS):

1st 14:33	4th 23:24
2nd 17:29	5th 25:22
3rd 20:26	6th 27:20

Total gear ratios (crankshaft: rear wheel):

1st 27.51:1	4th 12.18:1
2nd 19.91:1	5th 10.27:1
3rd 15.17:1	6th 8.64:1

Oil capacity in gearbox: 1.5 lit
Oil recommendation: Engine oil SAE 20

Fuel System:

Fuel: Gas min. 94 oct.

Lubrication: Oil-gas-mixture. Ration depends on type of oil used (normally 3-5% of oil in gasoline)

Tank capacity: 11 lit (2.8 US gal)

Oil recommendation: Husky Products 2-stroke oil or Bel-Ray MC1+

Carburetor: Mikuni

Venturi Ø: 36mm

Main jet: 360

Needle jet: MOD. (16-13-801-01)

Idling jet: 45

Needle position: 3 from top

Air jet: 2.0

Needle: 6L1

Airscrew opening: 1 1/4 turn from bottom position

Throttle: 2.0

TECHNICAL SPECIFICATIONS

4-001

Electrical System:	SEM	Electrical Equipment
Type:	CD1 \emptyset 116	Head light: 12V 60/55W
Ignition advance:	15 $^{\circ}$	Tail light: 12V 5/10W
Ignition adv. on piston before TDC:	1.10	
Ignition adv. on fly-wheel before TDC:		
Light coil:	70 \emptyset 70W	
Spark plug:	Bosch W 3 C	

Front fork:	Husqvarna
Travel:	270mm
Trail:	131mm
Fork angle (caster):	28.5 $^{\circ}$
Air pressure per leg:	Max 50 kPa (8 psi) if air is used
Oil capacity per leg:	450cc
Oil recommendation:	VSP Husky Fork Oil SAE 5 - SAE 20

Rear suspension: Husqvarna ITC

Travel: 300mm

Wheels and Brakes:	Front:	Rear:
Tires: Trelleborg	300 x 21	450 x 18
Spoke \emptyset :	Deep Grip	Ten Master
Brake drum \emptyset :	4mm	4.5mm
	160mm	160mm

Dimensions:

Length:	2190mm (86.2 in.)
Height:	1250mm (49.2 in.)
Wheelbase	1480mm (58.2 in.)
Seat height:	960mm (37.7 in.)
Ground clearance:	320mm (12.6 in.)
Weight:	98kg (216 lbs.)

Torque specifications:

Flywheel nut:	70 Nm (51 ft. lb)
Cylinder head nuts:	25 Nm (18 ft. lb)
Cylinder head screws:	25 Nm (18 ft. lb)
Engine mounting bolts:	40 Nm (29 ft. lb)
Crankcase screws:	12 Nm (9 ft. lb)
Swing arm mounting nuts:	60 Nm (44 ft. lb)
Screws, reed valve housing/cylinder:	12 Nm (9 ft. lb)
Spark plug:	40 Nm (29 ft. lb)

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

SERVICE BULLETIN

1985 TECHNICAL DATA 125XC



Engine: Single cylinder two-stroke
liquid cooled
Displacement: 124cc
Bore std: 55.00mm
1st over: 55.25mm
2nd over: 55.50mm
3rd over: -----
Stroke: 52.00mm
Compression ratio: 15.0:1

Transmission: 6 Speed Constant Mesh

Primary transmission: 3.89 (18:70)
Secondary transmission ratio: 4.00 (13:52)
Chain dimension: 5/8" x 1/4"

Number of cogs, gearbox (MS:AS):

1st	14:33	4th	23:24
2nd	17:29	5th	25:22
3rd	20:26	6th	27:20

Total gear ratios (crankshaft: rear wheel):

1st	36.7:1	4th	16.2:1
2nd	26.5:1	5th	13.7:1
3rd	20.2:1	6th	11.5:1

Oil capacity in gearbox: 1.5 lit (0.39 US gal)
Oil recommendation: Engine oil SAE 20

Fuel System:

Fuel: Gas min 94 oct.
Lubrication: Oil-gas-mixture 4%

Tank capacity: 10 lit (2.6 US gal)
Oil recommendation: Husky Products two-stroke oil or Bel-Ray MC1+

Carburetor: Mikuni

Venturi \emptyset : 36mm
Main jet: 360
Needle jet: MOD. (16-13-801-01)
Idling jet: 45
Needle position: 3 from top
Air jet: 2.0
Needle: 6L1
Airscrew opening: 1.5 turn from bottom position

Throttle: 2.0

TECHNICAL SPECIFICATIONS

4-002

Electrical System: Motoplat
Type: CD1 Ø 116
Ignition advance: 14.5°
Ignition adv. on piston before TDC: 1.0mm
Ignition adv. on fly-wheel before TDC: 14.7mm
Light coil: 35 W (yellow cable)
Spark plug: Bosch W 2 C

Front fork: Husqvarna

Travel: 300mm (11.8 in)
Trail: 120mm (4.72 in)
Fork angle (caster): 27°
Air pressure per leg: Max 50 kPa (8 psi) if air is used
Oil capacity per leg: 500cc
Oil recommendation: VSP Husky Fork Oil
SAE 5 - SAE 20

Rear suspension: Husqvarna Single Shock System
Ohlins Piggy Back Shock, Light Alloy Swing Arm

Travel: 350mm (13.8 in)

Wheels and Brakes:	Front:	Rear:
Tires: Trelleborg	300 x 21 Deep Grip	450 x 18 Ten Master
Spoke Ø:	4mm	4.5mm
Brake drum Ø:	Disc 230mm (9.05 in)	160mm (6.3 in)

Dimensions:

Length: 2204mm (86.8 in)
Height: 1240mm (48.8 in)
Wheelbase: 1512mm (59.5 in)
Seat height: 975mm (38.4 in)
Ground clearance: 390mm (15.4 in)
Weight: 93kg (205 lbs)

Torque specifications:

Flywheel nut: 70 Nm (51 ft. lb)
Cylinder head nuts: 25 Nm (18 ft. lb)
Cylinder head screws: 25 Nm (18 ft. lb)
Engine mounting bolts: 40 Nm (29 ft. lb)
Crankcase screws: 12 Nm (9 ft. lb)
Swing arm mounting nuts: 60 Nm (44 ft. lb)
Screws, reed valve housing/cylinder: 12 Nm (9 ft. lb)
Spark plug: 40 Nm (29 ft. lb)

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

SERVICE BULLETIN

1985 TECHNICAL DATA 125CR



Engine: Single cylinder two-stroke liquid cooled

Displacement: 124cc
Bore/Stroke: 55.0mm/52.0mm
Compression ratio: 15.0:1

Transmission: 6-speed

Primary transmission ratio: 3.89 (18/70)

Number of cogs, gear box (MS,AS)

1st	4th
2nd	5th
3rd	6th

Secondary transmission ratio: 4.0 (13:52)

Total gear ratios (crankshaft: rear wheel):

1st	32.15:1	4th	17.78:1
2nd	25.62:1	5th	15.56:1
3rd	21.29:1	6th	14.26:1

Clutch: Multi disc in oil bath

Chain: 5/8 x 1/4

Oil capacity in gearbox: 1.5 Lit (.039 US gal)

Oil recommendation: Bel Ray MCI+

Fuel System:

Fuel: Gas min 94 oct. oil-gas mixture - 4%

Tank capacity: 10 Lit (2.6 US gal)

Carburetor: Mikuni

Venturi \emptyset : 36mm

Main jet: 370

Needle jet: R0

Idling jet: 45

Needle: 6FJ6

Throttle: 2.0

Needle position: #3

Mixture control screw: 1.5 turns from bottom position

TECHNICAL SPECIFICATIONS

(over)

4-003

Electrical System: Motoplat

Type: CDI Ø63
Ignition advance: 12°
Ignition adv. on piston
before TDC: .075mm
Ignition adv. on flywheel
before TDC:
AC generator:
Spark plug: Bosch W 2 C
Spark plug gap:

Electrical Equipment:

Head light: N/A
Tail light: N/A

Front Fork: Husqvarna

Travel: 300mm (11.8 in.)
Trail: 120mm (4.72 in.)
Fork angle (caster): 27°
Air pressure per leg: Max 50 kPa (8 psi) if air is used
Oil capacity per leg: 500cc
Oil recommendation: V.S.P. Husky fork oil
SAE 5 - SAE 20

Rear Suspension: Husqvarna single shock system
Ohlins piggy back shock
Travel: 350mm (13.8 in.)

Wheels and Brakes:	Front:	Rear:
Tires: Metzler	300 x 21	400 x 18
Spoke Ø:	4mm	4.5mm
Brake drum Ø:	Disc-230mm (9.05 in.)	160mm (6.3 in.) drum

Dimensions:

Length: 2204mm (86.8 in.)
Height: 1240mm (48.8 in.)
Height at seat: 975mm (38.4 in.)
Wheelbase: 1512mm (59.5 in.)
Ground clearance: 310mm (15.4 in.)

Weight (dry): 92 kg

Torque Specifications:

Flywheel nut: 70 Nm (51 ft. lbs.)
Cylinder head nuts: 25 Nm (18 ft. lbs.)
Cylinder head screws: 25 Nm (18 ft. lbs.)
Engine mounting bolts: 40 Nm (29 ft. lbs.)
Crankcase screws: 12 Nm (10 ft. lbs.)
Swing arm mounting nuts: 60 Nm (44 ft. lbs.)
Spark plug: 40 Nm (29 ft. lbs.)

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

SERVICE BULLETIN

1985 TECHNICAL DATA 250WR



Engine: Single cylinder two-stroke liquid cooled

Displacement: 245cc
Bore/Stroke: 69.50mm/64.50mm
Compression ratio: 15.0:1

Transmission: 6-speed

Primary transmission ratio: 2.63 (30:79)

Number of cogs, gear box (MS:AS)

1st	14.33	4th	23.24
2nd	17.29	5th	25.22
3rd	20.26	6th	27.20

Secondary transmission ratio: 4.0 (13:52)

Total gear ratios (crankshaft: rear wheel):

1st	24.8:1	4th	11.0:1
2nd	18.0:1	5th	9.3:1
3rd	13.7:1	6th	7.8:1

Clutch: Multi disc in oil bath

Chain: 5/8 x 1/4

Oil capacity in gearbox: 1.6 Lit (0.42 US gal)

Oil recommendation: Engine oil SAE 20

Fuel System:

Oil recommendation - Bel Ray MCI+

Fuel: Gas min. 94 oct.

Tank capacity: 11 Lit. (2.8 US gal)

Lubrication oil - gas - mixture 4%

Carburetor: Mikuni

Venturi \emptyset : 38mm

Main jet: 420

Needle jet: R-2

Idling jet: 35

Air jet: 2.5

Throttle: 2.0

Needle position: 4 from top

Mixture control screw: 1.5 turns from bottom position

Needle: 6DH20

TECHNICAL SPECIFICATIONS

(over)

4-004

Electrical System: Motoplat

Type: CDI Ø116
Ignition advance: 20°
Ignition adv. on piston
before TDC: 2.55mm
Ignition adv. on flywheel
before TDC: 20.3mm
AC generator: 45W (yellow cable)
Spark plug: Bosch W 4 C
Spark plug gap: .025 Thousands

Electrical Equipment:

Head light: 12V 45W
Tail light: 12V 5W

Front Fork: Husqvarna

Travel: 270mm (10.6 in.)
Trail: 131mm (6.0 in.)
Fork angle (caster): 28.5°
Air pressure per leg: (Max. 50 kPa - 8 psi) if air is used
Oil capacity per leg: 450cc
Oil recommendation: VSP Husky fork oil
SAE 5 - SAE 20

Rear Suspension: Husqvarna ITC

Travel: 300mm (11.8 in.)

Wheels and Brakes:	Front:	Rear:
Tires: Trelleborg	300 x 21	500 x 18
Spoke Ø:	4mm	4.5mm
Brake drum Ø:	160mm (6.3 in.)	160mm (6.3 in.)

Dimensions:

Length: 2190mm (86.2 in.)
Height: 1250mm (49.2 in.)
Height at seat: 960mm (37.8 in.)
Wheelbase: 1480mm (58.3 in.)
Ground clearance: 320mm (12.6 in.)

Weight (dry): 108 kg (238 lbs.)

Torque Specifications:

Flywheel nut:	70 Nm (51 ft. lbs.)
Cylinder head nuts:	35 Nm (25 ft. lbs.)
Cylinder head screws:	30 Nm (22 ft. lbs.)
Engine mounting bolts:	40 Nm (29 ft. lbs.)
Crankcase screws:	12 Nm (10 ft. lbs.)
Swing arm mounting nuts:	60 Nm (44 ft. lbs.)
Spark plug:	40 Nm (29 ft. lbs.)
Screws/reed valve housing to cylinder:	12 Nm (10 ft. lbs.)

Specifications subject to change without notice

SERVICE BULLETIN



1985 TECHNICAL DATA 250XC

Engine: Single cylinder two-stroke
liquid cooled
Displacement: 245cc
Bore std: 69.50mm
1st over: 69.75mm
2nd over: 70.00mm
3rd over: 70.25mm
Stroke: 64.50mm
Compression ratio: 15.2:1

Transmission: 6 Speed Constant Mesh

Primary transmission: 2.63 (30:79)
Secondary transmission ratio: 4.00 (13:52)
Chain dimension: 5/8" x 1/4"

Number of cogs, gearbox (MS:AS):

1st	14:33	4th	23:24
2nd	17:29	5th	25:22
3rd	20:26	6th	27:20

Total gear ratios (crankshaft: rear wheel):

1st	24.8:1	4th	10.98:1
2nd	17.95:1	5th	9.26:1
3rd	13.68:1	6th	7.79:1

Oil capacity in gearbox: 1.5 lit
Oil recommendation: Engine oil SAE 20

Fuel System:

Fuel: Gas min 94 oct.
Lubrication: Oil-gas-mixture 4%

Tank capacity: 12 lit (3.2 US gal)
Oil recommendation: Husky Products 2-stroke or Bel-Ray MC1+

Carburetor: Mikuni

Venturi \emptyset : 38mm
Main jet: 390
Needle jet: Q4
Idling jet: 35
Needle position: 4 from top
Air jet:
Needle: 6FJ40
Airscrew opening: 1/5 turn from bottom position

Throttle: 4.0

TECHNICAL SPECIFICATIONS

4-005

Electrical System: Motoplat
Type: CD1 Ø 116
Ignition advance: 20°
Ignition adv. on piston before TDC: 2.55mm
Ignition adv. on fly-wheel before TDC: 20.4mm
Light coil: 35 W (yellow cable)
Spark plug: Bosch W 4 C

Front fork: Husqvarna
Travel: 300mm (11.8 in)
Trail: 120mm (4.72 in)
Fork angle (caster): 27°
Air pressure per leg: Max 50 kPa (8 psi) if air is used
Oil capacity per leg: 500cc
Oil recommendation: VSP Husky Fork Oil
SAE 5 - SAE 20

Rear suspension: Husqvarna light alloy swing arm single shock system. Ohlins piggy back.
Travel: 350mm (13.8 in)

Wheels and Brakes:	Front:	Rear:
Tires: Trelleborg	300 x 21"	450 x 18"
Spoke Ø:	Deep Grip	Ten Master
Brake drum Ø:	4mm	4.5mm
	Disc 230mm (9.05 in)	160mm Drum (6.3 in)

Dimensions:

Length: 2204mm (86.8 in)
Height: 1240mm (48.8 in)
Wheelbase: 1512mm (59.5 in)
Seat height: 975mm (38.4 in)
Ground clearance: 390mm (15.4 in)
Weight: 99kg (218 lbs)

Torque specifications:

Flywheel nut: 70 Nm (51 ft. lb)
Cylinder head nuts: 35 Nm (26 ft. lb)
Cylinder head screws: 30 Nm (22 ft. lb)
Engine mounting bolts: 40 Nm (29 ft. lb)
Crankcase screws: 12 Nm (9 ft. lb)
Swing arm mounting nuts: 60 Nm (44 ft. lb)
Screws, reed valve housing/cylinder: 12 Nm (9 ft. lb)
Spark plug: 40 Nm (29 ft. lb)

SERVICE BULLETIN

1985 TECHNICAL DATA 250CR



Engine: Single cylinder two-stroke liquid cooled

Displacement: 245cc
Bore/Stroke: 69.5mm/64.5mm
Compression ratio: 15.0:1

Transmission: 5-speed

Primary transmission ratio: 2.63 (30:79)

Number of cogs, gear box (MS:AS)

1st	16:31	4th	23:24
2nd	18:28	5th	25:22
3rd	21:26		

Secondary transmission ratio: 3.71 (14:52)

Total gear ratios (crankshaft: rear wheel):

1st	18.95:1	4th	10.21:1
2nd	15.21:1	5th	8.61:1
3rd	12.11:1		

Clutch: Multi disc in oil bath

Chain: 5/8 x 1/4

Oil capacity in gearbox: 1.6 Lit. (0.42 US gal)
Oil recommendation: Engine oil SAE 20

Fuel System:

Oil recommendation - Bel Ray MCI+
Fuel: Gas min. 94 oct.
Tank capacity: 10 Lit. (2.6 US gal)
Lubrication oil - gas - mixture 4%
Carburetor: Mikuni

Venturi Ø: 38mm
Main jet: 390
Needle jet: Q4
Idling jet: 45
Needle: 6FJ40
Throttle: 4.0
Needle position: #4
Mixture control screw: 1.5 turns from bottom position

TECHNICAL SPECIFICATIONS

(over)

4-006

Electrical System: Motoplat

Type: CDI 63Ø
Ignition advance: 10°
Ignition adv. on piston
before TDC: .61mm
Ignition adv. on rotor
before TDC: 5.5mm
AC generator:
Spark plug: Bosch W 2 C
Spark plug gap: .025 Thousands

Electrical Equipment:

Head light:
Tail light:

Front Fork: Husqvarna

Travel: 300mm (11.8 in.)
Trail: 120mm (4.72 in.)
Fork angle (caster): 27°
Air pressure per leg: Max 50 kPa (8 psi) if air is used
Oil capacity per leg: 500cc
Oil recommendation: VSP Husky fork oil
SAE 5 - SAE 20

Rear Suspension: Husqvarna, light alloy swing arm,
single shock Ohlins piggy back.

Travel: 350mm (13.5 in.)

Wheels and Brakes:	Front:	Rear:
Tires: Metzler	300 x 21	450 x 18
Spoke Ø:	4mm	4.5mm
Brake drum Ø:	Disc 230mm (9.05 in.)	160mm (6.3 in.)

Dimensions:

Length: 2204mm (86.8 in.)
Height: 1240mm (48.9 in.)
Height at seat: 975mm (38.4 in.)
Wheelbase: 1512mm (59.5 in.)
Ground clearance: 310mm (15.4 in.)

Weight (dry): 99 kg (218 lbs.)

Torque Specifications:

Flywheel nut:	70 Nm (51 ft. lbs.)
Cylinder head nuts:	55 Nm (25 ft. lbs.)
Cylinder head screws:	30 Nm (22 ft. lbs.)
Engine mounting bolts:	40 Nm (29 ft. lbs.)
Crankcase screws:	12 Nm (10 ft. lbs.)
Swing arm mounting nuts:	60 Nm (44 ft. lbs.)
Spark plug:	40 Nm (29 ft. lbs.)

SERVICE BULLETIN

1985 TECHNICAL DATA 400WR



Engine: Single cylinder two-stroke
liquid cooled

Displacement: 395.6cc

Bore std: 82.5mm

1st over: 83.5mm

2nd over: 83.5mm

3rd over: -----

Stroke: 74mm

Compression ratio: 12.1:1

Transmission: 6-speed Constant Mesh

Primary transmission ratio: 2.3:1 (33.76)

Secondary transmission ratio: 3.47:1 (15.52)

Chain Dimension: 5/8" x 1/4"

Number of cogs, gearbox (ms:as):

1st 13:34	4th 23:24
2nd 16:29	5th 25:22
3rd 19:26	6th 27:20

Total gear ratios (crankshaft: rear wheel):

1st 20.9	4th 8.3
2nd 14.5	5th 7.0
3rd 10.9	6th 5.9

Oil capacity in gearbox: 1.6 lit. (0.42 US gal)

Oil recommendation: Engine oil SAE 20

Fuel System:

Fuel: Gas min 94 oct.

Lubrication: Oil-gas-mixture 4%

Tank capacity: 11 lit. (2.8 US gal)

Oil recommendation: Bel-Ray MC1+

Carburetor: Mikuni

Venturi \emptyset : 38mm

Main jet: 400

Needle jet: Q6

Needle: 6DH3

Needle position: 4 from top

Idle jet: 35

Air jet: 2.0

Airscrew opening: 1.5 turn from bottom position

Throttle: 2.5

TECHNICAL SPECIFICATIONS

4-007

Electrical System:	Motoplat	Electrical Equipment
Type:	CD1 Ø 116	Head light: 12V 45 W
Ignition advance:	17°	Tail light: 12V 5 W
Ignition adv. on piston before TDC:	2.0mm	
Ignition adv. on fly-wheel before TDC:	17.1mm	
Light coil:	45 W yellow cable	
Spark plug:	Bosch W 4 C	
Front fork:	Husqvarna	
Travel:	270mm (10.6 in.)	
Trail:	131mm (5.2 in.)	
Fork angle (caster):	28.5°	
Air pressure per leg:	Max 50 kPa (8 psi) if air is used	
Oil capacity per leg:	450cc	
Oil recommendation:	VSP Husky Fork Oil SAE 5 - SAE 20	
Rear suspension:	Husqvarna ITC	
Travel:	300mm (11.8 in.)	
Wheels and Brakes:	Front:	Rear:
Tires: Trelleborg	300 x 21	500 x 18
Spoke Ø:	4mm	4.5mm
Brake drum Ø:	160mm (6.3 in)	160mm (6.3 in)
Dimensions:		
Length:	2190mm (86.2 in.)	
Height:	1250mm (49.2 in.)	
Wheelbase:	1480mm (58.3 in.)	
Seat Height:	960mm (37.8 in.)	
Ground clearance:	320mm (12.6 in.)	
Weight:	110kg (242 lbs.)	
Torque specifications:		
Flywheel nut:	70 Nm (51 ft. lbs.)	
Cylinder head nuts:	35 Nm (25 ft. lbs.)	
Cylinder head screws:	30 Nm (22 ft. lbs.)	
Engine mounting bolts:	40 Nm (29 ft. lbs.)	
Crankcase screws:	12 Nm (10 ft. lbs.)	
Swing arm mounting nuts:	60 Nm (44 ft. lbs.)	
Screws, reed valve housing/cylinder:	12 Nm (10 ft. lbs.)	
Spark plug:	40 Nm (29 ft. lbs.)	

Specifications subject to change without notice

SERVICE BULLETIN



1985 TECHNICAL DATA 500XC

Engine: Single cylinder two-stroke
liquid cooled
Displacement: 488cc
Bore std: 86.00mm
1st over: 86.50mm
2nd over: 87.00mm
3rd over: -----
Stroke: 84.00mm
Compression ratio: 11.3:1

Transmission: 6 Speed Constant Mesh

Primary transmission: 1.79 (39:70)
Secondary transmission ratio: 3.71 (14.52)
Chain dimension: 5/8" x 1/4"

Number of cogs, gearbox (MS:AS):

1st	13:34	4th	23:24
2nd	16:29	5th	25:22
3rd	19:26	6th	27:20

Total gear ratios (crankshaft: rear wheel):

1st	17.44:1	4th	6.96:1
2nd	12.08:1	5th	5.87:1
3rd	9.12:1	6th	4.94:1

Oil capacity in gearbox: 1.6 lit (0.42 US gal)
Oil recommendation: Engine oil SAE 20

Fuel System:

Fuel: Gas min 94 oct.
Lubrication: Oil-gas- mixture 4%

Tank capacity: 12 lit (3.2 US gal)
Oil recommendation: Husky Products 2-stroke or Bel-Ray MC1+

Carburetor: Mikuni

Venturi \emptyset : 40mm
Main jet: 350
Needle jet: AA5
Idling jet: 55
Needle position: 3 from top
Air jet: 0.7
Needle: 7DH3
Airscrew opening: 1.5 turn from bottom position

Throttle: 2.5

TECHNICAL SPECIFICATIONS

4-008

Electrical System: Motoplat
Type: CD1 Ø 116
Ignition advance: 18°
Ignition adv. on
piston before TDC: 2.64mm
Ignition adv. on fly-
wheel before TDC: 18.5mm
Light coil: 35 W (yellow cable)
Spark plug: Bosch W 4 C

Front fork: Husqvarna
Travel: 300mm (11.8 in)
Trail: 120mm (4.72 in)
Fork angle (caster): 27°
Air pressure per leg: Max 50 kPa (8 psi) if air is used
Oil capacity per leg: 500cc
Oil recommendation: VSP Husky Fork Oil
SAE 5 - SAE 20

Rear suspension: Husqvarna Single Shock System
Ohlins Piggy Back Shock, Light Alloy Swing Arm
Travel: 350mm (13.8 in)

Wheels and Brakes:	Front:	Rear:
Tires: Trelleborg	300 x 21"	500 'x 18"
Spoke Ø:	Deep Grip	Ten Master
Brake drum Ø:	4mm	4.5mm
<i>21MS</i>	Disc 230mm (9.05 in)	160mm (6.3 in) Drum
	<i>1.6 FRONT</i>	<i>2.5 REAR</i>

Dimensions:

Length: 2204mm (86.9 in)
Height: 1240mm (48.8 in)
Wheelbase: 1512mm (59.5 in)
Seat height: 975mm (38.4 in)
Ground clearance: 390mm (15.4 in)
Weight: 103kg (227 lbs)

Torque specifications:

Flywheel nut: 70 Nm (51 ft. lb)
Cylinder head nuts: 35 Nm (26 ft. lb)
Cylinder head screws: 30 Nm (22 ft. lb)
Engine mounting bolts: 40 Nm (29 ft. lb)
Crankcase screws: 12 Nm (9 ft. lb)
Swing arm mounting nuts: 60 Nm (44 ft. lb)
Screws, reed valve
housing/cylinder: 12 Nm (9 ft. lb)
Spark plug: 40 Nm (29 ft. lb)

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

SERVICE BULLETIN



1985 TECHNICAL DATA 500CR

Engine: Single cylinder two-stroke liquid cooled

Displacement: 488cc
Bore/Stroke: 86.0mm x 84.0mm
Compression ratio: 11.3:1

Transmission: 4-speed

Primary transmission ratio: 2.3 to 1 (33:76)

Number of cogs, gear box (MS:AS)

1st	17:29	4th	25:22
2nd	20:26		
3rd	23:24		

Secondary transmission ratio: 3.71 to 1 (14:52)

Total gear ratios (crankshaft: rear wheel):

1st	14.59:1	4th	7.53:1
2nd	11.12:1		
3rd	8.93:1		

Clutch: Multi disc in oil bath
Chain: 5/8" x 1/4"

Oil capacity in gearbox: 1.6 Lit. (0.42 US gal)
Oil recommendation: Engine oil SAE 20

Fuel System:

Oil recommendation - Bel-Ray MC1+
Fuel: Gas - min. 94 oct.
Tank capacity: 10 Lit. (2.6 US gal)
Lubrication oil-gas-mixture 4%
Carburetor: Mikuni

Venturi \emptyset :	40mm
Main jet:	360
Needle jet:	AA-5
Idling jet:	55
Air jet:	0.7
Throttle:	2.5
Needle position:	#3
Mixture control screw:	1.5 turns from bottom position
Needle:	7DH3

TECHNICAL SPECIFICATIONS

(over)

4-009

Electrical System: Motoplat

Type: CDI Ø63
Ignition advance: 18°
Ignition adv. on piston
before TDC: 2.64mm
Ignition adv. on rotor
before TDC: 9.9mm
AC generator: N/A
Spark plug: Bosch W 2 C
Spark plug gap: .025 thousands

Electrical Equipment:

Head light:
Tail light:

Front Fork: Husqvarna

Travel: 300mm (11.8 in.)
Trail: 120mm (4.72 in.)
Fork angle (caster): 27°
Air pressure per leg: Max 50 kPa (8 psi) if air is used
Oil capacity per leg: 500cc
Oil recommendation: VSP Husky fork oil

Rear Suspension: Husqvarna light alloy swing arm single
shock system. Ohlins piggy back.
Travel: 350mm (13.8 in.)

