

KMP BRAND
Worldwide

6125A / 6125H

PREMIUM DIESEL ENGINE PARTS

SUITABLE FOR:

JOHN DEERE®

6125

EQUIPMENT COVERED

AGRICULTURE

CONSTRUCTION

INDUSTRIAL

MARINE

POWER GENERATION

See page 7 for engine models.



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Service



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Premium
Quality

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PROMO 157
JULY 2025



PREMIUM REPLACEMENT PARTS SUITABLE FOR **JOHN DEERE®**

6125

Engine Details

6125A

6125H

NO. OF CYLINDERS

6 CYLINDERS

6 CYLINDERS

ENGINE TYPE

INLINE, 4-STROKE

INLINE, 4-STROKE

BORE

127MM

127MM

STROKE

165MM

165MM

DISPLACEMENT

12.5 LITRES

12.5 LITRES

ASPIRATION

TURBOCHARGED, AIR TO
COOLANT AFTERCOOLED

TURBOCHARGED, AIR TO AIR
AFTERCOOLED

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APPLICATIONS:

COMBINE

- 9750 STS
- 9860 STS
- 9880 STS
- 9880i STS
- 9880i STS HILLMASTER

EXCAVATOR

- 450CLC

ORAGE HARVESTER

- 7200
- 7300
- 7400
- 7500
- 7700
- 7800

LOADER

- 744H
- 744J
- 824J
- 844J

TRACTOR

- 9120
- 9220
- 9320
- 9320T
- 9420
- 9420T
- 9520
- 9520T
- 9620
- 9620T



PREMIUM REPLACEMENT ENGINE PARTS FOR CONSTRUCTION, INDUSTRIAL & AGRICULTURAL MACHINERY

This document contains a list of components that may be required during the overhaul of a variety of John Deere® 6125 engines. It is strongly recommended that you check the part numbers listed within this document against your engine serial number prior to ordering.

Please note that this is not an all-encompassing catalogue for the engines, therefore the item(s) that you require may not be listed in this document. A full listing of all KMP supplied components for this engine can be supplied by your sales representative on request.

Parts contained within this document are not guaranteed to be available at the time of publication, however they may be developed at a later date, any item that is not currently available is annotated with an asterisk (*). Items that are stocked at the time of publication may also become discontinued at a later date. Therefore, please contact your KMP sales representative to verify item availability before taking any action based on the information contained within this publication.



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JOHN DEERE® ENGINE 6125

6CYL - 127MM Bore

CRANKSHAFT & RELATED PARTS

CRANKSHAFT SEAL - FRONT	RE54073	1
CRANKSHAFT SEAL - FRONT	RE527102	1
CRANKSHAFT SEAL - REAR	RE53687	1
MAIN BEARING PAIR STD	RE63903	6
MAIN BEARING PAIR 0.25mm	RE531764	6
MAIN BEARING PAIR 0.50mm	RE531765	6
THRUST BEARING PAIR STD	RE530786	1
THRUST BEARING PAIR 0.25mm	RE531766	1
THRUST WASHER SET STD	RE530885	1
THRUST WASHER SET 0.18mm	RE531770*	1

CONNECTING ROD & RELATED PARTS

CONROD BEARING PAIR - STD	DZ114918	6
CONROD BEARING PAIR - 0.25mm	RE68703	6
CONROD BEARING PAIR - 0.50mm	RE68704	6
CONROD BEARING PAIR - STD	DZ117662	6
CONROD BEARING PAIR - 0.25mm	RE534627	6
CONROD BEARING PAIR - 0.50mm	RE534628	6
CONROD BUSH	R74008	6
CONROD BUSH	R69045*	6
CONROD BOLT	R66453	12



