

A

ACCS System, 4.12
Adjusting Belt Deflection, 5.35
Adjustment, Choke, 4.41
Adjustment, Maintenance, VES, 700/800 XCR, 3.69, 3.72
Adjustment, Track Tension, 2.14
Air/Fuel Mixture Ratio, 4.19
Alignment Bar Specifications, 6.12
Alternator Output Test, 9.30

B

Backrest Adjustment, 2.20
Battery Charging, 9.24
Battery Service, 9.23, 9.24
Battery Testing, 9.23
Belt Deflection, 5.34
Belt Inspection, 2.19
Belt to Sheave Clearance Inspection, 5.38
Belt Wear / Burn Diagnosis, 5.33, 5.55
Bleeding, Brake, 2.24
Bleeding, Brake, Fluid Change, 8.14, 8.15
Bleeding, Cooling System, 2.12, 3.85
Bleeding, Oil Pump, 3.83
Brake Adjustment, 2.25
Brake Adjustment, Type M3, 8.37
Brake Adjustment, Type WT, 8.39
Brake Assembly to Chaincase, Type M3, 8.36
Brake Assembly, Type H4, 8.28, 8.29
Brake Assembly, Type H5LC, 8.33, 8.34
Brake Assembly, Type WT, 8.39
Brake Bleeding, 2.24
Brake Bleeding, Fluid Change, 8.14, 8.15
Brake Caliper Removal, WideTrak, 8.67
Brake Cleaning and Inspection, Type H4, 8.28
Brake Cleaning and Inspection, Type H5LC, 8.33
Brake Disassembly, Type M3, 8.35
Brake Disassembly, Type WT, 8.38

Brake Fluid Replenishment, 2.24
Bulletin Index, 1998 By Model, 1.3, 1.4
Bushing End Play, Oil Pump, 3.83, 3.84
Bushing Replacement, P85, 5.39
Bushing Replacement, P90 Drive, 5.45
Bushing Replacement, P90 Driven, 5.49

C

Caliper Disassembly, Type H4, 8.27
Caliper Disassembly, Type H5LC, 8.32
Camber / Toe / Width Specifications, 1999 IFS, 6.14
Camber Adjustment-CRC, 6.22
Camber, Definition, All IFS, 6.13
Carburetion Condensed Data, 1999, 4.4
Carburetor Adjustment, 4.27, 4.33
Carburetor Adjustment, Mikuni TM 38, 4.39
Carburetor Assembly, Keihin, 4.37
Carburetor Component Effect vs. Throttle Opening, 4.22
Carburetor Function, 4.21
Carburetor Jets, 4.1
Carburetor Leak Testing Needle and Seat, 4.27
Carburetor Primer System, 4.42
Carburetor Service, 4.24, 4.25, 4.26
Carburetor Service, Keihin, 4.28
Carburetor Service, Mikuni TM 38, 4.34
Carburetor Synchronization-Keihin, Mikuni, 4.33
Carburetor Troubleshooting, 4.49
Chaincase Oil Level, 2.8, 2.9
Choke Adjustment, 4.41
Clutch Alignment Adjustment, 5.37
Clutch Alignment Inspection, 5.37
Clutch Bushing Replacement, P85, 5.39
Clutch Bushing Replacement, P85 Driven, 5.43
Clutch Offset Adjustment, 5.36
Clutch Offset Inspection, 5.36
Clutch Troubleshooting, 5.53
Coil Replacement, 9.31
Compression Adjustable Shocks, 7.35

Connecting Rod (Big End) Inspection, 3.76
Connecting Rod (Small End) Inspection, 3.76
Conversion Chart, Degrees to Piston Position
BTDC, 9.14
Conversion Table, 1.9
Coolant High Temperature Indicator Testing, 9.34
Coolant Level, 2.12
Cooling System, 2.12
Cooling System Diagram, 440 XCR, 3.89
Cooling System Diagram, 500 Fuji, XLTs Except
SP, 3.86
Cooling System Diagram, 500 XC/SP, 3.90
Cooling System Diagram, 600/700 RMK, SKS, 3.88
Cooling System Diagram, 600/700 XC, SP, 3.87
Cooling System Diagram, 700/800 XCR, 3.92
Cooling System Diagram, XLT SP, 3.91
Cooling System, Bleeding, 3.85
Crankcase Inspection, 3.75
Crankshaft Bearing Inspection, 3.75
Crankshaft Indexing, 3.78, 3.79
Crankshaft Truing, 3.77
CRC Steering Adjustment, 6.22
Cylinder Cleaning, 3.74
Cylinder Head Inspection, 3.80
Cylinder Honing, 3.73
Cylinder Measurement, 3.80

