Index

Α

About this manual, 0-5
Acknowledgments, 0-2
Air cleaner housing, removal and installation, 4-6
Air filter element, servicing, 1-13
Air intake chamber and intake ducts, removal and installation, 4-7
VT600 models, 4-7
VT750 models, 4-9
Alternator, check and replacement, 9-20

B

Battery

charging, 9-4
conventional batteries, 9-4
maintenance-free batteries, 9-4
electrolyte level/specific gravity, check, 1-6
removal, inspection, maintenance and installation, 9-3
Brake light switches, check and replacement, 9-9
Brake light/taillight assembly, removal and installation, 9-11
Brake pads and shoes, wear check, 1-7
Brake system, general check, 1-7
Brakes, wheels, tires and final drive,
7-1 through 7-22
brake caliper, removal, overhaul and installation, 7-3
brake disc, inspection, removal and installation, 7-5

brake system bleeding, 7-8 drive chain, removal, cleaning and installation, 7-18 driven flange and rubber dampers, removal, inspection and installation, 7-21 drum brake, removal, inspection and installation, 7-9 front brake master cylinder, removal, overhaul and installation, 7-6 general information, 7-2 hose, inspection and replacement, 7-8 pads, replacement, 7-2 rear brake pedal and linkage, removal and installation, 7-11 sprockets, check and replacement, 7-20 tires, general information, 7-18 wheel bearings, inspection and maintenance, 7-16 wheel, removal and installation front, 7-14 rear, 7-15 wheels, alignment check, 7-18 wheels, inspection and repair, 7-13 Buying parts, 0-7

C

Cam chain guide, removal, inspection and installation, 2-23
Cam chain tensioner, removal, inspection and installation, 2-18
Cam chains and rear cam chain drive sprocket, removal, inspection and installation, 2-36

IND-2 Index

Camshaft, sprocket and rocker arms, removal, inspection and installation, 2-14	D
Carburetors	Drive chain
disassembly, inspection, cleaning and	and sprockets, check,, 1-11
reassembly, 4-14	removal, cleaning and installation, 7-18
overhaul, general information, 4-12	Driven flange and rubber dampers, removal,
removal and installation, 4-12	inspection and installation, 7-21
Chain guard, removal and installation, 8-5	Drum brake, removal, inspection and installation, 7-9
Charging system check, 9-19	and an analysis of the second
testing, general information and precautions, 9-19	
Clutch	
cable, replacement, 2-29	E
check and adjustment, 1-10	m
diode, check and replacement, 9-17	Electrical system, 9-1 through 9-30
removal, inspection and installation, 2-30	alternator, check and replacement, 9-20
switch, check and replacement, 9-16	battery
Connecting rods and bearings, removal, inspection	charging, 9-4
and installation, 2-45	conventional batteries, 9-4
Coolant reservoir, removal and installation, 3-7	maintenance-free batteries, 9-4
Coolant temperature warning system, check and	removal, inspection, maintenance and
component replacement, 3-5	installation, 9-3
Cooling fan and thermostatic fan switch, check and	brake light switches, check and replacement, 9-9
replacement, 3-4	brake light/taillight assembly, removal and
Cooling system, 3-1 through 3-10	installation, 9-11
check, 1-19	charging system
coolant reservoir, removal and installation, 3-7	check, 9-19
coolant temperature warning system, check and	testing, general information and precautions, 9-19
component replacement, 3-5	clutch diode, check and replacement, 9-17
cooling fan and thermostatic fan switch, check and	clutch switch, check and replacement, 9-16
replacement, 3-4	electrical troubleshooting, 9-2
draining, flushing and refilling, 1-20	fuses, check and replacement, 9-5
general information, 3-2	general information, 9-2
radiator cap, check, 3-2	handlebar switches
radiator, removal and installation, 3-2	check, 9-13
thermostat housing, removal and installation, 3-7	removal and installation, 9-14
thermostat, removal, check and installation, 3-5	headlight aim, check and adjustment, 9-6
water pump, check, removal and installation, 3-8	headlight assembly, removal and installation, 9-6
Crankcase	VT600 models, 9-6
components, inspection and servicing, 2-41	VT750 models, 9-7
disassembly and reassembly, 2-39	headlight bulb, replacement, 9-5
emission control system, description, check and	horn, check and replacement, 9-16
component replacement, 4-3	ignition main (key) switch, check and
Crankshaft and main bearings, removal, inspection	replacement, 9-13
and installation, 2-47	lighting system, check, 9-5
Cylinder compression, check, 1-14	brake light switches, 9-5
Cylinder head	headlight, 9-5
and valves, disassembly, inspection and	speedometer light and indicator lights, 9-5
reassembly, 2-20	turn signal lights/brake light/taillight/license plate
removal and installation, 2-19	light, 9-5
Cylinder head cover, removal and installation, 2-12	neutral switch, check and replacement, 9-15
all models, 2-13	oil pressure switch, check and replacement, 9-15
VT600 models, 2-12	sidestand switch, check and replacement, 9-16
VT750 models, 2-13	speedometer
Cylinder, removal, inspection and installation, 2-23	and cable, removal and installation, 9-12