Wheels and Brakes:	Front:	Rear:
Tires: Metzler	300 x 21	450 x 18
Spoke Ø:	4mm	4.5mm
Brake drum Ø:	Disc 230mm (9.06 in.)	160mm (6.3 in.)

Dimensions:

Length: 2204mm (86.8 in.)
Height: 1240mm (48.8 in.)
Height at seat: 975mm (38.4 in.)
Wheelbase: 1512mm (59.5 in.)
Ground clearance: 390mm (15.4 in.)

Weight (dry): 102 kg (224 lbs.)

Torque Specifications:

Flywheel nut:	70 Nm (51 ft. lbs.)
Cylinder head nuts:	35 Nm (25 ft. lbs.)
Cylinder head screws:	30 Nm (22 ft. lbs.)
Engine mounting bolts:	40 Nm (29 ft. lbs.)
Crankcase screws:	12 Nm (10 ft. lbs.)
Swing arm mounting nuts:	60 Nm (44 ft. lbs.)
Spark plug:	40 Nm (29 ft. lbs.)

Specifications subject to change without notice

SERVICE BULLETIN

1985 TECHNICAL DATA 500AE



Engine: Single cylinder two-stroke
air cooled
Displacement: 488cc
Bore std: 86.00mm
1st over: 86.50mm
2nd over: 87.00mm
3rd over: -----
Stroke: 84mm
Compression ratio: 9.0:1

Transmission: Automatic 3 speed gearbox controlled by 3
centrifugal clutches

Primary transmission ratio: 1.23 (47:58)
Secondary transmission ratio: 4.42 (12:53)
Chain dimension: 5/8" x 1/4"

Number of cogs, gearbox (MS:AS)

1st 15:36
2nd 24:41
3rd 28:36

Total gear ratios (crankshaft: rear wheel):

1st 13.1:1
2nd 9.3:1
3rd 7.0:1

Oil capacity in gearbox: 1.0 lit. (0.26 US gal)
Oil recommendation: Husky Products
Automatic Transmission Fluid

Fuel System:
Fuel: Gas min 94 oct.
Lubrication: Oil-gas-mixture 4%
Tank capacity: 12.5 lit. (3.3 US gal)
Oil recommendation: Bel-Ray MC1+

Carburetor: Mikuni

Venturi \emptyset : 38mm
Main jet: 390
Needle jet: R0
Idling jet: 45
Needle position: #3 from top
Air jet: 2.0
Needle: 6DH20
Airscrew opening: 1.5 turn from bottom position

Throttle: 2.5

TECHNICAL SPECIFICATIONS

4-010

Electrical System:	Motoplat	Electrical Equipment
Type:	CD1	Head light: 12V 45 W
Ignition advance:	16°	Tail light: 12V 10 W
Ignition adv. on piston before TDC:	2.2mm	
Ignition adv. on fly-wheel before TDC:		
Light coil:	35W (yellow cable)	
Spark plug:	Bosch W 4 C	
Front fork:	Husqvarna	
Travel:	270mm (10.6 in.)	
Trail:	131mm (5.2 in.)	
Fork angle (caster):	28.5°	
Air pressure per leg:	Max 50 kPa (8 psi)	
Oil capacity per leg:	450cc	
Oil recommendation:	VSP Husky Fork Oil SAE 5 - SAE 20	
Rear suspension:	Husqvarna ITC	
Travel:	300mm (11.8 in.)	
Wheels and Brakes:	Front	Rear
Tires: Trelleborg	300 x 21	500 x 18
Spoke Ø:	4mm	4.5mm
Brake drum Ø:	160mm (6.3 in.)	160mm (6.3 in.)
Dimensions:		
Length:	2190mm (86.2 in.)	
Height:	1250mm (49.2 in.)	
Wheelbase:	1480mm (58.3 in.)	
Seat height:	960mm (37.8 in.)	
Ground clearance:	320mm (12.6 in.)	
Weight:	113kg (249 lbs.)	
Torque specifications:		
Flywheel nut:	70 Nm (51 ft. lbs.)	
Cylinder head nuts:	30 Nm (22 ft. lbs.)	
Cylinder head screws:	25 Nm (18 ft. lbs.)	
Engine mounting bolts:	40 Nm (29 ft. lbs.)	
Crankcase screws:	12 Nm (9 ft. lbs.)	
Swing arm mounting nuts:	60 Nm (44 ft. lbs.)	
Screws, reed valve housing/cylinder:	12 Nm (9 ft. lbs.)	
Spark plug:	40 Nm (29 ft. lbs.)	

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

SERVICE BULLETIN

1985 TECHNICAL DATA 500TC



Engine: Single Cylinder, 4-stroke, 4 valves,
overhead cam, Husqvarna RAL system.
(Reed Activated Lubrication)

Displacement: 490cc
Bore/Stroke: 90.0 x 76.4mm
Compression ratio: 9.5:1

Transmission: 4-speed

Primary transmission ratio: 2.30 (33.76)

Number of cogs, gear box (MS:AS)

1st 17:29 = 1.71	3rd 23:24 = 1.04
2nd 20:26 = 1.30	4th 25:22 = 0.88

Secondary transmission ratio: 3.43 (48:14)

Total gear ratios (crankshaft: rear wheel):

1st 13.49:1	3rd 8.21:1
2nd 10.26:1	4th 6.94:1

Clutch: Multi disc in oil bath

Chain: 5/8" x 1/4"

Valve clearance (cold): In. .1mm (.004") Ex. .15mm (.006")

De-Compressor cable: 1-2mm clearance on cables with engine
running.

Oil capacity in gearbox: 1.2 lit. (1.2 qt.)

Oil recommendation: Bel-Ray Racing Engine Oil MC5 SAE 40

Fuel System:

Fuel: Gas min. 91 oct.

Tank capacity: 12 lit. (3.3 US gal)

Carburetor: Dellorto

Venturi \emptyset : 40mm

Main jet: 155

Needle jet: AB 265

Idling jet: 55

Starting jet: 70

Throttle: 60/1

Needle position: 3

Mixture control screw: 1 3/4

Float: 14 pr

TECHNICAL SPECIFICATIONS

(over)

4-011

Electrical System: SEM
 Type: CD1
 Ignition advance: 35°
 Ignition adv. on piston
 before TDC: 9.17mm
 Ignition adv. on flywheel
 before TDC: 42.5mm
 AC generator: 70 + 70 W
 Spark plug: NGK D8 EA
 Spark plug gap: .028" - .032"

Front Fork: Husqvarna
 Travel: 300mm (11.8 in.)
 Trail: 131mm (5.1 in.)
 Fork angle (caster): 28.5°
 Air pressure per leg: Max. 50 kPa (8 psi) if air is used
 Oil capacity per leg: 500cc
 Oil recommendation: VSP Husky fork oil
 SAE 5 - SAE 20

Rear Suspension: Husqvarna ITC

Travel: 345mm (13.6 in.)

Wheels and Brakes: Front: Rear:
 Tires: Trelleborg 3.00 x 21" 5.00 x 18"
 Spoke \emptyset : 4 4.5mm
 Brake drum \emptyset : 160mm (6.3 in.)

Dimensions:

Length: 2190mm (86.2 in.)
 Height: 1240mm (48.8 in.)
 Height at seat: 997mm (39.2 in.)
 Wheelbase: 1498mm (58.9 in.)
 Ground clearance: 385mm (15.2 in.)

Weight (dry): 117.2 kg (256 lbs.)

Torque Specifications:

Flywheel nut: 70 Nm (51 ft. lbs.)
 Head nuts (above head): 50 Nm (36 ft. lbs.)
 Head nuts (below cylinder): 25 Nm (18 ft. lbs.)
 Engine mounting bolts: 40 Nm (29 ft. lbs.)
 Crankcase screws: 12 Nm (9 ft. lbs.)
 Swing arm mounting nuts: 60 Nm (44 ft. lbs.)
 Spark plug: 33 Nm (24 ft. lbs.)

Workshop manual: Part number 15 17 736-01

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

SERVICE BULLETIN

1985 TECHNICAL DATA 510TE



Engine: Single cylinder, 4-stroke, 4 valves,
overhead cam, Husqvarna RAL system.
(Reed Activating Lubrication)

Displacement: 503cc
Bore/Stroke: 91.5 x 76.4mm
Compression ratio: 9.5:1

Transmission: 6-speed Constant Mesh

Primary transmission ratio: 2.30 (33:76)

Number of cogs, gear box (MS:AS)

1st	13:34 = 2.62	4th	23:24 = 1.04
2nd	16:29 = 1.81	5th	25:22 = 0.88
3rd	19:26 = 1.37	6th	27:20 = 0.74

Secondary transmission ratio: 3.43 (48:14)

Total gear ratios (crankshaft: rear wheel):

1st	20.67:1	4th	8.21:1
2nd	14.28:1	5th	6.94:1
3rd	10.81:1	6th	5.84:1

Clutch: Multi disc in oil bath

Chain: 5/8" x 1/4"

Valve clearance (cold): In. . 1mm (.004") Ex. .15mm (.006")

De-Compressor cable: 1-2mm clearance on cables with engine
running.

Oil capacity in gearbox: 1.2 lit. (1.2 qt.)

Oil recommendation: Bel-Ray Racing Engine Oil MC5 SAE 40

Fuel System:

Fuel: Gas min. 91 oct.

Tank capacity: 12 lit. (3.3 US gal)

Carburetor: Dellorto

Venturi Ø: 40mm
Main jet: 155
Needle jet: AB 265
Idling jet: 55
Starting jet: 70
Throttle: 60/1
Needle position: 3
Mixture control screw: 1 3/4
Float: 14 pr

TECHNICAL SPECIFICATIONS

(over)

4-012

Electrical System: SEM
 Type: CD1
 Ignition advance: 35°
 Ignition adv. on piston before TDC: 9.17mm
 Ignition adv. on flywheel before TDC: 42.5mm
 AC generator: 70 + 70 W
 Spark plug: NGK D8 EA
 Spark plug gap: .028" - .032"

Front Fork: Husqvarna
 Travel: 270mm (10.6 in.)
 Trail: 131mm (5.1 in.)
 Fork angle (caster): 28.5°
 Air pressure per leg: Max. 50 kPa (8 psi) if air is used
 Oil capacity per leg: 450cc
 Oil recommendation: VSP Husky fork oil
 SAE 5 - SAE 20

Rear Suspension: Husqvarna ITC

Travel: 300mm (11.8 in.)

Wheels and Brakes:	Front:	Rear:
Tires: Trelleborg	3.00 x 21"	5.00 x 18"
Spoke Ø:	4	4.5mm
Brake drum Ø:	160mm (6.3 in.)	

Dimensions:

Length: 2190mm (86.2 in.)
 Height: 1250mm (49.2 in.)
 Height at seat: 960mm (37.7 in.)
 Wheelbase: 1480mm (58.3 in.)
 Ground clearance: 320mm (12.5 in.)

Weight (dry): 120 kg (265 lbs.)

Torque Specifications:

Flywheel nut: 70 Nm (51 ft. lbs.)
 Head nuts (above head): 50 Nm (36 ft. lbs.)
 Head nuts (below cylinder): 25 Nm (18 ft. lbs.)
 Engine mounting bolts: 40 Nm (29 ft. lbs.)
 Crankcase screws: 12 Nm (9 ft. lbs.)
 Swing arm mounting nuts: 60 Nm (44 ft. lbs.)
 Spark plug: 20 Nm (15 ft. lbs.)

Workshop manual: Part number 15 17 736-01

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

SERVICE BULLETIN



1985 TECHNICAL DATA 510TX

Engine: Single cylinder, 4-stroke, 4 valves,
overhead cam, Husqvarna RAL system.
(Reed Activated Lubrication)

Displacement: 503cc
Bore/Stroke: 91.5 x 76.4mm
Compression ratio: 9.5:1

Transmission: 6-speed

Primary transmission ratio: 2.30 (33:76)

Number of cogs, gear box (MS:AS)

1st 13:34 = 2.62	4th 23:24 = 1.04
2nd 16:29 = 1.81	5th 25:22 = 0.88
3rd 19:26 = 1.37	6th 27:20 = 0.74

Secondary transmission ratio: 3.43 (48:14)

Total gear ratios (crankshaft: rear wheel):

1st 20.67:1	4th 8.21:1
2nd 14.28:1	5th 6.94:1
3rd 10.81:1	6th 5.84:1

Clutch: Multi disc in oil bath

Chain: 5/8" x 1/4"

Valve clearance (cold): In. .1mm (.004") Ex. .15mm (.006")

De-Compressor cable: 1-2mm clearance on cables with engine
running.

Oil capacity in gearbox: 1.2 lit. (1.2 qt.)

Oil recommendation: Bel Ray Racing Engine Oil MC5 SAE 40

Fuel System:

Fuel: Gas min 91 oct.
Tank capacity: 12 lit. (3.3 US gal)

Carburetor: Dellorto

Venturi Ø: 40mm
Main jet: 155
Needle jet: AB 265
Idling jet: 55
Starting jet: 70
Throttle: 60/1
Needle position: 3
Mixture control screw: 1 3/4
Float: 14 pr

TECHNICAL SPECIFICATIONS

(over)

4-013

Electrical System: SEM
Type: CD1
Ignition advance: 35°
Ignition adv. on piston
before TDC: 9.17mm
Ignition adv. on flywheel
before TDC: 42.5mm
AC generator: 70 + 70 W
Spark plug: NGK D8 EA
Spark plug gap: .028" - .032"

Front Fork: Husqvarna
Travel: 300mm (11.8 in.)
Trail: 131mm (5.1 in.)
Fork angle (caster): 28.5°
Air pressure per leg: Max. 50 kPa (8 psi) if air is used
Oil capacity per leg: 500cc
Oil recommendation: VSP Husky fork oil
SAE 5 - SAE 20

Rear Suspension: Husqvarna ITC

Travel: 345mm (13.6 in.)

Wheels and Brakes: Front: Rear:
Tires: Trelleborg 3.00 x 21" 5.00 x 18"
Spoke \emptyset : 4 4.5mm
Brake drum \emptyset : 160mm (6.3 in.)

Dimensions:

Length: 2190mm (86.2 in.)
Height: 1240mm (48.8 in.)
Height at seat: 997mm (39.2 in.)
Wheelbase: 1498mm (58.9 in.)
Ground clearance: 335mm (15.2 in.)

Weight (dry): 117.2 kg (260 lbs.)

Torque Specifications:

Flywheel nut: 70 Nm (51 ft. lb.)
Head nuts (above head): 50 Nm (36 ft. lb.)
Head nuts (below cylinder): 25 Nm (18 ft. lb.)
Engine mounting bolts: 40 Nm (29 ft. lb.)
Crankcase screws: 12 Nm (9 ft. lb.)
Swing arm mounting nuts: 60 Nm (44 ft. lb.)
Spark plug: 33 Nm (24 ft. lb.)

Workshop manual: Part number 15 17 736-01

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

SERVICE BULLETIN

1985 TECHNICAL DATA 250 WRX



Engine: Single cylinder two-stroke, liquid cooled

Displacement: 245cc
Bore std: 69.50mm
1st over: 69.75mm
2nd over: 70.00mm
3rd over: 70.25mm
Stroke: 64.50mm
Compression ratio: 15.0:1

Transmission:

Primary transmission ratio: 2.63 (30:79)
Secondary transmission ratio: 4.0 (13:52)
Chain dimension: 5/8 x 1/4"

Number of cogs, gearbox (MS:AS):

1st	14:33	4th	23:24
2nd	17:29	5th	25:22
3rd	20:26	6th	27:20

Total gear ratios (crankshaft: rear wheel):

1st	24.8:1	4th	11.0:1
2nd	18.0:1	5th	9.3:1
3rd	13.7:1	6th	7.8:1

Oil capacity in gearbox: 1.4 lit (0.37 US gal)
Oil recommendation: Engine Oil SAE 20

Fuel System:

Fuel: Gas min. 94 oct.
Lubrication: Oil-gas mixture 4%

Tank capacity: 12 lit. (3.2 US gal)
Oil recommendation: Bel-Ray MCl+

Carburetor: Mikuni

Venturi \emptyset : 38mm
Main jet: 420
Needle jet: R-2
Idling jet: 35
Needle position: 4 from top
Air jet: 2.0
Needle: 6 DH 20
Airscrew opening: 1.5 turn from bottom position

Throttle: 2.5

TECHNICAL SPECIFICATIONS

4-014

Electrical System:	Motoplat	Electrical Equipment:
Type:	CDI \emptyset 116	Head light: 12V 45W
Ignition advance:	20 ^o	Tail light: 12V 5W
Ignition adv. on piston before TDC:	2.39mm	
Ignition adv. on rotor before TDC:	20.3mm	
Light coil:	45W	
Spark plug:	Bosch W4C	

Front fork:	Husqvarna
Travel:	300mm (11.8 in)
Trail:	120mm (4.7 in)
Fork angle (caster):	27 ^o
Air pressure per leg:	Max. 50 kPa (8 psi)
Oil capacity per leg:	500cc
Oil recommendation:	V.S.P. Husky Fork Oil SAE 5 - SAE 20

Rear suspension:	Husqvarna Single Shock System with Ohlins Piggy Back Shock Absorber
Travel:	330mm (12.9 in)

Wheels and Brakes:	Front:	Rear:
Tires: Trelleborg	3.00 x 21"	5.00 x 18"
Spoke \emptyset :	4mm	4.5mm
Brake drum \emptyset :	160mm (6.3 in)	160mm (6.3 in)

Dimensions:

Length:	2200mm (86.6 in)
Height:	1320mm (51.9 in)
Wheelbase:	1500mm (59.0 in)
Seat height:	960mm (37.8 in)
Ground clearance:	365mm (14.4 in)
Weight:	105kg (231 lbs)

Torque specifications:

Flywheel nut:	50 Nm (37 ft. lb)
Cylinder head nuts:	35 Nm (25 ft. lb)
Cylinder head screws:	30 Nm (22 ft. lb)
Engine mounting bolts:	40 Nm (29 ft. lb)
Crankcase screws:	12 Nm (8 ft. lb)
Swing arm mounting nuts:	60 Nm (44 ft. lb)
Screws, reed valve housing/cylinder:	12 Nm (8 ft. lb)
Spark plug:	40 Nm (29 ft. lb)

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

SERVICE BULLETIN

1985 TECHNICAL DATA 400WRX



Engine: Single cylinder two-stroke, liquid cooled

Displacement: 395.6cc
Bore std: 82.5mm
1st over: 83.0mm
2nd over: 83.5mm
3rd over: -----
Stroke: 74.0mm
Compression ratio: 12.1:1

Transmission:

Primary transmission ratio: 2.30 (33:76)
Secondary transmission ratio: 3.47 (15:52)
Chain dimension: 5/8 x 1/4"

Number of cogs, gearbox (MS:AS):

1st 13:34	4th 23:24
2nd 16:29	5th 25:22
3rd 19:26	6th 27:20

Total gear ratios (crankshaft: rear wheel):

1st 20.9:1	4th 8.3:1
2nd 14.5:1	5th 7.0:1
3rd 10.9:1	6th 5.9:1

Oil capacity in gearbox: 1.4 lit (0.37 US gal)
Oil recommendation: Engine Oil SAE 20

Fuel System:

Fuel: Gas min. 94 oct.
Lubrication: Oil-gas mixture 4%

Tank capacity: 12 lit (3.2 US gal)
Oil recommendation: Bel-Ray MCI+

Carburetor: Mikuni

Venturi \emptyset : 38mm
Main jet: 400
Needle jet: Q6
Idling jet: 35
Needle position: 4 from top
Air jet: 2.0
Needle: 6 DH 3
Airscrew opening: 1.5 turn from bottom position

Throttle: 2.5

TECHNICAL SPECIFICATIONS

4-015

Electrical System:	Motoplat	Electrical Equipment:
Type:	CDI \emptyset 116	Head light: 12V 45W
Ignition advance:	17 ^o	Tail light: 12V 5W
Ignition adv. on piston before TDC:	2.0mm	
Ignition adv. on fly-wheel before TDC:	17.1mm	
AC generator	45W yellow cable	
Spark plug:	Bosch W4C	

Front fork:	Husqvarna
Travel:	300mm (11.8 in)
Trail:	120mm (4.7 in)
Fork angle (caster):	27 ^o
Air pressure per leg:	Max. 50 kPa (8 psi)
Oil capacity per leg:	500cc
Oil recommendation:	V.S.P. Husky Fork Oil SAE 5 - SAE 20

Rear suspension:	Husqvarna Single Shock System with Ohlins Piggy Back Shock Absorbers
Travel:	330mm (12.9 in)

Wheels and Brakes:	Front:	Rear:
Tires: Trelleborg	3.00 x 21"	5.00 x 18"
Spoke \emptyset :	4mm	4.5mm
Brake drum \emptyset :	160mm (6.3 in)	160mm (6.3 in)

Dimensions:	
Length:	2200mm (86.6 in)
Height:	1320mm (51.9 in)
Wheelbase:	1500mm (59.0 in)
Seat height:	960mm (37.8 in)
Ground clearance:	365mm (14.4 in)
Weight:	107kg (235 lbs)

Torque specifications:	
Flywheel nut:	70 Nm (51 ft. lb)
Cylinder head nuts:	35 Nm (25 ft. lb)
Cylinder head screws:	30 Nm (22 ft. lb)
Engine mounting bolts:	40 Nm (29 ft. lb)
Crankcase screws:	12 Nm (8 ft. lb)
Swing arm mounting nuts:	60 Nm (44 ft. lb)
Screws, reed valve housing/cylinder:	12 Nm (8 ft. lb)
Spark plug:	40 Nm (29 ft. lb)

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

SERVICE BULLETIN

1986 TECHNICAL DATA 125 CROSS COUNTRY



Engine: Single cylinder two-stroke liquid cooled

Displacement: 124cc
Bore std: 55.00mm
1st over: 55.25mm
2nd over: 55.50mm
3rd over: --
Stroke: 52.00mm
Compression ratio: 15.0:1

Transmission: 6 Speed Constant Mesh

Primary transmission: 3.89 (18:70)
Secondary transmission ratio: 4.00 (13:52)
Chain dimension: 5/8" x 1/4"

Number of cogs, gear box (MS:AS):

1st	14:33	4th	23:24
2nd	17:29	5th	25:22
3rd	20:26	6th	27:20

Total gear ratios (crankshaft: rear wheel):

1st	36.7:1	4th	16.2:1
2nd	26.5:1	5th	13.7:1
3rd	20.2:1	6th	11.5:1

Oil capacity in gearbox: 1.5 Lit (0.39 US gal)
Oil recommendation: Bel-Ray 85 Wt Gear Oil

Fuel System:

Fuel: Gas min 94 oct.
Lubrication: Oil-gas-mixture 4%

Tank capacity: 10 Lit (2.6 US gal)
Oil recommendation: Bel-Ray MCI +

Carburetor: Mikuni

Venturi \emptyset : 36mm
Main jet: 340
Needle jet: R0
Idling jet: 45
Needle position: 3 from top
Air jet: 2.0
Needle: 6L1
Airscrew opening: 1.25 turn from bottom position
Throttle: 2.0

TECHNICAL SPECIFICATIONS

(OVER)

4-017

Electrical System:	Motoplat	
Type:	CD1 \emptyset 116 (Retard)	
Ignition advance:	14.5 ^o	
Ignition adv. on piston before TDC:	1.0mm	
Ignition adv. on flywheel before TDC:	14.7mm	
Light coil:	35 W (yellow cable)	
Spark plug:	Bosch W 2 C	
Front fork:	Husqvarna	
Travel:	300mm (11.8 in.)	
Trail:	120mm (4.7 in.)	
Fork angle (caster):	27 ^o	
Air pressure per leg:	Max 50 kPa (8 psi) if air is used	
Oil capacity per leg:	500cc	
Oil recommendation:	VSP Husky Fork Oil SAE 5 - SAE 20	
Rear suspension:	Husqvarna single shock system Ohlins piggy back shock Light alloy swing arm	
Travel:	350mm (13.8 in.)	
Wheels and Brakes:	Front:	Rear:
Tires: Metzeler	300 x 21	410 x 18
Spoke \emptyset :	4mm	4.5mm
Brake drum \emptyset :	Disc 230mm (9.05 in.)	160mm (6.3 in.)
Dimensions:		
Length:	2204mm (86.8 in.)	
Height:	1240mm (48.8 in.)	
Wheelbase:	1512mm (59.5 in.)	
Seat Height:	975mm (38.4 in.)	
Ground clearance:	390mm (15.4 in.)	
Weight:	93 kg (205 lbs)	
Torque specifications:		
Flywheel nuts:	70 Nm (51 ft. lbs.)	
Cylinder head nuts:	30 Nm (22 ft. lbs.)	
Cylinder head screws:	25 Nm (18 ft. lbs.)	
Engine mounting bolts:	40 Nm (29 ft. lbs.)	
Crankcase screws:	12 Nm (9 ft. lbs.)	
Swing arm mounting nuts:	60 Nm (44 ft. lbs.)	
Screws, reed valve housing/ cylinder:	12 Nm (9 ft. lbs.)	
Spark plug:	40 Nm (29 ft. lbs.)	

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

SERVICE BULLETIN

1986 TECHNICAL DATA 250 CROSS COUNTRY



Engine: Single cylinder two-stroke, liquid cooled

Displacement: 245cc
Bore std: 69.50mm
1st over: 69.75mm
2nd over: 70.00mm
3rd over: 70.25mm
Stroke: 64.50mm
Compression ratio: 15.2:1

Transmission: 6 Speed Constant Mesh

Primary transmission: 2.63 (30:79)
Secondary transmission ratio: 4.00 (13:52)
Chain dimension: 5/8" x 1/4"

Number of cogs, gearbox (MS:AS):

1st	14:33	4th	23:24
2nd	17:29	5th	25:22
3rd	20:26	6th	27:20

Total gear ratios (crankshaft: rear wheel):

1st	24.80:1	4th	10.98:1
2nd	17.95:1	5th	9.26:1
3rd	13.68:1	6th	7.79:1

Oil capacity in gearbox: 1.4 Lit (0.37 US gal)
Oil recommendation: Bel-Ray 85 Wt. Gear Oil

Fuel System:

Fuel: Gas min 94 oct.
Lubrication: Oil-gas-mixture 4%

Tank capacity: 12 Lit (3.2 US gal)
Oil recommendation: Bel-Ray MCl+

Carburetor: Mikuni

Venturi \emptyset : 38mm
Main jet: 380
Needle jet: Q6
Idling jet: 40
Needle position: 4 from top
Air jet: 2.0
Needle: 6FJ40
Airscrew opening: 1.5 turn from bottom position
Throttle: 4.0

TECHNICAL SPECIFICATIONS

(OVER)

4-020

Electrical System:	Motoplat	
Type:	CD1 Ø 116 (Retard)	
Ignition advance:	9 ⁰	
Ignition adv. on piston before TDC:	0.49mm	
Ignition adv. on flywheel before TDC:	9.1mm	
Light coil:	35 W (yellow cable)	
Spark plug:	Bosch W 3 C	
Front fork:	Husqvarna	
Travel:	300mm (11.8 in.)	
Trail:	120mm (4.7 in.)	
Fork angle (caster):	27 ⁰	
Air pressure per leg:	Max 50 kPa (8 psi) if air is used	
Oil capacity per leg:	500cc	
Oil recommendation:	VSP Husky Fork Oil SAE 5 - SAE 20	
Rear suspension:	Husqvarna light alloy swing arm single shock system. Ohlins piggy back	
Travel:	350mm (13.8 in.)	
Wheels and Brakes:	Front:	Rear:
Tires: Metzeler	300 x 21	450 x 18
Spoke Ø:	4mm	4.5mm
Brake drum Ø:	Disc 230mm (9.05 in.)	Drum 160mm (6.3 in.)
Dimensions:		
Length:	2204mm (86.8 in.)	
Height:	1240mm (48.8 in.)	
Wheelbase:	1512mm (59.5 in.)	
Seat height:	975mm (38.4 in.)	
Ground clearance:	390mm (15.4 in.)	
Weight:	99 kg (218 lbs.)	
Torque specifications:		
Flywheel nuts:	70 Nm (51 ft. lbs.)	
Cylinder head nuts:	35 Nm (26 ft. lbs.)	
Cylinder head screws:	30 Nm (22 ft. lbs.)	
Engine mounting bolts:	40 Nm (29 ft. lbs.)	
Crankcase screws:	12 Nm (9 ft. lbs.)	
Swing arm mounting nuts:	60 Nm (44 ft. lbs.)	
Screws, reed valve housing/ cylinder:	12 Nm (9 ft. lbs.)	
Spark plug:	40 Nm (29 ft. lbs.)	

