



#### 427RX

#### **Technical Information**

Horsepower (maximum): 675 hp Torque (maximum): 540 lbs./ft. Displacement: 427 cu. in.

Block: Dart Iron Eagle, 9.5" deck, 4-bolt main caps Crankshaft Type: Forged 4340 Steel (Internally Balanced) Connecting Rod Type: Forged 4340 Steel "H-Beam"

Compression Ratio: 13.5:1 Pistons: Forged Aluminum

Timing Set: Multi-Index w/ HY-VO Chain Camshaft Info: ROUSH Proprietary

Lifter Type: Solid Roller Cylinder Heads: Aluminum

Intake Runner Volume: 225 cc, fully CNC Ported

Combustion Chamber Volume: 61 cc Valve Sizes: 2.08" Intake 1.600" Exhaust

Rocker Arm Ratio: 1.6:1

Spark Plugs: Autolite 3923 (or comparable) Intake Manifold: Edelbrock Victor Single Plane

Fuel System: Holley HP 1000 CFM Carburetor w/ Mechanical Secondaries

Fuel Requirements: 110 Octane Max. Recommended RPM: 7,500 Firing Order: 1-3-7-2-6-5-4-8

Timing: 31 to 34 degrees @ 4,000 rpm (not to exceed 35)

Oil Pump: High Output – Adjustable

Oil Pan: 8 qt. Wet Sump (several styles available) Oil Filter: Motorcraft FL-1HP (or comparable)

Oil Weight: 10w30 Mobil1 synthetic Flywheel/Flexplate: Available

Starter: Available



#### **451SRFE**

#### **Technical Information**

Horsepower (maximum): 455 hp Torque (maximum): 525 lbs./ft. Displacement: 451 cu. in.

Genesis Iron (Pending Availability) or Shelby Aluminum Block

Wiseco Forged Aluminum Pistons/4.250" Bore & 10.0:1 CR

Plasma-Moly File Fit Rings

SCAT Nodular Iron Crankshaft/3.980" Stroke SCAT 4340 Steel "H" Beam Connecting Rods

ROUSH Proprietary Hydraulic Roller Camshaft & Lifters

Harland Sharp Shaft Style Roller Rocker Arms

Edlebrock Aluminum Cylinder Heads MSD Billet Distributor With Wires

Melling High Volume Oil Pump

8 Qt. Canton Fully Baffled Road Race Oil Pan with

Powdercoated Finish

ROUSH Logo Valve Covers with Billet Breather, PCV and Oil Fill

Billet Remote Oil Filter Adapter with #10 AN Inlet/Outlet Fittings, Oil

Pressure Adjustment and Gauge Port

Mechanical Fuel Pump

Edelbrock Performer RPM Dual Plane Intake Manifold

Holley 770 CFM Vacuum Secondary Carburetor

Carburetor Fuel Log with ROUSH Billet In-line Filters

Edelbrock Aluminum Water Pump

100 Amp Single Wire Alternator, Billet Alternator Bracket

and Billet Pulleys

**ROUSH Billet Air Cleaner Assembly** 

**ROUSH Billet Wire Looms** 

McLeod Steel Flywheel

E-Coated Inspection Plate

2 Year Warranty with Dyno Documentation



#### 451RFE

#### **Technical Information**

Horsepower (maximum): 500 hp Torque (maximum): 575 lbs./ft. Displacement: 451 cu. in.