light and indicator lights, replacement, 9-12

Index IND-3

starter clutch assembly, removal, inspection and piston, removal, inspection and installation, 2-25 installation, 9-22 primary drive gear, removal, inspection and starter motor installation, 2-35 disassembly, inspection and reassembly, 9-18 recommended break-in procedure, 2-53 removal and installation, 9-17 transmission, removal, inspection and starter relay switch, check and replacement, 9-17 installation, 2-49 turn signal valves/valve seats/valve guides, servicing, 2-20 assembly, removal and installation, 9-10 Engine oil/filter, change, 1-12 circuit and relay, check, 9-8 Evaporative emission control system (California tail/brake light and license plate bulbs, models only), inspection, 1-21 replacement, 9-7 Evaporative emission control system (California voltage regulator/rectifier, check and models), description, check and component replacement, 9-22 replacement, 4-4 wiring diagrams, 9-23 **Exhaust system** Engine, clutch and transmission, 2-1 through 2-54 check, 1-21 cam chain guide, removal, inspection and removal and installation, 4-20 installation, 2-23 cam chain tensioner, removal, inspection and installation, 2-18 cam chains and rear cam chain drive sprocket, removal, inspection and installation, 2-36 Fasteners, check, 1-22 camshaft, sprocket and rocker arms, removal, inspection and installation, 2-14 Fender(s), removal and installation, 8-6 Fluid levels, check, 1-5 clutch cable, replacement, 2-29 Footpegs, removal and installation, 8-1 clutch, removal, inspection and installation, 2-30 connecting rods and bearings, removal, inspection Fork oil change, 6-3 **Forks** and installation, 2-45 disassembly, inspection and reassembly, 6-4. crankcase components, inspection and removal and installation, 6-4 servicing, 2-41 crankcase, disassembly and reassembly, 2-39 Frame and bodywork, 8-1 through 8-8 chain guard, removal and installation, 8-5 crankshaft and main bearings, removal, inspection fender(s), removal and installation, 8-6 and installation, 2-47 cylinder head footpegs, removal and installation, 8-1 frame, inspection and repair, 8-1 and valves, disassembly, inspection and general information, 8-1 reassembly, 2-20 rear grab rails (VT750 models), removal and removal and installation, 2-19 installation, 8-7 cylinder head cover, removal and installation, 2-12 rear sub-frame (VT600 models), removal and all models, 2-13 VT600 models, 2-12 installation, 8-6 VT750 models, 2-13 seat, removal and installation, 8-2 cylinder, removal, inspection and installation, 2-23 side covers, removal and installation, 8-4 VT600 models, 8-4 engine disassembly and reassembly, general information, 2-12 VT750 models, 8-5 sidestand engine, removal and installation, 2-10 maintenance, 8-2 gearshift linkage, removal, inspection and removal and installation, 8-2 installation, 2-36 initial start-up after overhaul, 2-53 steering head covers, removal and installation, 8-3 VT600 models, 8-3 main and connecting rod bearings, general note, 2-44 VT750 models, 8-4 Fuel and exhaust systems, 4-1 through 4-22 major engine repair, general note, 2-10 air cleaner housing, removal and installation, 4-6 oil pump drive chain and sprockets, removal, air intake chamber and intake ducts, removal and inspection and installation, 2-34 installation, 4-7 oil pump, removal, inspection and installation, 2-41 operations possible with the engine in the frame, 2-10 VT600 models, 4-7 operations requiring engine removal, 2-10 VT750 models, 4-9 carburetor overhaul, general information, 4-12 piston rings, installation, 2-28

IND-4 Index

Carburetors
disassembly, inspection, cleaning and
reassembly, 4-14
removal and installation, 4-12
crankcase emission control system, description,
check and component replacement, 4-3
evaporative emission control system (California
models), description, check and component
replacement, 4-4
exhaust system, removal and installation, 4-20
fuel pump system, check and component
replacement, 4-9
fuel tank
cleaning and repair, 4-3
removal and installation, 4-2
general information, 4-2
idle fuel/air mixture, adjustment, 4-20
sub-air cleaner element, removal and installation, 4-6
throttle cables and grip, removal, installation and
adjustment, 4-10
Fuel system, check and filter replacement, 1-22
Fuses, check and replacement, 9-5

G

Gearshift linkage, removal, inspection and installation, 2-36
General specifications, 0-8

Н

Handlebar, removal and installation, 6-2
Handlebar switches
check, 9-13
removal and installation, 9-14
Headlight
aim, check and adjustment, 9-6
assembly, removal and installation, 9-6
VT600 models, 9-6
VT750 models, 9-7
bulb, replacement, 9-5
Horn, check and replacement, 9-16

