

JAGUAR XK8 - 1998 Alternator replacement

Quick alternator serviceability check

Quick check to confirm alternator serviceability is to test for 12v at the main positive cable linking the battery to alternator via the starter motor.

If NO voltage at alternator end:

Check the main positive fuse links (in boot next to battery) and ensure all main supply cables are sound, with joints free from corrosion etc.

If 12v supply is confirmed at the alternator end:

Start the engine to idle, disconnect negative cable from battery - If the engine stalls, the alternator is NOT supplying power to the vehicle.

Turn ignition switch OFF and remove the key.

Alternator selection

XK8 (98) runs a **Denso LNC1800AA** - or after market **Denso DAN672** 120 amp similar units are available at half price (if preferred).



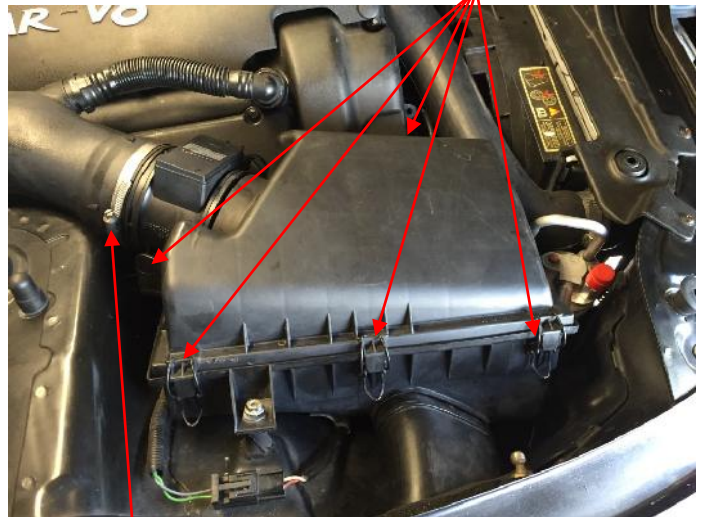
Safety and lower access

- 1) Disconnect **BOTH** positive and negative terminals from the battery, this is also a good time to top up the battery if you have a trickle charger.
- 2) Unclip bonnet gas struts and secure bonnet in the full open position.
- 3) Jack right front side to allow access under vehicle & brace with stand.
- 4) Remove right front wheel to improve access.
- 5) Remove alternator upper/lower plastic cooling ducts (2 x 8mm bolts)