D

Decal Installation, 6.47
Decal Removal, 6.47
Decimal Equivalent Chart, 1.7
De-glazing, 3.73
Drive Clutch Weight Identification, 5.2, 5.3, 5.4
Drive Belt, 5.32
Drive Belt Installation, 2.19
Drive Belt Removal, 2.19
Drive Chain Tension, 2.8
Drive Clutch, Spring Compression / Rate Chart,
5.5

Drive Clutch Assembly, 5.21
Drive Clutch Bushing Replacement, P90, 5.45
Drive Clutch Disassembly, 5.16
Drive Clutch Identification, 5.15
Drive Clutch Installation, 5.22
Drive Clutch Operation, 5.12, 5.13
Drive Clutch Removal, 5.15
Drive Clutch Service Tools, 5.1
Drive Clutch Spring Data, 5.6
Drive Clutch Spring Rate Chart, 5.5, 5.7
Drive System Assembly, Type 3, 8.44, 8.51
Drive System Disassembly, Type 3, 8.40, 8.41, 8.43
Driven Clutch Assembly, 5.28
Driven Clutch Bushing Replacement, P85, 5.43
Driven Clutch Bushing Replacement, P90, 5.49
Driven Clutch Disassembly, 5.26
Driven Clutch Installation, 5.31
Driven Clutch Operation, 5.14
Driven Clutch Removal, 5.25
Driven Clutch Springs, 5.7
Driveshaft Sprocket Installation, 8.7

E

Electric Fuel Gauge Testing, 9.37
Electric Starter Assembly, 9.27
Electric Starter System Testing, 9.25 - 9.26
Engine Assembly, 3 Cyl Monoblock, 3.34 - 3.37
Engine Assembly, 600/700 Case Reed, 3.57
Engine Assembly, 700 Case Reed, 3.61
Engine Assembly, 700/800 Case Reed, 3.65 - 3.68
Engine Assembly, Fan Cooled Twin Cyl 3.18 - 3.21
Engine Assembly, Liquid Twin Cylinder, 3.26 - 3.28
Engine Assembly, SN44 Case Reed, 3.44 - 3.47
Engine Disassembly, 3 Cyl Monoblock, 3.29 - 3.33
Engine Disassembly, 600/700 Case Reed, 3.50
Engine Disassembly, 700 Case Reed, 3.56
Engine Disassembly, 700/800 Case Reed, 3.63
Engine Disassembly, 800 Case Reed, 3.62, 3.64
Engine Disassembly, Fan Cooled Twin Cylinder,
3.13 - 3.17

Engine Disassembly, Liquid Twin Cyl, 3.22 - 3.25
Engine Disassembly, SN44 Case Reed, 3.44, 3.49
Engine Disassembly, SN44/S50 Case Reed, 3.38
Engine Installation, Typical, 3.9, 3.10, 3.11, 3.12
Engine Removal, Typical, 3.5, 3.6, 3.7, 3.8
Exploded View, VM34SS with ACCS, 4.10
Exploded View, Keihin PWK 39, 4.6
Exploded View, Keihin PWK 39 with ACCS, 4.11
Exploded View, VM30SS, 4.7
Exploded View, VM34SS, 4.8
Exploded View, VM38SS, 4.9
Exploded Views, Steering Assembly, 6.2, 6.11

