

## Engine

Modified Chrome Plated NLC Engine Covers:

- Alternator Cover
- Clutch Cover
- Clutch Actuator Cover
- Water Pump Cover
- Horn Cover
- Sprocket Cover

Zippers 1320 Big Bore:

- Wiseco 12:1 reverse dome forged pistons
- CNC Port work, oversize stainless valves with high performance spring kit & titanium collars
- Z-Rod Race Grind Cams
- 58mm Throttle Body
- Billet High Velocity Stacks
- H/D Destroyer Injectors
- Oversized K&N Air Filter

Doherty Machine Billet CNC'd Oil Pan

Doherty Machine PowerVents

Bad-VR ECU/ECT Engine Temp Override Switch

V-Mod Billet Crank Case Girdle c/w V&H Case Studs

H/D Slipper Clutch

H/D 2004 Stator

H/D Pro Tuner

CFR 28 tooth Output Sprocket

OMP 3D 72 tooth Final Drive Pulley

Daytona Sensors TwinScan Plus II Onboard Diagnostics and Tuning

Daytona Sensors WEGO IID Wide Band Exhaust Gas Oxygen Sensor with Bosch LSU 4.2 Sensors.

H/D Screamin' Eagle Pro Super Tuner c/w Race & Street Maps

Oil Pressure - Marshall Instruments Engine Turned Liquid Filled Pressure Gauge.

Oil Temp – H/D Chrome Re-Gauged Engine Turned Oil Temp Dipstick

Coolant Temp - Black Nickel-Plated Marshall Instruments Engine Turned Liquid Filled Temp Gauge.

Quick Change Battery Box

Quick Change Topless Air Box

Modified H/D Braided Stainless Coolant Hose Kit & Cover, Black Braided

H/D Update Coolant Bottle Kit

One-of Coolant Hose Clamps

Modified Painted Brandy Candy Coolant Pipes

Painted Brandy Candy Radiator Chin Fairing with Painted Custom Screen Inserts

Black Braided Coolant Radiator Hoses

H/D Chrome Cam Cover Kit

H/D Chrome Billet Cam Cover Medallion Kit

H/D Chrome Secondary Cam Tensioners

Chrome Front Stabilizer Link

Chrome Front Top Engine Mount

H/D Chrome Hardware Kit - Alternator Cover and Front Sprocket Cover

H/D Chrome Hardware Kit - Clutch Housing and Water Pump

H/D Chrome Hardware Kit - Cam Cover

Chrome Upper Crankcase Plug

Chrome Motor Mount & Stabilizer Link Hardware

Chrome Crankcase Hardware

Chrome Oil Pan Hardware

Polished Head Fins

Painted Brandy Candy Cases, Heads, Throttle Body, Thermostat Housing & Cover, Starter Housing & Solenoid Cover, Radiator Housing & Chin Spoiler, Horn Cover, and Oil Filter Mount.

Fitzgerald Motorsports Chrome Plated Engine Badge Plates

Modified MotoGadget M-Lock Digital RFID Keyless Ignition Lock.

One-of Adjustable Painted Stainless Off-Set Shift Rod

H/D Painted Shift Shaft Cover

**Speed Shift**

Modified Translogic / V&H Speed Shifter

One-of Chrome Plated LED Shift Light

Modified Frank Clark Frame Mount Bracket

Modified Moto-Gadget M-Switch Shift Control Switch with One-of Back Plate.

**Nitrous System:**

Modified Boss-Noss Dry 50 Shot NO2 System

Arlen Ness Big Shot Adjustable Fuel Tuner

DynoTune Lean Detector

DynoTune 2 Stage Window Switch

DynoTune Purge Solenoid

Six Bottle System - 4 (3.5oz) Rear Shock Mount, 2 (12oz) Front Frame Mount

Spiegler 3AN Black Braided Custom Lines c/w Black Nickel Plated Fittings

Custom Line Distribution Blocks.

Solid Tube Dual Purge Lines.

Modified Moto-Gadget M-Switch NO2 Control Switch with One-of Back Plate.