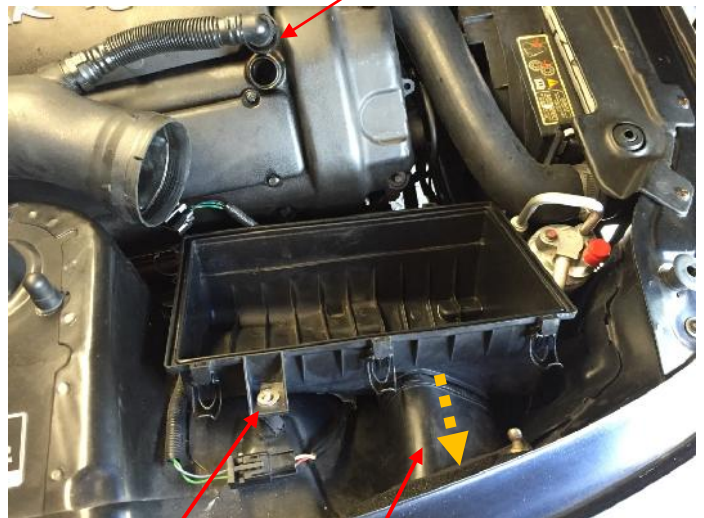


Top Access

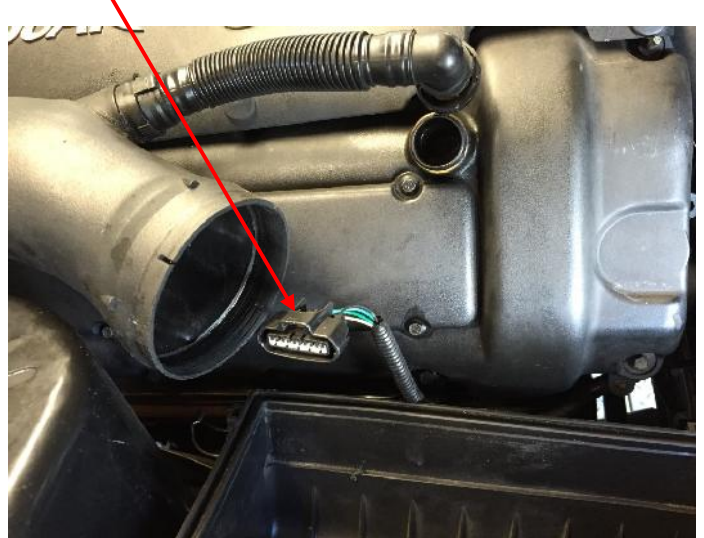
- 1) Remove air cleaner lid assembly - (there are 5 x clips).



- 2) Remove air pipe clamp and unclip crankcase breather.



- 3) Remove single nut & push air inlet tube partially back into wheel well.
- 4) Unplug air mass fan supply & remove with air cleaner lid in one piece



Top access

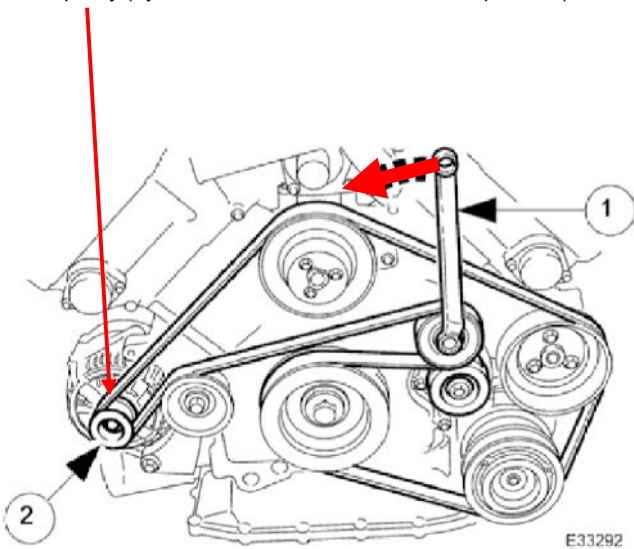
5) Lift the air cleaner assy base out to clear the area for top access.



6) Remove air cleaner assembly mount bracket (2 x bolts), the removal of this mount will allow the alternator to exit via the top engine bay.

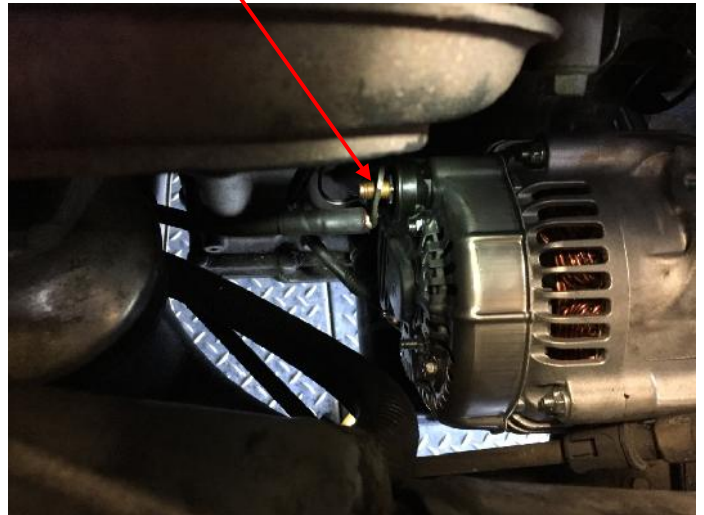


7) Relieve serpentine belt tensioner with large socket & flip belt off at the alternator pulley (try to leave the belt in situ as best as possible)



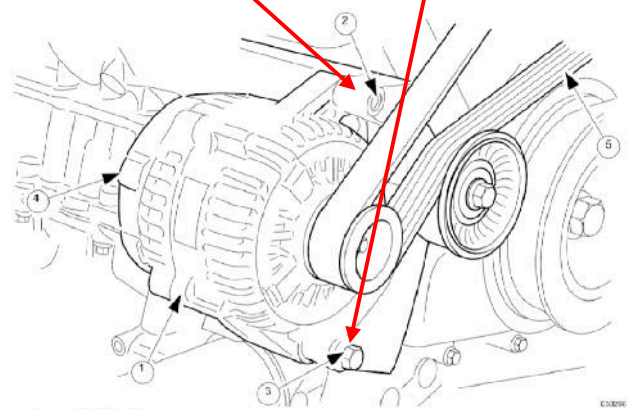
Alternator removal

1) Remove positive battery terminal.