F

Final Toe Adjustment, 6.19
Float Chamber Venting, 4.14
Float Level Adjustment, 4.27
Float System, 4.21
Fox Shock Assembly, 7.54, 7.58
Fox Shock Disassembly, 7.50, 7.51
Fox Shock Eye Replacement, 7.58
Fox Shock Seal Replacement, 7.52, 7.53
Friction Pad Replacement, Type H4, 8.25, 8.26
Friction Pad Replacement, Type H5LC, 8.30, 8.31
Front Rear Scissor Stop (FRSS) - XTRA 10 7.24
Front Rear Scissor Stop (FRSS), XTRA 12 7.31
Front Track Shock Spring, XTRA 12 Style, 7.31
Fuel Delivery System, Typical, 4.15
Fuel Pump Exploded Views, 4.44, 4.47
Fuel Pump Maintenance, 4.43
Fuel Pump Operation, 4.43
Fuel Recommendation, 3.4
Fuel System, 2.22
Fuel Tank/Seat Removal, 6.35, 6.36

G

Gasoline Volatility, 4.13
Gearing Chart, 6.1

Glossary of Terms, 1.11, 1.12, 1.13
Greasing Driveshaft Bearing, 2.5
Greasing Driveshaft Bearing, WideTrak, 2.5
Greasing Jackshaft Bearing, 2.5

H

Handlebar Adjustment, 2.23
Handlebar Centering, 6.18
Handlebar Centering-CRC, 6.23
Handlebar Torque - Aggressive Style, 6.34
Handlebar Torque - Evolved Style, 6.34
Handlebar Torque - Indy Style, 6.34
Handlebar Warmer Testing, 9.38
Headlight Adjustment, 2.21, 2.22
Headlight Bulb Filament Continuity Test, 9.32
Headlight Bulb Installation, 2.22
Headlight Bulb Removal, 2.22
Helix Ramps, 5.29
Hi Lo Beam Switch Testing, 9.32
Hi-Fax Inspection, Replacement, 7.5
Hi-Fax Removal, 7.5
Hi-Fax Replacement, 7.6
Hone Selection, 3.73
Honing Procedure, 3.74
Honing Procedure, NiCaSil, 3.74
Honing to Oversize, 3.73
Hood Adjustment - Evolved Style, 6.45, 6.46
Hydraulic Brake System Operation, 8.9

I

IFS Adjustment - XTRA 10 Style, 7.33
Ignition Switch Testing, 9.33
Ignition Timing Specifications, 9.1
Indy Select Shock, 7.35, 7.36

J

Jackshaft Speed vs. MPH Chart, 8.1
Jet Needle Part Numbers, 4.2

Jet Needle/Needle Jet, 4.19
Jet Part Numbers, Mikuni, 4.1
Jets, Carburetor, 4.1

K

Keihin Carburetor Service, 4.28
Keihin PWK 39 Exploded View with ACCS, 4.11

L

Leak Testing, Keihin Carburetor, 4.32
Lighting System Output, 9.29
Load Test, 9.24
Lubrication, 2.6, 2.7, 2.8, 2.9, 2.10, 2.11
Lubrication, Suspension, 2.10, 2.11

M

Main Jet, 4.20
Main System, 4.20
Maintenance Products, 2.3
Master Cylinder Assembly, Type 3, 8.11, 8.12, 8.13, 8.18, 8.19, 8.20
Master Cylinder Inspection, Hayes, 8.24
Master Cylinder Inspection, Type 3, 8.11
Master Cylinder Removal, Type 3, 8.10
Master Cylinder, Hayes, 8.16
Measuring Belt Deflection, 5.35
Model Identification, 1999, 1.15
Specifications By Model, 1999, 1.16, 1.67
Multimeter Usage, 9.3, 9.4, 9.5

N

Needle Bearing Inspection, 3.76
Needle Jet, 4.19
NiCaSil Honing Procedure, 3.74
Nosepan Replacement - Evolved Style, 6.42 - 6.44

O

Oil Pump Adjustment, 2.7, 3.83
Oil Pump Bleeding, 3.83
Oil Pump Bushing End Play Adjustment, 3.83, 3.84
Oil Pump Operation, 3.82
Open Circuit Voltage Test, 9.23
Operating RPM Timing Check, 9.22
Operation, Rear Suspension, 7.1, 7.2

