Repair Process

It is important to note that not all turbochargers are repairable. Many might claim this not to be the case but the risk in repairing turbochargers far outweighs and price advantage gained.

Turbocharger such as **BorgWarner VGT** (Variable Turbine Technology), **Holsets VGT** (Variable Geometry Turbocharger), **Garrett VNT** (Variable Nozzle Turbine), **IHI VG** (Variable Geometry) have highly complex design which make it impossible to remanufacture with any degree of reliability. To this end none of the major manufacturers make component parts available to aftermarket and no official repair specification is available.

Our repair and remanufacture program is specifically for those turbochargers that are repairable. You can be confident that when we repair or supply a service exchange turbocharger you will enjoy a full service life due to the same quality, specifications and settings being the same as the original turbocharger.

Beware - this company uses Melett repair components which are NON GENUINE parts in their repairs – FALSE ADVERTISING!!!

50 Point Quality Check

	COMPRESSOR COVER
√	Compressor inlet, outlet flanges
√	Bearing housing, backplate mating surface
√	Contour free of gouges
√	Compress wheel to housing contour tolerance
√	Noise baffle secure and free of debris
√	Annual slot free of debris
	COMPRESSOR WHEEL
√	Blades free of bends or fractures
√	Rubbing or foreign object induced damage on blade profile
√	Bore area tolerance and finish
√	Nose cone and backface square
√	Back face, balance or wear defects
	LOOSE COMPONENTS
√	All thrust faces free of wear
√	Square of all surfaces
√	Piston ring groove and flinger groove
√	Piston ring to groove tolerance
√	Bore to shaft tolerance

	BACKPLATES, INSERTS
√	Mating and clamping surfaces
√	Piston ring bore and thrust surface
√	Seal ring to bore tolerances
	ROTOR ASSEMBLE
√	Dynamic,static balance and VSR testing
√	Run out
	POST ASSEMBLE
√	Radial & Axial clearance
√	Freedom of rotation
√	Housing alignment
√	Wastegate setting
√	Gasket and studs
√	Sundry items
	BEARING HOUSING
√	All mating surfaces
√	Bearing bore surface
√	Bearing to journal tolerance
√	Piston ring seal area and ring tolerance
√	Oil feed and drain flanges & threads
√	Water feed and drain threads

	TURBINE SHAFT WHEEL
√	Wheel blades for fractures or blade defection
√	Heat erosion on blade tips
√	Shaft journal surfaces
√	Bearing to journal tolerance
√	Piston ring seal area and flinger groove
√	Piston ring to groove tolerance
√	Shaft run-out
√	Shaft wheel balance
√	The square of shaft-step-down and threads
	TURBINE HOUSING
√	Slip joint or flange mating surfaces
√	Heat shield & centre housing mating surfaces
√	Scroul and contour crack free
√	Shaft wheel to contour tolerance
√	Free of heat erosion and scale
√	Threads, studs and clamping surfaces
√	Convolute free of foreign objects

50 point check

Each and every turbocharger repaired by our group undergoes the 50 point check

Quick Company Info

Our **objective** is to offer a complete and **comprehensive** turbocharger service with regards to **availability, quality, price** and **delivery**.

Factory distributors for:

BorgWarner Turbo Systems

Schwitzer

turbolader

HOLSET TURBOCHARGERS

Suppliers of:

Garrett by Honeywell

IHI TURBO

MITSUBISHI TURBOCHARGERS