

GRAND TOURING GARAGE

March 2009

1970 MUSTANG SPECIFICATIONS

“TRANS-CAMMER”

DESIGNER - BUILDER

**CONTACT: PHILIP KOENEN
GRAND TOURING GARAGE
67839 BEAVER LOOP ROAD
NORTH BEND, OREGON 97459
(541) 759-2454 - OFFICE
(541) 759-2427 - FAX
(541) 252-6877 - CELL**

PROJECT OBJECTIVE

1. TO CREATE A VEHICLE THAT IS INSTANTLY RECOGNIZABLE, YET DIFFERENT. TO INCORPORATE SOME OF THE BEST FEATURES FOUND ON THE ORIGINAL TRANS-AM ROAD RACING AUTOMOBILES, UTILIZING STATE OF THE ART COMPONENTS AND CONSTRUCTION TECHNIQUES. SELECT A UNIQUE AND REVERED ENGINE AS THE DRIVING FORCE.
2. DESIGN AND ENGINEER THE VEHICLE TO NOT ONLY PERFORM AS A STREET LEGAL AUTOMOBILE BUT ONE THAT IS ALSO CAPABLE OF COMPETING IN OPEN ROAD RACE TYPE EVENTS AND AT ROAD RACE TRACKS LIKE LAGUNA SECA, ROAD ATLANTA, SEARS POINT AND WILLOW SPRINGS.
3. TO INTEGRATE PROVEN AERODYNAMIC DESIGNS AND CLASSIC STYLING QUES TO CREATE A UNIQUE BLEND OF PAST AND PRESENT AUTOMOTIVE STYLING.

BODY MODIFICATIONS AND SPECIAL FEATURES

AERODYNAMIC FLAT UNDERSIDE
ADJUSTABLE FRONT CLIP FRAME BRACE
BUMPERS NARROWED
BODY CHanneled OVER FRAME RAILS; LOWERING VEHICLE ROOF HEIGHT 3"
CARBON FIBER HOOD, MIRRORS, FRONT AIR SPLITTER AND REAR STRAKES
CARBON FIBER LOWER INTERIOR DOOR PANELS
CIBIE HEADLAMPS
CUSTOM ALUMINUM DASH
CUSTOM BATTERY TRAY AND COVER
CUSTOM CONSOLE
CUSTOM DEAD PEDAL
CUSTOM FLAT BAR GRILLE
CUSTOM FLOOR, TRANSMISSION TUNNEL AND REAR SEAT AREA / DECK PANELS
CUSTOM HOOD HINGE
CUSTOM LED REAR BRAKE LIGHTS
CUSTOM LED TURN SIGNALS INTEGRATED INTO FRONT HEADLAMP HOUSINGS
CUSTOM LOUVERED FRONT INNER FENDER PANELS
CUSTOM RECESSED FIREWALL
CUSTOM SCULPTURED RECESSED DOOR HANDLES
CUSTOM WAFFLE PATTERN HEAT AND SOUND INSULATION
ENGINE SET-BACK 9" LOCATING ENGINE BEHIND FRONT AXLE
FRESH-AIR COWL VENT PANEL REMOVED
FIBERGLASS FRONT FENDERS, BUMPERS AND TRUNK LID
FLUSH MOUNTED FAUX GAS FILLER CAP IN TAIL LAMP PANEL
FRONT BRAKE AIR SCOOPS INTEGRATED INTO FRONT VALANCE PANEL
NACA STYLE REAR BRAKE AIR DUCTS INTEGRATED INTO REAR QUARTER PANELS
OCCUPANT FRESH AIR SYSTEM WITH AIR DUCTING FROM RH HEADLAMP HOUSING
OIL COOLER AIR DUCTS INTERGRATED INTO FRONT VALANCE PANEL
POWER WINDOWS
QUICK RELEASE REMOVEABLE FRONT FENDERS
REMOTE TRUNK RELEASE
ROOF RAILS REMOVED
SINGLE WINDSHIELD WIPER SYSTEM
STAINLESS STEEL ROCKER PANEL EXHAUST / MUFFLERS
TRUNK LID "GURNEY LIP"
WINDSHIELD SAFETY STRAPS / TABS

BODY & PAINT

JON BYERS - BYERS CUSTOMS, AUBURN, WA
CHASSIS, FRONT CLIP, FIREWALL - SHERMAN WILLIAMS POLANE
EXTERIOR - DUPONT - GLOSS BLACK 99K BASE COAT, PPG DCU 2002 CLEAR COAT
INTERIOR, TRUNK, UNDERSIDE - PPG - DODGE SILVER - H32
WHEEL CENTERS - POWDER COAT - TIGER DRYLAC P-14 IRON METALLIC GRAY
WHEEL RIMS - BLACK HARD ANODIZED - EMBEE PLATING, SANTA ANA, CA