P

P85 Drive Clutch Exploded View, 5.8
P85 Driven Clutch Bushing Replacement, 5.43
P85 Driven Clutch Exploded View, 5.9
P90 Drive Clutch Exploded View, 5.10
P90 Drive Clutch Bushing Replacement, 5.45
P90 Driven Clutch Bushing Replacement, P90 Drive, 5.49
P90 Driven Clutch Exploded View, 5.11
Paint Codes, 1999, 1.2
Part Numbers, Publication, 1.1
Pilot Air Screw, 4.17
Pilot Jet, 4.17
Pilot System, 4.17
Piston Inspection/Measurement, 3.81
Piston Pin Inspection, 3.76
Piston Ring Installation, 3.81
Piston Ring Installed Gap, 3.81
Polaris Position Sensitive Shock (PSS), 7.59, 7.62
Port Chamfering, 3.74
Position Sensitive Shock Assembly, 7.66, 7.68
Primer System, 4.42
Publication Part Numbers 1.1

R

Radius Rod End Torque Procedure, 6.13
Rear Rear Scissor Stop (RRSS) - XTRA 10 7.25
Rear Rear Scissor Stop (RRSS), XTRA 12 7.31
Rear Suspension Adjustments, XTRA 12 7.31, 7.32

Rear Suspension Tuning, 7.3
Rear Torsion Spring, XTRA 12 Style, 7.32
Rear Track Shock Spring, XTRA 12 Style, 7.31
Recoil Assembly, 3.93
Recoil Disassembly, 3.93
Recoil Starter Spring Replacement, 3.93
Recommended Coolant, 2.12
Reed Valve Inspection, 3.67
Removing the Center Bulb, 2.21
Reverse Cable Adjustment, 2.27, 2.28
Reverse Kit Maintenance, 8.70, 8.71, 8.72
Reverse Kit Service Tips, 8.69
Reverse Mechanism Adjustment, Adjustment, Reverse Mechanism, 8.71
Removing the Side Bulbs, 2.21
Rod End Engagement, IFS, 6.13
Routing - Indicator Lights, 9.2

S

Seat Cover Replacement, 6.37, 6.38, 6.39
Seat Length Matrix, 6.41
Seat Removal, 6.35, 6.36
Service Bulletin Index, 1998 By Model, 1.3, 1.4
Service Tips, 1.14
Set Up Width, Maximum, 6.15
Set Up Width-CRC, 6.22
Shock Removal, XTRA 12 Style, 7.42
Shock Tuning, 7.3
Shop Supplies, 1.6
Ski Installation, 6.32
Ski Skag Removal - IFS, 6.30, 6.32
Ski Skin Installation, 6.31
Ski Spindle Bushing Replacement, 6.27, 6.28
Slide Cutaway, 4.18
Spark Plug Selection, 2.18
Special Tools, VST, Tools, 1.10
Specific Gravity Test, 9.23
Specifications, Ignition Timing, 9.1
Specifications, 1999 IFS Alignment, 6.14
Specifications, Alignment Bar, 6.12
Specifications, Coil Resistance, 9.1
Specifications, Ignition, 1999, 9.1
Specifications, Torque, Body and Steering, 6.1
Specifications, Torque, Engine, 3.1, 3.2, 3.3
Specifications, Torque, Suspension, 7.7
Specifications, Track Drive Data, 1997, 8.6
Specifications, Track, 1999, 8.8
Speed Control Assurance Adjustment, 9.35
Speed Control Assurance Operation, 9.35
Speed Control Assurance Replacement, 9.36
Speed Control Assurance Testing, 9.36
Spider Button Shimming, 5.19
Spider Indexing, 5.24
Spider Roller Installation, 5.18
Spider Roller Removal, 5.18
Spindle Centering, IFS, 6.15
Spindle to Chassis Centering - CRC, 6.22
Spring Tension, Rear, XTRA 10 Style, 7.25
Springs, Optional, XTRA 10 Style, 7.38, 7.39, 7.41
Starter Installation, 9.28
Starter Solenoid Bench Test, 9.28
Starter System, 4.16
Steering Adjustment, CRC Models, 6.22
Steering Alignment, High Performance, XTRA10
CRC / XC10 CRC, 6.21
Steering Arm Installation, 6.29
Steering Assembly Exploded Views, 6.2, 6.11
Steering Inspection, - All Models, 6.12
Storage, 2.29, 2.30, 2.31
Stud Installation, 8.76
Stud Recommendation, 1999, 8.74
Suspension Adjustment, 7.17
Suspension Adjustment - WideTrak Style, 7.14
Suspension Adjustment - XTRA 10 Style, 7.23, 7.36
Suspension Adjustment Features, 7.17
Suspension Adjustment, XTRA Lite 7.17 - 7.18
Suspension Adjustments, Rear, 7.18
Suspension Components - Sport 7.16
Suspension Components - WideTrak 7.12

