



OVERVIEW

TOYOTA LANDCRUISER LC200 WAGON 11/07 on build date

BTC Upgrades

Federal and State Compliance

The solution for owners/managers of Toyota Landcruiser 200 Series Wagon vehicles who have a need to tow to 4000kg (up from 3500kg standard Braked Towing Capacity), while at the same time meeting the practical and documentary compliance requirements of Work Safety, Police Licensing, Insurance, Lessors and Fleet Managers. This kit is complianced by Department of Infrastructure, Transport, Regional Development and Local Government and comes complete with a secondary manufacturers compliance plate.

(Australian Compliance ONLY).

Federal Compliance BTC Upgrades can only be fitted to vehicles prior to registration and to vehicles fitted with a Lovells 3800kg GVM Upgrade.

BTC Upgrade Compliance Plate Approval Numbers:

40257-190937- LC200 Diesel- 7 & 8 Seater

40257-190936- LC200 Petrol- 7 & 8 Seater

46734-1191613- LC200 Diesel and Petrol- 5 Seater

Lovells Toyota Landcruiser LC200 GVM Upgrade kits have been tested and approved for Full Volume Second Stage Manufacture to comply with ADR35/05 ESC (Electronic Stability Control) Sine with Dwell verification.

IMPORTANT INFORMATION REGARDING BTC UPGRADES

Stage 1 Kit- Recommended for towing 3500kg-3700kg Apparatus.
Kit includes height adjustable fabricated tongue and swivel hitch system. This kit is however still rated at 4000kg braked towing capacity.

(Ball weight must not exceed 350kg)

Not compatible with most weight distribution systems.

Stage 2 Kit- Recommended for towing 3500kg-4000kg Apparatus.
Kit includes a Lovells 1200lb Weight Distribution Hitch system (WDH) with 95mm height adjustment

(Ball weight must not exceed 400kg)

Please note that the Lovells BTC Upgrade can only be complied if a Lovells GVM Upgrade is fitted to the vehicle.

Lovells BTC Upgrade tongue/hitch receiver/drop shank can only be attached to the Toyota OE Towbar and is not compliant for aftermarket tow bars.

GVM AND BTC EXPLAINED

Note that The GCM (Gross Combined Mass) doesn't form part of a Lovells GVM or BTC Upgrade or noted in our DIT Approval for Second Stage of Manufacture. It is basically governed by the new GVM of the vehicle and the maximum braked towing capacity (BTC).

The Original Equipment maximum braked towing capacity for example on the LC200 is 3500kg. This doesn't increase nor decrease when our GVM Upgrade is fitted, it remains at 3500kg.

The new vehicle GVM becomes 3800kg (LC200) as noted in Lovells SSM (Second Stage of Manufacture for GVM Upgrade)

The factor that comes into play is the ball weight of the towed apparatus. Whatever the ball weight is, must be subtracted from the vehicles GVM.

Therefore, the vehicle can still tow up to OE 3500kg. If the ball weight is 200kg, the vehicle's maximum GVM

(with a Lovells GVM Upgrade kit fitted) will now be 3600kg for the LC200. GCM is not noted or listed as part of our Approval.

Whereas, when a Lovells BTC Upgrade is fitted, the vehicle can then tow up to 4000kg. Yet, if the ball weight remains at 200kg, the vehicle's maximum GVM (with a Lovells GVM Upgrade kit fitted) will still be 3600kg for the LC200)

NOTE: Lovells BTC Upgrades can be supplied under State Compliance (for already registered vehicles) and the vehicle individually engineered for the State of registration. Includes State engineering certificate or certification plate.

WHY DO VEHICLES REQUIRE BTC (Braked Towing Capacity) UPGRADES?

- Need to protect Business, Managers from claims for breaches of OH&S rules and employee negligence.
- Possibility of Insurance companies to void payout if the vehicle is towing beyond approved Braked Towing Capacity.
- Possibility of litigation under common law if is vehicle operated beyond its legal Towing Limits.

SOLUTION

USING LOVELLS SPRINGS BTC UPGRADE KIT, (APPROVED BY THE DEPARTMENT of INFRASTRUCTURE, TRANSPORT, REGIONAL DEVELOPMENT and LOCAL GOVERNMENT, Compliance Plate Approval No. 40257) HELPS AVOID THESE PROBLEMS.

WHAT AMOUNT OF INCREASE SHOULD YOU EXPECT?

- Officially sanctioned BTC Kit provides:
BTC to 4000kg
Capacity increase of 500kg

WHAT COMPONENTS COME IN THE BTC UPGRADE KIT?

