

## DIESEL ENGINE

Please note- we are now also offering the VW TDI 1.9 four cylinder turbo diesel. Please [enquire](#) for further details.

### *International HFS 2.8L VNT*

The Icon's all-new International 4 cylinder is designed to run on up to 100% bio-diesel or low sulfur diesel. With enhanced combustion technology, a new combustion bowl design, high pressure rotary injection pump, VCO hydro-grinding and two stage injectors, the 2.8 ICON engine is as robust as it is simple. Fuel economy is 22-28 MPG, while providing respectable performance and stellar reliability. The new 2.8 4 cylinder is a high pressure rotary injected intercooled turbo unit with Bosch electronics and a Garrett variable vane turbo. This engine has been used in many high volume truck applications in some of the harshest environments worldwide by GM, Ford, Land Rover and others.

<i>Configuration</i>	<i>in-line 4 cylinder</i>
<i>Displacement:</i>	<i>2.8 liters</i>
<i>Bore:</i>	<i>93mm</i>
<i>Stroke:</i>	<i>102.5mm</i>
<i>Combustion System:</i>	<i>Direct injection</i>
<i>Cycle:</i>	<i>4 times per rotation</i>
<i>Injection System:</i>	<i>Rotary Injection</i>
<i>Aspiration/Turbo:</i>	<i>Variable Nozzle Garrett Turbo</i>
<i>Air Cooling:</i>	<i>Custom alloy intercooler</i>
<i>Power Output:</i>	<i>135HP @ 3800RPM</i>
<i>Peak Torque:</i>	<i>276 pounds @ 1400RPM</i>
<i>Dimensions:</i>	<i>700x762x826mm</i>
<i>Dry Weight:</i>	<i>458.57lbs. (208Kg)*</i>

**\*NOTE-Only 16 lbs heavier than our alloy V8!**

## EXHAUST SYSTEM

2.5" aluminized steel exhaust system with single mildly baffled muffler, and stainless steel flex-link in header pipe.

Ceramic coating option available.

## INTAKE SYSTEM

[AEM Dryflow](#) filter.

## COOLING SYSTEM

Purpose-built high density core alloy radiator with polymer fan & fan clutch.

Handcrafted TIG welded black wrinkle powder coated steel fan shroud.

## TRANSMISSIONS

**Five Speed Manual** (*Only choice*)

**Aisin-Warner AX15 transmission**

*12" hydraulic clutch system*

Model. . . . . **52108118AB**  
Synchronization. . . . . All Gears  
Main Case. . . . . Cast Aluminum  
Shift Cover . . . . . Aluminum alloy  
Gear Bearing. . . . . Caged roller  
Gears. . . . . Helically cut  
Lubrication. . . . . DCX#4761839AC  
Oil Capacity. . . . . 3.25 quarts

Gear ratios:

1st. . . . . 3.83:1  
2nd . . . . . 2.33:1  
3rd . . . . . 1.44:1  
4th . . . . . 1.00:1  
5th . . . . . .79:1  
Reverse . . . . . 5.04:1

## TRANSFER CASE

Purpose-built Atlas II transfer case is competition proven and freeway friendly, too.

The Advance Adapter's Atlas II 3.0:1 low range (optional 5.0:1) and 1: 1 high range transfer case is CAD-CAM designed and CNC machined for off-road performance, without sacrificing on road performance. The one-piece case with structural access cover is manufactured of heat- treated aluminum alloy. The gears are precision machined and are supported by needle roller bearings that are matched to finely finished shafts. The shafts, including the bulletproof 1-3/8" diameter, 32 spline rear output shaft, are fully supported on tapered roller bearings. The Atlas transfer case also features the convenience of synchronized shift on the fly capability. While Twin stick controls allow individual front and rear axle manipulation for maximum control.

Case:

Material: Heat-Treated Aluminum Alloy

Overall length: 13.8

Weight: 110 lbs. (dry)

Internal Components:

Gears: Helical Cut

Bearings: Needle & Taper Rollers

Synchronizers: Borg-Warner T98

Input Shaft Splines: 10, 21, 23, 27, 28, 29, 31, 32

Tail Shaft: 1.375" Dia., 32 Spline, with C.V. Joint Capability

Ratios:

Low Range: 3.0:1 (5.0:1 option available)

High Range: 1:1

Lubrication:

Oil Type: Synthetic Gear Oil - MT90 Red Line SAE 75w90 (3.5 Quarts).