Modified Moto-Gadget Handlebar NO2 LED Status Indicator Pod

Manual Pushbutton or Fully Automatic Control

One-of Black Nickel Plated Valve Knobs

One-of Frame Mounted Front Bottle Brackets

One-of Rear Shock Mounted Bottle Brackets

One-of Gauge / Control Switch Rear Cylinder Mount Bracket

One-of Engine Turned Liquid Filled NO2 Pressure Gauge

Turned Low Profile Bottle Mounting Hardware

**Exhaust System:**

Modified Bub 7 Slip-on Free Flow Muffler  
Modified Bub 7 Slip-on Street Legal Muffler  
Modified H/D Stock Exhaust / Muffler Mount Bracket

One-of Black Nickel Plated Exhaust Header  
One-of Black Nickel Plated 2 into 1 Collector  
One-of Chrome Plated Heat Shields  
One-of Chrome Plated Muffler Clamp

**Front End / Suspension:**

Rizoma Chrome Plated Triple Tree's  
Chrome Triple Tree Pinch Bolts  
Modified H/D Chrome Fork Sliders  
Racetech Springs and Gold Emulators.  
Modified Chrome Works/FCR Suspension Fork Sub-tanks c/w One-of fork Mount Brackets.  
Modified H/D Chrome Fork Tube Nut Covers.  
Billet Chrome Fork Slider Dust Covers  
One-of Front Fork Protectors c/w Integrated Turn / Running Light LED's.  
One-of Front Axle Bolt Covers c/w Integrated Turn / Running Light LED's.  
Modified Chrome Plated Rizoma Front Fork Boots.

**Rear Suspension:**

Modified Chrome Arnott Air Shocks c/w Chrome Plated Fittings and Turned Low Profile Hardware.  
Integrated Internal Low Pressure Safety Stops  
One-of Lower Frame Compressor Mount Bracket.  
One-of Gauge / Control Switch Mount Bracket.  
Marshall Instruments Engine Turned Liquid Filled Air Pressure Gauge.  
Adjustable Air Pressure Sensor with LED Low Pressure Alarm Indication.

**Frame / Chassis / Body Panels**

Modified H/D Kickstand  
Modified H/D Upper Front Frame Covers with Painted Stainless Screens  
Modified H/D Inner Rear Fender  
Modified H/D Front Fender Mount Bracket  
H/D Exotic Paint Set  
H/D Painted Radiator Cover/Spoiler c/w One-of Painted Stainless Screens  
Painted and Weld Dressed Stock H/D Frame  
Painted Breathless Performance Carbon Fiber Fuel Cell Covers  
Modified Tiger Racing Rear Turn-signal Mount/License Plate Mount  
Billet Boys Chrome License Plate Frame with Integrated Run/Brake and License Plate Light LED Indicators.  
One-of Painted Stainless Screen Upper and Lower Rear Frame Covers  
One-of Rear Engine Mount / Swing Arm Pivot Bracket with integrated Mid Peg Mount.  
One-of Rear Left Side False Engine Mount Bracket with integrated Mid Peg Mount.

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One-of Horn Mount / Control Switch Pod

One-of Belt Guard

One-of Rear Axle Bolt Covers c/w Integrated Turn / Run Side-marker LED's.

One-of Chromoly Air Assisted Centre / Display Stand.

One-of Angle Adjustable Windscreen

One-of Front Fender Mount Bolt Covers with Integrated Front Wheel Show LED Pods.

Modified, Chrome Plated, Internally Wired and Plumbed, CFR Series II 3 Piece Swing Arm c/w One-of Rear Axle Bolt Covers with Integrated Red Turn / Run Side-marker LED's

### **Wheels / Brakes / Tires**

#### Front:

Chrome Plated OMP 3D Machined 19 x 3.5 Five Spoke Wheel

Perimeter Wave Cut Front Rotor

Chrome Plated OMP 3D Machined 6 Piston Caliper.

Diamond Engineering 12 Point Stainless Banjo Bolts

Metzler ME880 120/70zr-19 Tire

2AN Micro Braid Black Steel Braided Brake Line and Solid Chrome Plated Stainless Brake Line.

Black Nickel Plated & Chrome Plated 2AN Fittings.

Staubli Male/Female Dry Break Hydraulic Quick Disconnect.