R74008



R66452



RE27348



AR95932

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JOHN DEERE® ENGINE 6125

6CYL - 127MM Bore

CYLINDER KITS & COMPONENTS

<u>CYLINDER KIT - RE515942</u>		6
PISTON, PIN & CLIPS	RE524325	1
PISTON RING SET	RE515941	1
LINER SEAL KIT	RE547712	1
LINER	R518451	1
<u>CYLINDER KIT - RE519111</u>		6
PISTON, PIN & CLIPS	RE524324	1
PISTON RING SET	RE515941	1
LINER SEAL KIT	RE547712	1
LINER	R518451	1
PISTON, PIN & CLIPS	RE524324	6
PISTON, PIN & CLIPS	RE524325	6
PISTON RING SET	RE515941	6
LINER	R518451	6
LINER SEAL	R48638	6
LINER SEAL KIT	RE547712	6

CYLINDER HEAD & COMPONENTS

VALVE INLET/EXHAUST - HEAD INCONEL 751	R516892	24
VALVE GUIDE	DZ114146	24
VALVE SPRING	R116585	24
VALVE STEM SEAL	RE66635	24
VALVE SEAT	R504713	24
VALVE COLLET	R91889	48
PUSH ROD	R117069*	24
ROTATOR	RE69878	24
<u>ROTATOR & SPRING KIT - RE505499</u>		12
ROTATOR	RE69878	24
VALVE SPRING	R116585	24
INJECTOR SLEEVE	RE531334	6

CYLINDER BLOCK & COMPONENTS

BUSH - CAMSHAFT	R532008	4
PISTON COOLING JET	RE503567*	6
DRAIN TAP - 1/4" BSP	AT27653	1



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JOHN DEERE® ENGINE 6125

6CYL - 127MM Bore

ENGINE KITS

<u>OUT-OF-FRAME KIT - RE535192</u>		1
CYLINDER KIT	RE515942	6
MAIN BEARING PAIR STD	RE63903	6
THRUST BEARING PAIR STD	RE530786	1
THRUST WASHER SET STD	RE530885	1
CONROD BEARING PAIR - STD	DZ114918	6
CRANKSHAFT SEAL - FRONT	RE54073	1
CRANKSHAFT SEAL - REAR	RE53687	1
OVERHAUL GASKET KIT	RE535190	1
CONROD BUSH	R69045*	6
BUSH - CAMSHAFT	R532008	4
<u>IN-FRAME KIT - IFK-RE535192</u>		1
CYLINDER KIT	RE515942	6
MAIN BEARING PAIR STD	RE63903	6
THRUST BEARING PAIR STD	RE530786	1
THRUST WASHER SET STD	RE530885	1
CONROD BEARING PAIR - STD	DZ114918	6
TOP GASKET SET	RE537388	1
OIL PAN GASKET	R519752	1
<u>OUT-OF-FRAME KIT - RE527659</u>		1
CYLINDER KIT	RE519111	6
MAIN BEARING PAIR STD	RE63903	6
THRUST BEARING PAIR STD	RE530786	1
THRUST WASHER SET STD	RE530885	1
CONROD BEARING PAIR - STD	DZ117662	6
CRANKSHAFT SEAL - FRONT	RE54073	1
CRANKSHAFT SEAL - REAR	RE53687	1
OVERHAUL GASKET KIT	RE535190	1
CONROD BUSH	R69045*	6
CONROD BOLT	R66453	12
BUSH - CAMSHAFT	R532008	4