BRAKE SYSTEM

ADJUSTABLE PROPORTIONING VALVE - WILWOOD
BRAKE FLUID - DOT 4
BRAKE LINES - STAINLESS STEEL BRAIDED HOSE AND HARD LINES, NICKEL FITTINGS
BRAKE AND CLUTCH PEDALS - WILWOOD
MASTER CYLINDERS AND REMOTE RESERVOIRS - CNC

FRONT:

CALIPERS - BAER 6-PISTON
ROTORS AND HATS - BAER 14.75" CROSS DRILLED AND SLOTTED

REAR:

CALIPERS - BAER 6-PISTON
ROTORS AND DRIVE PLATES - BAER - 13.0" CROSS DRILLED AND SLOTTED

CHASSIS

FRONT AND REAR CLIPS, ROLL CAGE, REMOVABLE DOOR BARS - 4130 CHROMOLY .120 WALL. DESIGN - GRAND TOURING GARAGE. FABRICATION - FAST EDDIE, ORANGE, CA
RECTANGULAR OUTBOARD FRAME RAILS - 2" X 4" .120 WALL - ART MORRISON

COOLING SYSTEM

DUAL OIL COOLERS AND POWER STEERING COOLER - SETRAB
ELECTRIC FANS - DUAL 11", 5 BLADES - SPAL
RADIATOR - STEPPED ALUMINUM 4 CORE - RON DAVIS
STAINLESS STEEL OVERFLOW AND SURGE TANKS - GRAND TOURING
SYSTEM CAPACITY - 3 GALLONS

DIFFERENTIAL

BREATHER FILTER - K&N
GEAR RATIO - 4:10 - POSITRACTION
GEAR SET - RICHMOND
HOUSING - GRAND NATIONAL FULL FLOATER TYPE - MITTLER BROS.
HUBS, AXLES 24/31 - MITTLER BROS.
LUBRICANT - JT-7 SYNTHETIC 90W-140
THIRD MEMBER - NODULAR IRON FORD 9" - STRANGE ENGINEERING
WHEEL STUDS AND LUG NUTS - ARP

DIMENSIONS

GROUND
CLEARANCE 4.5" (STOCK 6.5")
HEIGHT 48.0" (STOCK 51.0")
LENGTH 186.5" (STOCK 187.4)
TRACK F - 55.0" (STOCK 58.5")
R - 55.5" (STOCK 58.5")
WHEELBASE 108.0" (STOCK 108.0")
WIDTH 71.8" (STOCK 71.8")
WEIGHT - 3796 LBS. - WET
WEIGHT DISTRIBUTION - F/R 52% / 48%

DRIVELINE

BELL HOUSING - STEEL - FORD
CLUTCH, PRESSURE PLATE, HYDRAULIC THROW-OUT BEARING - McLEOD
DRIVESHAFT - 3" STEEL - POWERTRAIN INDUSTRIES
FLYWHEEL - 11" STEEL - FORD
STAINLESS STEEL SHIFT LEVER
TRANSMISSION - TREMEC TKO 600 - 5-SPEED - RATIO - 2.87 / 1.89 / 1.28 / 1.00 / 0.64
TRANSMISSION LUBRICANT - GM
U-JOINTS AND YOKES - FORD TRUCK - SPICER

ELECTRICAL

ALTERNATOR - 90 AMP - FORD
BATTERY - OPTIMA
DUAL MASTER SAFTEY KILL SWITCHES - PEGASUS RACING
GAUGES - LIQUID FILLED - AUTO METER - FUEL LEVEL, FUEL PRESSURE, OIL
PRESSURE, LOW OIL PRESSURE WARNING LAMP, OIL TEMPERATURE, TACHOMETER,
SPEEDOMETER, VOLT AND WATER TEMPERATURE
SWITCHES AND WIRING COMPONENTS – AMERICAN AUTOWIRE

ENGINE

1965 FORD 427 SOHC

ENGINE BUILDER - BUD GILBERT - G-FORCE RACING ENGINES, PASO ROBLES, CA

CUBIC INCHES - 427

HORSEPOWER 600 @ 6,800 RPM SAE NET, ON 91 OCTANE FUEL WITH MUFFLERS *

TORQUE - 525 FT. LBS. @ 5,500 RPM SAE NET, ON 91 OCTANE FUEL WITH MUFFLERS *

AIR CLEANER COVER - FAST EDDIE
AIR CLEANER ELEMENT - K&N
ALTERNATOR - 90 AMP - FORD
BEARINGS - CLEVITTE 77
BELTS - GOODYEAR
BORE - 4.232 & STROKE - 3.784
CARBURETION - DUAL 780 CFM CARBURETORS - HOLLEY
CAMSHAFTS - FORD - REGROUND - MOONEYES
COIL - JACOBS
COMPRESSION RATIO - 9.5:1 *
CRANKSHAFT - FORD
CYLINDER HEADS - CAST IRON - HEMISPHERICAL - FORD
DISTRIBUTOR - FORD WITH CRANE ELECTRONIC CONVERSION
INTAKE MANIFOLD - ALUMINUM - FORD
OIL - KENDAL 20W-50 SYNTHETIC
OIL SYSTEM - 3 GALLONS - DRY SUMP - AVIAD
PISTONS - JE
PULLEYS - ALTERNATOR, CRANKSHAFT, WATER PUMP - FORD
REMOTE OIL FILTER - CANTON RACING PRODUCTS
RINGS - PERFECT CIRCLE
RODS - MANLEY
SPARK PLUGS - AUTOLITE # 63
SPARK PLUG WIRES - AUTOLITE 7mm