## FRAME

The original Land Cruiser frame is updated with Art Morrison crafted 2"x4"x 0.180" mandrel-bent mild steel rails utilizing state of the art bending technology to create a rigid, wrinkle-free frame rail. All accessory mounts are precision laser cut and formed to exact dimensions. Chassis-specific jig tables are used, and all welding is completed by certified welders.

### **AXLES & DIFFERENTIALS**

Custom built 3/4 ton-1 ton Dynatrac Dana 60/44 based solid axle assemblies.  
4.09:1 ratio.  
General driveshafts, with 1310 joints, high strength steel shaft bodies.  
Rear CV joint standard on FJ40 short wheelbase model.

Optional ARB front/rear locking differentials with air compressor.

### **SUSPENSION SYSTEM**

Platform specific design featuring 12" true wheel travel front and rear..  
Four wheel coil suspension, with triangulated four link rear, and panhard front linkage designs.  
Fox Racing 2.5" Emulsion shocks, Eibach coils.  
Front and rear Currie Anti-Rock sway bars.  
Heavy duty Johnny joints and .250 wall 2" O.D. equal length steel control arms.

Optional Sport Suspension package upgrades to Fox Racing 2.5 Nitrogen charged shocks with remote canisters, DJ Safety limit straps and Fox Racing hydraulic bump stops.

### **BRAKE SYSTEM**

Common US parts based power assisted four-wheel, slotted and vented, disc brakes.  
Dual diaphragm booster with GM style master cylinder.  
Stainless steel system plumbing (hard and flex lines).

Optional Sport Brake Package features Stop Tech designed six piston front and four piston rear calipers with dedicated parking brake calipers.

### **PARKING BRAKE**

Isolated to rear brakes by shrouded stainless cable.  
Floor actuated with dash warning light.

### **FUEL SYSTEM**

Non-vented 19.6-gallon powder-coated black steel fuel tank.  
Mounted in the rear of the vehicle, boxed by the frame plus steel skid plate.  
Stainless steel system plumbing (hard and braided lines).  
Large serviceable fuel filter, in-tank fuel pump.

### **STEERING SYSTEM**

Designed for mild power effect, and maximum control in all environments.

Tom Lee Stage Four (4 rotations left to right) steering box.  
14.7:1 mild ratio for safe high speed off-pavement control.  
Nascar style alloy GM type II high efficiency pump with remote reservoir.  
Single turn steering shaft with Borgenson joint.  
One ton GM steering arms and ends.  
Ididit designed custom tilt collapsible steering column.  
Hellcat 16" steering wheel.

### **ELECTRICAL SYSTEM**

Painless Performance wiring harness, ignition and dash switches.  
Triple seal connectors, cross-link wire, and in-cabin sealed fuse panel.  
Isolated engine harness.  
LED headlights.  
140 AMP single wire alternator.  
Optima battery.

Optional Battery Trickle charger for long storage.

### **INSTRUMENTATION & DASH CONTROLS**

Reliable American made Auto Meter gauges (MPH, RPM, oil pressure, fuel level, engine temperature and volts).  
Full function in dash A/C, heat, defrost system with aluminum aircraft black anodized vents (4).  
Submersible high beam floor switch.  
Jewelry grade hand crafted CNC'ed stainless steel knurled, engraved and enameled dash knobs.  
Subtle and useful dash hex bolts hide micro-LED lights indicating turn signals, high beam, parking brake.  
Center dash mounted stainless hex bolt provides 140 degree LED for dash illumination.  
12 volt marine rated power ports in dash and in cargo area.  
Multi-adjustable Lear jet supplier sourced CNC'ed aluminum black anodized sun visors with polarized dark tinted shields.  
Stainless steel windshield frame latches allow for the windshield to be dropped to the hood for maximum clearance.

### **INTERIOR**

Polyurea floor surface coating.  
Removable rubber plugs for drainage.  
Large gun safe rated locking center console with audio sub-compartment and four large cup holders.  
Standard front seats feature floor track and recline control, plus tuck and tumble feature for cargo access or rear seat.  
Standard seat surfaces finished in top quality OE German marine rated vinyl.  
Optional front seat carbon fiber heat elements (with controls in center console).  
Optional rear two passenger tuck and tumble, removable seat.  
Optional side facing, folding jump seats (FJ40 or FJ43 models, or off-road only in FJ45 model).  
Optional locking steel storage vaults.  
Optional designer Chilewich interior upgrade (for all seats) includes Chilewich seat inserts and floor mats. This woven textile upgrade adds utility in its ability to absorb and transfer heat and is beautiful to the eye and touch.