ENGINE KITS

<u>IN-FRAME KIT - IFK-RE527659</u>		1
CYLINDER KIT	RE519111	6
MAIN BEARING PAIR STD	RE63903	6
THRUST BEARING PAIR STD	RE530786	1
THRUST WASHER SET STD	RE530885	1
CONROD BEARING PAIR - STD	DZ117662	6
TOP GASKET SET	RE537388	1
OIL PAN GASKET	R519752	1
CONROD BOLT	R66453	12
<u>OUT-OF-FRAME KIT - RE535191</u>		1
CYLINDER KIT	RE519111	6
MAIN BEARING PAIR STD	RE63903	6
THRUST BEARING PAIR STD	RE530786	1
THRUST WASHER SET STD	RE530885	1
CONROD BEARING PAIR - STD	DZ114918	6
CRANKSHAFT SEAL - FRONT	RE54073	1
CRANKSHAFT SEAL - REAR	RE53687	1
OVERHAUL GASKET KIT	RE535190	1
CONROD BUSH	R69045*	6
BUSH - CAMSHAFT	R532008	4
<u>IN-FRAME KIT - IFK-RE535191</u>		1
CYLINDER KIT	RE519111	6
MAIN BEARING PAIR STD	RE63903	6
THRUST BEARING PAIR STD	RE530786	1
THRUST WASHER SET STD	RE530885	1
CONROD BEARING PAIR - STD	DZ114918	6
TOP GASKET SET	RE537388	1
OIL PAN GASKET	R519752	1

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JOHN DEERE® ENGINE 6125

6CYL - 127MM Bore

GASKET KITS & COMPONENTS

GASKET KIT - OVERHAUL	RE535190	1
GASKET KIT - UPPER	RE537388	1
GASKET - CYLINDER HEAD	DZ107052	1
GASKET - EXHAUST MANIFOLD	R131809	1
GASKET - TIMING COVER	R526360	1
GASKET - OIL PAN	R519752	1
GASKET - VALVE COVER	DZ120103	1
GASKET - TURBO TO OIL LINE	R105346	1
GASKET - TURBO MOUNTING	R520685	1
GASKET - CRANKSHAFT OIL SEAL HOUSING	R520512	1
GASKET - AIR INTAKE COVER	R116830	1
GASKET - AUX DRIVE	R96935	1
GASKET - OIL FILTER HOUSING	R500210	1
SEAL - CAMSHAFT COVER V-RING	R524335	1
SEAL - TIMING COVER V-RING	R524334	1
SEAL - EXHAUST MANIFOLD RING	R135482	4

LUBRICATING OIL SYSTEM

GASKET - OIL COOLER HOUSING	R500209	1

FUEL SYSTEM

HAND PRIMER	RE65265	1
SEAL - INJECTOR	R51936	8

COOLING SYSTEM

THERMOSTAT	RE33705	1
THERMOSTAT	AR102258	1
GASKET - THERMOSTAT HSG	R133142	1
GASKET - THERMOSTAT HSG	R116205	1



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JOHN DEERE® ENGINE 6125

6CYL - 127MM Bore

ELECTRICAL COMPONENTS

STARTER MOTOR 12V	RE539584	1
STARTER RELAY 12V, 100A	RE164448	1
ALTERNATOR: 14V, 140A	RE46608	1
ALTERNATOR: 12V, 90A	RE500227*	1
ALTERNATOR: 24V, 60A	RE65414*	1
SWITCH - OIL PRESSURE	RE167207	1
SENSOR - COOLANT TEMPERATURE	RE52722	1
SENSOR - FUEL FILTER PRESSURE	RE154966	1
SENSOR - ENGINE SPEED	RE519144	1
SENSOR - FILTER MOISTURE	RE532949	1
SENSOR - AIR TEMPERATURE	RE61812	1

PULLEY & TENSIONERS

PULLEY - AUX DRIVE IDLER	RE505265	1
BELT TENSIONER	RE506352	1
BELT TENSIONER	RE170084	1
BELT TENSIONER	RE70535	1



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Engine Models Covered

6125

6125ADW01

6125ADW03

6125AF001

6125AFM75

6125AT801

6125HDW01

6125HDW02

6125HDW03

6125HF001

6125HF070

6125HH003

6125HH006

6125HRW13

6125HRW15

6125HRW16

6125HRW17

6125HRW18

6125HT001

6125HZ004

6125HZ007

6125HZ008

6125HZ009

6125HZ013

6125SFM75

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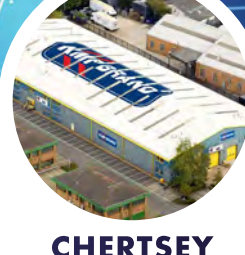
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