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

SERVICE BULLETIN

1986 TECHNICAL DATA 250 ENDURO



Engine: Single cylinder two-stroke liquid cooled

Displacement: 245cc
Bore/Stroke: 69.50mm/64.50mm
Compression ratio: 15.0:1

Transmission: 6-speed Constant Mesh

Primary transmission ratio: 2.63 (30:79)
Secondary transmission ratio: 4.0 (13:52)

Number of cogs, gearbox (MS:AS):

1st	14.33	4th	23.24
2nd	17.29	5th	25.22
3rd	20.26	6th	27.20

Total gear ratios (crankshaft: rear wheel):

1st	24.8:1	4th	11.0:1
2nd	18.0:1	5th	9.3:1
3rd	13.7:1	6th	7.8:1

Clutch: Multi disc in oil bath
Chain: 5/8" x 1/4"

Oil capacity in gearbox: 1.4 Lit (0.37 US gal)
Oil recommendation: Bel-Ray 85 Wt. Gear Oil

Fuel System:

Fuel: Gas min 94 oct.
Lubrication: Oil-gas-mixture 4%

Tank capacity: 12 Lit (3.2 US gal)
Oil recommendation: Bel-Ray MC1+

Carburetor: Mikuni

Venturi \emptyset : 38mm
Main jet: 420
Needle jet: R-4
Idling jet: 50
Needle position: 4 from top
Air jet: 2.0
Needle: 6DH20
Mixture control screw: 1.0 turns from bottom position
Throttle: 2.0

(OVER)

TECHNICAL SPECIFICATIO

4-021

Electrical System:	Motoplat	
Type:	CD1 Ø 116 (Retard)	
Ignition advance:	9°	
Ignition adv. on piston before TDC:	0.49mm	
Ignition adv. on flywheel before TDC:	9.1mm	
AC generator:	45W (yellow cable)	
Spark plug:	Bosch W 3 C	
Spark plug gap:	.025 thousands	
Electrical Equipment:		
Headlight:	12V 45W	
Taillight:	12V 5W	
Front Fork:	Husqvarna	
Travel:	285mm (11.2 in.)	
Trail:	120mm (4.7 in.)	
Fork angle (caster):	27°	
Air pressure per leg:	Max 50 kPa (8 psi) if air is used	
Oil capacity per leg:	470 - 480cc	
Oil recommendation:	VSP Husky Fork Oil SAE 5 - SAE 20	
Rear suspension:	Husqvarna single shock system with Ohlins piggy back shock absorber	
Travel:	330mm (13 in.)	
Wheels and Brakes:	Front:	Rear:
Tires: Metzeler	300 x 21	450 x 18
Spoke Ø:	4mm	4.5mm
Brake Ø:	Disc 230mm (9.06 in.)	Drum 160mm (6.3 in.)
Dimensions:		
Length:	2200mm (86.6 in.)	
Height:	1320mm (51.9 in.)	
Height at seat:	960mm (37.8 in.)	
Wheelbase:	1500mm (59.0 in.)	
Ground clearance:	365mm (14.4 in.)	
Weight (dry):	105 kg (237 lbs.)	
Torque Specifications:		
Flywheel nut:	70 Nm (51 ft. lbs.)	
Cylinder head nuts:	35 Nm (25 ft. lbs.)	
Cylinder head screws:	30 Nm (22 ft. lbs.)	
Engine mounting bolts:	40 Nm (29 ft. lbs.)	
Crankcase screws:	12 Nm (10 ft. lbs.)	
Swing arm mounting nuts:	60 Nm (44 ft. lbs.)	
Spark plug:	40 Nm (29 ft. lbs.)	
Screws/reed valve housing/cylinder:	12 Nm (10 ft. lbs.)	

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

SERVICE BULLETIN

1986 TECHNICAL DATA 250 MOTOCROSS



Engine: Single cylinder two-stroke liquid cooled

Displacement: 245cc
Bore/Stroke: 69.5mm/64.5mm
Compression ratio: 15.0:1

Transmission: 5-speed

Primary transmission ratio: 2.63 (30:79)

Number of cogs, gear box (MS:AS)

1st	16:31	4th	23:24
2nd	18:28	5th	25:22
3rd	21:26		

Secondary transmission ratio: 4.0 (13:52)

Total gear ratios (crankshaft: rear wheel):

1st	20.41:1	4th	10.99:1
2nd	16.38:1	5th	9.27:1
3rd	13.04:1		

Clutch: Multi disc in oil bath

Chain: 5/8" x 1/4"

Oil capacity in gearbox: 1.4 Lit. (0.36 US gal)

Oil recommendation: Bel-Ray 80 wt gear oil

Fuel System:

Oil recommendation: Bel-Ray MCl+

Fuel: Gas - min. 94 oct.

Tank capacity: 10 Lit. (2.6 US gal)

Lubrication: Oil-gas-mixture 4%

Carburetor: Mikuni

Venturi \emptyset : 38mm
Main jet: 380
Needle jet: Q6
Idling jet: 40
Needle: 6FJ40
Throttle: 4.0
Needle position: #4
Mixture control screw: 1.5 turns from bottom position

(OVER)

TECHNICAL SPECIFICATIONS

4-022

Electrical System:	Motoplat	
Type:	CDI 63 \emptyset Internal Rotor	
Ignition advance:	10 $^{\circ}$	
Ignition adv. on piston before TDC:	.61mm	
Ignition adv. on rotor before TDC:	5.5mm	
AC generator:	N/A	
Spark plug:	Bosch W 3 C	
Spark plug gap:	.025 thousands	
Electrical Equipment:		
Headlight:	N/A	
Taillight:	N/A	
Front Fork:	Husqvarna	
Travel:	300mm (11.8 in.)	
Trail:	120mm (4.72 in.)	
Fork angle (caster):	27 $^{\circ}$	
Air pressure per leg:	Max 50 kPa (8 psi) if air is used	
Oil capacity per leg:	500cc	
Oil recommendation:	VSP Husky Fork Oil SAE 5 - SAE 20	
Rear Suspension:	Husqvarna, light alloy swing arm, single shock Ohlins piggy back.	
Travel:	350mm (13.8 in.)	
Wheels and Brakes:	Front:	Rear:
Tires: Metzeler	90/90 x 21	460 x 18
Spoke \emptyset :	4mm	4.5mm
Brake drum \emptyset :	Disc 230mm (9.05 in.)	160mm (6.3 in.)
Dimensions:		
Length:	2204mm (86.8 in.)	
Height:	1240mm (48.9 in.)	
Height at seat:	975mm (38.4 in.)	
Wheelbase:	1512mm (59.5 in.)	
Ground clearance:	390mm (15.4 in.)	
Weight (dry):	98 kg (216 lbs)	
Torque Specifications:		
Flywheel nut:	70 Nm (51 ft. lbs.)	
Cylinder head nuts:	35 Nm (25 ft. lbs.)	
Cylinder head screws:	30 Nm (22 ft. lbs.)	
Engine mounting bolts:	40 Nm (29 ft. lbs.)	
Crankcase screws:	12 Nm (10 ft. lbs.)	
Swing arm mounting nuts:	60 Nm (44 ft. lbs.)	
Spark plug:	40 Nm (29 ft. lbs.)	

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

SERVICE BULLETIN

1986 TECHNICAL DATA 400 CROSS COUNTRY



Engine: Single cylinder two-stroke, liquid cooled

Displacement: 395.6cc
Bore std: 82.5mm
1st over: 83.0mm
2nd over: 83.5mm
3rd over: --
Stroke: 74.0mm
Compression ratio: 12.1:1

Transmission: 6-Speed Constant Mesh

Primary transmission ratio: 2.30 (33:76)
Secondary transmission ratio: 3.47 (15:52)
Chain dimension: 5/8" x 1/4"

Number of cogs, gearbox (MS:AS):

1st	13:34	4th	23:24
2nd	16:29	5th	25:22
3rd	19:26	6th	27:20

Total gear ratios (crankshaft: rear wheel):

1st	20.9:1	4th	8.3:1
2nd	14.5:1	5th	7.0:1
3rd	10.9:1	6th	5.9:1

Oil capacity in gearbox: 1.4 Lit (0.37 US gal)
Oil recommendation: Bel-Ray 85 Wt. Gear Oil

Fuel System:

Fuel: Gas min. 94 oct.
Lubrication: Oil-gas-mixture 4%

Tank capacity: 12 Lit (3.2 US gal)
Oil recommendation: Bel-Ray MC1+

Carburetor: Mikuni

Venturi \emptyset : 38mm
Main jet: 400
Needle jet: Q6
Idling jet: 35
Needle position: 4 from top
Air jet: 2.0
Needle: 6DH3
Airscrew opening: 1.5 turn from bottom position
Throttle: 2.5

TECHNICAL SPECIFICATIONS

(OVER)

4-023

400 Cross Country continued....

Electrical System:	Motoplat	
Type:	CD1 Ø 116	
Ignition advance:	17°	
Ignition adv. on piston before TDC:	2.05mm	
Ignition adv. on flywheel before TDC:	17.2mm	
AC generator:	35W yellow cable	
Spark plug:	Bosch W 3 C	
Front fork:	Husqvarna	
Travel:	300mm (11.8 in.)	
Trail:	120mm (4.7 in.)	
Fork angle (caster):	27°	
Air pressure per leg:	Max 50 kPa (8 psi) if air is used	
Oil capacity per leg:	500cc	
Oil recommendation:	VSP Husky Fork Oil SAE 5 - SAE 20	
Rear suspension:	Husqvarna single shock system with Ohlins piggy back shock absorbers	
Travel:	330mm (13 in.)	
Wheels and brakes:	Front:	Rear:
Tires: Metzeler	3.00 x 21	450 x 18
Spoke Ø:	4mm	4.5mm
Brake drum Ø:	160mm (6.3 in.)	160mm (6.3 in.)
Dimensions:		
Length:	2204mm (86.8 in.)	
Height:	1240mm (48.8 in.)	
Wheelbase:	1512mm (59.5 in.)	
Seat height:	975mm (38.4 in.)	
Ground clearance:	390mm (15.4 in.)	
Weight:	101 kg (222 lbs.)	
Torque specifications:		
Flywheel nut:	70 Nm (51 ft. lbs.)	
Cylinder head nuts:	40 Nm (29 ft. lbs.)	
Cylinder head screws:	35 Nm (25 ft. lbs.)	
Engine mounting bolts:	40 Nm (29 ft. lbs.)	
Crankcase screws:	12 Nm (8 ft. lbs.)	
Swing arm mounting nuts:	60 Nm (44 ft. lbs.)	
Screws, reed valve housing/ cylinder:	12 Nm (8 ft. lbs.)	
Spark plug:	40 Nm (29 ft. lbs.)	

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

SERVICE BULLETIN

1986 TECHNICAL DATA 400 ENDURO



Engine: Single cylinder two-stroke, liquid cooled

Displacement: 395.6cc
Bore std: 82.5mm
1st over: 83.0mm
2nd over: 83.5mm
3rd over: --
Stroke: 74.0mm
Compression ratio: 12.1:1

Transmission: 6 Speed Constant Mesh

Primary transmission ratio: 2.30 (33:76)
Secondary transmission ratio: 3.47 (15:52)
Chain dimension: 5/8" x 1/4"

Number of cogs, gearbox (MS:AS):

1st	13:34	4th	23:24
2nd	16:29	5th	25:22
3rd	19:26	6th	27:20

Total gear ratios (crankshaft: rear wheel):

1st	20.9:1	4th	8.3:1
2nd	14.5:1	5th	7.0:1
3rd	10.9:1	6th	5.9:1

Oil capacity in gearbox: 1.4 Lit (0.37 US gal)
Oil recommendation: Bel-Ray 85 Wt. Gear Oil

Fuel System:

Fuel: Gas min 94 oct.
Lubrication: Oil-gas-mixture 4%

Tank capacity: 12 Lit (3.2 US gal)
Oil recommendation: Bel-Ray MCI+

Carburetor: Mikuni

Venturi \emptyset : 38mm
Main jet: 400
Needle jet: Q6
Idling jet: 35
Needle position: 4 from top
Air jet: 2.0
Needle: 6DH3
Airscrew opening: 1.5 turn from bottom position
Throttle: 2.5

TECHNICAL SPECIFICATIONS

(OVER)

4-024

Electrical System:	Motoplat
Type:	CD1 Ø 116
Ignition advance:	17 ^o
Ignition adv. on piston before TDC:	2.05mm
Ignition adv. on flywheel before TDC:	17.2mm
AC generator:	45W yellow cable
Spark plug:	Bosch W 3 C

Electrical Equipment:

Headlight:	12V 45W
Taillight:	12V 5W

Front Fork:

Travel:	285mm (11.2 in.)
Trail:	120mm (4.7 in.)
Fork angle (caster):	27 ^o
Air pressure per leg:	Max 50 kPa (8 psi) if air is used
Oil capacity per leg:	470 - 480cc
Oil recommendation:	VSP Husky Fork Oil SAE 5 - SAE 20

Rear suspension:

Husqvarna single shock system with Ohlins piggy back shock absorbers

Travel: 330mm (13 in.)

Wheels and Brakes:

	Front:	Rear:
Tires: Metzeler	3.00 x 21	450 x 18
Spoke Ø:	4mm	4.5mm
Brake Ø:	Disc 230mm (9.06 in.)	Drum 160mm (6.3 in.)

Dimensions:

Length:	2200mm (86.6 in.)
Height:	1320mm (51.9 in.)
Wheelbase:	1500mm (59.0 in.)
Seat height:	960mm (37.8 in.)
Ground clearance:	365mm (14.4 in.)
Weight:	107 kg (235 lbs.)

Torque specifications:

Flywheel nut:	70 Nm (51 ft. lbs.)
Cylinder head nuts:	40 Nm (29 ft. lbs.)
Cylinder head screws:	35 Nm (25 ft. lbs.)
Engine mounting bolts:	40 Nm (29 ft. lbs.)
Crankcase screws:	12 Nm (8 ft. lbs.)
Swing arm mounting nuts:	60 Nm (44 ft. lbs.)
Screws, reed valve housing/ cylinder:	12 Nm (8 ft. lbs.)
Spark plug:	40 Nm (29 ft. lbs.)

SERVICE BULLETIN

1986 TECHNICAL DATA 430 AUTO ENDURO



Engine: Single cylinder two-stroke, liquid cooled

Displacement: 430cc
Bore std: 86.00mm
1st over: 86.50mm
2nd over: 87.00mm
3rd over: --
Stroke: 74mm
Compression ratio: 12.6:1

Transmission: Automatic 3 speed gearbox controlled by 3 centrifugal clutches

Primary transmission ratio: 1.23 (47:58)
Secondary transmission ratio: 4.91 (11:54)
Chain dimension: 5/8" x 1/4"

Number of cogs, gearbox (MS:AS):

1st 15:36
2nd 24:41
3rd 28:36

Total gear ratios (crankshaft: rear wheel):

1st 13.1:1
2nd 9.3:1
3rd 7.0:1

Oil capacity in gearbox: 0.7 Lit (0.18 US gal)
Oil recommendation: Husky Products
Automatic Transmission Fluid

Fuel System:

Fuel: Gas min 94 oct.
Lubrication: Oil-gas-mixture 4%

Tank capacity: 12.0 Lit (3.2 US gal)
Oil recommendation: Bel-Ray MCl+

Carburetor: Mikuni

Venturi Ø: 38mm
Main jet: 430
Needle jet: R2
Idling jet: 40
Needle position: 3 from top
Air jet: 2.0
Needle: 6DH20
Airscrew opening: 1 turn from bottom position
Throttle: 2.5

TECHNICAL SPECIFICATIONS

(OVER)

4-025

Electrical System:	Motoplat	Electrical Equipment
Type:	CD1	Head light: 12V 60/55 W
Ignition advance:	18°	Tail light: 12V 10 W
Ignition adv. on piston before TDC:	2.4mm	
Ignition adv. on fly-wheel before TDC:		
Light coil:	35W (yellow cable)	
Spark plug:	Bosch W 4 C	
Front fork:	Husqvarna	
Travel:	270mm (10.6 in.)	
Trail:	120mm (4.7 in.)	
Fork angle (caster):	27°	
Air pressure per leg:	Max 50 kPa (8 psi)	
Oil capacity per leg:	450cc	
Oil recommendation:	VSP Husky Fork Oil SAE 5- SAE 20	
Rear suspension:	Husqvarna single shock system with Ohlins piggyback shock absorber	
Travel:	310mm (12.2. in.)	
Wheels and Brakes:	Front Rear	
Tires: Metzeler	300 x 21 450 x 18	
Spoke Ø:	4mm 4.5mm	
Brake Ø:	Disc Ø 160mm (6.3 in.) 230mm (9.06 in.)	
Dimensions:		
Length:	2200mm (86.6 in.)	
Height:	1295mm (50.9 in.)	
Wheelbase	1500mm (59.0 in.)	
Seat height:	940mm (37.0 in.)	
Ground clearance:	345mm (13.5 in.)	
Weight:	107kg (234 lbs.)	
Torque specifications:		
Flywheel nut:	70 Nm (51 ft. lbs.)	
Cylinder head nuts:	40 Nm (29 ft. lbs.)	
Cylinder head screws:	35 Nm (26 ft. lbs.)	
Engine mounting bolts:	40 Nm (29 ft. lbs.)	
Crankcase screws:	12 Nm (9 ft. lbs.)	
Swingarm mounting nuts:	60 Nm (44 ft. lbs.)	
Screws, reed valve housing/cylinder:	12 Nm (9 ft. lbs.)	
Spark plug:	40 Nm (29 ft. lbs.)	

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

SERVICE BULLETIN

1986 TECHNICAL DATA 500 CROSS COUNTRY



Engine: Single cylinder two-stroke liquid cooled

Displacement: 488cc
Bore std: 86.00mm
1st over: 86.50mm
2nd over: 87.00mm
3rd over: --
Stroke: 84.00mm
Compression ratio: 11.0:1

Transmission: 6 Speed Constant Mesh

Primary transmission: 1.79 (39:70)
Secondary transmission ratio: 3.71 (14:52)
Chain dimension: 5/8" x 1/4"

Number of cogs, gearbox (MS:AS):

1st	13:34	4th	23:24
2nd	16:29	5th	25:22
3rd	19:26	6th	27:20

Total gear ratios (crankshaft: rear wheel):

1st	17.44:1	4th	6.96:1
2nd	12.08:1	5th	5.87:1
3rd	9.12:1	6th	4.94:1

Oil capacity in gearbox: 1.4 Lit. (0.37 US gal)
Oil recommendation: Bel-Ray 85 Wt. Gear Oil

Fuel System:

Fuel: Gas min 94 oct.
Lubrication: Oil-gas-mixture 4%

Tank capacity: 12 Lit. (3.2 US gal)
Oil recommendation: Bel-Ray MC1+

Carburetor: Mikuni

Venturi \emptyset : 40mm
Main jet: 350
Needle jet: AA5
Idling jet: 55
Needle position: 3 from top
Air jet: 0.7
Needle: 7DH3
Airscrew opening: 1.5 turn from bottom position
Throttle: 2.5

TECHNICAL SPECIFICATIONS

(OVER)

4-026

500 Cross Country continued....

Electrical System:	Motoplat	
Type:	CDI \emptyset 116	
Ignition advance:	18 ^o	
Ignition adv. on piston before TDC:	2.64mm	
Ignition adv. on flywheel before TDC:	18.2mm	
Light coil:	35 W (yellow cable)	
Spark plug:	Bosch W 3 C	
Front fork:	Husqvarna	
Travel:	300mm (11.8 in.)	
Trail:	120mm (4.72 in.)	
Fork angle (caster):	27 ^o	
Air pressure per leg:	Max 50 kPa (8 psi) if air is used	
Oil capacity per leg:	500cc	
Oil recommendation:	VSP Husky Fork Oil SAE 5 - SAE 20	
Rear suspension:	Husqvarna Single Shock System Ohlins piggy back shock Light alloy swing arm	
Travel:	350mm (13.8 in.)	
Wheels and Brakes:	Front:	Rear:
Tires: Metzeler	300 x 21	450 x 18
Spoke \emptyset :	4mm	4.5mm
Brake \emptyset :	Disc 230mm (9.05 in.)	160mm (6.3 in.) drum
Dimensions:		
Length:	2204mm (86.9 in.)	
Height:	1240mm (48.8 in.)	
Wheelbase:	1512mm (59.5 in.)	
Seat height:	975mm (38.4 in.)	
Ground clearance:	390mm (15.4 in.)	
Weight:	130 kg (227 lbs)	
Torque specifications:		
Flywheel nut:	70 Nm (51 ft. lbs.)	
Cylinder head nuts:	40 Nm (29 ft. lbs.)	
Cylinder head screws:	35 Nm (25 ft. lbs.)	
Engine mounting bolts:	40 Nm (29 ft. lbs.)	
Crankcase screws:	12 Nm (9 ft. lbs.)	
Swing arm mounting nuts:	60 Nm (44 ft. lbs.)	
Screws, reed valve housing/ cylinder:	12 Nm (9 ft. lbs.)	
Spark plug:	40 Nm (29 ft. lbs.)	

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

SERVICE BULLETIN

1986 TECHNICAL DATA 125 ENDURO



Engine: Single cylinder two-stroke liquid cooled

Displacement: 124cc
Bore std: 55.00mm
1st over: 55.25mm
2nd over: 55.50mm
3rd over: --
Stroke: 52mm
Compression ratio: 15.0:1

Transmission: 6 Speed Constant Mesh

Primary transmission: 3.89 (18:70)
Secondary transmission ratio: 4.00 (13:52)
Chain dimension: 5/8" x 1/4"

Number of cogs, gear box (MS:AS):

1st	14:33	4th	23:24
2nd	17:29	5th	25:22
3rd	20:26	6th	27:20

Total gear ratios (crankshaft: rear wheel):

1st	36.7:1	4th	16.2:1
2nd	26.5:1	5th	13.7:1
3rd	20.2:1	6th	11.5:1

Oil capacity in gearbox: 1.5 Lit (0.39 US gal)
Oil recommendation: Bel-Ray 85 Wt Gear Oil

Fuel System:

Fuel: Gas min. 94 oct.
Lubrication: Oil-gas-mixture 4%

Tank capacity: 10 Lit (2.6 US gal)
Oil recommendation: Bel-Ray MC1+

Carburetor: Mikuni
Venturi Ø: 36mm
Main jet: 340
Needle jet: R0
Idling jet: 45
Needle position: 3 from top
Air jet: 2.0
Needle: 6L1
Airscrew opening: 1.25 turn from bottom position
Throttle: 2.0

TECHNICAL SPECIFICATIONS

(OVER)

4-018

Electrical System: Motoplat
 Type: CD1 Ø 116
 Ignition advance: 14.5⁰
 Ignition adv. on piston before TDC: 1mm
 Ignition adv. on flywheel before TDC: 14.7mm
 Light coil: 45W
 Spark plug: Bosch W 2 C

Electrical Equipment:

Headlight: 12V 45W
 Taillight: 12V 5W

Front Fork: Husqvarna

Travel: 285mm (11.2 in.)
 Trail: 120mm (4.7 in.)
 Fork angle (caster): 27⁰
 Air pressure per leg: Max 50 kPa (8 psi) if air is used
 Oil capacity per leg: 450cc
 Oil recommendation: VSP Husky Fork Oil SAE 5 - SAE 20

Rear Suspension: Husqvarna single shock system with Ohlins piggy back shock absorber

Travel: 330mm (12.9 in.)

Wheels and Brakes:	Front:	Rear:
Tires: Metzeler	300 x 21	410 x 18
Spoke Ø:	4mm	4.5mm
Brake drum Ø:	160mm	160mm

Dimensions:

Length: 2200mm (86.6 in.)
 Height: 1320mm (51.9 in.)
 Wheelbase: 1500mm (59.0 in.)
 Seat height: 960mm (37.8 in.)
 Ground clearance: 365mm (14.4 in.)
 Weight: 97 kg (213 lbs)

Torque Specifications:

Flywheel nut: 70 Nm (51 ft. lbs.)
 Cylinder head nuts: 30 Nm (22 ft. lbs.)
 Cylinder head screws: 25 Nm (18 ft. lbs.)
 Engine mounting bolts: 40 Nm (29 ft. lbs.)
 Crankcase screws: 12 Nm (9 ft. lbs.)
 Swing arm mounting nuts: 60 Nm (44 ft. lbs.)
 Screws, reed valve housing/
 cylinder: 12 Nm (9 ft. lbs.)
 Spark plug: 40 Nm (29 ft. lbs.)

SERVICE BULLETIN

1986 TECHNICAL DATA 125 MOTOCROSS



Engine: Single cylinder two-stroke liquid cooled

Displacement: 124cc
Bore/Stroke: 55.0mm/52.0mm
Compression ratio: 15.0:1

Transmission: 6-speed

Primary transmission ratio: 3.89 (18/70)

Number of cogs, gear box (MS:AS)

1st	15:31	4th	21:24
2nd	17:28	5th	23:23
3rd	19:26	6th	24:22

Secondary transmission ratio: 4.0 (13:52)

Total gear ratios (crankshaft: rear wheel):

1st	32.15:1	4th	17.78:1
2nd	25.62:1	5th	15.56:1
3rd	21.29:1	6th	14.26:1

Clutch: Multi disc in oil bath

Chain: 5/8" x 1/4"

Oil capacity in gearbox: 1.5 Lit (0.39 US gal)

Oil recommendation: Bel-Ray Gear Oil 80 Wt/SAE 20 Wt.