Genesis Iron (Pending Availability) or Shelby Aluminum Block Wiseco Forged Aluminum Pistons/4.250" Bore & 10.0:1 CR

SCAT Nodular Iron Crankshaft/3.980" Stroke SCAT 4340 Steel "H" Beam Connecting Rods

ROUSH Proprietary Hydraulic Roller Camshaft & Lifters

Harland Sharp Shaft Style Roller Rocker Arms

Edlebrock Aluminum Cylinder Heads

MSD Billet Distributor With Wires

Melling High Volume Oil Pump

8 Qt. Canton Fully Baffled Road Race Oil Pan with

Powdercoated Finish

ROUSH Logo Valve Covers with Billet Breather, PCV and Oil Fill

Billet Remote Oil Filter Adapter with #10 AN Inlet/Outlet Fittings, Oil

Pressure Adjustment and Gauge Port

Mechanical Fuel Pump

Edelbrock Performer RPM Dual Plane Intake Manifold

Holley 870 CFM Vacuum Secondary Carburetor

Carburetor Fuel Log with ROUSH Billet In-line Filters

Edelbrock Aluminum Water Pump

100 Amp Single Wire Alternator, Billet Alternator Bracket and Billet

**ROUSH Billet Air Cleaner Assembly** 

**ROUSH Billet Wire Looms** 

McLeod Steel Flywheel

E-Coated Inspection Plate

2 Year Warranty with Dyno Documentation



#### **511SRFE**

#### **Technical Information**

Horsepower (maximum): 540 hp est.

Torque (maximum): 600 lbs./ft.

Displacement: 511 cu. in.

Shelby Aluminum Block w/ Bushed Lifter Bores

SCAT Nodular Iron Crankshaft/4.250" Stroke

SCAT H-Beam Connecting Rods

Wiseco Forged Pistons/4.375" Bore & 10.0:1 CR

Plasma-Moly File Fit Rings Edlebrock Medium-Riser CNC Ported Aluminum Cylinder

Heads w/ Big Valves

ROUSH Proprietary Hydraulic Roller Camshaft & Lifters

Harland Sharp Shaft Style Roller Rocker Arms

Edelbrock Victor Single Plane Intake Manifold

850 CFM Holley Carburetor

MSD Billet Distributor With Wires

Melling High Volume Oil Pump

8 Qt. Canton Fully Baffled Road Race Oil Pan w/ Powdercoat Finish

ROUSH Logo Valve Covers with Billet Breather, PCV & Oil Fill Cap

Billet Remote Oil Filter Adapter with # 10 AN Fittings, Oil Pressure

Adjustment & Gauge Hook-Up

Mechanical Fuel Pump

Carburetor Fuel Log w/ ROUSH In-Line Filters

Complete FEAD w/ Alternator, Billet Alternator Bracket, Billet

Pulleys & Edelbrock Water Pump **ROUSH Billet Air Cleaner Assembly** 

**ROUSH Billet Wire Looms** 

McLeod Steel Flywheel

E-Coated Inspection Plate

2 Year/24K Mile Limited Warranty w/ Dyno Documentation

• Engines shown in catalog may contain optional accessories



#### 511RFE

#### **Technical Information**

Horsepower (maximum): 600 hp est. Torque (maximum): 625 lbs./ft.

Displacement: 511 cu. in.

Shelby Aluminum Block w/ Bushed Lifter Bores

SCAT Nodular Iron Crankshaft/4.250" Stroke

SCAT H-Beam Connecting Rods

Wiseco Forged Pistons/4.375" Bore & 10.0:1 CR

Plasma-Moly File Fit Rings

Edlebrock Medium-Riser CNC Ported Aluminum Cylinder Heads w/ Big Valves

ROUSH Proprietary Hydraulic Roller Camshaft & Lifters

Harland Sharp Shaft Style Roller Rocker Arms

Edelbrock Victor Single Plane Intake Manifold

850 CFM Holley Carburetor

MSD Billet Distributor With Wires

Melling High Volume Oil Pump

8 Qt. Canton Fully Baffled Road Race Oil Pan w/ Powdercoat Finish ROUSH Logo Valve Covers with Billet Breather, PCV & Oil Fill Cap Billet Remote Oil Filter Adapter with # 10 AN Fittings, Oil Pressure

Adjustment & Gauge Hook-Up

Mechanical Fuel Pump

Carburetor Fuel Log w/ ROUSH In-Line Filters

Complete FEAD w/ Alternator, Billet Alternator Bracket, Billet

Pulleys & Edelbrock Water Pump

**ROUSH Billet Air Cleaner Assembly** 

**ROUSH Billet Wire Looms** 

McLeod Steel Flywheel

E-Coated Inspection Plate

2 Year/24K Mile Limited Warranty w/ Dyno Documentation



#### 511IRFE

#### Technical Information

Horsepower (maximum): 600 hp est.