Speed Bleeder.

#### Rear:

Chrome Plated OMP 3D Machined 18" x 8.5" Five Spoke Wheel

Chrome Plated OMP 3D Machined Five Spoke Matching Pulley

Chrome Plated OMP 3D Machined 6 Piston In-bore Caliper.

Diamond Engineering 12 Point Stainless Banjo Bolts

In-bore Floating Brake Rotor with Chrome Plated Carrier

Metzler ME880 240/40VR18 Tire

2AN Micro Braid Black Steel Braided Brake Line.

Staubli Male/Female Dry Break Hydraulic Quick Disconnect.

Black Nickel Plated & Chrome Plated 2AN Fittings.

Speed Bleeder.

Modified H/D Rear Brake Master Cylinder Cover Kit.

### **Seat**

#### One Up Seat:

Bitchin Seats Modified Seat Pan

Bitchin Seats Italian Smooth and Perforated Leather

Bitchin Seats Black Nickel Plated Seat Latch and Hinge

Black Nickel Plated Seat Stop

H/D Seat Tether

#### Two Up Seat:

Bitchin Seats Modified Seat Pan

Bitchin Seats Italian Smooth and Perforated Leather

Bitchin Seats Black Nickel Plated Seat Latch and Hinge

Black Nickel Plated Seat Stop

H/D Seat Tether  
H/D Painted Fender Base Plate  
H/D Painted Mini Backrest  
Bitchin Seats Perforated Leather Mini Backrest Pad

### **Hand Controls / Handlebars**

Modified OMP 3D Chrome Brake Master Cylinder  
Modified OMP 3D Chrome Clutch Master Cylinder  
OMP Chrome 3D 3 Button Control Switches  
Modified Chrome Plated Vario Adjustable Brake and Clutch Levers  
  
Modified Chrome Plated Rizoma Instrument Housing.  
Modified Chrome Plated Internally Wired Rizoma Handlebar Riser  
Modified Chrome Plated Rizoma Pro Guard's  
Modified Chrome Plated Rizoma Contact Grips  
Modified Chrome Plated Rizoma Senso Mirrors  
OMP Control Slot Stainless Mirror Caps  
Chrome Riser Bolts  
Diamond Engineering 12 Point Stainless Mirror Mount Hardware  
  
Modified Steamline Internal Throttle  
One-of Throttle Cable End Bracket  
US Speedo Black Nickel Plated Stainless Instrument Overlay with Interchangeable Red, White and Blue Back Lighting.  
  
Chromoly Chrome Plated Internally Wired Clip-on Handlebars  
Modified Moto-Gadget M-Switch NO2 Control Switch with One-of Back Plate.  
Modified Moto-Gadget M-Switch Shift Control Switch with One-of Back Plate.  
Modified Moto-Gadget Sureshift Gear Indicator/Tach Ring/Shift Light  
Modified Moto-Gadget Handlebar Mounted NO2 LED Status Indicator Pod  
Modified Moto-Gadget Handlebar Mounted Speed Shift - TwinScan - Air Pressure Alarm LED Status Indicator Pod  
  
One-of Handlebar Riser Cable/Line Cover  
One-of Adjustable Lever Adapters  
One-of Mirror Adapters  
One-of Adjustable Brake and Clutch Lever Perches  
One-of Front Turn Signal Mounts  
One-of Chrome Plated LED, Speed Shift Light

### **Foot Controls**

OMP 3D Chrome Forward Controls  
OMP 3D Chrome Mid Pegs  
OMP 3D Chrome Passenger Pegs  
OMP 3D Chrome Passenger Peg Mount Brackets  
Chrome Footpeg Mounting Kit  
Polisher Stainless Footpeg Pins  
  
One-of Painted Stainless Off-Set Adjustable Shift Rod  
One-of Rear Engine Mount / Swing Arm Pivot Bracket with integrated Mid Peg Mount.  
One-of Rear Left Side False Engine Mount Bracket with integrated Mid Peg Mount.