Fuel System:

Fuel: Gas min 94 oct. oil-gas-mixture - 4%

Tank capacity: 10 Lit (2.6 US gal)

Oil recommendation: Bel-Ray MCl+

Carburetor: Mikuni

Venturi Ø: 36mm

Main jet: 340

Needle jet: R0

Idling jet: 45

Needle: 6L1

Throttle: 2.0

Needle position: #3

Mixture control screw: 1.25 turns from bottom position

(OVER)

TECHNICAL SPECIFICATION

4-019

Electrical System:	Motoplat	
Type:	CDI Ø63	
Ignition advance:	12°	
Ignition adv. on piston before TDC:	0.75mm	
Ignition adv. on rotor before TDC:	6.6mm	
AC generator:	N/A	
Spark plug:	Bosch W 2 C	
Spark plug gap:	.022 to .025 thousands	
Electrical Equipment:		
Headlight:	N/A	
Taillight:	N/A	
Front Fork:	Husqvarna	
Travel:	300mm (11.8 in.)	
Trail:	120mm (4.72 in.)	
Fork angle (caster):	27°	
Air pressure per leg:	Max 50 kPa (8 psi) if air is used	
Oil capacity per leg:	470 - 480cc	
Oil recommendation:	VSP Husky Fork Oil SAE 5 - SAE 20	
Rear Suspension:	Husqvarna single shock system Ohlins piggy back shock	
Travel:	350mm (13.8 in.)	
Wheels and Brakes:	Front:	Rear:
Tires: Metzeler	90/90 x 21	460 x 18
Spoke Ø:	4mm	4.5mm
Brake drum Ø:	Disc 230mm (9.05 in.)	160mm (6.3 in.) drum
Dimension:		
Length:	2204mm (86.8 in.)	
Height:	1240mm (48.8 in.)	
Height at seat:	975mm (38.4 in.)	
Wheelbase:	1512mm (59.5 in.)	
Ground clearance:	390mm (15.4 in.)	
Weight (dry):	92 kg (202 lbs.)	
Torque Specifications:		
Flywheel nut:	70 Nm (51 ft. lbs.)	
Cylinder head nuts:	25 Nm (18 ft. lbs.)	
Cylinder head screws:	25 Nm (18 ft. lbs.)	
Engine mounting bolts:	40 Nm (29 ft. lbs.)	
Crankcase screws:	12 Nm (10 ft. lbs.)	
Swing arm mounting nuts:	60 Nm (44 ft. lbs.)	
Spark plug:	40 Nm (29 ft. lbs.)	

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

SERVICE BULLETIN

1986 TECHNICAL DATA 500 MOTOCROSS



Engine: Single cylinder two-stroke liquid cooled

Displacement: 488cc
Bore/Stroke: 86.0mm x 84.0mm
Compression ratio: 11.0:1

Transmission: 5-speed

Primary transmission ratio: 2.3 to 1 (33:76)

Number of cogs, gear box (MS:AS)

1st	16:29	4th	25:22
2nd	19:26	5th	27:20
3rd	22:26		

Secondary transmission ratio: 3.71 to 1 (14:52)

Total gear ratios (crankshaft: rear wheel):

1st	15.50:1	4th	7.53:1
2nd	11.71:1	5th	6.34:1
3rd	9.33:1		

Clutch: Multi disc in oil bath

Chain: 5/8" x 1/4"

Oil capacity in gearbox: 1.4 Lit. (0.36 US gal)
Oil recommendation: Bel-Ray 80 Wt. Gear Oil

Fuel System:

Oil recommendation: Bel-Ray MC1+
Fuel: Gas - min. 94 oct.
Tank capacity: 10 Lit. (2.6 US gal)
Lubrication: Oil-gas-mixture 4%
Carburetor: Mikuni

Venturi Ø:	40mm
Main jet:	350
Needle jet:	AA-5
Idling jet:	55
Air jet:	0.7
Throttle:	2.5
Needle position:	#3
Mixture control screw:	1.5 turns from bottom position
Needle:	7DH3

TECHNICAL SPECIFICATIO

(OVER)

4-027

Electrical System:	Motoplat	
Type:	CDI \emptyset 116	
Ignition advance:	18°	
Ignition adv. on piston before TDC:	2.63mm	
Ignition adv. on flywheel before TDC:	18.2mm	
AC generator:	N/A	
Spark plug:	Bosch W 3 C	
Spark plug gap:	0.25 thousands	
Electrical Equipment:		
Headlight:	N/A	
Taillight:	N/A	
Front Fork:	Husqvarna	
Travel:	300mm (11.8 in.)	
Trail:	120mm (4.72 in.)	
Fork angle (caster):	27°	
Air pressure per leg:	Max 50 kPa (8 psi) if air used	
Oil capacity per leg:	500cc	
Oil recommendation:	VSP Husky Fork Oil SAE 5 - SAE 20	
Rear Suspension:	Husqvarna light alloy swing arm, single shock system. Ohlins piggy back.	
Travel:	350mm (13.8 in)	
Wheels and Brakes:	Front:	Rear:
Tires: Metzeler	90/90 x 21	510 x 18
Spoke \emptyset :	4mm	4.5mm
Brake Drum \emptyset :	Disc 230mm (9.06 in.)	160mm (6.3 in.)
Dimensions:		
Length:	2204mm (86.8 in.)	
Height:	1240mm (48.8 in.)	
Height at seat:	975mm (38.4 in.)	
Wheelbase:	1512mm (59.5 in.)	
Ground clearance:	390mm (15.4 in.)	
Weight (dry):	102 kg (224 lbs)	
Torque Specifications:		
Flywheel nut:	70 Nm (51 ft. lbs.)	
Cylinder head nuts:	40 Nm (29 ft. lbs.)	
Cylinder head screws:	35 Nm (26 ft. lbs.)	
Engine mounting bolts:	40 Nm (29 ft. lbs.)	
Crankcase screws:	12 Nm (10 ft. lbs.)	
Swing arm mounting nuts:	60 Nm (44 ft. lbs.)	
Spark plug:	40 Nm (29 ft. lbs.)	

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

SERVICE BULLETIN

1986 TECHNICAL DATA 500 4-STROKE MOTOCROSS



Engine: Single cylinder, 4-stroke, 4 valves,
overhead cam, Husqvarna RAL system, (Reed
Activated Lubrication), air cooled

Displacement: 486.6cc
Bore/Stroke: 90.0 x 76.4mm
Compression ratio: 9.5:1

Transmission: 4-speed

Primary transmission ratio: 2.30 (33.76)

Number of cogs, gear box (MS:AS)

1st	17:29 = 1.71	3rd	23:24 = 1.04
2nd	20:26 = 1.30	4th	25:22 = 0.88

Secondary transmission ratio: 3.43 (48:14)

Total gear ratios (crankshaft: rear wheel)

1st	13.49:1	3rd	8.21:1
2nd	10.26:1	4th	6.94:1

Clutch: Multi disc in oil bath

Chain: 5/8" x 1/4"

Valve clearance (cold): In. .1mm (.004") Ex. .15mm (.006")

De-Compressor cable: 1-2mm clearance on cables with engine
running.

Oil capacity in gearbox: 1.6 lit. (0.42 US gal)

Oil recommendation: Bel-Ray Racing Engine Oil MC5 SAE 40

Fuel system:

Fuel: Gas min. 96 oct.
Tank capacity: 9 lit. (2.4 US gal)

Carburetor: Dellorto

Venturi Ø: 40mm
Main jet: 150
Needle jet: AB 265
Idling jet: 52
Starting jet: 60
Throttle: 50/1
Needle position: 3
Mixture control screw: 1 3/4
Float: 2 x 3.5 g

(over)

TECHNICAL SPECIFICATIONS

4-028

Electrical System:	SEM	
Type:	CD1	
Ignition advance:	33°	
Ignition adv. on piston before TDC:	8.0mm	
Ignition adv. on fly-wheel before TDC:	39.9mm	
Light coil:	70 + 70 W	
Spark plug:	NGK D8 EA	
Spark plug gap:	.028" - .032"	
Spark plug for racing:	NGK 09 EA	
Front fork:	Husqvarna	
Travel:	300mm (11.8 in.)	
Trail:	120mm (4.7 in.)	
Fork angle (caster):	27°	
Air pressure per leg:	Max. 50 kPa (8 psi) if air is used	
Oil capacity per leg:	500cc	
Oil recommendation:	VSP Husky fork oil SAE 5 - SAE 20	
Rear suspension:	Husqvarna single shock system with Ohlins piggyback shock absorber	
Travel:	350mm (13.8 in.)	
Wheels and Brakes:	Front:	Rear:
Tires: Metzeler	3.00 x 21"	4.50 x 18"
Spoke Ø:	4mm	4.5mm
Brake Ø:	Disc 230mm (9.06 in.)	drum 160mm (6.3 in.)
Dimensions:		
Length:	2200mm (86.6 in.)	
Height:	1240mm (48.8 in.)	
Wheelbase	1512mm (59.5 in.)	
Seat height:	975mm (38.3 in.)	
Ground clearance:	390mm (15.3 in.)	
Weight:	114kg (251 lbs.)	
Torque specifications:		
Flywheel nut:	90 Nm (66 ft. lbs.)	
Head nuts (above head):	50 Nm (36 ft. lbs.)	
Head nuts (below cyl):	25 Nm (18 ft. lbs.)	
Engine mounting bolts:	40 Nm (29 ft. lbs.)	
Crankcase screws:	12 Nm (9 ft. lbs.)	
Swingarm mounting nuts:	60 Nm (44 ft. lbs.)	
Spark plug:	20 Nm (15 ft. lbs.)	
Workshop manual:	Part number 15 17 736-01	

SERVICE BULLETIN

1986 TECHNICAL DATA 510 CROSS COUNTRY



Engine: Single cylinder, 4-stroke, 4 valves,
overhead cam, Husqvarna RAL system.
(Reed Activated Lubrication) Air cooled.

Displacement: 503cc
Bore/Stroke: 91.5 x 76.4mm
Compression ratio: 9.5:1

Transmission: 6-speed

Primary transmission ratio: 2.30 (33:76)

Number of cogs, gear box (MS:AS)

1st	13:34 = 2.62	4th	23:24 = 1.04
2nd	16:29 = 1.81	5th	25:22 = 0.88
3rd	19:26 = 1.37	6th	27:20 = 0.74

Secondary transmission ratio: 3.43 (48:14)

Total gear ratios (crankshaft: rear wheel):

1st	20.67:1	4th	8.21:1
2nd	14.28:1	5th	6.94:1
3rd	10.81:1	6th	5.84:1

Clutch: Multi disc in oil bath

Chain: 5/8" x 1/4"

Valve clearance (cold): In. .1mm (.004") Ex. .15mm (.006")

De-Compressor cable: 1-2mm clearance on cables with engine
running.

Oil capacity in gearbox: 1.6 Lit. (0.42 US gal)

Oil recommendation: Bel-Ray Racing Engine Oil MC5 SAE 40

Fuel System:

Fuel: Gas min 96 oct.

Tank capacity: 9 Lit. (2.4 US gal)

Carburetor: Dellorto

Venturi Ø: 40mm

Main jet: 150

Needle jet: AB 265

Idling jet: 52

Starting jet: 60

Throttle: 50/1

Needle position: 3

Mixture control screw: 1 3/4

Float: 2 x 3.5g

TECHNICAL SPECIFICATIONS

(OVER)

4-029

Electrical System:	SEM	
Type:	CD1	
Ignition advance:	33 ^o	
Ignition adv. on piston before TDC:	8.0mm	
Ignition adv. on flywheel before TDC:	39.9mm	
AC generator:	70 + 70 W	
Spark plug:	NGK D8 EA	
Spark plug gap:	.028" - .032"	
Spark plug for racing:	NGK D9 EA	
Front Fork:	Husqvarna	
Travel:	300mm (11.8 in.)	
Trail:	120mm (4.7 in.)	
Fork angle (caster):	27 ^o	
Air pressure per leg:	Max. 50 kPa (8 psi) if air is used	
Oil capacity per leg:	500cc	
Oil recommendation:	VSP Husky Fork Oil SAE 5 - SAE 20	
Rear Suspension:	Husqvarna single shock system with Ohlins piggy back shock absorber	
Travel:	350mm (13.8 in.)	
Wheels and Brakes:	Front:	Rear:
Tires: Metzeler	3.00 x 21"	450 x 18"
Spoke Ø:	4mm	4.5mm
Brake Ø:	Disc 230mm (9.06 in.)	Drum 160mm (6.3 in.)
Dimensions:		
Length:	2200mm (86.6 in.)	
Height:	1240mm (48.8 in.)	
Height at seat:	975mm (38.3 in.)	
Wheelbase:	1512mm (59.5 in.)	
Ground clearance:	390mm (15.3 in.)	
Weight (dry):	114 kg (251 lbs)	
Torque Specifications:		
Flywheel nut:	90 Nm (66 ft. lbs.)	
Head nuts (above head):	50 Nm (36 ft. lbs.)	
Head nuts (below cylinder):	25 Nm (18 ft. lbs.)	
Engine mounting bolts:	40 Nm (29 ft. lbs.)	
Crankcase screws:	12 Nm (9 ft. lbs.)	
Swing arm mounting nuts:	60 Nm (44 ft. lbs.)	
Spark plug:	20 Nm (15 ft. lbs.)	
Workshop manual:	Part Number 15 17 736-01	

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

SERVICE BULLETIN

1987 TECHNICAL DATA 430 AE (Automatic)



ENGINE: Single cylinder two-stroke, liquid cooled

DISPLACEMENT: 430cc
BORE STD: 86.00mm
1ST OVER: 86.50mm
2ND OVER: 87.00mm
3RD OVER:
STROKE: 74.00mm
COMPRESSION RATIO: 12.6:1

TRANSMISSION:

PRIMARY TRANSMISSION RATIO: Automatic gearbox controlled by 3 centrifugal
SECONDARY TRANSMISSION RATIO: (12:54) clutches
CHAIN DIMENSION: 5/8" x 1/4"
NUMBER OF COGS, GEARBOX(MS:AS):
OIL CAPACITY: 0.7 lit (0.18 US gal)
OIL RECOMMENDATION: ESSO UNIVIS J-26

FUEL SYSTEM:

FUEL: Gas min. 94 oct.
LUBRICATION: Oil-gas-mixture 4%
TANK CAPACITY: 12 lit (3.2 US gal)
OIL RECOMMENDATION: High quality two-stroke oil of well-known brand

CARBURETTOR: Minuki

VENTURI Ø 38mm
MAIN JET: 430
NEEDLE JET: R-0
IDLING JET: 40
NEEDLE POSITION: 3 from top
NEEDLE: 6 DH 20
AIRSCREW OPENING: 1.0 turn from bottom position
THROTTLE: 2.5
AIR JET: 2.0

ELECTRICAL SYSTEM: Motoplat

TYPE: CDI
IGNITION ADVANCE: 18°
IGNITION ADVANCE ON PISTON
BEFORE TDC: 2.30mm
LIGHT COIL: 35W
SPARK PLUG: Autolite 4054

ELECTRICAL EQUIPMENT:

HEAD LIGHT: 12V 45W
TAIL LIGHT: 12V 5W

TECHNICAL SPECIFICATIONS

4-032

1987 430 AE TECHNICAL DATA Cont'd.....

FRONT FORK:

	Husqvarna
TRAVEL:	270mm (11.0in)
TRAIL:	120mm (4.7 in)
FORK ANGLE:	27°
OIL CAPACITY PER LEG:	420-460cc
OIL RECOMMENDATION:	Fork oil SAE 5-SAE 10

REAR SUSPENSION:

	Husqvarna Single Shock System w/Ohlins
TRAVEL:	310mm (12.0 in.)

WHEELS AND BRAKES:

TIRES:	Front 3.00 x 21" Rear 4.50 x 18"
SPOKE Ø:	Front 4mm, Rear 4.5mm
BRAKES Ø:	Disc: 230mm, Drum: 160mm

DIMENSIONS:

LENGTH:	2200mm (86.6 in)
HEIGHT:	1280mm (51.2 in)
SEAT HEIGHT:	945mm (37.2 in)
WHEELBASE:	1500mm (59.0 in)
GROUND CLEARANCE:	340mm (13.4 in)
WEIGHT:	107kg (235 lbs.)

TORQUE SPECIFICATIONS:

FLYWHEEL NUT:	70 Nm (51 ft. lbs.)
CYLINDER HEAD NUTS:	40 Nm (29 ft. lbs.)
CYLINDER HEAD SCREWS:	35 Nm (25 ft. lbs.)
ENGINE MOUNTING BOLTS:	40 Nm (29 ft. lbs.)
CRANKCASE SCREWS:	12 Nm (8 ft. lbs.)
SWING ARM MOUNTING NUTS:	60 Nm (44 ft. lbs.)
SCREWS, REED VALVE HOUSING/ CYLINDER:	8 Nm (6 ft. lbs.)
SPARK PLUG:	40 Nm (29 ft. lbs.)

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

SERVICE BULLETIN

1987 TECHNICAL DATA 430 CR, XC, WR



ENGINE

Single cylinder two-stroke, liquid cooled

DISPLACEMENT: 430cc
BORE STD: 86.00mm
1ST OVER: 86.50mm
2ND OVER: 87.00mm
3RD OVER:
STROKE: 74.00mm
COMPRESSION RATIO: 12.6:1

TRANSMISSION

PRIMARY TRANSMISSION RATIO: 2.30 (33:76)
SECONDARY TRANSMISSION " : XC,WR 3.71 (14:52) CR 4.0 (13:52)
CHAIN DIMENSION: 5/8" x 1/4"
NUMBER OF COGS, GEARBOX (MS:AS):
1st WR,CR 13:34,CR 16:29 4th WR,XC 23:24,CR 25:22
2nd WR,XC 16:29,CR 19:26 5th WR,XC 25:22,CR 27:20
3rd WR,XC 19:26,CR 22:24 6th WR,XC 27:20

TOTAL GEAR RATIOS (crankshaft: rear wheel):

1st (XC,WR) 20.9 (CR) 16.70
2nd (XC,WR) 14.5 (CR) 12.61
3rd (XC,WR) 10.9 (CR) 10.05
4th (XC,WR) 8.3 (CR) 8.11
5th (XC,WR) 7.0 (CR) 6.82
6th (XC,WR) 5.9

OIL CAPACITY IN GEARBOX:
OIL RECOMMENDATION:

1,4 lit (0.37 US gal)
Engine oil SAE 20

FUEL SYSTEM

FUEL: Gas min. 94 oct.
LUBRICATION: Oil-gas-mixture 4%
TANK CAPACITY: WR,XC 12 lit (3.2 US gal), CR 10 lit (2.6 US gal)
OIL RECOMMENDATION: High quality two-stroke oil of well-known brand

CARBURETTOR

Mikuni

VENURI Ø: 38mm
MAIN JET: (WR,XC) 400, (CR) 430
NEEDLE JET: R-0
IDLING JET: (WR,XC) 45, (CR) 40
NEEDLE POSITION: 3 from top
NEEDLE : 6 DH 20
AIRSCREW OPENING: (WR,XC) 1.5 turn from bottom position, (CR) 1.0
THROTTLE: 2.5
AIR JET: 2.0

TECHNICAL SPECIFICATIONS

4-033

1987 430 CR, XC, WR TECHNICAL DATA Cont'd.....

ELECTRICAL SYSTEM

Motoplat

TYPE: CDI Ø 116mm
 IGNITION ADVANCE: 18°
 IGNITION ADVANCE ON PISTON
 BEFORE TDC: 2.30mm
 LIGHT COIL: 35W yellow cable
 SPARK PLUG: AUTOLITE 4055

ELECTRICAL EQUIPMENT

HEAD LIGHT: (WR) 12V 45W
 TAIL LIGHT: (WR) 12V 5W

FRONT FORK

TRAVEL: (WR, XC) Husqvarna, (CR) White Power
 TRAIL: (CR, XC) 300mm (11.8 in), (WR) 270mm (11.0 in)
 FORK ANGLE (Caster): 27°
 OIL CAPACITY PER LEG: (XC) 470-480cc, (WR) 430-450cc
 OIL RECOMMENDATION: Fork oil SAE 5-SAE 20

REAR SUSPENSION

TRAVEL: (XC, CR) 340mm (13.4 in), (WR) 310mm (12.0 in)

WHEELS AND BRAKES

TIRES: (XC, WR) Front: 3.00 x 21", Rear: 4.50 x 18"
 (CR) Front: 3.00 x 21", Rear: 5.10 x 18"
 SPOKE Ø: Front: 4mm, Rear: 4.5mm
 BRAKES Ø: Disc: 230mm, Drum: 160mm

DIMENSIONS

LENGTH: (XC, CR) 2204mm (86.8 in), (WR) 2200mm (86.8 in)
 HEIGHT: (XC, CR) 1235mm (48.6 in), (WR) 1280mm (51.2 in)
 SEAT HEIGHT: (XC, CR) 965mm (38.0 in), (WR) 945mm (37.2 in)
 WHEELBASE: (XC, CR) 1512mm (59.5 in), (WR) 1500mm (59.0 in)
 GROUND CLEARANCE: (XC, WR) 385mm (15.2 in), (WR) 340mm (13.4 in)
 WEIGHT: (XC, CR) 101 kg (222 lbs.)

TORQUE SPECIFICATIONS

FLYWHEEL NUT: 70 Nm (51 ft. lbs.)
 CYLINDER HEAD NUTS: 40 Nm (29 ft. lbs.)
 CYLINDER HEAD SCREWS: 35 Nm (25 ft. lbs.)
 ENGINE MOUNTING BOLTS: 40 Nm (29 ft. lbs.)
 CRANKCASE SCREWS: 12 Nm (8 ft. lbs.)
 SWING ARM MOUNTING NUTS: 60 Nm (44 ft. lbs.)
 SCREWS, REED VALVE HOUSING/
 CYLINDER: 12 Nm (8 ft. lbs.)
 SPARK PLUG: 40 Nm (29 ft. lbs.)

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

SERVICE BULLETIN

1986 TECHNICAL DATA 510 ENDURO



Engine: Single cylinder, 4-stroke, 4 valves, overhead cam, Husqvarna RAL system, (Reed Activated Lubrication), air cooled.

Displacement: 503cc
Bore/Stroke: 91.5 x 76.4mm
Compression ratio: 9.5:1

Transmission: 6-Speed Constant Mesh

Primary transmission ratio: 2.30 (33:76)

Number of cogs, gearbox (MS:AS):

1st	13:34 = 2.62	4th	23:24 = 1.04
2nd	16:29 = 1.81	5th	25:22 = 0.88
3rd	19:26 = 1.37	6th	27:20 = 0.74

Secondary transmission ratio: 3.43 (48:14)

Total gear ratios (crankshaft: rear wheel):

1st	20.67:1	4th	8.21:1
2nd	14.28:1	5th	6.94:1
3rd	10.81:1	6th	5.84:1

Clutch: Multi disc in oil bath

Chain: 5/8" x 1/4"

Valve clearance (cold): In. .1mm (.004") Ex. .15mm (.006")

De-Compressor cable: 1-2mm clearance on cables with engine running.

Oil capacity in gearbox: 1.6 (0.42 US gal)

Oil recommendation: Bel-Ray Racing Engine Oil MC5 SAE 40

Fuel System:

Fuel: Gas min 96 oct.

Tank capacity: 9 Lit. (2.4 US gal)

Carburetor: Dellorto

Venturi \emptyset : 40mm

Main jet: 150

Needle jet: AB 265

Idling jet: 52

Starting jet: 60

Throttle: 50/1

Needle position: 3

Mixture control screw: 1 3/4

Float: 2 x 3.5 g

TECHNICAL SPECIFICATIONS

(OVER)

4-030

Electrical System:	SEM	Electrical Equipment
Type:	CD1	Head light: 12 V 55 W
Ignition advance:	33 ⁰	Tail light: 12 V 5 W
Ignition adv. on piston before TDC:	8.0mm	
Ignition adv. on fly-wheel before TDC:	39.9mm	
Light coil:	70 + 70 W	
Spark plug:	NGK D8 EA	
Spark plug gap:	.028" - .032"	
Spark plug for racing:	NGK D9 EA	
Front fork:	Husqvarna	
Travel:	270mm (10.6 in.)	
Trail:	120mm (4.7 in.)	
Fork angle (caster):	27 ⁰	
Air pressure per leg:	Max. 50 kPa (8 psi) if air is used	
Oil capacity per leg:	540cc	
Oil recommendation:	VSP Husky fork oil SAE 5 - SAE 20	
Rear suspension:	Husqvarna single shock system with Ohlins piggyback shock absorber	
Travel:	310mm (12.2 in.)	
Wheels and Brakes:	Front: Rear:	
Tires: Metzeler	3.00 x 21" 450 x 18"	
Spoke Ø:	4mm 4.5mm	
Brake Ø:	Disc 230mm (9.06 in.) drum 160mm (6.3 in.)	
Dimensions:		
Length:	2200mm (86.6 in.)	
Height:	1295mm (50.9 in.)	
Wheelbase:	1500mm (59.0 in.)	
Seat height:	940mm (37.0 in.)	
Ground clearance:	345mm (13.5 in.)	
Weight:	117kg (257 lbs.)	
Torque specifications:		
Flywheel nut:	90 Nm (66 ft. lbs.)	
Head nuts (above cyl)	50 Nm (36 ft. lbs.)	
Head nuts (below cyl)	25 Nm (18 ft. lbs.)	
Engine mounting bolts:	40 Nm (29 ft. lbs.)	
Crankcase screws:	12 Nm (9 ft. lbs.)	
Swingarm mounting nuts:	60 Nm (44 ft. lbs.)	
Spark plug:	20 Nm (15 ft. lbs.)	
Workshop manual:	Part number 15 17 736-01	

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

SERVICE BULLETIN

HUSQVARNA 510 ENDURO



Engine: Single cylinder, 4 stroke, 4 valves, overhead cam, liquid cooled, Husqvarna RAL System (Reed Activated Lubrication)

Displacement: 503 cc
Bore/Stroke: 91.5 x 76.5
Compression ratio: 10:1

Transmission: 6 speed

Primary transmission ratio: 2.30 (76:33)

Number of cogs, gear box (MS:AS)

1st	13:34 = 2.62	4th	23:24 = 1.04
2nd	16:29 = 1.81	5th	25:22 = 0.88
3rd	19:26 = 1.37	6th	27:20 = 0.74

Secondary transmission ratio: 3.43 = 14:48

Total gear ratios (crankshaft: rear wheel)

1st	20.67:1	4th	8.21:1
2nd	14.28:1	5th	6.94:1
3rd	10.81:1	6th	5.84:1

Clutch: Multi disc in oil bath

Chain: 5/8" x 1/4"

Valve clearance (cold): Intake 0.10 mm (.004 in.) exhaust 0.15 mm (.006 in.)

De-Compressor cable: 1 - 2 mm clearance on cables with engine running

Oil capacity in gearbox: 1.6 lit. (0.42 U.S. gal.)

Oil recommendation: Bel-Ray racing engine oil MC5 SAE 40, SAE 20 - 50

Fuel system:

Fuel: Gas min. 96 octane

Tank capacity: 9 lt. (2.4 U.S. gal.)

Carburetor: Dellorto

Venturi Ø: 40 mm

Main jet: 170

Needle jet: AB 265

Idling jet: 52

Starting jet: 60

Throttle: 50

Needle position: #3

Mixture control screw: 1 3/4

Float: 2 x 3.5 g

(over)

TECHNICAL SPECIFICATIONS

4-031

Electrical System:	SEM	Electrical Equipment
Type:	C D I	Headlight 12 v 55/60 w
Ignition advance:	33°	Taillight 12 v 5 w
Ignition adv. on piston before TDC:	8.0 mm	
Ignition adv. on fly-wheel before TDC:	39.9	
Light coil:	70 + 70 w	
Spark plug:	NGK C 7 E	
Spark plug for racing:	NGK C 8 E	
Front fork:	Husqvarna Telescopic	
Travel:	270 mm (10.6 in.)	
Trail:	120 mm (4.7 in.)	
Fork angle (caster):	27°	
Air pressure per leg:	Max 50 kpa (8 psi)	
Oil capacity per leg:	450 cc	
Oil recommendation:	SAE 5 wt - SAE 20 wt	
Rear suspension:	Husqvarna single shock system with Ohlins piggyback shock absorber	
Travel:	310 mm (12.2 in.)	
Wheels and Brakes:		
Tires:	Front 3.00 x 21 Metzeler, Rear 4.50 x 18 Metzeler	
Spoke \emptyset :	4 mm Front, 4.5 mm Rear	
Brake drum \emptyset :	230 mm disc rear drum 160 mm (6.3 in.)	
Dimensions:		
Length:	2200 mm (86.6 in.)	
Height:	1295 mm (50.9 in.)	
Wheelbase:	1500 mm (59.0 in.)	
Seat height:	940 mm (37.0 in.)	
Ground clearance:	345 mm (13.5 in.)	
Weight:	116 kg (256 lbs.)	
Torque specifications:		
Flywheel nut:	90 NM (66 ft/lb)	
Cylinder head nuts:	50 NM (36 ft/lb)	
Cylinder head screws:	25 NM (18 ft/lb)	
Engine mounting bolts:	40 NM (29 ft/lb)	
Crankcase screws:	12 NM (9 ft/lb)	
Swingarm mounting nuts:	44 NM (29 ft/lb)	
Spark plug:	12 NM (9 ft/lb)	

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

SERVICE BULLETIN

HUSQVARNA 510 CROSS COUNTRY



Engine: Single cylinder, 4 stroke, 4 valves, overhead cam,
liquid cooled, Husqvarna RAL System (Reed Activated
Lubrication)

Displacement: 503 cc
Bore/Stroke: 91.5 x 76.5
Compression ratio: 10:1

Transmission: 6 speed

Primary transmission ratio: 2.30 (76:33)

Number of cogs, gear box (MS:AS)

1st	13:34 = 2.62	4th	23.24 = 1.04
2nd	16:29 = 1.81	5th	25.22 = 0.88
3rd	19:26 = 1.37	6th	27.20 = 0.74

Secondary transmission ratio: 3.43 = 14:48

Total gear ratios (crankshaft: rear wheel)

1st	20.67:1	4th	8.21:1
2nd	14.28:1	5th	6.94:1
3rd	10.81:1	6th	5.84:1

Clutch: Multi disc in oil bath
Chain: 5/8 x 1/4
Valve clearance (cold): In. .1 mm (.004") ex. .15 mm (.006")
De-Compressor cable: 1 - 2 mm clearance on cables with engine running

Oil capacity in gearbox: 1.6 lit. (0.42 U.S. gal.)
Oil recommendation: Bel-Ray racing engine oil MC5 SAE 40

Fuel system:

Fuel: Gas min. 96 octane
Tank capacity: 9 lt. (2.4 U.S. gal.)