Torque (maximum): 625 lbs./ft.

Displacement: 511 cu. in.

Shelby Aluminum Block w/ Bushed Lifter Bores

SCAT Nodular Iron Crankshaft/4.250" Stroke

SCAT H-Beam Connecting Rods

Wiseco Forged Pistons/4.375" Bore & 10.0:1 CR

Plasma-Moly File Fit Rings

Edlebrock Medium-Riser CNC Ported Aluminum Cylinder Heads w/ Big Valves

ROUSH Proprietary Hydraulic Roller Camshaft & Lifters

Harland Sharp Shaft Style Roller Rocker Arms

ROUSH 8-Stack Electronic Fuel Injection System w/ ROUSH Proprietary Calibration

Mallory Billet Distributor With Wires

Melling High Volume Oil Pump

8 Qt. Canton Fully Baffled Road Race Oil Pan w/ Powdercoat Finish

ROUSH Logo Valve Covers with Billet Breather, PCV & Oil Fill Cap

Billet Remote Oil Filter Adapter with # 10 AN Fittings, Oil Pressure

Adjustment & Gauge Hook-Up High Pressure Electric Fuel Pump

Complete FEAD w/ Alternator, Billet Alternator Bracket, Billet

Pulleys & Edelbrock Water Pump

ROUSH Individual "Snap-On" Air Cleaner Assemblies

ROUSH Billet Wire Looms

McLeod Steel Flywheel

E-Coated Inspection Plate

2 Year/24K Mile Limited Warranty w/ Dyno Documentation



#### 588R

#### Technical Information

Horsepower (maximum): 630 hp est. Torque (maximum): 690 lbs./ft.

Displacement: 588 cu. in.

Block: Ford Racing A-460/Eliminator Sportsman

Crankshaft Type: Nodular Iron (Externally Balanced)

Crankshaft Stroke: 4.500"

Connecting Rod Type: Forged 4340 Steel "H-Beam"

Compression Ratio: 10.25:1

Pistons: Forged

Timing Chain: Double Roller Camshaft Info: ROUSH Proprietary

Lifter Type: Hydraulic Roller

Cylinder Heads: Aluminum

Intake Runner Volume: 290 cc Super cobra Jet

Combustion Chamber Volume: 61 cc

Valve Sizes: 2.200" Intake 1.760" Exhaust

Rocker Arm Ratio: 1.7:1

Spark Plugs: Autolite 3923 (or comparable)

Intake Manifold: Single Plane

Fuel System: Holley HP 1000 CFM Carburetor

w/ Mechanical Secondaries

Fuel Requirements: Premium Unleaded (minimum)

Max. Recommended RPM: 6,500

Firing Order: 1-5-4-2-6-3-7-8

Timing: 31 to 34 degrees @ 4,000 rpm (not to exceed 35)

Oil Pump: High Output - Adjustable

Oil Pan: Dual Sump (FOX Mustang)/Other Configurations Available

Oil Filter: Motorcraft FL1-HP (or comparable)

Oil Weight: 10w30

Flywheel: Steel, 157 Tooth (Aluminum Available) Externally Balanced Starter: Ford Motorsports Super High Torque (1.6kw) (or equivalent)



#### 588RX COMP.

#### **Call For Information**



#### 4.6/4V/5.3L

Available Late 2006

• Engines shown in catalog may contain optional accessories



#### **ROUSH 9MM SPARK PLUG WIRE SET**

ROUSH Custom Ignition 9MM Wire Sets feature low resistance for minimum spark loss. Distributed Resistance Core 1500 ohm and resistant to fuels, oils and solvents. "ROUSH" identification and cylinder number appears on each wire. 45 Degree Boots.

