

## OWNER AND CAR PROFILE QUESTIONNAIRE

### OWNER STATS

OWNER'S FULL NAME

John Penlington

AGE

OCCUPATION

Manager- Owner Performance Car Shop

POSTAL ADDRESS

Unit 1/18-20 Tucks Road Seven Hills

EMAIL ADDRESS

sales@uniqueautosports.com.au

MOBILE NUMBER

CAR MAKE/MODEL/YEAR

1991 300ZXTwin Turbo 2+2

NUMBER PLATE

COLOUR

Satin Black

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## **CAR QUESTIONS**

**WHAT PURPOSE DID YOU BUILD THE CAR FOR? (eg. Drag Show, Street, Track or Combination)**

Track

**WHY DID YOU CHOOSE THIS PARTICULAR CAR MODEL?**

Looks good and very good base for great potential

**HOW LONG HAVE YOU OWNED THIS CAR AND WHAT CONDITION WAS IT IN WHEN YOU PURCHASED IT?**

Since 1999 It was a in very poor condition.

**HOW LONG HAS IT TAKEN YOU TO GET YOUR CAR TO THIS LEVEL?**

16 years

**HOW MUCH HAS THE CAR AND ALL ITS MODIFICATIONS COST YOU?**

Really? Dam. Unknown exactly. Parts not that much as suppliers help out but we added up at least 60k and many hundreds, probably thousands of hours over the years.

**WHAT IS THE MOST SURPRISING THING ABOUT OWNING A MODIFIED CAR?**

How much challenge it gives you with keep it going faster each time we go out to the track.

**WHAT SORT OF SET-BACKS AND DRAMA'S HAVE YOU HAD BUILDING THE CAR?**

VQ30 motor which was fairly much standard bottom end, blew a head gasket at World Time Attack 2011. Then with the new fully built VQ35 engine the Darton Sleeve kit ,one of the sleeves dropped, then the block cracked.

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**NB: IF THERE IS NO MODIFICATION, MARK WITH "SD" FOR STANDARD  
IF NOT APPLICABLE MARK "NA"**

**UNDER THE HOOD**

**ENGINE**

**ENGINE MAKE/TYPE/MODEL**

**ENGINE DISPLACEMENT**   
(**eg. 2.5 Litre**)

**WHO DID THE ENGINE WORK?**

**BLOCK MODIFICATIONS**

**ENGINE MOUNTS AND CROSS MEMBER MODIFICATION**

## INTERNALS

NB: HAVE YOU MODIFIED THE INTERNALS?

YES

\* IF "NO", PLEASE MOVE TO "INDUCTION/INJECTION/IGNITION"

### PISTON ENGINE

CONRODS

Scat

(

(

eg. Argo Conrods)

CRANKSHAFT

OEM

(

(

eg. Nitred RB26)

PISTONS AND RINGS

Wiseco

(

(eg. Forged and Weisco Pistons and Rings)

BEARINGS

ACL Race

(

STUDS

ARP

HEADWORK

Ported,

(

(Yes / No)

CAMSHAFTS

OEM

(

(eg. HKS Stage 3)

VALVETRAIN  
(lifters, retainers, valve  
springs, valves etc)

UAS valve springs, Cryogenically treated

CAM GEARS

Modified OEM

(

**(eg. Tomei)**

**HEAD STUDS**

ARP

**(eg. ARP Main and Head Studs)**

**HEAD GASKET**

Cosworth multi layer metal 1.2mm

**(eg. HKS Metal Head Gasket 2.0mm)**

**SUMP**

Dry Sump and Girdle. Billet alloy Dailey Engineering

**(eg custom enlarged baffled sump)**

**OIL PUMP**

External dry sump internally fed Dailey Engineering

**(eg. Nismo)**

**ENGINE ACCESSORIES  
( catch cans, braided lines,  
covers etc)**

Ex Nascar Kevlar -12 braided hoses and heat exchanger, dry sump tank (submerged in the boot left rear to keep weight low and balance the weight in the car better) catch can hanging of this. Custom Ross Racing Harmonic balancer with chopper wheel(crank trigger) and dry sump drive.