- Suspension Components, XTRA 10 7.20 - 7.22
- Suspension Components, XTRA 12 7.28 - 7.29
- Suspension Exploded View, Sport 7.15
- Suspension Exploded View, TranSport, 7.13
- Suspension Exploded View, WideTrak Style, 7.11
- Suspension Exploded View, XTRA 10 7.19
- Suspension Exploded View, XTRA 12 7.26 - 7.27
- Suspension Lubrication, 2.10, 2.11
- Suspension Lubrication Points, 7.7
- Suspension Set Up, Rear, XTRA 12 Style, 7.41
- Suspension Troubleshooting, WideTrak, 7.69
- Suspension Troubleshooting, XTRA 10, 7.71
- Suspension Troubleshooting, XTRA 12, 7.72
- Suspension Troubleshooting, XTRA Lite, 7.70

T

- Taillight Assembly Replacement - Indy Style, 6.40
- Taillight Bulb Replacement, 2.22
- Tap Drill Chart, 1.8
- Throttle Opening vs. Fuel Flow, 4.19
- Throttle Synchronization-Mikuni TM38, 4.39
- Throttle Synchronization-Keihin, 4.33
- Throttle Valve, 4.18
- Timing Advance Curves, Typical, 9.6
- Timing Procedure, Three Cylinder CDI, 9.19, 9.20
- Timing Procedure, Twin Cyl Fan CDI, 9.15 - 9.18
- Timing Procedure, Twin Cylinder Liquid CDI, 9.17
- TM38 Exploded View, 4.5
- Toe / Camber / Width Specs, 1999 IFS, 6.14
- Toe Adjustment, Final , 6.19
- Toe Alignment-CRC, 6.24, 6.25
- Torque Procedure, Tie Rod Ends, 6.13
- Torque Specifications, Suspension Mounting, 7.7
- Torque Stop Adjustment, 5.37
- Torsion Bar Installation, 6.33
- Torsion Bar Removal, 6.33
- Track Alignment, Alignment, Track, 2.13
- Track Clip Removal, 7.6
- Track Clip Replacement, 7.6

- Track Maintenance, 2.13
- Track Maintenance/Alignment, 2.13, 2.14, 2.15, 2.16, 2.17
- Track Specifications, 1999, 8.8
- Track Tension, 2.14, 2.15, 2.16, 2.17
- Track Tension Data, 2.14
- Traction, 8.73, 8.74, 8.75, 8.76
- Transmission Disassembly, WideTrak, 8.60
- Transmission, Suspension and Track Assembly, WideTrak, 8.55, 8.59
- Transmission, Suspension and Track Removal, WideTrak, 8.52
- Troubleshooting, Body and Steering, 6.48
- Troubleshooting, Carburetion, 4.49
- Troubleshooting, Clutch, 5.53
- Troubleshooting, Engine, 3.94, 3.95
- Troubleshooting, Ignition System, 9.39
- Troubleshooting, Oil Pump, 3.82
- Troubleshooting, Seat Harness, 9.32
- Troubleshooting, Suspension, WideTrak, 7.69
- Troubleshooting, Suspension, XTRA 10, 7.71
- Troubleshooting, Suspension, XTRA 12, 7.72
- Troubleshooting, Suspension, XTRA Lite, 7.70

V

- VES Adjustment, Maintenance, 700/800 XCR, 3.69, 3.72
- VES Maintenance, 3.38, 3.40
- VM30SS Exploded View, 4.7
- VM34SS Exploded View, 4.8
- VM34SS Exploded View with ACCS, 4.10
- VM38SS Exploded View, 4.9

W

- Water Pump Belt Tension, Domestic Engines, 2.6
- Water Pump Belt Tension, Fuji Engines, 2.7
- Water Trap Service, 4.48
- Wheel Kits, 7.8, 7.10
- Width, Maximum Set Up, 6.15
- Width, Toe, Camber Specifications, 1999 IFS, 6.14