 402238
 302/351 Wire Set Red

 402239
 302/351 Wire Set Blue

 402240
 302/351 Wire Set Black

 402241
 429/460 Wire Set Red

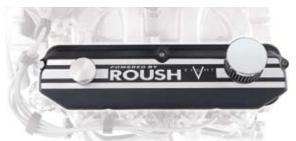
 402242
 429/460 Wire Set Blue

 402243
 429/460 Wire Set Black



#### **402R POLISHED VALVE COVER**

R2112001 302/351 Polished Aluminum



#### **451 VALVE COVER**

#### Includes accessories

402088 302/351 Pent Roof Style Black Powder Coated 402089 390/427/428 Pent Roof Style Black Powder Coated

402090 429/460 Black Powder Coated



#### **302/351 VALVE COVER**

302/351 2 Piece Billet black powder coated with integrated wire looms, accessories included

401827 302/351 2 Piece Billet Black Powder Coated

Valve Cover



#### **402R RED VALVE COVER**

401391 302/351 Polished Billet Finned, Inc. 1 Breather



#### **402R BLACK VALVE COVER**

401392 302/351 Polished Billet Black Finned, Inc. 1 Breather



#### **351 BILLET THERMOSTAT HOUSING**

#### 351 billet thermostat housing with double o-ring, includes hardware

401910 351 Billet Thermostat Housing

401911 351 Polished Billet Thermostat Housing



#### **427/428FE BILLET THERMOSTAT HOUSING**

## 427/428FE billet thermostat housing with double o-ring, includes hardware

401912 427/428FE Billet Thermostat Housing

401913 427/428FE Polished Billet Thermostat Housing



#### **302/351 TIMING POINTER**

### 302/351 laser cut stainless steel, must use ROUSH damper PN 872034

402461 302/351 Laser Cut Stainless Steel



#### **427FE TIMING POINTER**

#### 427/428 laser cut stainless steel, must use ROUSH damper PN 872057

402462 427/428 Laser Cut Stainless Steel



#### 302/351 BILLET WIRE LOOM

400094 Black Anodized 401409 Red Anodized 401410 Clear Anodized



#### **402R BLACK COVER**

401387 302/351W/427/428FE/429/460 Billet Oval Air Cleaner

With K&N 2.5" Element, Black Powder Coat

401915 302/351W/427/428FE/429/460 Billet Oval Air Cleaner

With K&N 2.5" Element

401386 302/351W/427/428FE/429 Billet Oval Air Cleaner With K&N 2.5" Element, Black Powder Coat for Cobra

Replica Application



#### **INDIVIDUAL AIR CLEANERS**

Individual air cleaners for TWM 3.380 OD throttle bodies with K&N filter

401390 Individual Air Cleaner



#### 302/351 2 STACK AIR CLEANER

401919 302/351 Polished Billet 2 Stack Air Cleaners for TWM 3.380 OD Throttle Bodies, Optional Finishes Available



#### 302/351 4 STACK AIR CLEANER

401917 302/351 Polished Billet 4 Stack Air Cleaners for TWM 3.380 OD Throttle Bodies, Optional Finishes Available



#### LASER CUT STAINLESS SCREEN

401921 Laser Cut Stainless Screen for 3.380 TWM Throttle Bodies



#### **FUEL INJECTION AIR CLEANERS**

401390 Individual for Each Stack (Snap On) 401389 One Piece Aluminum Air Box (Not Shown)



#### **FUEL DELIVERY**

These components keep your fuel system leak-proof and attractive. Two fuel filters included.