2) Remove short mount bolt from top and long mount bolt from below.

Generator - General View



Item	Description
1	Generator
2	Bolt - Mounting Upper
3	Bolt - Mounting Lower
4	Voltage Regulator (internal component)
5	Drive Belt - Multi-Ribbed

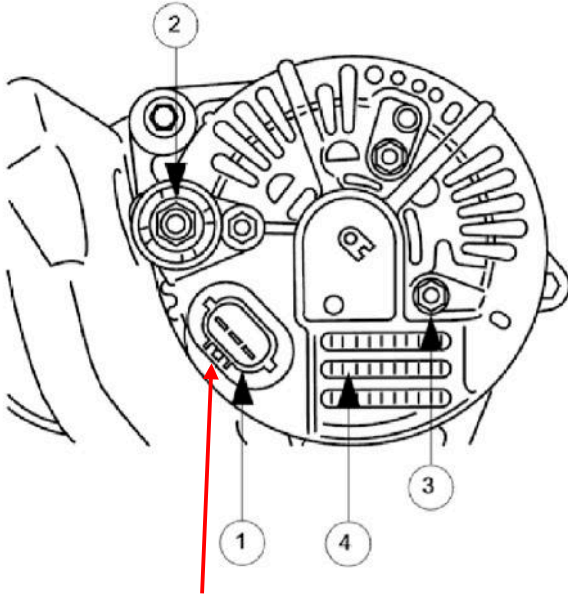
3) The alternator lower mount has an internal bush that normally binds during removal, just rock the alternator too & fro (whilst pulling toward the wheel well) & it should work free with a little time & effort. This bush needs to be retracted back into alternator mount pre install (see later).



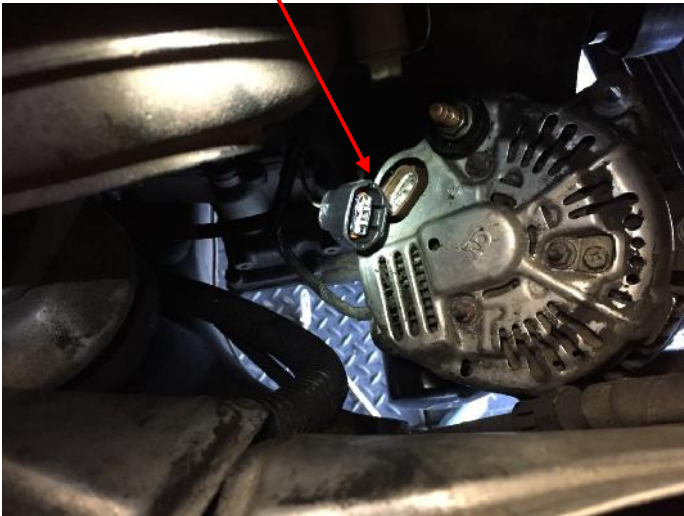
Once free, lay the alternator (pulley end down) to access the multi plug.

Alternator removal

4) Removal of the multi-plug connector may be the most difficult part of the entire project as it requires some patience to ensure the plug is not damaged. The best advice here is to squirt some WD40 around the connector, then go and have a cup of tea.



This is a standard Jag plastic connector plug which requires a squeeze & pull technique to clear the plug lock tab & allow release. A gentle rocking motion at the same time may also assist in simplifying removal. Be patient with this, as damage to this brittle plug may be difficult to replace & will also cost significant time to rectify. Once the plug has been disconnected, the alternator is free to remove from the vehicle.