Ceramic coated military spec wiring through most of the car, 1.3kg Lithium ion battery. Custom alloy steering rack bushes, car extensively lightened, everything from the body, head lights and tail lights, gun barrel drilled bolt, we even linish and wasted down the suspension uprights and knuckles , door hinges, excess welds on the body, cross members, cradle etc. We extensively used ARP lightweight double hex high tensile nuts (almost half the weight of factory) also K nuts and Titanium and ally nuts and bolts even lighter. Studs and brackets shortened and if not necessary deleted. Where possible parts moved back, low and left to balance the car out. Such as electric power steering pump. Oil tank. Breather tanks and expansion tanks for coolant, engine oil, fuel and diff, computer, battery, fuse box and relays, wiring, fuel and oil hoses, filters, exhaust etc. Things not seen or obvious like this helps a lot. 51 % front 49% rear with near 50 /50 cross weights with driver after corner weighing and adjusting suspension heights. 1242 kg full of fuel. See our website link here with 16 pages of history with pics of it when bought in Japan to current.

[http://gtr.com.au/motor\\_sports.htm](http://gtr.com.au/motor_sports.htm)

## FURTHER DETAILS

## INDUCTION

### AIR FILTER/INTAKE

K & N

(  
**(eg. K&N Air Pod Filter)**)

### BLOW OFF VALVE

Turbo Smart

(  
**(eg. GReddy Type-R)**)

### TURBO AND BOOST PRESSURE

Twin 3071's with lightweight Tial turbine housings, mounted uniquely east west drawing air from the back of the front guards and vents in the bonnet.

**e**  
**Turbo Smart E Boost 2**

**Garrett T28, 18psi of Boost)**

### EXHAUST MANIFOLD

Custom 6Boost steam pipe. Hi Octane coatings

**(Eg. Custom tuned length stainless )**

### WASTEGATE

Turbo Smart compact ext gates

**((eg. External Wastegate)**

### INTERCOOLER AND PIPING

UAS custom 600 x 300 x 75 ducted.

**((eg. GReddy Front Mounted Alloy Intercooler)**

### INLET MANIFOLD AND PLENUM

UAS made

**(eg. Greddy Plenum )**

**THROTTLE BODY**

UAS made 65mm throttle bodies

**EXHAUST**

**DUMP PIPE**

V Band 3 inch

(  
**eg. Split pulse 3 inch dump pipe)**

**PIPE TYPE/SIZE**

Thin wall mild steel twin 3inch into single 4inch with Titanium  
exhaust wrap the whole way

(  
**eg. 3 Inch Stainless Steel Mandrel Bent System)**

**CATALYTIC CONVERTER**

(  
**eg. Custom Stainless Steel High Flow)**

**MUFFLER & TIP**

HiTech Staino cannon with 4 inch tip

(  
**eg. N1 APEXi Turbo Muffler With Four Inch Tip)**

**FUEL SYSTEM**

**FUEL PUMPS AND FUEL CELL**

Custom alloy with twin E85 416lph Walbro inside a custom alloy  
fuel tank with a built in surge tank that has one way valves, so it is  
gravity fed. There are baffles and fuel cell foam inside the tank.  
We also run a small oil cooler under the car to cool the return fuel.

**g**  
**. 2 litre surge tank with bosch 044 external fuel pump)**

**INJECTORS**

ASNU 1100cc top feed

(  
**eg. Rochester 1000cc Injectors)**

**FUEL RAIL AND REGULATOR**

TS reg , UAS made staino custom rail twin feed and twin return.