Carburetor

Venturi Ø: 40 mm
Main jet: 170
Needle jet: AB 265
Idling jet: 52
Starting jet: 60
Throttle: 50
Needle position: #3
Mixture control screw: 1 3/4
Float: 2 x 3.5 g

TECHNICAL SPECIFICATIONS

(over)

4-032

Electrical System:	SEM
Type:	C D I
Ignition advance:	33°
Ignition adv. on piston before TDC:	8.0 mm
Ignition adv. on fly-wheel before TDC:	39.9 mm
Light coil:	70 + 70 w
Spark plug:	NGK C 7 E
Spark plug for racing:	NGK C 8 E
Front fork:	Husqvarna Telescopic
Travel:	300 mm (11.8 in.)
Trail:	120 mm (4.7 in.)
Fork angle (caster):	27°
Air pressure per leg:	Max. 50 KpA (8 psi)
Oil capacity per leg:	450 cc
Oil recommendation:	Fork oil SAE 5 - SAE 20
Rear suspension:	Husqvarna single shock system with Ohlins piggyback shock absorber
Travel:	350 mm (13.8 in.)
Wheels and Brakes:	
Tires:	Front 3.00 x 21 Metzeler, Rear 4.50 x 18 Metzeler
Spoke \emptyset :	Front 4 mm, Rear 4.5 mm
Brake drum \emptyset :	Front 230 mm disc, Rear drum 160 mm (6.3 in.)
Dimensions:	
Length:	2200 mm (86.6 in.)
Height:	1240 mm (48.8 in.)
Wheelbase:	1512 mm (59.5 in.)
Seat height:	975 mm (38.3 in.)
Ground clearance:	390 mm (15.3 in.)
Weight:	114 kg (251 lbs.)
Torque specifications:	
Flywheel nut:	90 NM (66 ft/lb)
Cylinder head nuts:	50 NM (36 ft/lb)
Cylinder head screws:	25 NM (18 ft/lb)
Engine mounting bolts:	40 NM (29 ft/lb)
Crankcase screws:	12 NM (9 ft/lb)
Swingarm mounting nuts:	60 NM (44 ft/lb)
Spark plug:	12 NM (9 ft/lb)

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

SERVICE BULLETIN

1987 TECHNICAL DATA 250 CR, XC, WR



ENGINE

Single cylinder two-stroke, liquid cooled

DISPLACEMENT: 246cc
BORE STD: 66.50mm
1ST OVER: 66.75mm
2ND OVER: 67.00mm
3RD OVER:
STROKE: 70.8mm
COMPRESSION RATIO: 14.8:1

TRANSMISSION

PRIMARY TRANSMISSION RATIO: 2.63 (30:79)
SECONDARY TRANSMISSION " : CR, WR 4.0 (13:52), XC 3.71 (14:52)
CHAIN DIMENSION: 5/8" x 1/4"
NUMBER OF COGS, GEARBOX (MS:AS):

<u>1ST</u>	WR, XC 14:33, CR 16:31	<u>4TH</u>	WR, XC, CR 23:24
<u>2ND</u>	WR, XC 17:29, CR 18:28	<u>5th</u>	WR, XC, CR 25:22
<u>3RD</u>	WR, XC 20:26, CR 21:26	<u>6TH</u>	WR, XC 27:20

TOTAL RATIOS (crankshaft: rear wheel):

<u>1ST</u>	(XC, WR) 24.8	(CR) 20.41
<u>2ND</u>	(XC, WR) 18.0	(CR) 16.38
<u>3RD</u>	(XC, WR) 13.7	(CR) 13.04
<u>4TH</u>	(XC, WR) 11.0	(CR) 10.99
<u>5TH</u>	(XC, WR) 9.3	(CR) 9.27
<u>6TH</u>	(XC, WR) 7.8	(CR) 9.27

OIL CAPACITY IN GEARBOX: 1,4 lit (0.37 US gal)
OIL RECOMMENDATION: Engine oil SAE 20

FUEL SYSTEM

FUEL: Gas min. 94 oct.
LUBRICATION: oil-gas-mixture 4%
TANK CAPACITY: WR, XC 12 lit (3.2 US gal), CR
OIL RECOMMENDATION: High quality two-stroke oil of well-known brand

CARBURETTOR

Mikuni

VENURI Ø: 38mm
MAIN JET: (WR, XC) 460, (CR) 410
NEEDLE JET: (WR, XC) R-6, (CR) Q-6
IDLING JET: (WR, XC) 35, (CR) 40
NEEDLE POSITION: (WR, XC) 3 from top, (CR) 4 from top
NEEDLE: (WR, XC) 6 DH 20, (CR) 6 FJ 40
AIRSCREW OPENING: 1.5 turn from bottom position
THROTTLE: (WR, XC) 2.5, (CR) 4.0
AIR JET: (WR, CR) 2.0

TECHNICAL SPECIFICATIONS

4-031

1987 250 CR,XC,WR TECHNICAL DATA Cont'd.....

ELECTRICAL SYSTEM

TYPE: (WR) Motoplat retard \emptyset 116mm
 (XC) SEM processor \emptyset 116mm
 (CR) SEM processor \emptyset 90mm
 (WR) 9.5° (CR,XC) 17.2°

IGNITION ADVANCE:
 IGNITION ADVANCE ON PISTON
 BEFORE TDC: (WR) 0.61mm (CR,XC) 2.0mm
 LIGHT COIL: (WR) 35W (XC) 70+70W
 SPARK PLUG: Autolite 4054 or Bosch W 4 C

ELECTRICAL EQUIPMENT

HEAD LIGHT: (WR) 12V 45W
 TAIL LIGHT: (WR) 12V 5W

FRONT FORK

(WR,XC) Husqvarna, (CR) White Power

TRAVEL: (CR,XC) 300mm (11.8 in), (WR) 270mm (11.0 in)
 TRAIL: 120mm (4.7in)
 FORK ANGLE (caster): 27°
 OIL CAPACITY PER LEG: (XC) 470-480cc, (WR) 430-450cc
 OIL RECOMMENDATION: Fork oil SAE 5-SAE 20

REAR SUSPENSION

Husqvarna Single Shock with Ohlins shockabsorber

TRAVEL: (XC,CR) 340mm (13.4in), (WR) 310mm (12.0in)

WHEELS AND BRAKES

TIRES: Front: 3.00x21", Rear: 4.50x18"
 SPOKE \emptyset L Front: 4mm, Rear: 4.5mm
 BRAKES: Disc: 230mm, Drum: 160mm

DIMENSIONS

LENGTH: (XC,CR) 2204mm(86.8in), (WR) 2200mm(86.6in)
 HEIGHT: (XC,CR) 1235mm(48.6in), (WR) 1280mm(51.2in)
 SEAT HEIGHT: (XC,CR) 965mm(38.0in), (WR) 945mm(37.2in)
 WHEELBASE: (XC,WR) 1512mm(59.5in), (WR) 1500mm(59.0in)
 GROUND CLEARANCE: (XC,WR7) 385mm(15.2in), (WR) 340mm (13.4in)
 WEIGHT: (XC 99kg (218 lbs.) (CR) 98kg (216 lbs.)

TORQUE SPECIFICATIONS

FLYWHEEL NUT: 70 Nm (51 ft. lbs.)
 CYLINDER HEAD NUTS: 35 Nm (25 ft. lbs.)
 CYLINDER HEAD SCREWS: 30 Nm (22 ft. lbs.)
 ENGINE MOUNTING BOLTS: 40 Nm (29 ft. lbs.)
 CRANKCASE SCREWS: 12 Nm (8 ft. lbs.)
 SWING ARM MOUNTING NUTS: 60 Nm (44 ft. lbs.)
 SCREWS, REED VALVE HOUSING
 CYLINDER: 12 Nm (8 ft. lbs.)
 SPARK PLUG: 40 Nm (29 ft. lbs.)

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

SERVICE BULLETIN

1987 TECHNICAL DATA 500XC



ENGINE

Single cylinder two-stroke, liquid cooled

DISPLACEMENT: 488cc
BORE STD. 86.00mm
1ST OVER: 86.50mm
2ND OVER: 87.00mm
3RD OVER:
STROKE: 84.00mm
COMPRESSION RATIO: 10.5:1

TRANSMISSION

PRIMARY TRANSMISSION RATIO: 1.79 (39:70)
SECONDARY TRANSMISSION RATIO: 3.71 (14:52)
CHAIN DIMENSION: 5/8" x 1/4"
NUMBER OF COGS, GEARBOX
(MS:AS):

<u>1st</u>	13:34	<u>4th</u>	23:24
<u>2nd</u>	16:29	<u>5th</u>	25:22
<u>3rd</u>	19:26	<u>6th</u>	27:20

TOTAL GEAR RATIOS (Crank-
shaft: rear wheel):

<u>1st</u>	17.44
<u>2nd</u>	12.08
<u>3rd</u>	9.12
<u>4th</u>	6.96
<u>5th</u>	5.87
<u>6th</u>	4.94

OIL CAPACITY IN GEARBOX: 1,4 lit (0.37 US gal)
OIL RECOMMENDATION: Engine oil SAE 20

FUEL SYSTEM

FUEL: Gas min. 94 oct.
LUBRICATION: Oil-gas-mixture 4%
TANK CAPACITY: XC 12 lit (3.2 US gal)
OIL RECOMMENDATION: High quality two-stroke oil of well-known brand

CARBURETTOR

Mikuni

VENTURI Ø: 38mm
MAIN JET: 400
NEEDLE JET: R-0
IDLING JET: 35
NEEDLE POSITION: 3 from top
NEEDLE: 6 F 8
AIRSCREW OPENING: 1.5 turn from bottom position
THROTTLE: 3.0
AIR JET: 2.0

TECHNICAL SPECIFICATIONS

4-034

1987 500XC TECHNICAL DATA Cont'd.....

ELECTRICAL SYSTEM

Motoplat

TYPE: CDI Ø 116mm
 IGNITION ADVANCE: 18°
 IGNITION ADVANCE ON PISTON
 BEFORE TDC: 2.63mm
 LIGHT COIL: 35 W yellow cable
 SPARK PLUG: Bosch W 3 C or Autolite 4055

FRONT FORK

Husqvarna

TRAVEL: 300mm (11.8 in)
 TRAIL: 120mm (4.7 in)
 FORK ANGLE (caster) 27°
 OIL CAPACITY PER LEG: 470-480 cc
 OIL RECOMMENDATION: Fork oil SAE 5-SAE 20

REAR SUSPENSION

Husqvarna Single Shock System with Ohlins shockabsorber

TRAVEL: 340mm (13.4 in)

WHEELS AND BRAKES

TIRES: Front: 3.00 x 21", Rear: 4.50 x 18"
 SPOKE Ø: Front: 4mm, Rear: 4.5mm
 BRAKES Ø: Disc: 230mm, Drum: 160mm

DIMENSIONS

LENGTH: 2204mm (86.8 in)
 HEIGHT: 1235mm (48.6 in)
 SEAT HEIGHT: 965mm (38.0 in)
 WHEELBASE: 1512mm (59.5 in)
 GROUND CLEARANCE: 385mm (15.2 in)
 WEIGHT: 103kg (227 lbs.)

TORQUE SPECIFICATIONS

FLYWHEEL NUT: 70 Nm (51 ft. lbs.)
 CYLINDER HEAD NUTS: 40 Nm (29 ft. lbs.)
 CYLINDER HEAD SCREWS: 35 Nm (25 ft. lbs.)
 ENGINE MOUNTING BOLTS: 40 Nm (29 ft. lbs.)
 CRANKCASE SCREWS: 12 Nm (8 ft. lbs.)
 SWING ARM MOUNTING NUTS: 60 Nm (44 ft. lbs.)
 SCREWS, REED VALVE HOUSING/
 CYLINDER: 12 Nm (8 ft. lbs.)
 SPARK PLUG: 40 Nm (29 ft. lbs.)

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

SERVICE BULLETIN

1987 TECHNICAL DATA 510TC Motocross



Engine: Single cylinder, 4-stroke, 4valve, OHC,
Husqvarna RAL system, liquid cooled

Displacement: 503cc
Bore/Stroke: 91.5 x 76.5mm
Compression ratio: 10:1

Transmission: 5-speed

Primary transmission ratio: 2.3 (33.76)

Number of cogs, gear box (MS:AS)

1st 16:29	4th 25:22
2nd 19:26	5th 27:20
3rd 22:26	

Secondary transmission ratio: 3.71:1 (14:52)

Total gear ratios (crankshaft: rear wheel)

1st 15.50:1	4th 7.53:1
2nd 11.71:1	5th 6.34:1
3rd 9.33:1	6th

Clutch: Multi disc in oil bath

Chain: 5/8" x 1/4"

Valve clearance (cold): In. 0.10mm(0.004") Ex. 0.15mm(0.006")

De-Compressor cable: 1-2mm clearance on cables with engine running

Oil capacity in gearbox: 1.4 litre(0.36 US gal.)

Oil recommendation: Bel-Ray Racing Engine oil MC5 SAE 40

Fuel system:

Fuel: Gasoline min 96 oct.

Tank capacity: 9 litre (2.4 US gal.)

Carburetor Dellorto

Venturi Ø: 40mm
Main jet: 170
Needle jet: AB265
Idling jet: 52
Starting jet: 60
Throttle: 50
Needle position: 3
Mixture control screw: 1 3/4
Float: 2x3.5 g

TECHNICAL SPECIFICATIONS

4-035

Electrical System:	SEM	
Type:	CDI	
Ignition advance:	33°	
Ignition adv. on piston before TDC:	8.0mm	
Ignition adv. on fly-wheel before TDC:	39.9mm	
Light coil:		
Spark plug:	NGK C 7E NGK C 8E (racing)	
Front fork:	Husqvarna	
Travel:	300mm(11.8 in.)	
Trail:	120mm(4.7 in.)	
Fork angle (caster):	27°	
Air pressure per leg:	Max. 50Kpa (8psi)	
Oil capacity per leg:	450cc	
Oil recommendation:	SAE5-SAE20 Fork Oil	
Rear suspension:	Husqvarna single shock system with Ohlins piggy back shock absorber	
Travel:	350mm (13.8 in.)	
Wheels and Brakes:	Front:	Rear:
Tires:	Metzler 3.00x21"	4.50x18"
Spoke Ø:	4mm	4.5mm
Brake drum Ø:	Disc 230mm(9.06 in.)	Drum 160mm(6.3 in.)
Dimensions:		
Length:	2200mm(86.6 in.)	
Height:	1240mm(48.8 in.)	
Wheelbase:	1512mm(59.6 in.)	
Seat height:	975mm(38.3 in.)	
Ground clearance:	390mm(15.3 in.)	
Weight:	112kg(248 lbs.)	
Torque specifications:		
Flywheel nut:	90Nm(66ft.lbs.)	
Cylinder head nuts:	50Nm(36ft.lbs.)	
Cylinder head screws:	25Nm(18ft.lbs.)	
Engine mounting bolts:	40Nm(29ft.lbs.)	
Crankcase screws:	12Nm(9ft.lbs.)	
Swingarm mounting nuts:	60Nm(44ft.lbs.)	
Spark plug:	12Nm(9ft.lbs.)	

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

SERVICE BULLETIN

1987 TECHNICAL DATA 510TE Enduro



Engine: Single cylinder, 4-stroke, 4 valves, OHC,
Husqvarna RAL system, liquid cooled

Displacement: 503cc
Bore/Stroke: 91.5 x 76.5mm
Compression ratio: 10:1

Transmission: 6 speed

Primary transmission ratio: 2:30 (33:76)

Number of cogs, gear box (MS:AS)

1st 13:34 = 2.62	4th 23:24 = 1.04
2nd 16:29 = 1.81	5th 25:23 = 0.88
3rd 19:26 = 1.37	6th 27:20 = 0.74

Secondary transmission ratio: 2:8(33:76)

Total gear ratios (crankshaft: rear wheel)

1st 16.9:1	4th 6.8:1
2nd 11.8:1	5th 5.7:1
3rd 8.9:1	6th 4.8:1

Clutch: Multi disc in oil bath

Chain: 5/8" x 1/4"

Valve clearance (cold): In. 0.10mm(0.004") Ex. 0.15mm(0.006")

De-Compressor cable: 1-2mm clearance on cables with engine running

Oil capacity in gearbox: 1.6 lit. (0.42 US gal.)

Oil recommendation: Bel-Ray Racing Engine Oil MC5 SAE 40

Fuel system:

Fuel: Gasoline min 96 oct.

Tank capacity: 9 litre (2.4 US gal.)

Carburetor Dellorto

Venturi \emptyset : 40mm
Main jet: 170
Needle jet: AB 265
Idling jet: 52
Starting jet: 60
Throttle: 50
Needle position: 3
Mixture control screw: 1 3/4
Float: 2x3.5 g

TECHNICAL SPECIFICATIONS

4-036

Electrical System:	SEM	Electrical Equipment:
Type:	CDI ^o	Headlight: 12V 55/W
Ignition advance:	33 ^o	Taillight: 12V 5W
Ignition adv. on piston before TDC:	8.0mm	
Ignition adv. on fly-wheel before TDC:	39.9mm	
Light coil:	70+70W	
Spark plug:	NGK C 7E NGK C 8E (racing)	

Front fork: Husqvarna

Travel: 270mm(10.6 in.)

Trail: 120mm(4.7 in.)

Fork angle (caster): 27^o

Air pressure per leg: Max 50kPa (8psi)

Oil capacity per leg: 450cc

Oil recommendation: SAE 5-SAE20 fork oil

Rear suspension: Husqvarna single shock system with Ohlins piggy back shock absorber

Travel: 310mm (12.2 in.)

Wheels and Brakes:	Front:	Rear:
Tires:	Metzler 3.00 x 21"	4.50 x 18"
Spoke Ø:	4mm	4.5mm
Brake drum Ø:	Disc 230mm(9.06 in.)	Drum 160mm(6.3 in.)

Dimensions:

Length: 2200mm(86.8 in.)

Height: 1295mm(48.8 in.)

Wheelbase: 1500mm(59.0 in.)

Seat height: 940mm(37.0 in.)

Ground clearance: 345mm(13.5 in.)

Weight: 116kg(256 lbs.)

Torque specifications:

Flywheel nut: 90Nm(66ft.lbs.)

Cylinder head nuts: 50Nm(36ft.lbs.)

Cylinder head screws: 25Nm(18ft.lbs.)

Engine mounting bolts: 40Nm(29ft.lbs.)

Crankcase screws: 12Nm(9ft.lbs.)

Swingarm mounting nuts: 44Nm(29ft.lbs.)

Spark plug: 12Nm(0ft.lbs.)

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

SERVICE BULLETIN

1987 510TX TECHNICAL DATA



Engine: Single cylinder, 4-stroke, 4 valves, OHC,
Husqvarna RAL system, liquid cooled

Displacement: 503cc
Bore/Stroke: 91.5 x 76.5 mm
Compression ratio: 10:1

Transmission: 6-speed

Primary transmission ratio: 2.30 (33:76)

Number of cogs, gear box (MS:AS)

1st	13:34 = 2.62	4th	23:24 = 1.04
2nd	17:28 = 1.81	5th	25:22 = 0.88
3rd	19:26 = 1.37	6th	27:20 = 0.74

Secondary transmission ratio: 3:43 (48:14)

Total gear ratios (crankshaft: rear wheel)

1st	20.6:1	4th	8.2:1
2nd	14.2:1	5th	6.9:1
3rd	10.8:1	6th	5.8:1

Clutch: Multi disc in oil bath

Chain: 5/8" x 1/4"

Valve clearance (cold): In. 0.10mm (0.004") Ex. 0.15mm (0.006")

De-Compressor cable: 1-2mm clearance on cables with engine
running

Oil capacity in gearbox: 1.6 lit. (0.42 US gal.)

Oil recommendation: Bel-Ray Racing Engine Oil MC5 SAE 40

Fuel system:

Fuel: Gasoline min 96 oct.

Tank capacity: 9 litre (2.4 US gal.)

Carburetor Dellortó

Venturi Ø: 40mm

Main jet: 170

Needle jet: AB 265

Idling jet: 52

Starting jet: 60

Throttle: 50

Needle position: 3

Mixture control screw: 1 3/4

Float: 2x3.5 g

TECHNICAL SPECIFICATIONS

4-037

Electrical System: SEM

Type: CDI

Ignition advance: 33°

Ignition adv. on piston before TDC: 8.0mm

Ignition adv. on fly-wheel before TDC: 39.9mm

Spark plug: NGK C 7E
NGK C 8E (For racing)

Front fork: Husqvarna

Travel: 300mm (11.8 in.)

Trail: 120mm (4.7 in.)

Fork angle (caster): 27°

Air pressure per leg: Max. 50kPa (8psi)

Oil capacity per leg: 450cc

Oil recommendation: VSP Husky Fork Oil SAE5 - SAE20

Rear suspension: Husqvarna single shock system with Ohlins piggy back shock absorber

Travel: 350mm (13.8 in.)

Wheels and Brakes: Front: Rear:

Tires: 3.00 x 21" 4.50 x 18"

Spoke ø: 4mm 4.5mm

Brake drum ø: Disc 230mm(9.06 in.) Drum 160mm (6.3 in)

Dimensions:

Length: 2200mm(86.8 in.)

Height: 1240mm(48.8 in.)

Wheelbase 1512mm(59.5 in.)

Seat height: 975mm(38.3 in.)

Ground clearance: 390mm(15.3 in.)

Weight: 114kg(251 lbs.)

Torque specifications:

Flywheel nut: 90Nm(66ft.lbs.)

Cylinder head nuts: 50Nm(36ft.lbs.)

Cylinder head screws: 25Nm(18ft.lbs.)

Engine mounting bolts: 40Nm(29ft.lbs.)

Crankcase screws: 12Nm(9ft.lbs.)

Swingarm mounting nuts: 60Nm(44ft.lbs.)

Spark plug: 12Nm(9ft.lbs.)

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE



CAGIVA
NORTH AMERICA, INC.

700 W. 190th Street Gardena, CA 90248
PHONE NO. (213) 538-9337
TLX NO. 664327 CAGIVA GDNA

1987 HUSQVARNA 250 ENDURO TECHNICAL SPECIFICATIONS

ENGINE:

Single cylinder two-stroke liquid cooled
Displacement: 246 cc
Bore Standard: 66.50 mm
1st over 66.75 mm
2nd over 67.00 mm
Strokes: 70.80 mm
Compression ratio: 14.8

TRANSMISSION:

Primary transmission ratio: 2.63 (30.79)
Secondary transmission ratio: 4.0 (13.52)
Chain dimension: 5/8"x 1/4"
Number of cogs, gearbox (MS:AS)
1st 14:33 4th 23:24
2nd 17:29 5th 25:22
3rd 20:26 6th 27:20

Total gear ratios (crankshaft: rear wheel):

1st 24.8 4th 11.0
2nd 18.0 5th 9.3
3rd 13.7 6th 7.8

Oil capacity in gearbox: 1.4 lit (0.37 US gal)
Oil recommendation: Engine oil SAE 20

CARBURETOR:

Mikuni

Venturi 38 mm
Main jet 460
Needle jet R-6
Idling jet 35
Needle position 3 from top
Needle 6 DH 20
Airscrew Opening 1.5 turn from bottom position
Throttle 2.5

ELECTRICAL EQUIPMENT:

Head light: 12V 45W
Tail light: 12V 5W

ELECTRICAL SYSTEM:

Motoplat

Type: CDI Ø 116 (retard)
Ignition Advance: 9.5°
Ignition advance on piston before TDC 0.61 mm
Ignition advance on flywheel before TDC 9.6 mm
AC Generator 45W
Spark plug: Autolite 4054

FRONT FORKS:

Husqvarna

Travel 270 mm (10.6 in)
Trail: 120 mm (4.7 in)
Fork angle (caster) 27°
Air pressure per leg max. 50 kPa (8 psi)
Oil capacity per leg 420-460 CC
Oil recommendation SAE 5 - SAE 10

REAR SUSPENSION:

Husqvarna Single Shock System with Ohlins Piggy Back shockabsorber
Travel: 310 mm (12.2 in)

WHEELS AND BRAKES:

Front wheels Metzeler 3.00 x 21"
Rear wheels Metzeler 4.50 x 18"
Brakes Disc 230 mm (front)
Drum 160 mm (rear)

FUEL SYSTEM:

Fuel Gas min. 94 oct.
Lubrication Oil-gas mixture 4%
Tank capacity 12 lit. (3.2 US gal)
Oil recommendation High quality two-stroke oil of well-known brand

DIMENSIONS:

Length 2200 mm (86.6 in)
Height 1280 mm (50.4 in)
Seat height 945 mm (37.2 in)
Wheelbase 1500 mm (59.0)
Ground clearance 340 mm (13.4 in)
Weight 105 kg (231 lbs.)