Identification numbers, 0-6
Idle fuel/air mixture, adjustment, 4-20
Idle speed, check and adjustment, 1-18
Ignition main (key) switch, check and replacement, 9-13
Ignition system, 5-1 through 5-6 check, 5-2

coils, check and replacement, 5-2
general information, 5-1
ignition control module, check and replacement, 5-4
pulse generator(s), check and replacement, 5-3
timing rotor, removal and installation, 5-4
timing, check, 5-5
Initial start-up after overhaul, 2-53
Introduction to the Honda VT600 and VT750 Shadow
V-Twins, 0-5
Introduction to tune-up and routine maintenance, 1-5

The control of the co

L

Lighting system, check, 9-5
brake light switches, 9-5
headlight, 9-5
speedometer light and indicator lights, 9-5
turn signal lights/brake light/taillight/license plate
light, 9-5
Lubrication, general, 1-15

M

Main and connecting rod bearings, general note, 2-44 Maintenance techniques, tools and working facilities, 0-10 Motorcycle chemicals and lubricants, 0-18

N

Neutral switch, check and replacement, 9-15

0

Oil pressure switch, check and replacement, 9-15 Oil pump

drive chain and sprockets, removal, inspection and installation, 2-34 removal, inspection and installation, 2-41

P

Piston

removal, inspection and installation, 2-25 rings, installation, 2-28 **Primary drive gear, removal, inspection and**

rimary drive gear, removal, inspection and installation, 2-35

Index IND-5

Valve clearances, check and adjustment, 1-16 Valves/valve seats/valve guides, servicing, 2-20

R	swingarm bearings check, 6-13
Radiator	replacement, 6-15
cap, check, 3-2	swingarm, removal, inspection and installation
removal and installation, 3-2	VT600 models, 6-13
Rear brake pedal height and freeplay, check and	VT750 models, 6-14
adjustment, 1-8	Steering head
Rear grab rails (VT750 models), removal and	bearings, check, adjustment and lubrication, 1-21
installation, 8-7	covers
Rear shock absorbers, removal, inspection and	removal and installation, 8-3
installation	VT600 models, 8-3
VT600 models, 6-11	VT750 models, 8-4
VT750 models, 6-12	Sub-air cleaner element, removal and
Rear sub-frame (VT600 models), removal and	installation, 4-6
installation, 8-6	Suspension
Recommended break-in procedure, 2-53	adjustments, 1-23
Routine maintenance intervals, 1-4	check, 1-22
· · · · · · · · · · · · · · · · · · ·	Swingarm bearings
•	check, 6-13
S	replacement, 6-15
	Swingarm, removal, inspection and installation
Safety first!, 0-16	VT600 models, 6-13
Seat, removal and installation, 8-2	VT750 models, 6-14
Side covers, removal and installation, 8-4	
VT600 models, 8-4	
VT750 models, 8-5	7
Sidestand	1
maintenance, 8-2	Tank, fuel
removal and installation, 8-2	cleaning and repair, 4-3
switch, check and replacement, 9-16	removal and installation, 4-2
Spark plugs, replacement, 1-14	Thermostat housing, removal and installation, 3-7
Speedometer	Thermostat, removal, check and installation, 3-5
and cable, removal and installation, 9-12	Throttle cable and choke operation, check and
light and indicator lights, replacement, 9-12	adjustment, 1-9
Sprockets, check and replacement, 7-20	Throttle cables and grip, removal, installation and
Starter clutch assembly, removal, inspection and	adjustment, 4-10
installation, 9-22	Timing rotor, removal and installation, 5-4
Starter motor	Tires, general information, 7-18
disassembly, inspection and reassembly, 9-18	Tires/wheels, general check, 1-9
removal and installation, 9-17	Tools, 0-10
Starter relay switch, check and replacement, 9-17	Transmission, removal, inspection and
Steering and suspension, 6-1 through 6-16	installation, 2-49
fork oil change, 6-3	Troubleshooting, 0-19
forks	Tune-up and routine maintenance, 1-1 through 1-24
disassembly, inspection and reassembly, 6-4	Turn signal
removal and installation, 6-4	assembly, removal and installation, 9-10
VT600 models, 6-4	circuit and relay, check, 9-8
VT750 models, 6-4	tail/brake light and license plate bulbs,
general information, 6-2	replacement, 9-7
handlebar, removal and installation, 6-2	·
rear shock absorbers, removal, inspection and	
installation	V
VT600 models, 6-11 VT750 models, 6-12	V
VI/SUMODEIS D-12	

steering stem and bearings, removal, inspection and

installation, 6-8

IND-6

Voltage regulator/rectifier, check and replacement, 9-22



Water pump, check, removal and installation, 3-8 Wheel bearings, inspection and maintenance, 7-16

Wheel, removal and installation

front, 7-14 rear, 7-15

Wheels

alignment check, 7-18 inspection and repair, 7-13

Wiring diagrams, 9-23 Working facilities, 0-10