(  
**eg. HKS Racing Fuel Rail, Malpassi rising rate fuel reg)**

**EXTRA DETAILS**

**Eflex fuel**

**COOLING**

**WATER PUMP**

OEM

**((eg. Nismo)**

**OIL COOLERS TYPE/BRAND**

**(Eg. Earls oil cooler kit )**

**RADIATOR TYPE/BRAND**

Ex Nascar Kevlar -12 braided hoses and heat exchanger, dry sump tank (submerged in the boot left rear to keep weight low and balance the weight in the car better) catch can hanging of this, custom fuel rail,

**( Eg PWR triple core radiator with custom header tank)**

**OTHER COOLING SYSTEM MODS**

Custom PWR twin pass wider rad, modified coolant water billet alloy thermostat housing regulating coolant leaving the motor rather than in 72c

**IGNITION SYSTEM**

**COILPACKS OR IGNITOR**

MSD external coils and leads.

**((eg. Splitfire Coils, CDI, SPARK PLUGS)**

**FURTHER DETAILS**

M&W Ignition 500V CDI

**ENGINE MANAGEMENT**

**ECU MANUFACTURE/MODEL**

Haltech Platinum Sport

(  
(  
**eg. Microtech LTX-8)**

**BOOST CONTROLLER**

**EBOOST 2**

**(Eg. Apexi AVC-R )**



## POWER FIGURES/QUARTER MILE TIME

### ON THE DYNO

INCLUDE: FUEL TYPE  
BOOST PRESSURE  
DYNO MAKE

380rwkw 18psi circuit mode

(eg. 109.8kW or 147.2hp At The Rear Wheels)

### DOWN THE STRIP

10.70 139.67mph

(eg. 10.99 Seconds At 127MPH – Without NOS)

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## DRIVELINE

### GEARBOX

GEARBOX  
TYPE/ENGINE/SPEED

Z32 with PPG straight cut gear set, cryo treated, custom scraper plate, with R33 GTS-T rear extension and custom Chrome Molly gear stick

. Manual 2ZZ-GE 6 Speed)

### GEAR RATIOS

### CLUTCH COMBO

### FLYWHEEL

Custom Chrome Moly offset to suit 16mm engine to gear box adapter.

(eg. TRD Lightweight Flywheel)

### CLUTCH

Tilton twin plate motorsport clutch 7 1/4 inch. Clutch and flywheel together around 9kg

(eg. Brass Button Clutch)

PRESSURE  
PLATE/PRESSURE

(eg

. Custom Pressure Plate With 4000lbs Clamp Pressure)

### DIFFERENTIAL

**DIFFERENTIAL MAKE/MODEL**  
(INCLUDE FRONT AND  
REAR AND CENTRE DIFFS)

R32 GTR, modified cradle to suit KAAZ 1.5 way 20plate.

(  
(  
**eg(Subaru WRX Sti)**

4.1 up from 3.7

**FINAL DRIVE RATIO**

**(eg. 3.9:1)**

**BRAKES**

**FRONT ROTORS:**

375 x 35mm Alcon 42 vane pre bedded, 2 piece floating hats hard annodised

(  
**eg. Nissan Skyline Series I Cross-Drilled Rotors)**

**FRONT CALIPERS**

Billet alloy 6 differential piston ex V8 Supercar sprint brakes

(  
(  
**(eg. TRD Caliper)**

**FRONT PADS**

Unknown V8 Supercar

(  
**(eg. 900°C Race Compound Pads From Mike Mortimer)**

**BRAKES Contd'**

**REAR ROTORS**

335mm x 32mm 42 vane 2 piece

(  
**(eg. Nissan Skyline Series II Cross-Drilled Rotors)**

**REAR CALIPERS**

AP Racing 4 piston

(  
**(eg. TRD Caliper)**

**REAR PADS**

DS3000

(  
**(eg. 900°C Race Compound Pads From Mike Mortimer)**

**FURTHER DETAILS**  
( BRAIDED LINES, CUSTOM  
BRACKETS,  
HYDRAULIC HANDBRAKE  
ETC)

Billet alloy hard annodised adapters with machined pockets to save weight.  
Willwood pedal box with bias adjustment.