- Kit includes the following:

KIT COMPONENTS- STAGE 1				
Item	Part No.	Qty. per vehicle	Description	SOLD AS KIT ONLY
1	BTCU001-T-1	1	HEAVY DUTY FABRICATED HEIGHT ADJUSTABLE HITCH TONGUE (Rated to 4T)	
2	BTCU001-H-1	1	HEAVY DUTY PREMIUM AUTO COUPLER HITCH (Rated to 5T)	
3		1	FEDERAL COMPLIANCE PLATE FOR BTC UPGRADE	
4		1	OWNERS MANUAL (BTC Upgrade modified vehicles. For glove compartment)	
5		1	BTC UPGRADE FITTING INSTRUCTIONS	
6		3	Decals	
7		1	Fitting Instructions	

KIT COMPONENTS- STAGE 2				
Item	Part No.	Qty. per vehicle	Description	SOLD AS KIT ONLY
1	BTCU001-T-2	1	HEAVY DUTY FABRICATED HEIGHT ADJUSTABLE HITCH TONGUE (Rated to 4T) (Consists of a 95mm height adjustable drop shank and 1200lb WDH System)	
2	BTCU001-H-2	1	HEAVY DUTY PREMIUM AUTO COUPLER HITCH (Rated to 5T) (Consists of an Offroad Hitch and matching Tow Pillar)	
3		1	FEDERAL COMPLIANCE PLATE FOR BTC UPGRADE	
4		1	OWNERS MANUAL (BTC Upgrade modified vehicles. For glove compartment)	
5		1	BTC UPGRADE FITTING INSTRUCTIONS	
6		3	Decals	
7		1	Fitting Instructions	

BTC UPGRADE KITS				
Kit Type	Part No.	Qty. per vehicle	Kit Description	Retail Price
BTC	TOYTOW001-BTC-ST-1	1	BTC UPGRADE KIT- STAGE 1	\$ 3,000.00
BTC	TOYTOW001-BTC-ST-2	1	BTC UPGRADE KIT- STAGE 2	\$ 3,900.00

OR if the vehicle is registered, the kit comes complete with State Compliance Plate/Documents and Engineering Inspection.

WHO CAN FIT LOVELLS BTC UPGRADE KITS?

Because the Kit is approved on the basis of Lovells Springs being a Second Stage Manufacturer, and the responsibility ultimately lying with Lovells, only Lovells Springs **Authorised Fitters (Production Facilities)** are approved to fit this Kit. All BTC Upgrade Kit's are supplied with detailed fitting instructions and appropriate documentation.

WHO WOULD REQUIRE A BTC UPGRADE FOR THEIR VEHICLE?

This kit will suit any vehicle owner/operator who has a need to tow greater loads. This includes Government Departments, Mining Companies, Farmers, Tradesmen, large and small businesses, especially individuals loading their vans for travelling and touring.

WHAT DOCUMENTS ARE REQUIRED TO ENSURE YOU ARE COMPLYING WITH THE APPROVAL?

There is a specific BTC Upgrade Kit Order Form (Federal Compliance Order Form and State Compliance Order Form) which must be filled out by the specified Lovells Authorised Fitter or End User per vehicle to be modified. Lovells will cross check the vehicle VIN at point of BTC Upgrade Order to ensure we have DIT records of the vehicle being fitted and complied with a Lovells 3800kg GVM Upgrade. If Lovells do not have records of the VIN, a BTC Upgrade cannot be supplied or fitted. On completion of the BTC Upgrade Kit being fitted by the Lovells Authorised Fitter, a Federal or State Compliance Check List must be filled out and retained by the Fitter and Lovells for future reference. Procedures such as these ensure requirements of Lovells being a second stage manufacturer are being fulfilled.

WHEN SHOULD A BTC UPGRADE KIT BE FITTED?

FEDERAL COMPLIANCE: New vehicles (Tow Vehicle/LC200 Landcruiser) must be fitted **prior to registration**. They are simply then registered with a revised BTC as per the new compliance plate. The Towed apparatus does not need to be brand new, yet must be in roadworthy condition. Towed apparatus compliance to 4T is the customers responsibility, contact your Original Manufacturer to arrange towed apparatus increase compliance.

Vehicles which are already registered cannot be fitted with a kit under this Federal Approval.

STATE COMPLIANCE: BTC Upgrades can be fitted to already registered vehicles in NSW, ACT, Victoria, Queensland, South

Australia, Northern Territory and Western Australia only, and after modification, will have to be inspected by a Lovells nominated State Engineering Signatory. Extra Cost for Inspection and documents will be incurred. Cost is dependent on State and the vehicle can only be complied/inspected in the State which it is registered.

FREQUENTLY ASKED QUESTIONS

Is the GCM Upgraded?

GCM (Gross Combined Mass) is used by vehicle manufacturers in sales brochures noting the combination of GVM and BTC.

Note that The GCM (Gross Combined Mass) doesn't form part of a Lovells GVM or BTC Upgrade or noted in our DIT Approval for Second Stage of Manufacture. It is basically governed by the new GVM of the vehicle and the maximum braked towing capacity.

The Original Equipment maximum braked towing capacity for example on the LC200 is 3500kg. This doesn't increase nor decrease when our GVM Upgrade is fitted, it remains at 3500kg.

The new vehicle GVM becomes 3800kg (LC200) as noted in Lovells SSM (Second Stage of Manufacture for GVM Upgrade)

The factor that comes into play is the ball weight of the towed apparatus. Whatever the ball weight is, must be subtracted from the vehicles GVM.