R21100001 Fuel Log w/ Braided Steel Hose and AN Fittings 401411 Billet NASCAR Style 2 Piece Fuel Filters (Only)



#### **OIL PAN**

#### 8 qt. oil pan with silver and clear powdercoat finish

401400 302W Front Sump Road Race 401402 351W Front Sump Road Race 401399 302W Dual Sump Road Race 401401 351W Dual Sump Road Race 402465 390/427FE Front Sump Road Race



#### 390/427FE REMOTE OIL FILTER ADAPTER

401922 Remote Oil Filter Adapter with Oil Pressure Gauge Port



#### **PCV VALVE**

402463 PCV Valve with Billet Base and Cover

402464 K&N Breather Assembly with Billet Base (Not Shown)



#### **302/351 CYLINDER HEADS**

These cylinder heads are ROUSH engineered and branded, fully CNC Ported with Ferrera valves and stainless steel retainers.

 401403
 185cc - Aluminum

 401404
 185cc - CNC Ported

 401405
 205cc - CNC Ported

 401406
 225cc - CNC Ported



#### BILLET ALTERNATOR BRACKET KIT

Billet alternator bracket kit. Must use Weind Water Pump PN 8210WIN and Powermaster Alternator PN 8002RR

R21020013 302W & 351W Unpolished 401924 302W & 351W Polished



#### **BILLET V-BELT PULLEY KIT**

3 Pc. Billet V-Belt Pulley Kit. Must use Weind Water Pump PN 8210WIN and Powermaster Alternator PN 8002RR

R21020001 302/351W Unpolished 402466 302/351W Polished



#### 302/351W BILLET POLY-V BELT PULLEY KIT

#### 3 Pc. Billet Poly-V belt pulley kit, pulleys only

302/351W Unpolished 402467 402468 302/351W Polished



#### **COMPLETE V-BELT FEAD KIT**

#### Must use Weind Water Pump PN 8210WIN and Powermaster Alternator PN 8002RR

R21020015 302W Unpolished 302W Polished 402469 351W Unpolished R21020002 351W Polished 402470



#### **COMPLETE POLY-V BELT FEAD KIT**

#### Must use Weind Water Pump PN 8210WIN and Powermaster Alternator PN 8002RR

402471 302W Unpolished 302W Polished 402472 402473 351W Unpolished 402474 351W Polished



#### 302/351 GT40 POLY-V BELT FEAD

Complete Poly-V Belt FEAD including alternator and A/C. For GT-40 replica vehicles.

402481 Unpolished Polished 402482



#### **427FE BILLET POLY-V BELT PULLEY KIT**

402475 3 Pc. 390/427FE Unpolished, Pulleys Only 402476 3 Pc. 390/427FE Polished, Pulleys Only 402477 Billet Alternator Bracket, 390/427FE Unpolished 402478 Billet Alternator Bracket, 390/427FE Polished 402479\* Billet Alternator Bracket, 390/427FE Unpolished 402480\* Billet Alternator Bracket, 390/427FE Polished



#### **TRU-TRAC SYSTEM**

#### Billet specialties tru-trac system.

401407 302/351W Polished 401925 390/427FE Polished 402483 429/460

#### **RETAIL PARTS WARRANTY**

All retail parts carry a 90-day warranty from the date of purchase. This warranty covers defects in materials or workmanship, and does not include (i) normal wear and tear, environmental conditions, improper installation; (ii) road hazards, misuse, abuse, neglect, accidents, collision, fire, theft, freezing, vandalism, riot, explosion, or objects striking the vehicle; (iii) misusing the vehicle, such as driving over curbs, overloading, racing, or using the vehicle as a stationary power source; (iv) altering, disassembling or modifying the parts; (v) defects caused or induced by failures, breakdowns, or damage by other parts. components or the vehicle; (vi) subjecting the parts to excessive moisture or water or any motor vehicle fluids (e.g.: oil, anti-freeze, battery acid, brake fluid, etc.); (vii) acts of God, natural disasters and other similar causes beyond the reasonable control of ROUSH; or (viii) application of chemicals that affect the parts. This Limited Warranty does not cover surface deterioration of paint, trim, and appearance items that result from use and/or exposure to the elements. such as stone chips, scratches, bird droppings, lightning, hail, windstorm, dings, dents, earthquake, road salt, tree sap, water or flood.