## SUSPENSION AND STEERING

### FRONT SHOCKS AND SPRINGS

Bilstein PSS( Eibach Springs Pillow ball tops

(

e

((Tein HA Adjustable Coilovers)

### REAR SHOCKS AND SPRINGS

Same

(

(

e

g

(Eibach Performance Lowered Springs)

### STRUT BRACES AND CHASSIS RIGIDITY BRACES

UAS Chrome Molly radius rod brace.

((eg. Whiteline Strut Brace)

### SWAYBARS

Front 32mm slide adjustable hollow.  
Rear 23mm adjust solid

### STEERING RACK MODS AND TIE RODS

Custom quick release rack end adapters to adjust Ackerman angle

### ADJUSTABLE ARMS

All custom, roll centre, wheel base and track, camber, caster and dive adjustable. Including adj bump and roll steer correcting tie rod ends front and rear.

e

g

. Tein adjustable castor rods, traction rods)

### BUSHES

All Rose jointed

(Eg. Adjustabe castor bushes, drift pineapples)

Custom cradle mods and converted to chassis mounted upper control arm pivot point. Electric power steering pump/

**FURTHER DETAILS**  
( MINI TUBS, 4-LINK,  
CUSTOM MODS ETC)

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**BODYWORK**

**LIST ALL MODIFICATIONS TO THE EXTERIOR**

**BODYKIT**

Custom guards front and rear, carbon fibre Targa roof, bonnet, rear wing, custom dual layer rear diffuser with director plates angled out 3 degrees to create vortex's. custom side skirts front to rear angled at 3 degrees with rubber edge for ground effects
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**BODY ACCESSORIES**

<b>Carbon fibre mirrors,</b>
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**PANEL WORK**

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**PAINT WORK**  
(INCL airbrushing)

Satin black
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**OTHER STAND OUT  
FEATURES**

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**WHO DID THE BODYWORK?**

UAS
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## WHEELS AND TYRES

### WHEELS

FRONT:  
MAKE/MODEL/SIZE

TE37 18 x9.5 forged

(eg. SSR Professor SP I 19"x 8")

REAR:  
MAKE/MODEL/SIZE

TE37 10.5

(eg. Ray's Engineering GTC-2 19"x 11")

### TYRES

FRONT:  
MAKE/MODEL/SIZE

(eg. Kumho Ecsta KU 19 Tyres 235.35.19")

REAR:  
MAKE/MODEL/SIZE

265 front 295 rear

(eg. Falken Azenis 215.45.17")

## INTERIOR

FRONT SEATS/TRIMMING

Cobra Carbon

(eg. Recaro Re-Trimmed in Bone Coloured Italian Leather)

REAR SEATS

(eg. Standard Re-Trimmed Red Leather)

DOOR SKINS AND PODS

(eg. Standard Re-Trimmed Red Leather)

ROOF LINING

(eg. Standard Re-Trimmed Red Leather)

GEARKNOB AND SHIFTER  
BOOT

Nylon custom

(eg. Leather Momo Gear Shifter Boot)

Sparco

**STEERING WHEEL**

**TRIMMING**

**(eg. Black Leather With Red Suede)**

**ELECTRONIC  
COMPONENTS/GAUGES**

**(  
eg. APEXi EL System Meter Series. Boost Gauge. Exhaust  
Temperature Gauge. Meter Control Unit)**

**WHO DID THE INTERIOR  
WORK?**

**SPECIAL THANKS AND RECOGNITION**

**HAVE YOU WON ANY  
TROPHIES AND/OR**

**AWARDS?**

**WHO WOULD YOU LIKE TO  
RECOGNISE/THANK**

GCG, Turbo Smart, Penrite, Ross Racing, 6Boost

[http://gtr.com.au/motor\\_sports.htm](http://gtr.com.au/motor_sports.htm)