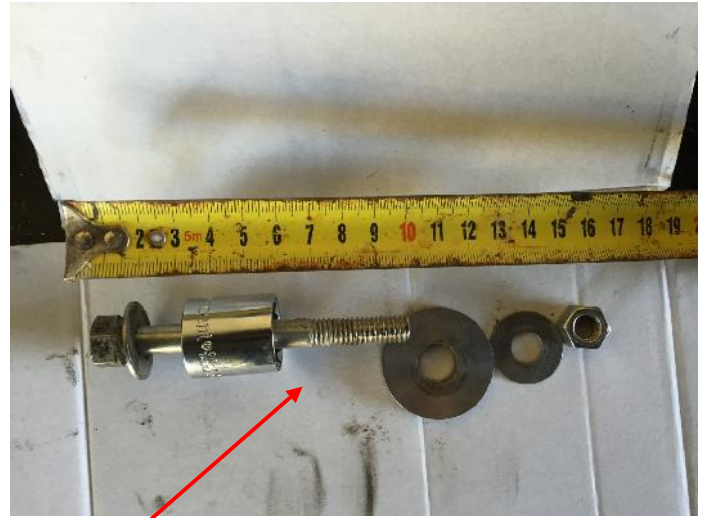


5) Rotate the alternator into position (pulley side up) & remove from car.



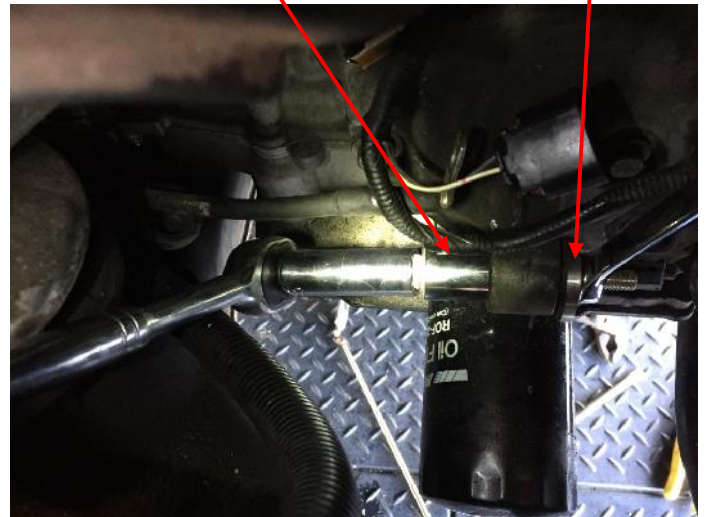
Setup for alternator installation

1) Locate a 100mm (4") bolt, washers, nut and a 19mm (3/4") socket.



2) These parts will be used to retract the lower mount bush for install.

3) Tighten bolt with the socket on the LHS and the washer & nut on RHS



4) As you tighten the bolt you can feel the bush retracting back into the alternator mounting plate. Don't over tighten, just continue until it feels like the bush is fully home. The lower bolt mount on the alternator requires a 58mm gap to fit new unit with ease.



Alternator installation

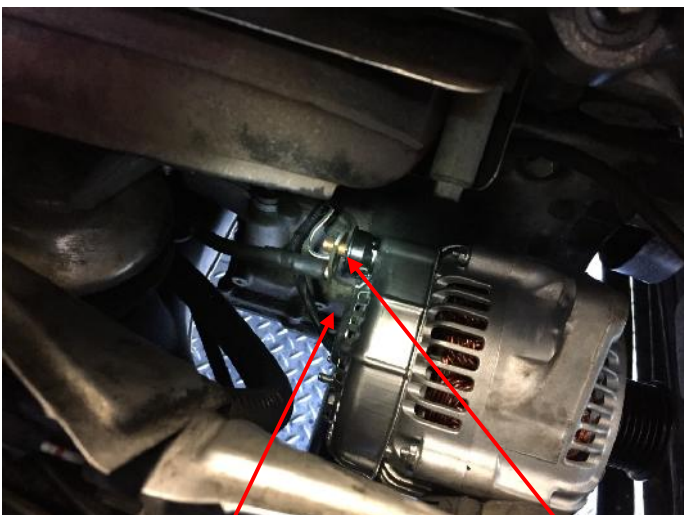
1) The new alternator should have its electrical connections pre-prepped for installation - if not, be sure to apply suitable corrosion protection.



2) Spray the multi-plug connector with contact cleaner before install.



3) Install the alternator into position from from above. The easiest way is to place it roughly into position, then insert the (long) lower mount bolt from the underside first - do not tighten bolt at this point.