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#### **ROUSH PERFORMANCE COMPETITION PARTS ARE SOLD** WITH NO WARRANTY

Each roush performance competition part is sold "as is", "where is", "with all faults", and without any express guarantees or warranties whatsoever. To the greatest extent permitted by state and federal law, roush performance disclaims all express and implied warranties including, without limitation, the warranties of merchantability and fitness for a particular purpose; regardless if a particular purpose is identified in association with the roush competition part including, without limitation, any sales literature or as a result of representations made by roush or any party selling or providing roush competition parts. Roush expressly disclaims all liability for direct, indirect, special incidental, or consequential damages (regardless if roush has been notified of the possibility of such damage), including, without limitation, injury to persons including death; damage to or loss of property or equipment; cost of labor; loss of profits, winnings or revenue; cost of purchase, cost of substitute products or replacement of goods; the cost of roush competition parts or any vehicle components or parts affected by the roush competition parts; down time costs; claims of buyer's end users for such damages that were in any way derived or resulted from the recommendation, installation or use of roush competition parts.

Because race vehicle manufacturing, preparation and testing, and racing vehicles in general, are inherently dangerous activities that may cause serious bodily injury and/or death to those who use such products and/or participate in such activities, in no event shall roush performance's liability, whether if arising in tort (including negligence or strict liability), contract or otherwise exceed the cost of the roush competition part.

If a roush competition part proves defective following its purchase, the buyer and not roush performance, the manufacturer, distributor, or retailer shall he solely responsible for all costs incurred to service or repair the defective roush competition part. The end-user is solely responsible and assumes all risk associated with the performance of the roush competition part.

No roush competition part is street legal or certified under federal motor vehicle safety standards or regulations. Therefore, roush competition parts are not intended or certified for use on public roads.

#### **ROUSH WHEEL WARRANTY**

Forged wheels 3 vears Cast/Liquid forged wheels 2 years Painted wheels 1 vear

#### FOR ALL DEALER PARTS ORDERS, A PURCHASE ORDER IS REQUIRED.

Shipping and handling charges are the responsibility of the Customer/Dealer. These charges vary widely depending on part size and weight, and will be quoted to you separately as part of your order.

ROUSH Performance routinely ships by FedEx ground, or for oversized packages, common carrier. For an additional charge, priority shipping is available. Please inspect any package for damage before accepting it. When shipping damage has occurred, make a claim with the carrier.

#### Backorders

When backorders occur, we will hold that portion of the order, Customer's/ Dealer's account will not be billed for any item until it is shipped.

#### Returns/Exchanges

When returning retail parts, call 1-800-59ROUSH to obtain a Return Authorization (RA). Once obtained, this RA number must be clearly marked on the returned package. The cost of shipping and handling is the Customer's/Dealer's responsibility. In addition, the parts MUST be in their original packaging in order to receive credit. For your protection, insure the package for its full value.

All returns must be sent to: ROUSH Performance Products

28156 Plymouth Rd., Livonia, MI 48150.

Upon receipt of your package, a ROUSH representative will inspect the returned item(s), verify items and quantities, and the condition of the part(s). Once this is done, a credit will be issued, less a 15% restocking fee. NO RETURNS will be allowed for orders more than 30 days old. Keep your shipping receipts until you have received credit for your return. ROUSH Performance reserves the right to require proof of return shipment, in the form of a receipt, in order to process your credit.

#### Disclaimer

Product specifications and availability are subject to change without notice. Compliance with all National, State, Provincial or local laws is the responsibility of the Customer/Dealer. All claims are based on controlled tests and actual results may vary based on individual applications. Due to availability and upgrades, the products you receive could be different from photographs in the catalog. ROUSH shall not be liable for any ticketed violations incurred by the Customer/Dealer and arising from the installation of any part or system sold from this catalog.

ROUSH

**POLICUES** 

# PERFORMANCE



34 NATIONAL CHAMPIONSHIPS

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