CAGIVA
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1987 CAGIVA WMX 125 CROSS TECHNICAL SPECIFICATIONS

ENGINE

TYPE2-STROKE, SINGLE CYLINDER, WATER-COOLED
VALVE ARRANGEMENTPISTON PORTED WITH REED VALVE INDUCTION
BORE AND STROKE56 x 50.6
DISPLACEMENT124.63 cc
COMPRESSION RATIO 15.6 : 1
MAX. POWER, RPM33.5 HP AT 11.500 RMP AT THE REAR WHEEL
MAX. TORQUE, RPM2.04 KGM AT 11.000 RPM
CARBURETIONDELL'ORTO PHSB 36 PS
AIR FILTERSPONGE ELEMENT
LUBRICATIONOIL GASOLINE 2% MIXTURE
STARTING SYSTEMKICK
IGNITIONELECTRONIC
GENERATOR12 V

DRIVETRAIN

CLUTCHOIL-WET, MULTI-PLATE
PRIMARY DRIVEGEARS
SECONDARY DRIVECHAIN
GEARBOX6-SPEED

SUSPENSION/WHEEL TRAVEL

FRONTTELESCOPIC FORK
REAR SWINGING ARM WITH HYDROPNEUMATIC CENTRAL SHOCK ABSORBER

BRAKES

FRONT∅ 230 DISC
REAR∅ 130 DRUM

TIRES

FRONT3.00 x 21"
REAR4.25 x 18"

DIMENSIONS AND CAPACITIES

WEIGHTKG. 88 AT LEAST ACCORDING TO FIM REGULATIONS
WHEELBASE1440 mm
SEAT HEIGHT925 mm
HANDLEBAR WIDTH830mm
MAX LENGTH2145 mm
GROUND CLEARANCE355 mm
STEERING HEAD ANGLE45°
FRONT WHEEL TRAIL117 mm
FRAMEDOUBLE DOWN CRADLE
OIL CAPACITY0.7 lt
FUEL TANK8 lt
INSTRUMENTATION

PERFORMANCE

AVERAGE FUEL CONSUMPTION / TOP SPEED

AVAILABLE COLORS

PRICE

1987 CAGIVA WMX 125 CROSS TECHNICAL SPECIFICATIONS

ENGINE

TYPE2-STROKE, SINGLE CYLINDER, WATER-COOLED
VALVE ARRANGEMENTPISTON PORTED WITH REED VALVE INDUCTION
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1987 CAGIVA WMX 250 CROSS TECHNICAL SPECIFICATIONS

ENGINE

TYPE2-STROKE, SINGLE CYLINDER, WATER COOLED
VALVE ARRANGEMENTPISTON PORTED WITH REED VALVE INDUCTION
BORE AND STROKE70 x 64.8
DISPLACEMENT249.3 cc
COMPRESSION RATIO14:1
MAX. POWER, RPM42 HP AT 8000 RPM AT THE REAR WHEEL
MAX. TORQUE, RPM4 KGM AT 7250 RPM
CARBURETION.....DELL'ORTO PHSB 38
AIR FILTERSPONGE ELEMENT
LUBRICATIONOIL-PETROL 2% MIXTURE
STARTING SYSTEMKICK
IGNITIONELECTRONIC
GENERATOR12 V

DRIVETRAIN

CLUTCHOIL WET, MULTI-PLATE
PRIMARY DRIVEGEARS
SECONDARY DRIVECHAIN
GEARBOX6 SPEED

SUSPENSION/WHEEL TRAVEL

FRONTTELESCOPIC FORK
REARSWINGING ARM WITH DYDROPNEUMATIC CENTRAL SHOCK ABSORBER

BRAKES

FRONTØ 230 DISC
REARØ 130 DRUM

TIRES

FRONT3.00 x 21"
REAR4.25 x 18"

DIMENSIONS AND CAPACITIES

WEIGHT98 KG. AT LEAST TO FIM REGULATIONS
WHEELBASE1443 mm
SEAT WEIGHT925 mm
HANDLEBAR WIDTH830 mm
MAX. LENGTH2148 mm
GROUND CLEARANCE4855 mm
STEERING HEAD ANGLE45°
FRONT WHEEL TRAIL117
FRAMEDOUBLE DOWN CRADLE
OIL CAPACITY0.8 lt
FUEL TANK8 lt.
INSTRUMENTATION

PERFORMANCE

AVERAGE FUEL CONSUMPTION
TOP SPEED

1987 CAGIVA WMX 250 CROSS TECHNICAL SPECIFICATIONS

ENGINE

TYPE2-STROKE, SINGLE CYLINDER, WATER COOLED
VALVE ARRANGEMENTPISTON PORTED WITH REED VALVE INDUCTION
BORE AND STROKE70 x 64.8
DISPLACEMENT249.3 cc
COMPRESSION RATIO14:1
MAX. POWER, RPM42 HP AT 8000 RPM AT THE REAR WHEEL
MAX. TORQUE, RPM4 KGM AT 7250 RPM
CARBURETION.....DELL'ORTO PHSB 38
AIR FILTERSPONGE ELEMENT
LUBRICATIONOIL-PETROL 2% MIXTURE
STARTING SYSTEMKICK
IGNITIONELECTRONIC
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MAX. LENGTH2148 mm
GROUND CLEARANCE4855 mm
STEERING HEAD ANGLE45°
FRONT WHEEL TRAIL117
FRAMEDOUBLE DOWN CRADLE
OIL CAPACITY0.8 lt
FUEL TANK8 lt.
INSTRUMENTATION

PERFORMANCE

AVERAGE FUEL CONSUMPTION
TOP SPEED



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700 W. 190th Street Gardena, CA 90248
PHONE NO. (213) 538-9337
TLX NO. 664327 CAGIVA GDNA

1987 CAGIVA WMX 500 DESERT TECHNICAL SPECIFICATIONS

ENGINE

TYPE2 STROKE, SINGLE CYLINDER
COOLINGLIQUID COOLED, TWIN RADIATORS
BORE & STROKE87 x 82 mm
DISPLACEMENT487.5 cc
CARBURETORDELL'ORTO 38 mm
IGNITIONMOTOPLAT ELECTRONIC W/ VARIABLE ADVANCE & LIGHTING
COILS

DRIVETRAIN

CLUTCHMULTIPLATE, OIL BATH
PRIMARY DRIVEGEAR
SECONDARY DRIVECHAIN
GEARBOX5-SPEED, CONSTANT MESH
STARTER SYSTEMKICKSTARTER
FRAMESINGLE DOWNTUBE, CRADLE TYPE, 4130 ROUND TUBE W/
REMOVABLE SIDESTAND

SUSPENSION

FRONTHYDRAULIC, TELESCOPIC TYPE, 42 mm MARZOCCHI
REAR**"SOFT-DAMP"** TYPE WITH SWINGARM & OHLIN SINGLE SHOCK
SUSPENSION TRAVEL-FRONT11.7"
SUSPENSION TRAVEL-REAR12.6"

TIRES

PIRELLI **"HARD-CROSS"**

FRONT3.00 x 21"
REAR5.00 x 18"

BRAKES

FRONTBREMBO DISC, DRILLED, 230 mm (9.0") W/ DISC COVER
REARDRUM, 130 mm (5.12")

DIMENSIONS AND CAPACITIES

MAX LENGTH2200 mm (86.9")
MAX WIDTH850 mm (33.4")
MAX HEIGHT1214 mm (47.8")
SEAT HEIGHT940 mm (37.0")
GROUND CLEARANCE395 mm (15.5")
WHEELBASE1495 mm (58.8")
TRAIL118 mm (4.64")
RAKE28°
FUEL TANK CAP.....17 L (4.5 GALS)
DRY WEIGHT105 KG (230 lbs)
LUBRICATIONPRE-MIX 50:1
COUNTRY OF ORIGINITALY

1987 CAGIVA WMX 500 DESERT TECHNICAL SPECIFICATIONS

ENGINE

TYPE 2 STROKE, SINGLE CYLINDER
COOLING LIQUID COOLED, TWIN RADIATORS
BORE & STROKE 87 x 82 mm
DISPLACEMENT 487.5 cc
CARBURETOR DELL'ORTO 38 mm
IGNITION MOTOPLAT ELECTRONIC W/ VARIABLE ADVANCE & LIGHTING
COILS

DRIVETRAIN

CLUTCH MULTIPLATE, OIL BATH
PRIMARY DRIVE GEAR
SECONDARY DRIVE CHAIN
GEARBOX 5-SPEED, CONSTANT MESH
STARTER SYSTEM KICKSTARTER
FRAME SINGLE DOWNTUBE, CRADLE TYPE, 4130 ROUND TUBE W/
REMOVABLE SIDESTAND

SUSPENSION

FRONT HYDRAULIC, TELESCOPIC TYPE, 42 mm MARZOCCHI
REAR "SOFT-DAMP" TYPE WITH SWINGARM & OHLIN SINGLE SHOCK
SUSPENSION TRAVEL-FRONT 11.7"
SUSPENSION TRAVEL-FRONT 12.6"

TIRES

PIRELLI "HARD-CROSS"

FRONT 3.00 x 21"
REAR 5.00 x 18"

BRAKES

FRONT BREMBO DISC, DRILLED, 230 mm (9.0") W/ DISC COVER
REAR DRUM, 130 mm (5.12")

DIMENSIONS AND CAPACITIES

MAX LENGTH 2200 mm (86.9")
MAX WIDTH 850 mm (33.4")
MAX HEIGHT 1214 mm (47.8")
SEAT HEIGHT 940 mm (37.0")
GROUND CLEARANCE 395 mm (15.5")
WHEELBASE 1495 mm (58.8")
TRAIL 118 mm (4.64")
RAKE 28°
FUEL TANK CAP. 17 L (4.5 GALS)
DRY WEIGHT 105 KG (230 lbs)
LUBRICATION PRE-MIX 50:1
COUNTRY OF ORIGIN ITALY



CAGIVA
NORTH AMERICA, INC.

700 W. 190th Street Gardena, CA 90248
PHONE NO. (213) 538-9337
TLX NO. 664327 CAGIVA GDNA

1987 HUSQVARNA 250 CROSS-COUNTRY TECHNICAL SPECIFICATIONS

ENGINE:

Single cylinder two-stroke liquid cooled
Displacement: 246 cc
Bore Standard: 66.50 mm
1st Over 66.75 mm
2nd Over 67.00 mm
Strokes: 70.8 mm
Compression Ratio: 14.8

TRANSMISSION:

Primary transmission ratio: 2.63 (30.79)
Secondary transmission ratio: 3.71 (14.52)
Chain dimension: 5/8" x 1/4"
Number of cogs, gearbox (MS:AS)
1st 14:33 4th 23:24
2nd 17:29 5th 25:22
3rd 20:26 6th 27:20
Total gear ratios (crankshaft: rear wheel):
1st 23.1 4th 10.2
2nd 16.7 5th 8.6
3rd 12.7 6th 7.2
Oil capacity in gearbox: 1.4 lit (0.37 US gal)
Oil recommendation: Engine oil SAE 20

CARBURETOR:

Venturi 38 mm
Main Jet 460
Needle Jet R6
Idling Jet 35
Needle Position 3 from top
Needle 6 DH 20
Airscrew Opening 1.5 turn from bottom position
Throttle 2.5

ELECTRICAL SUPPLY: SEM - MIC
Type Ø 116
Ignition Advance 17.2°
Ignition Advance on piston before TDC 2.0 mm
Light Coil 70 + 70 W yellow cable
Spark plug Autolite 4054

FRONT FORKS:

Husqvarna
Travel 300 mm (11.8 in)
Trail 120 mm (4.7 in)
Fork angle (caster): 27°
Air pressure per leg max. 50 kPa (8 psi)
Oil capacity per leg 420-460 cc
Oil recommendation SAE 5 - SAE 10

REAR SUSPENSION: Husqvarna Single Shock
System with Ohlins piggy
back shockabsorber
Travel 340 mm (13.4 in)

WHEELS AND BRAKES:

Front wheels Metzeler 3.00 x 21"
Rear wheels Metzeler 4.50 x 18"
Brakes Disc 230 mm (Front)
Drum 160 mm (Rear)

FUEL SYSTEM:

Fuel Gas min. 94 oct
Lubrication Oil-gas mixture 4%
Tank capacity 12 lit (3.2 US gal)
Oil recommendation High quality 2-stroke
oil of well-known
brand

DIMENSIONS:

Length 2204 mm (86.8 in)
Height 1235 mm (48.6 in)
Seat height 965 mm (38.0 in)
Wheelbase 1512 mm (59.5 in)
Ground clearance 340 mm (13.4 in)
Weight 99 kg (218 lbs.)



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1987 HUSQVARNA 250 MOTOCROSS TECHNICAL SPECIFICATIONS

ENGINE:

Single cylinder two-stroke, liquid cooled
Displacement: 246cc
Bore Standard: 66.50 mm
1st Over 66.75 mm
2nd Over 67.00 mm
Stroke: 70.8 mm
Compression ratio: 14.7

NUMBER OF COGS, GEARBOX(MS:AS)

1st 16:31	4th 23:24
2nd 18:28	5th 25:22
3rd 21:26	

TRANSMISSION:

Primary transmission ratio: 2.63 (30:79)
Secondary transmission ratio: 4.0 (13:52)
Chain dimension: 5/8"x1/4"

TOTAL GEAR RATIOS (crankshaft: rear wheel)

1st 20.41	4th 10.99
2nd 16.38	5th 9.27
3rd 13.04	

FUEL SYSTEM:

Fuel: Gas min 94 oct
Lubrication: Oil-gas mixture 4%
Tank capacity: 10 lit (2.6 US gal)
Oil recommendation: High quality 2-stroke oil of well-known brand

Oil capacity in gearbox: 1.4 lit(0.37 US gal)
Oil recommendation: Engine oil SAE 20

CARBURETOR:

Mikuni
Venturi: 38 mm
Main jet: 460
Needle jet: R6
Idling jet: 35
Needle position: 3 from top
Needle: 6DH20
Airscrew opening: 1.5 turn from bottom position

ELECTRICAL SYSTEM:

SEM-Mic
Type 116
Ignition advance 17.2 degrees
Ignition advance on piston before TDC 2.0 mm
Light coil 70+70 W yellow cable
Spark plug Autolite 4054

FRONT FORK:

WHITE POWER 4054
Travel: 300mm (11.8 in)
Trail: 120mm (4.7 in)
Fork angle(caster): 27 degrees
Air pressure per leg: 0
Oil pressure per leg: 420-460cc
Oil recommendation: SAE 5 - SAE 10

DIMENSIONS:

Length: 2204mm(86.6 in)
Height: 1235mm(48.6 in)
Seat height: 965mm(38.0 in)
Wheelbase: 1512mm(59.5 in)
Ground clearance: 385mm(15.2 in)
Weight: 99kg (218 lbs)

REAR SUSPENSION:

Husqvarna single shock system with Ohlins piggy back shock-absorber

Travel: 340mm (13.4 in)

WHEELS AND BRAKES:

Front wheels Metzeler 3.00x21"
Rear wheels Metzeler 4.50x18"
Brakes Disc 230(front) Drum 160(rear)

1987 HUSQVARNA 250 MOTOCROSS TECHNICAL SPECIFICATIONS

ENGINE:

Single cylinder two-stroke, liquid cooled
Displacement: 246cc
Bore Standard: 66.50 mm
1st Over 66.75 mm
2nd Over 67.00 mm
Stroke: 70.8 mm
Compression ratio: 14.7

TRANSMISSION:

Primary transmission ratio: 2.63 (30:79)
Secondary transmission ratio: 4.0 (13:52)
Chain dimension: 5/8"x1/4"

FUEL SYSTEM:

Fuel: Gas min 94 oct
Lubrication: Oil-gas mixture 4%
Tank capacity: 10 lit (2.6 US gal)
Oil recommendation: High quality 2-stroke oil
of well-known brand

CARBURETOR:

Mikuni
Venturi: 38 mm
Main jet: 460
Needle jet: R6
Idling jet: 35
Needle position: 3 from top
Needle: 6DH20
Airscrew opening: 1.5 turn from bottom position

ELECTRICAL SYSTEM:

SEM-Mic
Type 116
Ignition advance 17.2 degrees
Ignition advance on piston
before TDC 2.0 mm
Light coil 70+70 W yellow cable
Spark plug Autolite 4054

FRONT FORK:

WHITE POWER 4054
Travel: 300mm (11.8 in)
Trail: 120mm (4.7 in)
Fork angle(caster): 27 degrees
Air pressure per leg: 0
Oil pressure per leg: 420-460cc
Oil recommendation: SAE 5 - SAE 10

REAR SUSPENSION:

Husqvarna single shock
system with Ohlins
piggy back shock-
absorber
Travel: 340mm (13.4 in)

WHEELS AND BRAKES:

Front wheels Metzeler 3.00x21"
Rear wheels Metzeler 4.50x18"
Brakes Disc 230(front) Drum 160(rear)

NUMBER OF COGS, GEARBOX(MS:AS)

1st	16:31	4th	23:24
2nd	18:28	5th	25:22
3rd	21:26		

TOTAL GEAR RATIOS (crankshaft: rear wheel)

1st	20.41	4th	10.99
2nd	16.38	5th	9.27
3rd	13.04		

Oil capacity in gearbox: 1.4 lit(0.37 US gal)
Oil recommendation: Engine oil SAE 20

DIMENSIONS:

Length:	2204mm(86.6 in)
Height:	1235mm(48.6 in)
Seat height:	965mm(38.0 in)
Wheelbase:	1512mm(59.5 in)
Ground clearance:	385mm(15.2 in)
Weight:	99kg (218 lbs)



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1987 HUSQVARNA 430 ENDURO TECHNICAL SPECIFICATIONS

ENGINE:

Single cylinder two-stroke liquid cooled
Displacement: 430cc
Bore Standard: 86.00 mm
1st Over 86.50 mm
2nd Over 87.00 mm
Stroke: 74.00 mm
Compression Ratio: 12.6

FUEL SYSTEM:

Fuel Gas min. 94 oct
Lubrication Oil-gas mixture 4%
Tank capacity 12 lit (3.2 US gal)
Oil recommendation: High quality 2-stroke oil of well-known brand

TRANSMISSION:

Primary transmission ratio: 2.3 (33:76)
Secondary transmission ratio: 3.71 (14:52)
Chain dimension: 5/8"x1/4"
Number of cogs, gearbox (MS:AS)
1st 13:34 4th 23:24
2nd 16:29 5th 25:22
3rd 19:26 6th 27:20

Total gear ratios (crankshaft: rear wheel):

1st 22.4 4th 8.9
2nd 15.5 5th 7.5
3rd 11.7 6th 6.3

Oil capacity in gearbox: 1.4 lit (0.37 US gal)
Oil recommendation: Engine oil SAE 20

CARBURETOR:

Venturi 38mm
Main Jet 400
Needle Jet RO
Needle 6DH20
Air screw opening 1.5 turns from bottom position
Throttle 2.5

ELECTRICAL EQUIPMENT:

Head light: 12V 45W
Tail light: 12V 5W

ELECTRICAL SYSTEM:

Type Motoplatt
Ignition Advance CDI Ø 116
Ignition advance on piston 18 degrees
before TDC 2.30 mm
Ignition advance on flywheel
before TDC 18.2 mm
AC generator 45 W yellow cable
Spark plug: Autolite 4055

FRONT FORKS:

Husqvarna
Travel 270mm (10.6 in)
Trail 120mm (4.7 in)
Fork angle (caster) 27 degrees
Air pressure per leg: max. 50 kPa (8psi)
Oil capacity per leg: 420-460cc
Oil recommendation: Fork oil SAE 5-
SAE 10

DIMENSIONS:

Length 2200mm (86.6 in)
Height 1280mm (50.4 in)
Seat height 945mm (37.2 in)
Wheelbase 1500mm (59.0 in)
Ground clearance 340mm (13.4 in)
Weight 107kg (235 lbs)

REAR SUSPENSION: Husqvarna Single shock system with Ohlins piggy back shockabsorber

Travel: 310mm (12.2 in)

WHEELS AND BRAKES:

Front wheels Metzeler 3.00x21"
Rear wheels Metzeler 4.50x18"
Brakes Disc 230mm (front) Drum 160mm (rear)



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1987 HUSQVARNA 430 MOTO-CROSS TECHNICAL SPECIFICATIONS

ENGINE

SINGLE CYLINDER TWO-STROKE, LIQUID COOLED
DISPLACEMENT: 430 cc
BORE STANDARD: 86.00 mm
1st OVER: 86.50 mm
2nd OVER: 87.00 mm
COMPRESSION RATIO: 12.6:1

FRONT WHEELS METZELER 3.00 x 21"
REAR WHEELS METZELER 4.50 x 18"

BRAKES: DISC 230 mm (FRONT)
DRUM 160 mm (REAR)

TRANSMISSION

5-SPEED
PRIMARY TRANSMISSION RATIO: 2.3 to 1 (33:76)
NUMBER OF COGS, GEAR BOX (MS:AS)
1st 16:29 4th 25:22
2nd 19:26 5th 27:20
3rd 22:26

DIMENSIONS

LENGTH: 2204 mm (86.6 in)
HEIGHT: 1235 mm (48.6 in)
SEAT HEIGHT: 965 mm (38.0 in)
WHEELBASE: 1512 mm (59.5 in)
GROUND CLEARANCE: 385 mm (15.2 in)
WEIGHT: 222 lbs.

SECONDARY TRANSMISSION RATIO

3.71 to 1 (14:52)

TOTAL TRANSMISSION RATIO (CRANKSHAFT:REAR WHEEL)

1st 15.50:1 4th 7.53:1
2nd 11.71:1 5th 6.34:1
3rd 9.33:1

CLUTCH: MULTI DISC IN OIL BATH
CHAIN: 5/8" x 1/4"
OIL CAPACITY IN GEARBOX: 1.4 lt (0.36 US GAL)
OIL RECOMMENDATION: BEL RAY 80WT GEAR OIL
FUEL SYSTEM: OIL RECOMMENDATION BEL-RAY MC1+
FUEL: GAS MIN 940 OCTANE
LUBRICATION: OIL GAS MIXTURE 4%
TANK CAPACITY: 10 LITRE (2.6 US GAL)

CARBURETOR MIKUNI

VENTURI: 38 mm
MAIN JET: 450
NEEDLE JET: R4
IDLING JET: 40
NEEDLE POSITION: 3 FROM TOP
AIR JET: 2.0
NEEDLE: GDH20
AIRSCREW OPENING: 1 TURN FROM BOTTOM POSITION
THROTTLE: 2.5

ELECTRICAL SYSTEM MOTOPLAT

TYPE: CDI INTERNAL ROTOR
IGNITION ADVANCE: 17°
IGNITION ADVANCE ON PISTON: BTDC 2.1
" " ON ROTOR : BTDC 9.9 mm
AC GENERATOR: N/A
SPARK PLUG: AUTOLITE 4054

FRONT FORK WHITE POWER 4054

FORK ANGLE: 27°

AIR PRESSURE PER LEG: 0



CAGIVA
NORTH AMERICA, INC.

700 W. 190th Street Gardena, CA 90248
PHONE NO. (213) 538-9337
TLX NO. 664327 CAGIVA GDNA

1987 HUSQVARNA 500 CROSS COUNTRY TECHNICAL SPECIFICATIONS

ENGINE:

Single cylinder two-stroke liquid cooled
Displacement: 288 cc
Bore Standard: 86.0 mm
1st Over: 86.5
2nd Over: 87.0
Strokes: 84.0 mm
Compression Ratio: 10.5

TRANSMISSION:

Primary transmission ratio: 1.79 (39.70)
Secondary transmission ratio: 3.71 (14.52)
Chain dimension: 5/8" x 1/4"
Number of cogs, gearbox (MS:AS)
1st 13:34 4th 23:24
2nd 16:29 5th 25:22
3rd 19:26 6th 27:20
Oil capacity in gearbox: 1.4 lit (0.37 US gal)
Oil recommendation: Engine oil SAE 20

CARBURETOR:

Mikuni
Venturi 38 mm
Main jet 400
Needle jet R0
Idling jet 35
Needle position 3 from top
Air jet 2.0
Needle 6 F 8
Airscrew opening 10 turns from bottom position
Throttle 3.0

ELECTRICAL SYSTEM:

Type CDI \emptyset 116
Ignition advance 18°
Ignition advance on piston before TDC 2.63 mm
Ignition advance on flywheel before TDC 18.2 mm
Spark plug Autolite 4055
Light coil 35 W yellow cable

FRONT FORK:

Husqvarna
Travel 300 mm (11.8 in)
Trail 120 mm (4.7 in)
Fork angle (caster) 27°
Air pressure per leg mx. 50 kPa (8 psi)
Oil capacity per leg 420 -460 cc
Oil recommendation SAE 5 - SAE 10

REAR SUSPENSION:

Husqvarna Single Shock System with
Ohlins Piggy Back shockabsorber
Travel: 340 mm (13.4 in)

WHEELS AND BRAKES:

Front Wheels Metzeler 3.00 x 21"
Rear Wheels Metzeler 4.50 x 18"
Brakes Disc 230 mm (front)
Drum 160 mm (rear)

FUEL SYSTEM:

Fuel Gas min. 94 oct.
Lubrication Oil gas mixture 4%
Tanks capacity 12 lit. (3.2 US gal)
Oil recommendation High quality two stroke well known brand

DIMENSIONS:

Length 2204 mm (86.8 in)
Height 12.35 mm (48.6 in)
Seat Height 965 mm (38.0 in)
Wheelbase: 1512 mm (59.5 in)
Ground Clearance 385 mm (15.2 in)
Weight 103 kg (227 lbs.)

TECHNICAL SPECIFICATIONS: CAGIVA WMX 125/86 DESERT.

Engine type: 2-stroke, single cylinder with C.T.S. exhaust port height control.

Cooling: Liquid cooled, twin radiators.

Bore & stroke: 56 x 50.6 mm

Displacement: 124.63 cc

Carburetor: Dell'Orto PHBE 36 HS, main jet: 185, pilot: 55, needle jet: AR 266, slide: 40, needle: K-31 (4th groove from top).

Ignition: Motoplat electronic with variable advance and lighting coils.

Primary drive: Gear, 3.55

Clutch: Multiplate, oil bath.

Gearbox ratios: 1st: 2.154:1
2nd: 1.785:1
3rd: 1.467:1
4th: 1.250:1
5th: 1.105:1
6th: 0.952:1

Secondary drive: Chain, ratio 12/52

Starter system: Kickstart.

Frame: Single downtube, cradle type, 4130 round tube.

Front suspension: Hydraulic telescopic, 42mm Marzocchi. Right leg contains spring and rebound dampening rod, Left leg has no spring but contains compression dampening rod.

Rear suspension: "Soft-Damp" type with swingarm and Ohlin "Piggy-back" single shock absorber.

Suspension travel: Front: 11.8"
Rear: 12.8"

Front wheel: 3.00 x 21"

Rear wheel: 4.25 x 18"

Tires: Pirelli "Hard Cross"

Front brake: Brembo floating disc, 230 mm (9.0") with disc cover

Rear brake: Drum, 130 mm (5.12")

Max length: 2,145 mm (84.5")

Max width: 830 mm (33.4")

Max height: 1,215 mm (47.8")

Seat height: 925 mm (36.5")

Ground clearance: 355 mm (14.0")

Wheelbase: 1,442 mm (56.8")

Trail: 118 mm (4.64")

Rake: 28 degrees

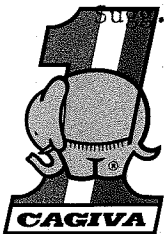
Fuel tank cap. 12 L (3.2 gals)

Dry weight: 89 Kg (196.2 lbs)

Lubrication: Pre mix 50:1

Country of origin: Italy

bu. retail price: \$ 2295,00





CAGIVA
NORTH AMERICA, INC.