## **Security System**

H/D Factory Security System

H/D Smart Siren II

H/D Security System Pager Receiver II

## **Lighting**

H/D Updated Clear Lens Headlight c/w SPP Precision Optics Superwhite bulb

Heavy Cycles LED Stage 2 Taillight

Kellermann Painted Micro Rhombus DF Rear Turn Signals with Amber Turn LED's and Red Run LED's

Kellermann Chrome Micro Rhombus Amber LED Front Turn Signals

Kuryakyn Front Run/Turn Controller (front turns and side markers)

Kuryakyn Front Run/Turn Controller (rear side markers)

Eurocomponents Momentary Pushbutton Converter Relays

Billet Boys Chrome License Plate Frame with Integrated Run/Brake and License Plate Light LED Indicators.

Signal Dynamics Blue LED Rear Marker

One-of Front and Rear Turn Signal Mounts

One-of Front Fork Protectors with Integrated Amber Turn / Run LED's.

One-of Front Axle Bolt Covers with Integrated Amber Turn / Run Side-marker LED's.

One-of Rear Axle Bolt Covers with Integrated Red Turn / Run Side-marker LED's.

## **Indicators**

Left Handlebar 5 LED Pod:

- Speed Shift Enabled

- TwinScan II Data Record Enabled

- Rear Shock Low Air Pressure Alarm

- Two Spare LED's

Right Handlebar 5 LED Pod:

- NO2 Armed

- NO2 Ready

- NO2 Auto Mode Enabled

- Lean Detector Alarm

- One Spare LED

Left Handlebar Speed Shift LED Indicator

Right Handlebar Gear Indicator / Tach Ring / Normal Riding Shift Light LED Indicator

NO2 Pressure Gauge Mount Indicators:

- NO2 Armed

- NO2 Ready

- NO2 Auto Mode Enabled

- Lean Detector Alarm

Air Pressure Gauge Mount:

- Rear Shock Low Air Pressure Alarm

Horn Mount Control Bracket:

- Twin Scan Power ON LED

## Speed Shift Power ON LED

### **Show LED's**

Radiantz and Signal Dynamics Red LED's  
Wago Lever Nut Distribution Blocks  
Radiantz Turn-onz Remote Transmitter / Reciever  
No Exposed Wiring

#### LED Locations:

- Left & Right Front Wheel (fender mount bolt covers)
- Radiator Cover
- Left & Right Upper Side Covers
- Left & Right Engine Frame Rails
- Front Upper Engine Mount
- Horn Cover
- Front Sprocket Cover
- Left & Right Upper Fuel Cell Covers
- Left & Right Lower Fuel Cell Covers
- Left & Right Rear Wheel (internal to swing arm)

### **Paint & Plating**

H/D Exotic Tribal Paint Set  
Brandy Candy Paint – Cyclemania  
Chrome & Black Nickel Plating – Meclec Metal Finishing

### **Machine Work**

CNC & Mill Work – Trillion Industries

### **Electrical**

Modified Stock Wiring Harnesses.  
Duetch ASU and ASL Connectors.  
Remote Control Garage Door Opener  
Battery Charging Harness Kit c/w Powerlet Outlet Plugin  
Painted Brandy Candy Voltage Regulator  
Flexo Clean Cut Wire Braid  
Wago Lever Nut Distribution Blocks  
Ultra Miniature Heavy Duty Toggle Switches  
MotoGadget M-Lock Digital RFID Keyless Ignition Lock

### **Documentation**

#### Digital Library:

- Component Library c/w Manufacturers Installation & Service Manuals
- Factory Owners Manual
- Supplemental Owner's Manual
- Factory Service & Electrical Diagnostic Manuals
- Supplemental Service Manual
- Factory Parts Manual
- Supplemental Operating Mode Manual

## 2003 Harley Davidson VRSCA Tech Sheet

- As built Machine Drawings
- As built Schematic Drawings
- Specifications
- Setup and Calibration Tables
- Original Invoices
- Software Manuals
- Race & Street Tuning Maps

### **Specialty Tools**

- Daytona Sensors TwinScan Plus II
- Daytona Sensors WEGO IID.
- H/D Screamin' Eagle Pro Super Tuner
- V-Rod Specialty Tool Kit
- Electrical Diagnosis Troubleshooting Kit