Cre8 Associates Limited

Covert Vehicle Operations

Services

Cre8 Associates Limited have been active in the field of retro fitting of specialist vehicles for the last 6 years. In this time we have developed a unique understanding of both the end users and operational requirements for covert and overt vehicles, many of which are based on COTS vehicles.

Cre8 Associates Limited are experienced in:

- RF Installations and Testing for Radio Performance
- Electronic Counter Measure Systems
- EMC Control and Test Plans to Def Stan 59-411
- Design, Manufacture and Installation
 - EMC Filter evaluation and fitment
 - Bespoke electrical distribution systems
 - Packaging of covert instrumentation and controls
 - Full vehicle Electrical Harness Design, Manufacture and Installation
 - Specialist system development and testing
- In Field Testing and evaluation of
 - RF Cables
 - Electrical Functions
 - COTS based CAN Multiplex Systems
- Antenna checks and installations on specialist communications and transmission systems
- Installation of covert systems, cameras, sirens and other systems

Facilities

Cre8 Associates Limited have specialised facilities at its home base in Leicestershire United Kingdom to house and work on a number of vehicles at any one time. Our location on Bruntingthorpe Proving Ground allows us immediate access to a high speed and off-highway test track day and night allowing covert testing and operations 24 hours a day. The site is a secure site and our workshops allow not only design, production and installation in the same area but also the ability to host our customers and involve them in the project in all aspects of the work.

Programme Management

Cre8 Associates Limited not only look at the electrical aspects of your requirements but can also project manage complete sections of the work required to make your product or vehicle. With a vast experience of military programme management, Cre8 Associates Limited will look after aspects of mechanical and logistics within your programme requirements.







Problematic Issues?
Cre8 the Solution!







System Install and Integration

Power Management

Alternator & Starter Motor Upgrades	State of Charge Monitoring		
DC Power Distribution	Specialist 12vdc & 24VDC Vehicle Conversions		
Specialist Electrical Harness	12VDC - 24VDC Militarised DC - DC Conversion		
Military Grade Interconnection	12VDC - 28VDC Militarised DC - DC Conversion		
Battery Management & Emergency Vehicle Start	12VDC - 42VDC Militarised DC - DC Conversion		

Battery Power Storage

Specialist Systems

Under Bonnet Fire Suppression	FLIR
Fuel Line Fire Suppression	Navigation Systems
Light Isolation (internal & External)	Sirens (Yelp Wail)
Light Bars & Warning Lights	Internal & External Intercom Systems
Infra Red Headlights	Central Locking
Cameras—Infra Red / Night Day	Power Window Conversion
Covert Centre Consol	

RF and Communications

VHF - Communication Install	Antennas
UHF - Communication Install	Cameras
TETRA - Communication Install	Pre & Post Installation Testing
Satellite - Communication Install	Counter IED Equipment







Cre8 Associates Limited

Vehicle Overview and Specifications

PSV Landcruiser 200

PSV Landcruiser 200

Ultimate protection in a vehicle that is equally at home either in the middle of a city or the middle of nowhere.

The PSV Landcruiser 200 has been developed specially for those who require extremely high levels of security.

Thoroughly developed and independently certified.



Engine & Transmission Options					
Engine Capacity (L)	4.5	4.7			
Fuel Type	Diesel	Petrol			
Cylinders	V8	V8			
Power (PS/HP)	286	288			
Torque (Nm)	650	445			
Manual Transmission	No	No			
Auto Transmission	Yes	Yes			

Dimensions	
Length x Width x Height (mm)	4950 x 1971 x 1840
Ground Clearance (mm)	225
Seats	5/7

Available Protection Levels — PSV Toyota Landcruiser 200 Shied VR6/VR7 or VR7

BRV 1999

Level	Weapon Type	Calibre	Round		Test	
			Туре	Weight (g)	Range (m)	Impact Velocity (m/s)
VR 6	Rifle	7.62 x 51mm	FJ ¹ /PB/SC	9.5	10	930
	Rifle	5.56 x 45mm	FJ ² /PB/SCP SS109	4.0	10	950
VR 7	Rifle	7.62 x 51mm	FJ ² /PB/HC P80	9.8	10	820

IT Incendiary Tipped, L Lead, CB Coned Bullet, FJ Full Jacket, FN Flat Nose, HC Hard Steel Core (3.7g), PB Pointed Bullet, RN Round Nose Bullet, SC Soft Lead Core, SCP Soft Lead Core with Steel Penetrator









Hinges

We replace all original door hinges with custom designed heavy-duty components. The heavy-duty hinges connect the ballistic steel in the doors directly to the ballistic steel in the pillars; the standard vehicle steel bears no weight.

Battery Cut-Off

This system enables all non-critical vehicle systems to be deactivated so reducing the drain on the battery. This feature allows the vehicle to "hibernate" when in long term storage without damaging the battery.

Suspension

Suspension specialists Bilstein and Eibach have developed a suspension system exclusively for PSV. The system was tested under gruelling conditions both on and off-road, including a high-speed track, cobblestones, steep inclines and waterlogged terrain. PSV replaces the entire suspension system in its vehicles to ensure maximum reliability and road safety.

Battery Protection

The vehicle batteries are completely protected with ballistic steel. The service panel can be unbolted and the batteries removed for easy maintenance. Remote positive and negative battery terminals are readily accessible

Braking

AP Racing has developed a complete braking system exclusively for the PSV Landcruiser 200-series. It features larger, thicker front and rear grooved discs with increased internal ventilation, 6-piston front callipers, 4-piston rear callipers and stainless steel braided brake hoses. The AP Racing braking system delivers unrivalled stopping power with almost no brake fade.

Fuel Tank Protection

The fuel tank is protected with ballistic steel. In addition, gasoline tanks are treated with explosion resistant foam that prevents detonation.

Run flat system

Run flat systems are installed inside the tyre cavity. In the event of a puncture, they allow the vehicle to travel at speeds up to 50 km/h for up to 50 kilometres, making it possible to flee the scene even if the vehicle's tyres have been hit. The system is used by the British, German and Spanish armed forces.

Engine Control Unit (ECU)

The vehicle's ECU is like its brain and controls the vehicle's vital functions, so is fully protected by ballistic steel.

Intercom

This system is hidden from view and allows 2-way communication between occupants and persons outside the vehicle without the need to open the doors or windows.

Exhaust Protection

A grill is welded over the exhaust tail pipe to prevent foreign objects being inserted into the exhaust and rendering the vehicle inoperable.

Alarm

The alarm is used to attract attention in an emergency. Once activated, the system sounds a powerful siren and causes the vehicle lights to fl ash. It is deactivated by means of a hidden switch inside the vehicle.

Due to continuous development Cre8 Associates Ltd reserve the right to amend any information contained within this datasheet without prior notice.

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