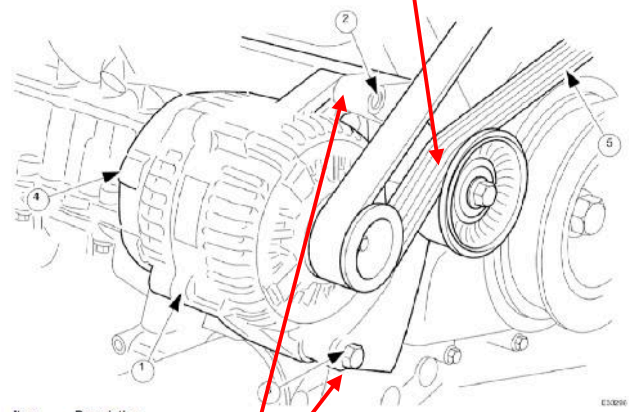


4) Reconnect the multi-plug connector & attach the main positive cable.

Alternator installation

5) Loosely install the upper mount bolt, relieve serpentine belt tensioner & replace belt on alternator pulley, check the belt is in correct alignment.

Generator - General View



Item	Description
1	Generator
2	Bolt - Mounting Upper
3	Bolt - Mounting Lower
4	Voltage Regulator (internal component)
5	Drive Belt - Multi-Ribbed

6) Tighten both alternator mount bolts & recheck electrical connections.

Installing air filter components

1) Re-install air filter mounting bracket.



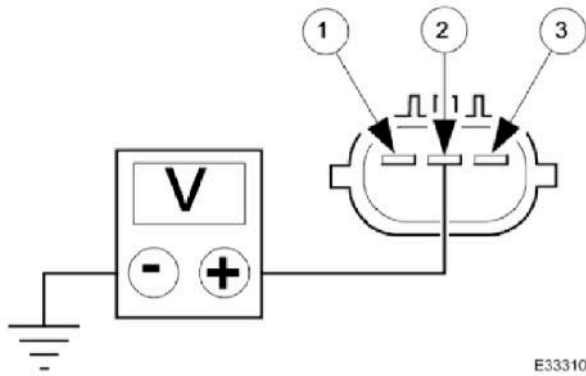
2) Replace air filter assembly in reverse order of removal. Be sure to check all parts are torqued to specs and protected from corrosion. Prior to starting engine ensure serpentine belt is correctly aligned.



3) Connect battery terminals, start engine, check charge is above 13.5v.

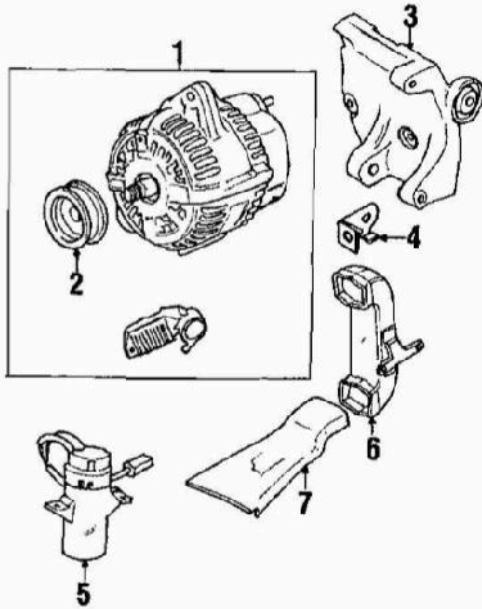


Multiplug Connector



E33310

Item	Description
1	Not Connected
2	IG - Ignition Supply to Generator
3	WL - Output to Charge Warning Lamp

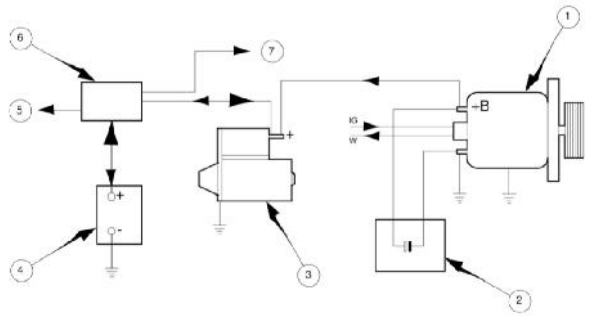


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ALTERNATOR

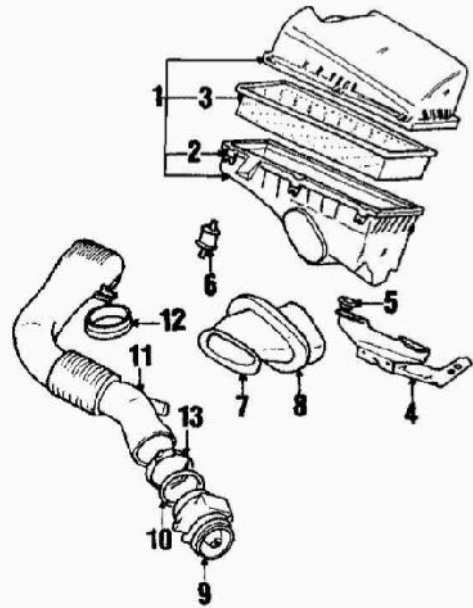
1 Alternator				
to V004000	97	530.00#	m 1.5	LNC1800AD
from V004001	97-02	575.00#	m 1.5	LNC1800AA
to V# A35392	03	605.00#	m 1.5	C2C19630
fr V# A35393	03-05	605.00#	m 1.5	C2C19630
2 Pulley	97-05	28.95		JLM20235
3 Mount bracket	97-02	67.75		NCA8302AA
to V# A35120	03	82.15		C2C22757
fr V# A35121	03-05	82.15		C2C22757
4 Connector	97-05	3.75		LJA3890NA
5 Module				
supression	97-05	89.25		LJA1820AA
Cooling duct				
6 upper	97-05	28.00		LJB1810AA
7 lower	97-05	22.60		HJA4477AD

Generator - Charging Circuit



E33308

Item	Description
1	Generator
2	Suppression Module
3	Starter Motor
4	Battery
5	Power Cable to Rear Fuse Box
6	High Power Protection Module
7	Power Cable to Front Fuse Boxes



4730140

AIR INTAKE

1 Air cleaner assy	97-02	144.20	m 0.3 =	NJC3500AA
w/o supercharger	C3-05	251.00		XR823351
w/supercharger	C3-05	277.00		C2N1551
2 clip	97-05	2.95		NAB3511AA
3 Filter	97-05	39.15		NJA3558AA
4 Mount bracket	97-99	13.90		NJA3557AA
w/o supercharger	00-01	13.90		NJA3557AA
w/o premium sound	02	12.30		NJA3515AB
w/premium sound	02	13.90		NJA3557AA
w/o supercharger	03-05	12.30		NJA3515AB
w/supercharger	00-05	11.05		NJB3515AC
5 grommet	97-05	.85		NBC3530AA
6 Mount insulator	97-05	6.40		EAC8130
7 Air inlet tube	97-05	20.40	m 0.4 =	NJB3510AC
8 seal	97-05	8.65		NJA3541AA
9 Air mass sensor	97-98	302.00	m 0.4	LJA1620AE
	99-04	254.00	m 0.4	LNE1620CB
	05	43.10	m 0.4	C2S2670
w/supercharger	00-04	192.50	m 0.4	LNE1620BB
	05		m 0.4	C2C7630
10 seal	97-04	6.30		NJA3553AA
	05			NOT USED
11 Air pipe	97-00	49.95		NJA3555AE
w/o supercharger	00-04	49.85		NNE3555AC
w/supercharger	00	54.70		NJB3555AA
	01-04	72.85		NJD3555AA
all	05	85.25		C2N1041
12 seal	97-04	7.05		NJA3554AA
	05			NOT USED
13 clamp	97-05	3.00		JHC201401

PART NO. LNC1800AA - ALTERNATOR PARTS

Part suitable for use in:

- XJ Series from (V)812317 to (V)F59525 (X308)
- XJ Series from (V)812317 to (V)F59525 (X308 - Canada/Mexico/USA)
- XK8 Coupe/Convertible up to (V) 042775
- XK8 Coupe/Convertible - Canada/USA up to (V) 042775
- XK8 Coupe/Convertible from (V) A00083 to (V) A30644

The LNC1800AA Alternator is available from Jaguar Classic Parts in the United Kingdom. Part suitable for use in XJ Series from (V)812317 to (V)F59525 (X308), XJ Series from (V)812317 to (V)F59525 (X308 - Canada/Mexico/USA), XK8 Coupe/Convertible up to (V) 042775, XK8 Coupe/Convertible - Canada/USA up to (V) 042775, XK8 Coupe/Convertible from (V) A00083 to (V) A30644 models.

Buy this part from Jaguar Classic Parts NOW!

Part Number	Price	Quantity
LNC1800AA	£455.60	<input type="text" value="1"/> ADD TO CART

This is part 1 on the illustration.