TIMING CHAIN - FORD
TIMING GEARS - FORD
TIMING COVER - ALUMINUM - FORD
VALVES - STAINLESS STEEL - FERRARA
VALVE TRAIN - FORD
WATER PUMP - FORD
WEIGHT - 680 POUNDS - DRY

* **NOTE:** FORD'S 1965 MANUFACTURES CLAIMED HORSEPOWER AND TORQUE FOR THE 427 SOHC ENGINE WERE 657 HP @ 7,500, 575 TORQUE @ 4,200 RPM, WITH 12:1 COMPRESSION RATIO AND DYNO TESTED ON 105 OCTANE FUEL WITH OPEN HEADERS.

EXHAUST SYSTEM

HEADERS - KEITH HICKSON, ALISO VIEJO, CA
HEADER COATING - SERMATECH
STAINLESS STEEL ROCKER PANEL EXHAUST / MUFFLERS - GRAND TOURING GARAGE

FIRE SYSTEM

10 LB. HALON - 3 NOZZLE POSITIONS - FIRE BOTTLE SYSTEMS

FUEL SYSTEM

CHARCOAL EVAPORATOR CANISTER - GM
DUAL 780 CFM CARBURETORS - HOLLEY
FUEL CELL - 22 GALLON - FUEL SAFE
FUEL FILTER - CANTON RACING PRODUCTS
FUEL LINES AND FITTINGS - STAINLESS STEEL BRAIDED HOSE AND NICKEL FITTINGS
FUEL PUMP - HOLLEY RED
FUEL PUMP REGULATOR - HOLLEY ADJUSTABLE
OVERFLOW CANISTER - GRAND TOURING GARAGE
THROTTLE CABLE - MORSE - CONTROL CABLES

INTERIOR

ACCELERATOR PEDAL - NEAL
BATTERY - OPTIMA
ELECTRIC WINDOWS - ELECTRIC LIFE
DASH - ALUMINUM - FAST EDDIE
GAUGES - LIQUID FILLED - AUTO METER
HEAT INSULATION - HI-TEMPERATURE
SEATS - DAYTONA STYLE - COBRA
SEAT BELT HARNESS - SIMPSON
STEERING WHEEL - MOMO
SWITCHES AND WIRING COMPONENTS - AMERICAN AUTOWIRE
TILT STEERING COLUMN - GM STYLE - IDIDIT
UPHOLSTERY - THORNTON AUTO UPHOLSTERY, SANTA ANA, CA
WIDE CONVEX REAR VIEW MIRROR - HRP

SUSPENSION - FRONT

CHROMOLY A-ARM AND TIE ROD ENDS - MCMASTER-CARR
LOCK-TO-LOCK - 2 TURNS
POWER STEERING PUMP - GM ROTARY TYPE II
POWER STEERING RESERVOIR TANK - CANTON RACING PRODUCTS
RACK AND PINION - WOODWARD STEERING COMPONENTS
SHOCK ABSORBERS - PENSKE
SPINDLES - 2" DROP - FORD
SPRINGS - HYPERCO - 500#
STEERING RATIO - 2.36
SWAY BAR - 4130 CHROMOLY 1 1/4" HOLLOW - SPEEDWAY ENGINEERING
SWAY BAR ARMS - ALUMINUM - SPEEDWAY ENGINEERING
UNEQUAL LENGTH A-ARMS - 4130 .120 WALL CHROMOLY - FAST EDDIE
WHEEL STUDS AND LUG NUTS - ARP

SUSPENSION - REAR

SHOCK ABSORBERS - PENSKE
SPRINGS - HYPERCO - 500#
SWAY BAR - 4130 CHROMOLY 7/8" HOLLOW - SPEEDWAY ENGINEERING
SWAY BAR ARMS - ALUMINUM - SPEEDWAY ENGINEERING
TRIANGULATED 4-BAR - 1 1/2" 4130 .120 WALL CHROMOLY - FAST EDDIE
WHEEL STUDS AND LUG NUTS - ARP

WHEELS

DESIGN - GRAND TOURING GARAGE
CNC MACHINING - PANTHER PERFORMANCE PRODUCTS, ANAHEIM, CA
RIMS AND ASSEMBLY - VAUGHN WHEELS - MONROVIA, CA
WHEEL CENTERS - 6061 ALUMINUM BILLET
WHEEL RIMS - T-6 ALUMINUM
SIZE: FRONT - 17 X 9.5
REAR - 17 X 11

TIRES

FRONT - 275-40X17R - BFGOODRICH - KD - 98Y
REAR - 315-35X17R - BFGOODRICH - KD - 102Y