700 W. 190th Street Gardena, CA 90248
PHONE NO. (213) 538-9337
TLX NO. 664327 CAGIVA GDNA

1987 CAGIVA 750 F-1 MODEL TECHNICAL SPECIFICATIONS

COOLING SYSTEMBY AIR, NATURALLY ASPIRATED
BORE & STROKE88 x 61.5 mm
COMPRESSION RATIO10:1
MAX. POWER RPM56.0 KW/9000 (CRANKSHAFT POWER)
MAX. TORQUE RPM71 NM/7000 (CRANKSHAFT TORQUE)
ENGINE MAX. RPM9000
LUBRICATION SYSTEMFORCED BY GEARS
OIL COOLING SYSTEMBY CENTRAL RADIATOR
OIL /FILTER/RADIATOR CAPACITY3.4 LITERS
PETROL TYPELEAD TYPE, 94/96 OCTANES
IGNITION SYSTEM AND DIAGRAMKOKUSAN TRADE-MARK, ELECTRONIC W/ INDUCTIVE
DISCHARGE. DIAGRAM: UP TO 1700+200 RPM
FROM 1700 TO 2600+300 RPM
UP TO 32° PROGRESSIVELY
ALTERNATOR12V - 300W
BATTERY12V - 14AH
STARTING SYSTEMELECTRIC STARTER
SPARK PLUGSCHAMPION RA6YC
CARBURETORSDELL'ORTO PHF 36
EXHAUST SYSTEM "TWO-IN-ONE" EXHAUST TYPE WITH ONE ONLY SILENCER
CYLINDERTWO ALUMINUM ALLOY CYLINDERS WITH SILICON CARBIDE
INNER COATING
CON RODSPRESS-FORGED WITH BEARINGS TYPE
HEADSTWO VALVES HEADS WITH DESMO O.H.C.
INLET VALVE DIA. 41 - EXHAUST VALVE DIA. 35
VALVE DIAMETER AND TIMING DIAGRAMINLET OPENS 39° BEFORE TDC EX OPENS 80° BEF. BDC
INLET CLOSES 80° AFTER BDC CLOSES 38° AFTER TDC
0.2 mm OPERATING CLEARANCE
CLUTCHMULTIPLE DISC. TYPE HYDRAULICALLY CONTROLLED
CLUTCH DISCS7 + ~~16~~ (13 FRICTION SURFACES) DRY TYPE
PRIMARY TRANSMISSIONSTRAIGHT TOOTHING GEARS z= 71/36
GEARBOX RATIOSFIVE SPEEDS: 1st - z = 40/16
2nd - z = 36/21
3rd - z = 32/24
4th - z = 29/27
5th - z = 28/29
FINAL TRANSMISSIONBY CHAIN REGINA TRADE-MARK 136 OR TYPE 3/8"
x 5/8" - RATIO Z = 15/40
FRAMETUBULAR TRESLE SHAPED FRAME OF CHROMIUM
MOLYBDENUM STEEL
FRONT SUSPENSIONTELE-HYDRAULIC FORK "ITALIA" TRADE-MARK 205/25/40
TYPE WITH Ø 40 mm. LEGS WITH ANTI-DIVE DEVICE
EXTERNALLY ADJUSTABLE - STROKE 140 mm
REAR SUSPENSIONSWING ARM FULCRED ON ENGINE
REAR DAMPEROIL-PNEUMATIC MONO-SHOCK MARZOCCHI TRADE-MARK
WHEEL STROKE 110 mm.
FRONT WHEEL RIMOSCAM TRADE-MARK, MADE OF LIGHT ALLOY WITH 6
SPOKES: DIMENSIONS 2.50 x 16"
REAR WHEEL RIMOSCAM TRADE-MARK, MADE OF LIGHT ALLOY WITH 6
SPOKES: DIMENSIONS 3.00 x 18:
TIRESMICHELIN TRADE-MARK, TUBELESS, A48 (FRONT)
M48 TYPE (REAR)
FRONT: 120/80 v 16"
REAR : 130/80 v 18"
BRAKES.....BREMBO TRADE-MARK FRONT: FLOATING BI-METALLIC
DOUBLE DISC, DRILLED, Ø280
REAR: FIXED CAST IRON DISC Ø 260

BRAKE CALIPERS	BREMBO TRADE-MARK, FRONT: P2FO8N TYPE DOUBLE PISTON - REAR: PO5 TYPE
MAX. LENGTH	2050 mm
HANDLEBAR WIDTH	670 mm
MAX. HEIGHT	1230 mm
WHEELBASE	1400 mm
SADDLE HEIGHT	785 mm
GROUND CLEARANCE	150 mm
STEERING ANGLE	28°
FUEL TANK	STEEL SHEET, CONTAINING 18 LTS. RESERVE 2.5 LTS.
FAIRING	IN PLASTIC MATERIALS, WHITE RED AND GREEN COLORS
ENGINE WEIGHT (dry)	60KG.
TOATL WEIGHT (dry)	165KG.



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DUCATI LAGUNA SECA 750/1987

ENGINE TYPE.....	V Twin 90° Desmo
VALVE GEARING	Desmodromic
CYLINDERS	2
BORE & STROKE	88 x 61.5 mm
TOTAL CAPACITY	C.C. 750
COMPRESSION RATIO	10/1
CARBURETORS	Dell'Orto PHM 40 ND-NS
IGNITION	Kokusan Electronic
STARTING	Electric
GENERATOR	12V - 300W
LUBRICATION	Gear Drive Pump
GEARBOX	5-Speed
PRIMARY TRANSMISSION	Gear
CLUTCH	Dry/Multidisc
FINAL TRANSMISSION	Chain
FRAME	4130 cm
SUSPENSIONS: FRONT	Forcelle Italia
REAR	Marzocchi Monoshock
SEAT HIGHT	30 inch
WHEELBASE	56 inch
WIDTH	27 inch
TIRES	Pirelli Radial
FRONT	130-80-16
REAR	160-80-16
WEIGHT	353 lbs.

BRAKE CALIPERS BREMBO TRADE-MARK, FRONT: P2F08N TYPE DOUBLE
PISTON - REAR: P05 TYPE

MAX. LENGTH 2050 mm
HANDLEBAR WIDTH 670 mm
MAX. HEIGHT 1230 mm
WHEELBASE 1400 mm
SADDLE HEIGHT 785 mm
GROUND CLEARANCE 150 mm
STEERING ANGLE 28°
FUEL TANK STEEL SHEET, CONTAINING 18 LTS. RESERVE
2.5 LTS.
FAIRING IN PLASTIC MATERIALS, WHITE RED AND GREEN
COLORS
ENGINE WEIGHT (dry) 60KG.
TOATL WEIGHT (dry) 165KG.



CAGIVA
NORTH AMERICA, INC.

Cagiva North America
237 West Parkway
Pompton Plains, NJ
07444-1028

1987 HUSQVARNA 430 CROSS-COUNTRY TECHNICAL SPECIFICATIONS

ENGINE:

Single cylinder two-stroke, liquid cooled
Displacement: 246 cc
Bore Standard: 86.00 mm
1st Over: 86.50 mm
2nd Over: 87.00 mm
Strokes: 70.8 mm
Compression Ratio: 12.6

TRANSMISSION:

Primary transmission ratio: 2.3 (33.76)
Secondary transmission ratio: 3.71 (14.52)
Chain dimension: 5/8: x 1/4"
Number of cogs, gearbox (MS:AS)
1st 23.1 4th 10.2
2nd 16.7 5th 8.6
3rd 12.7 6th 7.2
Total gear ratios (crankshaft: rear wheel)
1st 22.4 4th 8.9
2nd 15.5 5th 7.5
3rd 11.7 6th 6.3

Oil capacity in gearbox: 1.4 lit (0.37 US gal)
Oil recommendation: Engine oil SAE 20

CARBURETOR:

Venturi 38 mm
Main jet 400
Needle jet R0
Idling jet 45
Needle position 3 from top
Air jet 2.0
Needle 6 DH 20
Airscrew Opening 1.5 turn from bottom position
Throttle 2.5

ELECTRICAL SYSTEM:

Motoplat
Type CDI \emptyset 116
Ignition Advance 18°
Ignition advance on piston before TDC 2.30 mm
Ignition advance on flywheel before TDC 18.2 mm
Spark plug Autolite 4055
Light Coil 35 W yellow cable

FRONT FORKS:

Husqvarna
Travel 300 mm (11.8 in)
Trail 120 mm (4.7 in)
Fork angle (caster) 27°
Air pressure per leg max. 50 kPa (8 psi)
Oil capacity per leg 420-460 cc
Oil recommendation SAE 5 - SAE 10

REAR SUSPENSION: Husqvarna Single Shock System with Ohlins Piggy Back shockabsorber
Travel: 340 mm (13.4 in)

FUEL SYSTEM:

Fuel Gas min. 94 oct.
Lubrication Oil-gas mixture 4%
Tank capacity 12 lit. (3.2 US gal)
Oil recommendation High quality two-stroke oil of well-known brand

WHEELS AND BRAKES:

Front wheels Metzeler 3.00 x 21"
Rear wheels Metzeler 4.50 x 18"
Brakes Drum 160 mm (rear)
Disc 230 mm (front)

DIMENSIONS:

Length 2204 mm (86.8 in)
Height 1235 mm (48.6 in)
Seat Height 965 mm (38.0 in)
Wheelbase 1512 mm (59.5 in)
Ground clearance 385 mm (15.2 in)
Weight 101 kg (222 lbs.)



CAGIVA
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Cagiva North America
237 West Parkway
Pompton Plains, NJ
07444-1028

1987 HUSQVARNA 430 AUTO TECHNICAL SPECIFICATIONS

ENGINE:		FUEL SYSTEM:	
Single-cylinder two stroke, liquid cooled		Fuel	Gas min. 94 oct.
Displacement:	430cc	Lubrication	Oil-gas mixture 4%
Bore Standard:	86.00 mm	Tank capacity	Eur 10 lit(2.6 US gal)
1st Over	86.50 mm		USA 12 lit(3.2 US gal)
2nd Over	87.00 mm	Oil recommendations:	High quality 2-stroke
Stroke:	74.00 mm		oil of well known
Compression Ratio:	12.6:1		brand
TRANSMISSION:			
Automatic gearbox controlled by 3 centrifugal clutches			
Secondary Transmission Ratio	12:54		
Chain Dimension	5/8"x4"		
Type of Gearbox	Esso Univis J-26		
Capacity of Gearbox	0.18 USgal(0.7 lit)		
CARBURETOR:	Mikuni		
Venturi	38mm		
Main Jet	430		
Needle Jet	RO		
Idling Jet	40		
Needle Position	3 from Top		
Air Jet	2.0		
Needle	6DH20		
Airscrew Opening	2 turns from bottomed position		
Throttle	2.5		
ELECTRICAL SYSTEM:	Motoplat		
Type:	CDI		
Ignition Advance	18 degrees		
Ignition Advance on piston before TDC	2.3		
AC generator 45 W			
Spark plug	Auotlite 4054		
ELECTRICAL EQUIPMENT:			
Tail light	12V 45W		
Head light	12V 5W		
Front fork:	Husqvarna		
Travel	10.6 in. (270mm)		
Trail	4.7 in. (120mm)		
Fork angle (caster)	27 degrees		
Air pressure per leg:	max. 50 kPa (8psi)		
Oil capacity per leg:	420-460cc		
Oil recommendation	Bel-Ray 10 wt		
REAR SUSPENSION:	Husqvarna Single Shock system with Ohlins piggy back reservoir.		
Travel	12.2 in. (310mm)		
WHEELS AND BRAKES:	Front: 3.00x21 Metzeler Rear: 4.50x18 Metzeler		
Brakes:	Disc 230mm(front) Drum 160mm (rear)		
Dimensions:			
Length	2200mm (86.6 in)		
Height	1280mm (50.4 in)		
Seat height	945mm (37.2 in)		
Wheelbase	1500mm (59.0 in)		
Ground clearance	340mm (13.4 in)		
Weight	107kg (234 lbs)		

TECHNICAL SPECIFICATIONS: CAGIVA WMX 500/86 DESERT.

Engine type: 2-stroke, single cylinder.
Cooling: liquid cooled, twin radiators.
Bore & stroke: 87 x 82 mm.
Displacement: 487.5 cc
Carburetor: Dell'Orto 38 mm.
Ignition: Motoplatt electronic with variable advance and lighting coils.
Primary drive: Gear.
Clutch: Multiplate, oil bath
Gearbox: 5 speed, constant mesh.
Secondary drive: Chain.
Starter system: Kickstarter
Frame: Single downtube, cradle type, 4130 round tube with removable sidestand.
Front suspension: Hydraulic, telescopic type, 42 mm Marzocchi
Rear suspension: "Soft-Damp" type with swingarm and Ohlin single shock.
Suspension travel: Front: 11.7"
Rear : 12.6"
Front wheel: 3.00 x 21"
Rear wheel: 5.00 x 18"
Tires: Pirelli "Hard Cross"
Front brake: Brembo disc, drilled, 230 mm (9.0") with disc cover.
Rear brake: Drum, 130 mm (5.12")
Max length: 2200 mm (86.9")
Max width: 850 mm (33.4")
Max height: 1214 mm (47.8")
Seat height: 940 mm (37.0")
Ground clearance: 395 mm (15.5")
Wheelbase: 1495 mm (58.8")
Trail: 118 mm (4.64")
Rake: 28 degrees
Fuel tank cap: 17 L (4.5 gals)
Dry weight: 105 Kg (230 lbs)
Lubrication: Pre-mix 50:1
Country of origin: Italy
Sugg. retail price: \$ 2643,00



1987 CAGIVA ELEFANT 650 TECHNICAL SPECIFICATIONS

ENGINE

TYPE4-STROKE, 90° V-TWIN DESMO SOHC
COOLINGAIR COOLED
BORE & STROKE82 mm x 61.5 mm
DISPLACEMENT649.6 cc
HORSEPOWER50.5 CV (37.1 KW) @ 7500 RPM
TORQUE5.16 MKG (50.7 NM) @ 5000 RPM
LUBRICATIONGEAR PRESSURE PUMP
CARBURETORSDELL'ORTO PHF 36 mm
IGNITIONELECTRONIC
TRANSMISSION1st: 14/43
.....2nd: 20/37
.....3rd: 24/32
.....4th: 27/29
.....5th: 29/27

DRIVETRAIN

CLUTCHMULTIPLATE DRY CLUTCH, HYDRAULICALLY OPERATED
PRIMARY DRIVEHELICAL GEARS, TRANS RATIO: 36/71
SECONDARY DRIVEO-RING CHAIN, RATIO: 14/46
STARTER SYSTEMELECTRONIC AND KICKSTART

SUSPENSION/WHEEL TRAVEL

FRONTMARZOCCHI 42 mmI
REAR "SOFT-DAMP" TYPE, BOX SECTION ALUMINUM SWINGARM,
OHLINS SINGLE SHOCK
SUSPENSION TRAVELFRONT: 9.0"
REAR : 8.0"

TIRES

FRONTON-OFF ROAD METZLER 90/90 x 21"
REARON-OFF ROAD METZLER 130/90 x 17"

BRAKES

FRONTBREMBO DRILLED FLOATING DISC, 260 mm (10.2")
REARBREMBO DRILLED DISC. 240 mm (9.44") w/ DOUBLE
PISTON CALIPER

DIMENSIONS AND CAPACITIES

FRAMEDOUBLE DOWN TUBE CRADLE TYPE, 4130 BOX SECTION TUB
FRONT WHEEL90/90 x 21"
REAR WHEEL5.10 x 17"
MAX LENGTH2,250 mm (88.6")
MAX HEIGHT1250 mm (49.2")
MAX WIDTH880 mm (24.6")
GROUND CLEARANCE250 mm (10.0")
WHEELBASE1530 mm (60.2")
SEAT HEIGHT900 mm (35.0")
FUEL TANK CAP.17.5 L (4.6 GALS)
RESERVE5 L (1.3 GALS)
DRY WEIGHT175 KG (386 LBS)
SPARK ARRESTORSUPERTRAPP W/ STAINLESS STEEL CANISTER SHIELD



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PHONE NO. (213) 538-9337
TLX NO. 664327 CAGIVA GDNA

1987

TECHNICAL DATA

CAGIVA/DUCATI 650cc INDIANA

ENGINE TYPE	90 degree V-Twin
COOLING SYSTEM	Air Cooled
BORE & STROKE	82mm X 61.5mm
COMPRESSION RATIO	10 - 1
MAX HORSEPOWER	53 CV @ 7000 rpm
MAX TORQUE	61 N.m @ 5000 rpm
MAX RPM	8500 rpm
LUBRICATION	Gear Driven Oil Pump
OIL CAPACITY	3.3 Litres
IGNITION	Kokusan Electronic
ALTERNATOR	12V - 300 W
BATTERY	12v - 14 Ah
STARTING SYSTEM	Electric
SPARK PLUGS	Champion L82YC
CARBURATION	Bing (2)
EXHAUST	Dual mufflers, one per side, with compensator
CYLINDERS	Aluminum cylinders with Gilnisil coated liners
CONNECTING RODS	Forged steel with bronze small end bushings
CYLINDER HEADS	2 Valve, SOHC, DESMO
VALVE SIZE	Intake 37.5mm, Exhaust 33.5mm
CLUTCH	Multi-disc, hydraulic, 13 discs

PRIMARY DRIVE	Helical gears, trans ratio: 71/36
TRANS RATIOS	1st : 43/14 2nd : 37/20 3rd : 32/24 4th : 29/27 5th : 27/29
FINAL DRIVE	3/8 X 5/8 Regina chain. Ratio: 15/46
FRAME	Double cradle square tubing
FRONT SUSPENSION	Marzocchi model 185/40 telescopic, 40mm tubes 160mm travel
REAR SUSPENSION	Swingarm fulcred on engine, twin Marzocchi shocks
FRONT WHEEL	6 spoke Oscan, 2.50 X 18"
REAR WHEEL	6 spoke Oscan, 3.50 X 15"
TIRES	PIRELLI MT 28 tubeless Front: 110/90 V 18" Rear : 140/90 V 15"
BRAKES	Front: BREMBO disc, 260mm Rear : BREMBO disc, 280mm
CALIPERS	Front: BREMBO PA-32C, dual piston Rear : BREMBO P2105N
MAX LENGTH	2024mm
MAX WIDTH	930mm
MAX HEIGHT	1400mm
WHEELBASE	1530mm
SEAT HEIGHT	760mm
GROUND CLEARANCE	160mm
STEERING ANGLE	40 degrees
CASTER	32 degrees, 45 min.
FUEL CAPACITY	13 liters with 2 liter reserve
ENGINE WEIGHT	60 Kg.
TOTAL WEIGHT	180 Kg.

1987

TECHNICAL DATA

CAGIVA/DUCATI 650cc INDIANA

ENGINE TYPE	90 degree V-Twin
COOLING SYSTEM	Air Cooled
BORE & STROKE	82mm X 61.5mm
COMPRESSION RATIO	10 - 1
MAX HORSEPOWER	53 CV @ 7000 rpm
MAX TORQUE	61 N.m @ 5000 rpm
MAX RPM	8500 rpm
LUBRICATION	Gear Driven Oil Pump
OIL CAPACITY	3.3 Litres
IGNITION	Kokusan Electronic
ALTERNATOR	12V - 300 W
BATTERY	12v - 14 Ah
STARTING SYSTEM	Electric
SPARK PLUGS	Champion L82YC
CARBURATION	Bing (2)
EXHAUST	Dual mufflers, one per side, with compensator
CYLINDERS	Aluminum cylinders with Gilnisil coated liners
CONNECTING RODS	Forged steel with bronze small end bushings
CYLINDER HEADS	2 Valve, SOHC, DESMO
VALVE SIZE	Intake 37.5mm, Exhaust 33.5mm
CLUTCH	Multi-disc, hydraulic, 13 discs

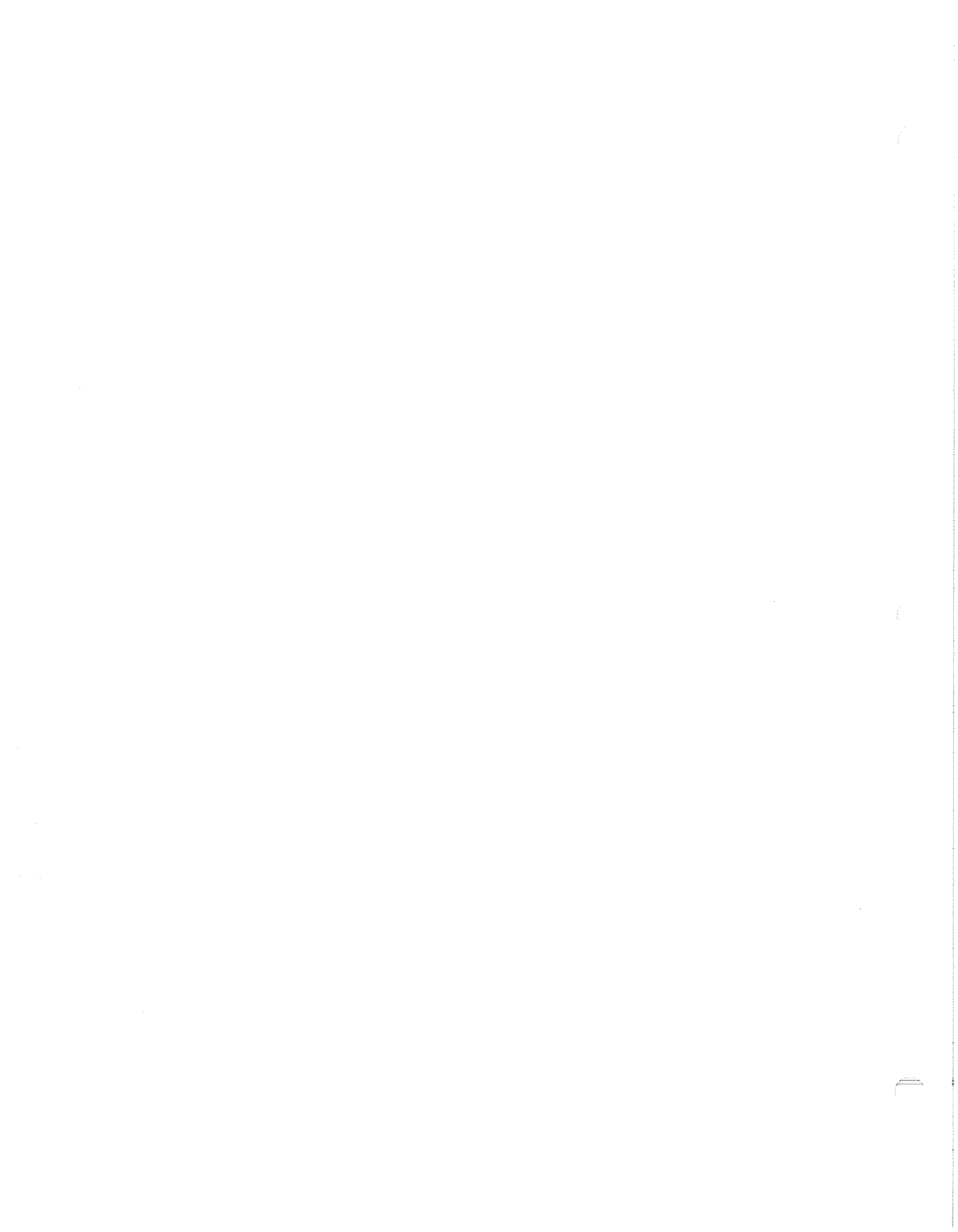
PRIMARY DRIVE	Helical gears, trans ratio: 71/36
TRANS RATIOS	1st : 43/14 2nd : 37/20 3rd : 32/24 4th : 29/27 5th : 27/29
FINAL DRIVE	3/8 X 5/8 Regina chain. Ratio: 15/46
FRAME	Double cradle square tubing
FRONT SUSPENSION	Marzocchi model 185/40 telescopic, 40mm tubes 160mm travel
REAR SUSPENSION	Swingarm fulcred on engine, twin Marzocchi shocks
FRONT WHEEL	6 spoke Oscan, 2.50 X 18"
REAR WHEEL	6 spoke Oscan, 3.50 X 15"
TIRES	PIRELLI MT 28 tubeless Front: 110/90 V 18" Rear : 140/90 V 15"
BRAKES	Front: BREMBO disc, 260mm Rear : BREMBO disc, 280mm
CALIPERS	Front: BREMBO PA-32C, dual piston Rear : BREMBO P2105N
MAX LENGTH	2024mm
MAX WIDTH	930mm
MAX HEIGTH	1400mm
WHEELBASE	1530mm
SEAT HEIGHT	760mm
GROUND CLEARANCE	160mm
STEERING ANGLE	40 degrees
CASTER	32 degrees, 45 min.
FUEL CAPICITY	13 liters with 2 liter reserve
ENGINE WEIGHT	60 Kg.
TOTAL WEIGHT	180 Kg.

TECHNICAL DATA

CAGIVA/DUCATI 750cc PASO

ENGINE TYPE	90 degree V-Twin
COOLING SYSTEM	Air cooled. Cooling intakes located in areas of low pressure in fairing
BORE AND STROKE	88 X 61.5mm
COMPRESSION RATIO	10-1
MAX HORSEPOWER	73.5 Kw @ 7900 rpm
MAX TORQUE	75 N.m @ 63500
MAX R.P.M.	10,000 rpm
LUBRICATION	Gear pressure pump
OIL CAPACITY	3.5 Litres incl. filter and radiators
IGNITION	Kokusan electronic
ALTERNATOR	12V - 300W
BATTERY	12V - 14Ah
STARTING SYSTEM	Electric
SPARK PLUGS	Champion RA6YC
CARBURETOR	WEBER 44 DCNF 107
EXHAUST	Dual silencers with compensator
CYLINDERS	Aluminum cylinders (2) with Gilnisil coated liners
CONNECTING RODS	Forged steel with bronze bushings
VALVE SIZE	Intake: 41mm Exhaust: 35mm
CLUTCH	Multi-disc, hydraulically operated
CLUTCH PLATES	13 disc, running dry
PRIMARY DRIVE	Straight cut gears, ratio: 71/36

TRANSMISSION	5 - Speed 1st : 40/16 2nd : 36/21 3rd : 32/24 4th : 29/27 5th : 28/29
FINAL DRIVE	Regina type DA-OR 136, 5/8 x 3/8" chain, 15/38 ratio
FRAME	Square tube perimeter frame, 25Cr Mo4 chrom-moly
FRONT SUSPENSION	Marzocchi MiR, 42mm telescopic, externally adjustable, with anti-dive. 140mm travel
REAR SUSPENSION	Single shock, "Soft-Damp"
REAR SHOCK	Ohlins type CA 508 with 78mm travel. 136mm wheel travel
FRONT WHEEL	6 spoke OSCAM alloy 3.75 X 16"
REAR WHEEL	6 spoke OSCAM alloy 5.00 X 16"
TIRES	PIRELLI radials, tubeless Front: 130/60 X 16" Rear : 160/60 X 16"
BRAKES	BREMBO drilled, Front: 2 @ 280mm Rear : 1 @ 270mm
CALIPERS	BREMOB, Front: P2F08N dual piston Rear : P2108N dual piston
MAX LENGTH	2032mm
HANDLEBAR WIDTH	655mm
MAX HEIGHT	1150mm
WHEELBASE	1453mm
SEAT HEIGHT	780mm
GROUND CLEARANCE	165mm
STEERING ANGLE	25 degrees
FUEL TANK	22 Litre cap. with 4 liter reserve. steel const.
FAIRING/BODY	Plastic, red or white color
ENGINE WEIGHT	60 Kg.
TOTAL WEIGHT	185 Kg.



SERVICE BULLETIN

TECHNICAL DATA 1988 WRK125 enduro



Engine: Single cylinder two-stroke, liquid cooled
W/Exhaust power valve

Displacement: 124.63 cc
Bore/Stroke: 56 x 50.6mm
Compression ratio: 15.5:1

Transmission: Six speed

Primary transmission ratio: 3.555 (18:64)

Number of cogs, gear box (MS:AS)

1st	11:25	4th	20:25
2nd	14:25	5th	18:19
3rd	15:22	6th	21:19

Secondary transmission ratio: 13:52

Total gear ratios (crankshaft: rear wheel)

1st	32.32	4th	17.78
2nd	25.40	5th	15.01
3rd	20.86	6th	12.87

Clutch: Multi disc, wet

Chain: 5/8" x 6.5

Valve clearance (cold):

De-Compressor cable:

Oil capacity in gearbox: 0.7 litre (.0.8 qt.)

Oil recommendation: Hypoy B 80W-90 EP (GL5)
or Castrol GTX 10W-40

Fuel system:

Fuel: Gasoline min. 94 oct.

Tank capacity: 8 litre (2.1 gal.)

Lubrication: Oil-gas mixture, 32:1

Carburetor Dell'Orto

PHSB 36PS

Venturi \emptyset : 36mm

Main jet: 195

Needle jet: BH 264

Idling jet: 55

Starting jet: 60

Throttle: 35

Needle position: 3rd

Mixture control screw: 1½ turns

Float: g 4.5

TECHNICAL SPECIFICATIONS

(over)

4-038

1988 WRK 125 enduro TECHNICAL DATA Cont'd.....

Electrical System:

Type: MOTOPLAT CDI
 Ignition advance:
 Ignition adv. on
 piston before TDC: 1.85mm (0.073 in.)