Therefore, the vehicle can still tow up to OE 3500kg. If the ball weight is 200kg, the vehicle's maximum GVM (with a Lovells GVM Upgrade kit fitted) will now be 3600kg for the LC200. GCM is not noted or listed as part of our Approval.

Whereas, when a Lovells BTC Upgrade is fitted, the vehicle can then tow up to 4000kg. Yet, if the ball weight remains at 200kg, the vehicle's maximum GVM (with a Lovells GVM Upgrade kit fitted) will still be 3600kg for the LC200)

Can a Lovells BTC Upgrade be complied if a competitors GVM Upgrade is fitted to the vehicle?

No. The Lovells BTC Upgrade can only be complied if a Lovells GVM Upgrade is fitted to the vehicle. This is due to all test data, dynamic testing and ADR compliance has been gained with Lovells parts and design parameters.

Can a Lovells BTC Upgrade Kit be fitted to aftermarket tow bars/whee carrier extension bars?

No. The Lovells BTC Upgrade tongue/hitch receiver/drop shank can only be attached to the Toyota OE Towbar and is not compliant for aftermarket tow bars. This is due to the load testing and compliance being carried out on a Standard LC200 Chassis and tow bar.

Can you use another brand hitch receiver/drop shank/Hitch system or Weight Distribution System other than the Lovells kit parts?

No. The Lovells BTC Upgrade can only be complied if Lovells approved/sanctioned BTC Upgrade parts are utilized. This is due to all test data, load testing, dynamic testing and ADR compliance has been gained with Lovells parts and design parameters.

What is the approximate cost for State Compliance (post registration inspection and documents for the Lovells BTC Upgrade?

State Compliance (After Registration) add \$500 for QLD and NSW inspection and documents.

State Compliance (After Registration) add \$800 for VIC and WA inspection and documents.

All other States and Territories to be quoted upon application.
Engineering of State Compliance Vehicles can only be undertaken by a Lovells Approved signatory.

Can you fit a Lovells GVM Upgrade and Lovells BTC Upgrade yourself or can your local mechanic fit the kits?

No. Both kits must be fitted and plated by a Lovells Authorised Fitter. A list of Lovells Authorised Fitters can be found at www.lovells.com.au

GVM Upgrade Fitters are registered as a Production Facility with the Federal Dept of Transport and Infrastructure and linked to our Approvals. They have supplied quality systems documents and are audited every 12 months. They all undergo intensive training for fitting and testing procedures and hold stock of parts to qualify for fitting status. They are signed into legally binding Fitters Agreements.

Can the Lovells GVM Upgrade and BTC Upgrade Kits be fitted to LC200 with KDSS?

Yes. Our Fitting Instructions come with full detail for our Fitters on how to adjust and reset KDSS. Some vehicles trim perfectly, whereas, some require trimming with D/S strut spacers.

Is the GVM and BTC Upgrade legal in all States and Territories?

Yes. Rest assured, Dept of Transport have the final say on all Second Stage manufacturers and we cover everything and more as required by the ADRs.

To remain compliant, any wheel and tyre combo is fine to use on your LC200 as long as the rims have an Australian Standard reference and the tyres must have a load index of 116 or greater.

To remain legal under VSB14 (which is a National Code), tyre height gain cannot exceed 50mm (over original equipment tyres).

Key advantages to fitting a Lovells BTC Upgrade- Summary

The solution for owners/managers of Toyota Landcruiser 200 Series Wagons who have a need to tow to 4000kg (up from 3500kg standard Braked Towing Capacity).

- The BTC Upgrade kit is Approved by the Department of Infrastructure, Transport, Regional Development and Local Government and comes complete with a secondary manufacturers compliance plate or State Transport Compliance.

- Stage 1 Kit- Recommended for towing 3500kg-3700kg Apparatus. Kit includes height adjustable fabricated tongue and swivel hitch system. This kit is however still rated at 4000kg braked towing capacity.

- Stage 2 Kit- Recommended for towing 3500kg-4000kg Apparatus. Kit includes a Lovells 1200lb Weight Distribution Hitch system (WDH) with 95mm height adjustment

- Lovells BTC Upgrades can be complied prior to registration on Federal Compliance OR certified under State Compliance for already registered vehicles.

- Keeping you legal- The Upgrade kit is legal in all States and Territories. Protects Business and Fleet Managers from claims and breaches of OH&S rules and employee negligence if towing beyond the vehicles limits.

- Protects you from Insurance companies voiding payout if the vehicle is towing beyond approved Braked Towing Capacity.

- Removes the possibility of fines or litigation if is vehicle operated beyond its legal Towing Limits.

- Australian designed and made.

- Easily hitched and disconnected, even on uneven ground.

- Easy to operate. One person hitching.
- Anti theft Hitch locking mechanism.
- No tools needed to hitch or unhitch.
- Automatic hitch locking feature.
- Low maintenance and fully sealed from dust and dirt.
- Designed for hardcore offroad use or highway use.
- Hitch rated at 5 Tonnes
- WDH Anti- Sway System rated at 544kg
- Less than 2 hours to fit and comply
- Authorised Fitters and Spares available nationwide