### **BODY**

Built like a tank. An all-new 5/32" thick 5052 H32 aluminum body captures the original Land Cruiser character but with even greater longevity and resistance to the elements. The body is built by hand, and finished by hand. The hood

is new OEM Toyota stamped steel, and the grill is a vintage part.

**BODY SURFACE COATINGS**

The ICON is finished in a Teflon polyester hybrid super durable Cardinal powder coat originally conceived for exterior industrial architectural uses then developed specifically for the ICON. Each panel is hand finished before assembly, then the underside of the main body and fenders plus inside floor surfaces are coated in a heat cured polyurea coating for reduction of vibration and heat transfer as well as the surface environment. All finished require minimal maintenance with Fantastic / 50% water, never needs waxing and survives many a harsh trail.

The proprietary ICON finish is available in eight standard colors (custom color option available);

- Rocky Mountain Gray*
- Sand Tan*
- Mayan Sun Orange*
- Quartz White*
- Spruce Green*
- Eucalyptus Green*
- Slate Blue*
- Volcanic Black*

**WHEELS**

**New School Build Style -**

BF Goodrich A/T or M/T 285/70/R17 tires standard.  
Optional BF Goodrich 35x12.5R17 Baja T/A tires (Sport Brake package required).  
American Racing Teflon coated 17" x 8" ATX Mojave wheels.

**Old School Build Style -**

BF Goodrich A/T or M/T 285/70/R17 tires standard.  
Optional BF Goodrich 35x12.5R17 Baja T/A tires (Sport Brake package required).  
American Racing 17" x 8" ATX Mojave wheels finished in body color.

**BUMPERS**

**New School Build Style -**

Front : ICON Designed BULL BAR finished in black powder coat. Optional fog lights and winch.  
Rear : ICON Designed Class II tow bumper with dual pivoting carriers finished in black powder coat. Hidden locking storage lockers.

**Old School Build Style -**

Front: New vintage Toyota steel bumper finished in silver powder coat. Optional fog lights and winch.  
Rear: New vintage Toyota steel bumperettes finished in silver powder coat. Optional auxiliary reverse lights.

**DIMENSIONS (estimated)**

**LENGTH**

- FJ40.....13'2" (158")
- FJ43.....14'7" (176.5")
- FJ44.....17'1" (205")

FJ45.....	16'6" (198")
HEIGHT (all models) .....	6'6" (78")
WIDTH (all models) .....	5'5" (65")
WHEELBASE	
FJ40.....	7'6" (93")
FJ43.....	9'7" (115")
FJ44.....	9'6" (114")
FJ45.....	9'9" (117")
TRACK WIDTH (all models).....	4'8.25" (56.25")

**OPTIONS**

Because each Icon is built by hand, we can assure you that no two will be exactly the same. We are pleased to be able to provide a wide range of options, including but not limited to:

- 350hp to 450hp gas engines with manual or automatic transmissions (see gas specification PDF).
- Computer controlled mandrel bent stainless steel exhaust system.
- Aircraft ceramic exhaust system coating. Protects the system and extends its service life, while enhancing exhaust tone.
- Hand tailored soft top and removable upper half doors. Available standard or insulated.
- Removable rear two passenger seat, or side facing, folding jump seats.
- Chilewich floor mats & seating textiles.
- Various audio packages (AM/FM/CD/IPOD/GPS/Satellite radio/amp & bass).
- Warn Winch and recovery gear.
- Powertank compressed CO2 tank system for general utility (airing up rafts, tires, tools).
- X-Jack vehicle jack for all terrains.
- 5.0:1 transfer case low range gearing.
- ARB locking differentials front and rear, with air compressor.
- Halogen, HID or LED auxiliary lighting.

Special design needs or requests invited.

**AVAILABILITY**

The Icon is built by hand in California by dedicated craftsmen in very low volume. Production is extremely limited. Please inquire.

**CONTACT INFORMATION**

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Handmade in Los Angeles, California, USA

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ICON CJ3B™



ICON FJ40™