Electrical Equipment:

Headlight 6V 35W
 Taillight 6V 5W

Light coil: 35W
 Spark plug: Champion N 82S
 NGK B10EV
 ND W31ES-GU

Front fork: Marzocchi M1R

Travel: 300mm (11.8 in)

Fork angle (caster):
 Air pressure per leg: -0-
 Oil level per leg: 80-95mm (3.2-3.74 in)Left, 155-165mm (6.1-6.5 in)Right
 Oil recommendation: SAE 10 Cold temperatures, smooth riding
 SAE 15 Mild temperatures, average riding
 SAE 20 Hot temperatures, hard riding

Rear suspension: Cagiva Soft Damp with Ohlins Piggyback

Single Shock

Travel: 310mm (12.8 in)

Wheels and Brakes: Front: Rear:

Tires: 3.00 x 21 4.25 x 18

Brake drum \emptyset : Disc 230mm (9 in) Drum 130mm (5 in)

Dimensions:

Length: 2145mm (84.4 in)
 Height: 1215mm (47.8 in)
 Wheelbase 1440mm (56.7 in)
 Seat height: 925mm (36.4 in)
 Ground clearance: 355mm (13.9 in)
 Weight: 91kg (200.6 lb)

Torque specifications:

Flywheel nut: 51 Nm (37.5 ft.lbs.)
 Cylinder head nuts: 13 Nm (10.1 ft.lbs.)
 Cylinder nuts: 19 Nm (14.4 ft.lbs.)
 Engine mounting nuts: 31 Nm (23.1 ft.lbs.)
 Crankcase screws: 9 Nm (6.5 ft.lbs.)
 Swingarm mounting nuts: 50 Nm (38.3 ft.lbs.)
 Screws, reed valve
 housing/cylinder: 12 Nm (8 ft.lbs.)
 Spark plug: 40 Nm (29 ft. lbs.)

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

SERVICE BULLETIN

HUSQVARNA 1988 TECHNICAL DATA

250 WR & XC



ENGINE

Single cylinder two-stroke, liquid cooled

DISPLACEMENT: 246cc
BORE STD: 66.50mm
1ST OVER: 66.75mm
2ND OVER: 67.00mm
3RD OVER:
STROKE: 70.8mm
COMPRESSION RATIO: 14.8:1

TRANSMISSION

PRIMARY TRANSMISSION RATIO: 2.63 (30:79)
SECONDARY TRANSMISSION: 4.0 (13:52)
CHAIN DIMENSION: 5/8" x 1/4"
NUMBER OF COGS, GEARBOX
(MS:AS):

<u>1ST</u>	14:33	<u>4TH</u>	23:24
<u>2ND</u>	17:29	<u>5TH</u>	25:22
<u>3RD</u>	20:26	<u>6TH</u>	27:20

TOTAL RATIOS (crankshaft
rear wheel):

<u>1ST</u>	24.8	<u>4TH</u>	11.0
<u>2ND</u>	18.0	<u>5TH</u>	9.3
<u>3RD</u>	13.7	<u>6TH</u>	7.8

OIL CAPACITY IN GEARBOX: 1.4 lit (0.37 US gal)
OIL RECOMMENDATION: Engine oil SAE 20

FUEL SYSTEM

FUEL: Gas min. 94 oct.
LUBRICATION: oil-gas-mixture 4%
TANK CAPACITY: 12 lit (3.2 US gal)
OIL RECOMMENDATION: High quality two-stroke oil of well-know brand

CARBURETOR

Mikuni

VENURI Ø: 38mm
MAIN JET: 460
NEEDLE JET: R-6
IDLING JET: 35
NEEDLE POSITION: 3 from top
NEEDLE: 6 DH 20
AIRSCREW OPENING: 1.5 turn from bottom position
THROTTLE: 2.5
AIR JET: 2.0

TECHNICAL SPECIFICATIONS

(over)

4 - 039

ELECTRICAL SYSTEM

TYPE: (WR) Motoplat retard \emptyset 116mm
(XC) SEM processor \emptyset 116mm (early production)
(XC) Motoplat retard \emptyset 116mm (late production)
IGNITION ADVANCE: (Motoplat) 9.5° (SEM) 17.2°
BEFORE TDC: (Motoplat) 0.61mm (SEM) 2.0mm
LIGHT COIL: (Motoplat) 35W (SEM) 70+70W
SPARK PLUG: Autolite 4054 or Bosch W4C

ELECTRICAL EQUIPMENT

HEAD LIGHT: (WR) 12V 45W
TAIL LIGHT: (WR) 12V 5W

FRONT FORK

Husqvarna

TRAVEL: (XC) 300mm (11.8 in), (WR) 270mm (11.0 in)
TRAIL: 120mm (4.7 in)
FORK ANGLE (caster): 27°
OIL CAPACITY PER LEG: (XC) 470-480cc, (WR) 430-450cc
OIL RECOMMENDATION: Fork oil SAE 5-SAE 20

REAR SUSPENSION

Husqvarna Single shock w/Ohlins shockabsorber

TRAVEL: (XC) 340mm (13.4 in), (WR) 310mm (12.0 in)

WHEELS AND BRAKES

TIRES: Front: 3.00x21", Rear: 4.50x18"
SPOKE \emptyset L Front: 4mm, Rear: 4.5mm
BRAKES: Disc: 230mm, Drum: 160mm

DIMENSIONS

LENGTH: (XC) 2204mm(86.8 in), (WR) 2200mm(86.6 in)
HEIGHT: (XC) 1235mm(48.6 in), (WR) 1280mm (51.2 in)
SEAT HEIGHT: (XC) 965mm(38.0 in), (WR) 945mm (37.2in)
WHEELBASE: 1512mm (59.5 in)
GROUND CLEARANCE: (XC) 385mm(15.2 in), (WR) 340mm(13.4 in)
WEIGHT: (XC) 99kg (218 lbs.) (WR) 105kg (231 lbs.)

TORQUE SPECIFICATIONS

FLYWHEEL NUT: 70 Nm (51 ft. lbs.)
CYLINDER HEAD NUTS: 35 Nm (25 ft. lbs.)
CYLINDER HEAD SCREWS: 30 Nm (22 ft. lbs.)
ENGINE MOUNTING BOLTS: 40 Nm (29 ft. lbs.)
CRANKCASE SCREWS: 12 Nm (8 ft. lbs.)
SWING ARM MOUNTING NUTS: 60 Nm (44 ft. lbs.)
SCREWS, REED VALVE HOUSING
CYLINDER: 12 Nm (8 ft. lbs.)
SPARK PLUG: 40 Nm (29 ft. lbs.)

SERVICE BULLETIN

HUSQVARNA 1988 TECHNICAL DATA

430 CR, XC, WR



ENGINE

Single cylinder two-stroke, liquid cooled

DISPLACEMENT: 430cc
BORE STD: 86.00mm
1ST OVER: 86.50mm
2ND OVER: 87.00mm
3RD OVER:
STROKE: 74.00mm
COMPRESSION RATIO: 12.6:1

TRANSMISSION

PRIMARY TRANSMISSION RATIO: 2.30 (33:76)
SECONDARY TRANSMISSION " : XC,WR 3.71 (14:52) CR 4.0 (13:52)
CHAIN DIMENSION: 5/8" x 1/4"
NUMBER OF COGS, GEARBOX (MS:AS):
1ST WR, XC 13:34, CR 16:29
2ND WR, XC 16:29, CR 19:26
3RD WR, XC 19:26, CR 22:24
4TH WR, XC 23:24, CR 25:22
5TH WR, XC 25:22, CR 27:20
6TH WR, XC 27:20

TOTAL GEAR RATIOS (crank-shaft: rear wheel):

1ST (XC,WR) 20.9 (CR) 16.70
2ND (XC,WR) 14.5 (CR) 12.61
3RD (XC,WR) 10.9 (CR) 10.05
4TH (XC,WR) 8.3 (CR) 8.11
5TH (XC,WR) 7.0 (CR) 6.82
6TH (XC,WR) 5.9

OIL CAPACITY IN GEARBOX: 1.4 lit (0.37 US gal)
OIL RECOMMENDATION: Engine oil SAE 20

FUEL SYSTEM

FUEL: Gas min. 94 oct.
LUBRICATION: Oil-gas mixture 4%
TANK CAPACITY: WR, XC 12 lit (3.2 US gal), CR 10 lit (2.6 US gal)
OIL RECOMMENDATION: High quality two-stroke oil of well-known brand

CARBURETOR

Mikuni

VENTURI Ø: 38mm
MAIN JET: (WR, XC) 400, (CR) 430
NEEDLE JET: R-0
IDLING JET: (WR, XC) 45, (CR) 40
NEEDLE POSITION: 3 from top
NEEDLE: 6 DH 20
AIRSCREW OPENING: (WR, XC) 1.5 turn from bottom position, (CR) 1.0
THROTTLE: 2.5
AIR JET: 2.0

TECHNICAL SPECIFICATION

(over)

4 - 040

ELECTRICAL SYSTEM

Motoplat

TYPE: CDI Ø 116mm
 IGNITION ADVANCE: 18°
 IGNITION ADVANCE ON PISTON
 BEFORE TDC: 2.30mm
 LIGHT COIL: 35W yellow cable
 SPARK PLUG: Autolite 4055

ELECTRICAL EQUIPMENT

HEAD LIGHT: (WR) 12V 45W
 TAIL LIGHT: (WR) 12V 5W

FRONT FORK

TRAVEL: (WR,XC) Husqvarna, (CR) White Power
 TRAIL: (CR,XC) 300mm (11.8 in), (WR) 270mm (11.0 in)
 FORK ANGLE (Caster): 27°
 OIL CAPACITY PER LEG: (XC) 470-480cc, (WR) 430-450cc, (CR) 700cc
 OIL RECOMMENDATION: (WR,XC) fork oil SAE 5 (White Power Oil)
 (CR) - White Power Oil 5,10, or 15

REAR SUSPENSION

TRAVEL: (XC,CR) 340mm (13.4 in), (WR) 310mm (12.0 in)

WHEELS AND BRAKES

TIRES: (XC,WR) Front: 3.00 x 21", Rear: 4.50 x 18"
 (CR) Front: 3.00 x 21", Rear: 5.10 x 18"
 SPOKE Ø: Front: 4mm, Rear: 4.5mm
 BRAKES Ø: Disc: 230mm, Drum: 160mm

DIMENSIONS

LENGTH: (XC,CR) 2204mm (86.8in), (WR) 2200mm (86.8in)
 HEIGHT: (XC,CR) 1235mm (48.6in), (WR) 1280mm (51.2in)
 SEAT HEIGHT: (XC,CR) 965mm (38.0in), (WR) 945mm (37.2in)
 WHEELBASE: (XC,CR) 1512mm (59.5in), (WR) 1500mm (59.0in)
 GROUND CLEARANCE: (XC,CR) 385mm (15.2in), (WR) 340mm (13.4in)
 WEIGHT: (XC,CR) 101kg (222 lbs.)

TORQUE SPECIFICATIONS

FLYWHEEL NUT: 70 Nm (51 ft. lbs.)
 CYLINDER HEAD NUTS: 40 Nm (29 ft. lbs.)
 CYLINDER HEAD SCREWS: 35 Nm (25 ft. lbs.)
 ENGINE MOUNTING BOLTS: 40 Nm (29 ft. lbs.)
 CRANKCASE SCREWS: 12 Nm (8 ft. lbs.)
 SWING ARM MOUNTING NUTS: 60 Nm (44 ft. lbs.)
 SCREWS, REED VALVE HOUSING/
 CYLINDER: 12 Nm (8 ft. lbs.)
 SPARK PLUG: 40 Nm (29 ft. lbs.)

SERVICE BULLETIN

1988 TECHNICAL DATA
510TC MOTOCROSS



ENGINE: Single cylinder, 4-stroke, 4 valve, OHC
Husqvarna RAL system, liquid cooled

DISPLACEMENT: 503cc
BORE/STROKE: 91.5 x 76.5mm
COMPRESSION RATIO: 10:1

TRANSMISSION: 5-SPEED

PRIMARY TRANSMISSION RATIO: 2.3 (33.76)

NUMBER OF COGS, GEARBOX
(MS:AS):

1ST	16:29	4TH	25:22
2ND	19:26	5TH	27:20
3RD	22:26		

SECONDARY TRANSMISSION RATIO: 3.71:1 (14:52)

TOTAL GEAR RATIOS (CRANK-SHAFT: REAR WHEEL):

1ST	15.50:1	4TH	7.53:1
2ND	11.71:1	5TH	6.34:1
3RD	9.33:1		

CLUTCH: Multi disc in oil bath

CHAIN: 5/8" x 1/4"

VALVE CLEARANCE (COLD): In. 0.10mm (0.004") Ex. 0.15mm (0.006")

DE-COMPRESSOR CABLE: 1-2mm clearance on cables with engine running

OIL CAPACITY IN GEARBOX: 1.4 litre (0.36 US gal)

OIL RECOMMENDATION: Bel-Ray Racing Engine oil MC5 SAE 40

FUEL SYSTEM:

FUEL: Gasoline min 96 oct.

TANK CAPACITY: 9 litre (2.4 US gal)

CARBURETOR: Dellorto

VENTURI Ø: 40mm

MAIN JET: 170

NEEDLE JET: AB265

IDLING JET: 52

STARTING JET: 60

THROTTLE: 50

NEEDLE POSITION: 3

MIXTURE CONTROL SCREW: 1 3/4

FLOAT: 2x3.5g

Cagiva North America
237 West Parkway
Pompton Plains, NJ
07444-1028

TECHNICAL SPECIFICATIONS

(over)

4 - 041

510 TC MOTOCROSS CONT'D...

ELECTRICAL SYSTEM: SEM

TYPE: CDI
IGNITION ADVANCE: 33°
IGNITION ADV. ON PISTON BEFORE TDC: 8.0mm
IGNITION ADV. ON FLYWHEEL BEFORE TDC: 39.9mm
LIGHT COIL:
SPARK PLUG: NGK C 7E
NGK C 8E (racing)

FRONT FORK: White Power Type 4054 Upside down
TRAVEL: 300mm (11.8 in)
TRAIL: 120mm (4.7 in)
FORK ANGLE (CASTER): 27°
AIR PRESSURE PER LEG: -
OIL CAPACITY PER LEG: 700cc
OIL RECOMMENDATION: White Power fork oil, 5/10/or15 wt.

REAR SUSPENSION: Husqvarna single shocck system with Ohlins piggy back shock absorber
TRAVEL: 350mm (13.8 in)

WHEELS AND BRAKES: FRONT: REAR:
TIRES: METZELER 3.00 x 21" 4.50 x 18"
SPOKE Ø: 4mm 4.5mm
BRAKE DRUM Ø: Disc 230mm (9.06 in) Drum 160mm (6.3 in)

DIMENSIONS:
LENGTH: 2200mm (86.6 in)
HEIGHT: 1240mm (48.8 in)
WHEELBASE: 1512mm (59.6 in)
SEAT HEIGHT: 975mm (38.3 in)
GROUND CLEARANCE: 390mm (15.3 in)
WEIGHT: 112kg (248 lbs)

TORQUE SPECIFICATION:
FLYWHEEL NUT: 90 Nm (66ft. lbs)
CYLINDER HEAD NUTS: 50 Nm (36ft. lbs)
CYLINDER HEAD SCREWS: 25 Nm (18ft. lbs)
ENGINE MOUNTING BOLTS: 40 Nm (29ft. lbs)
CRANKCASE SCREWS: 12 Nm (9ft. lbs)
SWINGARM MOUNTING NUTS: 60 Nm (44ft. lbs)
SPARK PLUG: 12 Nm (9ft. lbs)

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

SERVICE BULLETIN

1988 TECHNICAL DATA
510 TE & TX



ENGINE: Single cylinder, 4-stroke, 4-valves,
OHC, Husqvarna RAL system, Liquid cooled

DISPLACEMENT: 503cc
BORE/STROKE: 91.5 x 76.5mm
COMPRESSION RATIO: 10:1

TRANSMISSION: 6 speed

PRIMARY TRANSMISSION RATIO: 2:30 (33:76)

NUMBER OF COGS, GEARBOX
(MS:AS):

1ST 13:34 = 2.62	4TH 23:24 = 1.04
2ND 16:29 = 1.81	5TH 25:23 = 0.88
3RD 19:26 = 1.37	6TH 27:20 = 0.74

SECONDARY TRANSMISSION RATIO: 3:43 (48:14)

TOTAL GEAR RATIOS (CRANK-
SHAFT: REAR WHEEL):

1ST 20.6:1	4TH 8.2:1
2ND 14.2:1	5TH 6.9:1
3RD 10.8:1	6TH 5.8:1

CLUTCH: Multi disc in oil bath
CHAIN: 5/8" x 1/4"
VALVE CLEARANCE (COLD): In. 0.10mm (0.004") Ex. 0.15mm (0.006")
DE-COMPRESSOR CABLE: 1-2mm clearance on cables with engine running

OIL CAPACITY IN GEARBOX: 1.6 lit. (0.42 US gal)
OIL RECOMMENDATION: Bel-Ray Racing Engine Oil MC5 SAE 40

FUEL SYSTEM:

FUEL: Gasoline min 96 oct.
TANK CAPACITY: 9 litre (2.4 US gal)

CARBURETOR: Dellorto

VENTURI Ø: 40mm
MAIN JET: 170
NEEDLE JET: AB 265
IDLING JET: 52
STARTING JET: 60
THROTTLE: 50
NEEDLE POSITION: 3
MIXTURE CONTROL SCREW: 1 3/4
FLOAT: 2x3.5g

TECHNICAL SPECIFICATIONS

(over)

4 - 042

1988 510 TE & TX CONT'D...

ELECTRICAL SYSTEM:	SEM	ELECTRICAL EQUIPMENT (TE):
		HEADLIGHT: 12V 55/W
		TAILLIGHT: 12V 5W
TYPE:	CDI	
IGNITION ADVANCE:	33°	
IGNITION ADV. ON PISTON BEFORE TDC:	8.0mm	
IGNITION ADV. ON FLY- WHEEL BEFORE TDC:	39.9mm	
LIGHT COIL:	70+70W	
SPARK PLUG:	NGK C 7E NGK C 8E (racing)	
FRONT FORK:	Husqvarna	
TRAVEL:	(TE) 270mm (10.6 in); (TX) 300mm (11.8 in)	
TRAIL:	120mm (4.7 in)	
FORK ANGLE (CASTER):	27°	
AIR PRESSURE PER LEG:	MAX 50kPa (8psi)	
OIL CAPACITY PER LEG:	420-470cc	
OIL RECOMMENDATION:	SAE 5-SAE20 fork oil	
REAR SUSPENSION:	Husqvarna single shock system with Ohlins piggy back shock absorber	
TRAVEL:	(TE) 310mm (12.2 in); (TX) 350mm (13.8 in)	
WHEELS AND BRAKES:	FRONT:	REAR:
TIRES: METZELER	3.00 x 21"	4.50 x 18"
SPOKE Ø:	4mm	4.5mm
BRAKE DRUM Ø:	Disc 230mm (9.06 in)	Drum 160mm (6.3 in)
DIMENSIONS:		
LENGTH:	2200mm (86.8 in)	
HEIGHT:	1295mm (48.8 in)	
WHEELBASE:	(TE)1500mm (59.0 in); (TX)1512mm (59.5 in)	
SEAT HEIGHT:	(TE)940mm (37.0 in); (TX)975mm (38.3 in)	
GROUND CLEARANCE:	(TE)345mm (13.5 in); (TX)390mm (15.3 in)	
WEIGHT:	(TE)116kg (256 lbs); (TX)114kg (251 lbs)	
TORQUE SPECIFICATIONS:		
FLYWHEEL NUT:	90 Nm (66ft. lbs)	
CYLINDER HEAD NUTS:	50 Nm (36ft. lbs)	
CYLINDER HEAD SCREWS:	25 Nm (18ft. lbs)	
ENGINE MOUNTING BOLTS:	40 Nm (29ft. lbs)	
CRANKCASE SCREWS:	12 Nm (9ft. lbs)	
SWINGARM MOUNTING NUTS:	44 Nm (29ft. lbs)	
SPARK PLUG:	12 Nm (9ft. lbs)	

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

SERVICE BULLETIN

1988 TECHNICAL DATA
WMX 125 CROSS



ENGINE: 1-cylinder, 2-stroke, liquid cooled
with exhaust power control valve

DISPLACEMENT: 124.6cc
BORE/STROKE: 56 x 50.6mm
COMPRESSION: 15:1

TRANSMISSION: 6 speed, constant mesh

PRIMARY TRANSMISSION RATIO: 3.555 (18:64)

NUMBER OF COGS, GEARBOX
(MS:AS):

1ST	13:28	4TH	20:25
2ND	14:25	5TH	19:21
3RD	15:22	6TH	21:20

SECONDARY TRANSMISSION RATIO:12:52

TOTAL GEAR RATIOS (CRANK-
SHAFT: REAR WHEEL):

1ST	33.19:1	4TH	19.26:1
2ND	27.51:1	5TH	17.03:1
3RD	22.60:1	6TH	14.67:1

CLUTCH: Multi plate, wet
CHAIN: 5/8" x 1/4"

OIL CAPACITY IN GEARBOX: 0.7 litre (0.8 qt)
OIL RECOMMENDATION: Hypoy B 80W-90 EP (GL5)
or Castrol GTX 10W-40

FUEL SYSTEM:

FUEL: Gasoline min. 94 oct.
TANK CAPACITY: 8 litre (2.1 gal)
LUBRICATION: oil, gas mixture, 40:1

CARBURETOR: Dell'orto

VENTURI Ø : VHSB 37BS
MAIN JET: 190
NEEDLE JET: DQ264
IDLING JET: 45
STARTING JET: 60
THROTTLE: 40
NEEDLE POSITION: 2ND (from top)
MIXTURE CONTROL SCREW: 1½ turn
FLOAT: g 4.5
NEEDLE: K49

TECHNICAL SPECIFICATION

(over)

4 - 043

WMX 125/88 Cont'd...

ELECTRICAL SYSTEM:

TYPE: Motoplat CDI
IGNITION ADVANCE:
IGNITION ADVANCE ON
PISTON BEFORE TDC: 1.85mm (0.073 in)

SPARK PLUG: NGK B10 EV
CHAMPION N825

FRONT FORK: White Power type 4054
Upside down

TRAVEL: 300mm (11.8 in)

TRAIL: 118mm (4.6 in)

FORK ANGLE (CASTER): 28°

AIR PRESSURE PER LEG: -

OIL CAPACITY PER LEG: 700cc

OIL RECOMMENDATION: White Power Fork Oil, 5/10/or 15 wt.

REAR SUSPENSION: Cagiva Soft Damp with White Power Super
Adjuster Single Shock

TRAVEL: 325mm (12.8 in)

WHEELS AND BRAKES:

FRONT:

REAR:

TIRES: 3.00 x 21
BRAKE DRUM Ø: Disc 230mm (9in)
Floating caliper

4.25 x 18
Drum 130mm (5 in)

DIMENSIONS:

LENGTH: 2145mm (84.4 in)

HEIGHT: 1215mm (47.8 in)

WHEELBASE: 1440mm (56.7 in)

SEAT HEIGHT: 925mm (36.4 in)

GROUND CLEARANCE: 355mm (13.9 in)

WEIGHT: 88kg (193 lbs)

TORQUE SPECIFICATIONS:

FLYWHEEL NUT: 51 Nm (37.5 ft. lbs)

CYLINDER HEAD NUTS: 13 Nm (10.1 ft. lbs)

CYLINDER NUTS: 1 Nm (14.4 ft. lbs)

ENGINE MOUNTING NUTS: 31 Nm (23.1 ft. lbs)

CRANKCASE SCREWS: 9 Nm (6.5 ft. lbs)

SWINGARM MOUNTING NUTS: 50 Nm (38.3 ft. lbs)

SCREWS, REED VALVE

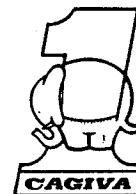
HOUSING/CYLINDER: 12 Nm (8.0 ft. lbs)

SPARK PLUG: 28 Nm (20.3 ft. lbs)

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

SERVICE BULLETIN

1988 TECHNICAL DATA
WMX 250 CROSS



ENGINE 1-CYLINDER, 2-STROKE, liquid cooled
with exhaust power control valve

DISPLACEMENT: 249.9cc

BORE/STROKE: 70x64.8mm

COMPRESSION: 14:1

TRANSMISSION: 5 speed, constant mesh

PRIMARY TRANSMISSION RATIO: 2.666 (27:72)

NUMBER OF COGS, GEARBOX
(MS:AS):

1ST	11:28	4TH	18:25
2ND	14:29	5TH	18:21
3RD	16:27		

SECONDARY TRANSMISSION RATIO: 14:44

TOTAL GEAR RATIOS (CRANK-SHAFT - REAR WHEEL):

1ST	21.33:1	4TH	11.64:1
2ND	17.36:1	5TH	9.78:1
3RD	14.14:1		

CLUTCH: multi plate, wet

CHAIN: 5/8: x 1/4:

OIL CAPACITY IN GEARBOX: 0.75 litre (0.82qt)

OIL RECOMMENDATION: Hypoy B 80W-90 EP (GL5)
or Castrol GTX 10W-40

FUEL SYSTEM:

FUEL: Gasoline min. 98 oct.

TANK CAPACITY: 8.5 litre (2.5 gal)

LUBRICATION: oil, gas mixture, 40:1 (not to exceed 50:1)

CARBURETOR: Dell'orto

VENTURI Ø: VHSB 37BS

MAIN JET: 192

NEEDLE JET: D Q266

IDLING JET: 45

STARTING JET: 60

THROTTLE: 40

NEEDLE POSITION: 2nd from top

MIXTURE CONTROL SCREW: 1½ turn

FLOAT: G 4.5

NEEDLE: K50

TECHNICAL SPECIFICATION

(over)

4 - 44

WMX 250/88 Cont'd...

ELECTRICAL SYSTEM:

TYPE: Motoplat CDI

IGNITION ADVANCE:

IGNITION ADVANCE ON PISTON BEFORE TDC: 1.00mm

SPARK PLUG: NGK B10 EV, or B 95 EGV CHAMPION N84

FRONT FORK: White Power type 4054 Upside down

TRAVEL: 300mm (11.8 in)

TRAIL: 118mm (4.6 in)

FORK ANGLE (CASTER): 28°

AIR PRESSURE PER LEG: -

OIL CAPACITY PER LEG: 700cc

OIL RECOMMENDATION: White Power Fork Oil, 5/10/ or 15 wt.

REAR SUSPENSION: Cagiva Soft Damp with White Power Super Adjuster Single Shock

TRAVEL: 325mm (12.8 in)

WHEELS AND BRAKES: FRONT: REAR:

TIRES: 90/90 x 21 110/110 x 18

BRAKE DRUM Ø: Disc 230mm (9in) Drum 130mm (5in)
Floating caliper

DIMENSIONS:

LENGTH: 2165mm (84.4 in)

HEIGHT: 1215mm (47.8 in)

WHEELBASE: 1460mm (56.7 in)

SEAT HEIGHT: 925mm (36.4 in)

GROUND CLEARANCE: 355mm (13.9 in)

WEIGHT: 98 kg (193 lbs)

TORQUE SPECIFICATIONS:

FLYWHEEL NUT: 51 Nm (37.5 ft. lbs)

CYLINDER HEAD BOLTS: 13 Nm (10.1 ft. lbs)

CYLINDER NUTS: 24 Nm (18.0 ft. lbs)

ENGINE MOUNTING NUTS: 31 Nm (23.1 ft. lbs)

CRANKCASE SCREWS: 9 Nm (6.5 ft. lbs)

SWINGARM MOUNTING NUTS: 50 Nm (38.3 ft. lbs)

SCREWS, REED VALVE HOUSING/CYLINDER: 12 Nm (8.0 ft. lbs)

SPARK PLUG: 28 Nm (20.3 ft. lbs)

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE