

HawkEye



Includes
Application
Upgrade
3 and 4

A new diagnostic tool for Land Rover vehicles

At last a diagnostic tool that is truly portable and simple to use by the home or professional mechanic. Bearmach's HawkEye is an essential tool for Land Rovers and it is the electronic equivalent of a spare tyre – it will help you to identify problems quickly and accurately so you can initiate an immediate fix to keep the vehicle on the road.

“...it's the electronic equivalent of a spare tyre”

- Robust and self contained hand-held unit
- Does not require laptop or PC
- Easy, intuitive and user friendly
- Free unlock code for one Land Rover vehicle type
- Can be 'unlocked' to be used with other Land Rover models
- Future-proof – firmware can be upgraded as new applications are released
- Quick response
- Read fault codes
- Clear fault codes
- Live data
- Service reset
- Forced outputs/actuators
- Programming (specific applications only)
- Ideal for DIY enthusiasts as well as specialists



HawkEye

A new diagnostic tool for Land Rover vehicles

Designed and manufactured exclusively for Bearmach by Omitec Ltd using their experience in Land Rover Diagnostics.

The HawkEye diagnostic tool is extremely robust and comes with its own storage pouch. The keypad has large, well defined buttons and it is powered directly from the vehicle.

The clear graphical display is easy to read and features on-screen prompts to provide a quick response. The kit is supplied with a standard J1962 cable. Optional cables may be required for specific systems, please contact Bearmach for details.

The specific applications will allow you to access information from your vehicle. Functionality includes **READ** and **CLEAR** fault codes, **LIVE DATA**, **ACTUATORS**, Electronic Control Module Data and **PROGRAMMING** is available with some applications (see list inside).

When you purchase the HawkEye diagnostic tool you are automatically entitled to your **FREE** unlock code which will enable you to use the product on one Land Rover model of your choice.

Once purchased, the firmware of the unit is fully upgradeable as new applications are released.

You can also include more than one Land Rover model on your HawkEye diagnostic tool by purchasing further unlock codes, simply contact Bearmach on +44 (0)2920 856550 or www.bearmach.com for pricing information.



Land Rover Parts & Accessories

www.bearmach.com

HawkEye *...is the electronic equivalent of a spare tyre!*

At Bearmach we sincerely believe the HawkEye is every bit as useful as carrying a spare tyre with you. It's compact enough to carry in the glove-box at all times particularly if you're on a long holiday journey or off-road adventure.

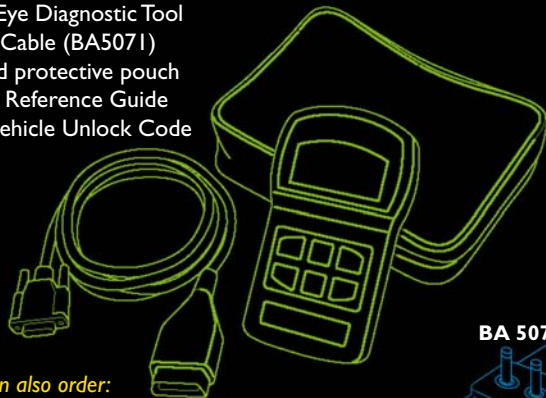
Modern vehicles have advanced engine management systems and hi-tech developments in suspension and braking systems – and so there's a host of problems that can only be properly identified using expensive equipment at the main dealers.

HawkEye is an inexpensive solution that gives the home mechanic or small independent garage the ability to diagnose most common faults. Once the fault is repaired, HawkEye can be used to verify the work and clear the fault codes.



The HawkEye Kit (BA 5070) includes:

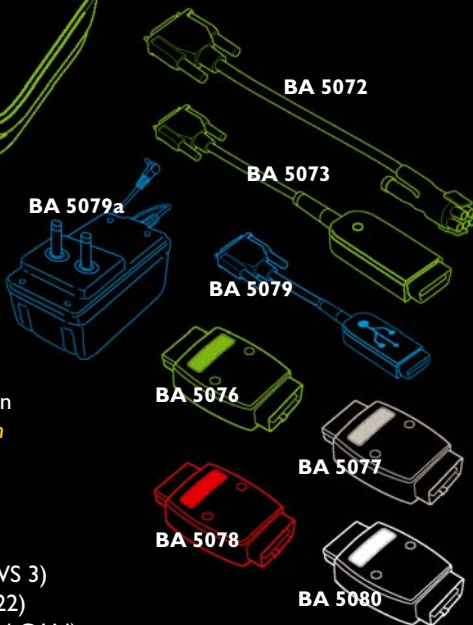
HawkEye Diagnostic Tool
J1962 Cable (BA5071)
Zipped protective pouch
Quick Reference Guide
One vehicle Unlock Code



You can also order:

- BA 5075 - Additional vehicle unlock code
 - BA 5075a - Full unlock code
 - BA 5079 - Upgrade cable (needed when upgrading new application firmware)
 - BA 5079a - 220v to 12v power supply. European 2 pin
- Should you require a different cable/adaptor (as shown in the Application List) please order:*
- BA 5072 - Land Rover Lucas 14CUX cable
 - BA 5073 - Land Rover Air Suspension cable
 - BA 5076 - Land Rover green adapter (10AS)
 - BA 5077 - Land Rover grey adapter (Teves MK25 EWS 3)
 - BA 5078 - Land Rover red adapter (Range Rover L322)
 - BA 5080 - Land Rover black adapter (Med/Low speed CAN)

Refer to the Application List inside to see the range of functions available for each vehicle



Includes Application Upgrade 3 and 4

This chart shows the vehicles and functions currently available and includes application upgrades 3 and 4. Please note that Bearmach operates a policy of continual improvement and reserve the right to alter specification without notice.

NOTE: A standard J1962 cable is included in the HawkEye kit but some applications (indicated below with an asterisk*) require an additional cable or adapter which is available from us as an optional extra.

3 = Application Upgrade 3 available January 2010 **4** = Application Upgrade 4 available March 2010

PROGRAMMING
ACTUATORS
ECM DATA
LIVE DATA
CLEAR DTCs
READ DTCs

Vehicle Model	System	Years	System Name							Cable	Adapter	
Defender	Diesel EMS	1999 - 2007	TD5	X	X	X	X	X	X	J1962 (BA 5071)		3
Defender	Petrol EMS	1994 - 2007	14CUX	X	X	X	X			14CUX (BA 5072)*		
Defender	Petrol EMS	1994 - 1995	GEMS	X	X	X	X			J1962 (BA 5071)		
Defender	Petrol EMS	1997 - 1998	MEMS 1.9	X	X	X	X			J1962 (BA 5071)		
Defender	ABS	1999 - 2007	WABCO D ABS	X	X	X	X	X		J1962 (BA 5071)		3
Defender	Security	1996 - 2007	10AS			X			X	J1962 (BA 5071)	Green (BA 5076)*	3
Defender (L316)	Diesel EMS	2007 -	Diesel Engine Management System	X	X	X	X			J1962 (BA 5071)		
Defender (L316)	ABS	1999 - 2007	WABCO D ABS	X	X	X	X	X		J1962 (BA 5071)		3
Defender (L316)	Security	1996 - 2007	10AS			X			X	J1962 (BA 5071)	Green (BA 5076)*	3
Freelander 1	Diesel EMS	1998 - 2001	Bosch EDC 1.3.1	X	X	X	X	X		J1962 (BA 5071)		
Freelander 1	Diesel EMS	2001 - 2006	Bosch DDE4	X	X	X	X			J1962 (BA 5071)		
Freelander 1	Petrol EMS	1998 - 2001	MEMS 1.9	X	X	X	X			J1962 (BA 5071)		
Freelander 1	Petrol EMS	2001 - 2006	MEMS 3	X	X	X	X	X		J1962 (BA 5071)		
Freelander 1	Petrol EMS	2001 - 2006	Siemens EMS2000	X	X	X	X	X		J1962 (BA 5071)		
Freelander 1	Petrol EMS	2001 - 2006	Siemens MS43	X	X	X	X	X		J1962 (BA 5071)		
Freelander 1	Transmission	1998 - 2006	Jatco	X	X	X				J1962 (BA 5071)		3
Freelander 1	ABS	1998 - 2001	WABCO D ABS	X	X	X	X	X		J1962 (BA 5071)		3
Freelander 1	ABS	2000 - 2001	TEVES MK20	X	X	X				J1962 (BA 5071)		
Freelander 1	ABS	2002 - 2006	TEVES MK25	X	X	X				J1962 (BA 5071)	Grey (BA 5077)*	
Freelander 1	Airbag	1998 - 2002	Autoliv ACU 4	X	X	X				J1962 (BA 5071)		3
Freelander 1	Airbag	2003 - 2006	Siemens SRE Smart	X	X	X				J1962 (BA 5071)		3
Freelander 1	Security	1998 - 2001	27VT - CCU			X		X		J1962 (BA 5071)		
Freelander 1	Security	2000 - 2002	EWS 3D	X	X	X	X			J1962 (BA 5071)	Grey (BA 5077)*	
Freelander 2 (L359)	Diesel EMS	2007 -	Diesel Engine Management System	X	X	X	X			J1962 (BA 5071)		
Freelander 2 (L359)	Petrol EMS	2007 -	Petrol Engine Management System	X	X	X	X			J1962 (BA 5071)		
Freelander 2 (L359)	Transmission	2007 -	Transmission	X	X	X	X			J1962 (BA 5071)		4
Freelander 2 (L359)	ABS	2007 -	Vehicle Dynamics Control Module	X	X	X	X			J1962 (BA 5071)		
Freelander 2 (L359)	Airbag	2007 -	Restraints Control Module	X	X	X				J1962 (BA 5071)		3
Freelander 2 (L359)	Security	2007 -	Body Controller	X	X	X	X			J1962 (BA 5071)		
Freelander 2 (L359)	Service	2007 -	Service Reset						X	J1962 (BA 5071)	Black (BA 5080)*	3
Freelander 2 (L359)	FFH	2007 -	Fuel Fired Heater	X	X	X	X			J1962 (BA 5071)	Black (BA 5080)*	3
Discovery Series I	Diesel EMS	1996 - 1998	Bosch EDC 1.3.1	X	X	X	X	X		J1962 (BA 5071)		
Discovery Series I	Petrol EMS	1995 - 1998	14CUX	X	X	X	X			14CUX (BA 5072)*		
Discovery Series I	Petrol EMS	1996 - 1998	GEMS	X	X	X	X			J1962 (BA 5071)		
Discovery Series I	Petrol EMS	1993 - 1998	MEMS 1.9	X	X	X	X			J1962 (BA 5071)		
Discovery Series I	ABS	1995 - 1996	WABCO C ABS	X	X	X	X			J1962 (BA 5071)		
Discovery Series I	Airbag	1996 - 1998	TRW SPS	X	X	X				J1962 (BA 5071)	Grey (BA 5077)*	3
Discovery Series I	Security	1996 - 1998	10AS			X			X	J1962 (BA 5071)	Green (BA 5076)*	3
Discovery Series II	Diesel EMS	1998 - 2005	TD5	X	X	X	X	X		J1962 (BA 5071)		3
Discovery Series II	Petrol EMS	1998 - 2005	Bosch M5.2.1	X	X	X	X	X		J1962 (BA 5071)		
Discovery Series II	Transmission	1998 - 2005	GS 8.87.x	X	X	X	X			J1962 (BA 5071)		3
Discovery Series II	ABS	1998 - 2005	WABCO D ABS/SLABS	X	X	X	X	X		J1962 (BA 5071)		3
Discovery Series II	Airbag	1998 - 2005	TRW Generation 4	X	X	X				J1962 (BA 5071)		3
Discovery Series II	Air Suspension	1998 - 2005	ACE	X	X	X	X	X	X	J1962 (BA 5071)		4
Discovery Series II	Air Suspension	1998 - 2005	WABCO D ABS/SLABS	X	X	X	X	X		J1962 (BA 5071)		3
Discovery Series II	Security	1998 - 2005	Valeo BCU			X		X	X	J1962 (BA 5071)		3
Discovery III (L319)	Diesel EMS	2005 -	Diesel Engine Management System	X	X	X	X			J1962 (BA 5071)		
Discovery III (L319)	Petrol EMS	2005 -	Petrol Engine Management System	X	X	X	X			J1962 (BA 5071)		
Discovery III (L319)	Transmission	2005 -	Transmission	X	X	X	X			J1962 (BA 5071)		4
Discovery III (L319)	ABS	2005 -	Vehicle Dynamics Control Module	X	X	X	X			J1962 (BA 5071)		
Discovery III (L319)	Airbag	2005 -	Restraints Control Module	X	X	X				J1962 (BA 5071)		3
Discovery III (L319)	Chassis	2005 -	Ride Level Control Module	X	X	X	X	X		J1962 (BA 5071)		
Discovery III (L319)	Security	2005 -	Body Controller	X	X	X	X			J1962 (BA 5071)	Black (BA 5080)*	
Discovery III (L319)	Service	2005 -	Service Reset						X	J1962 (BA 5071)		3
Discovery III (L319)	EPB	2005 -	Park Brake Module	X	X	X	X	X		J1962 (BA 5071)		
Discovery III (L319)	FFH	2005 -	Fuel Fired Heater	X	X	X	X			J1962 (BA 5071)	Black (BA 5080)*	3
Range Rover Classic	Petrol EMS	1990 - 1995	14CUX	X	X	X	X			14CUX (BA 5072)*		
Range Rover (P38a)	Diesel EMS	1995 - 2002	Bosch EDC 1.3.1	X	X	X	X	X		J1962 (BA 5071)		
Range Rover (P38a)	Petrol EMS	1999 - 2002	Bosch M5.2.1	X	X	X	X	X		J1962 (BA 5071)		
Range Rover (P38a)	Petrol EMS	1995 - 1999	GEMS	X	X	X	X			J1962 (BA 5071)		
Range Rover (P38a)	Transmission	1998 - 2002	GS 2.38	X	X	X	X			J1962 (BA 5071)		3
Range Rover (P38a)	Transmission	1998 - 2002	GS 8.87.x	X	X	X	X			J1962 (BA 5071)		3
Range Rover (P38a)	ABS	1995 - 1999	WABCO C ABS	X	X	X	X			J1962 (BA 5071)		
Range Rover (P38a)	ABS	1999 - 2002	WABCO D ABS	X	X	X	X	X		J1962 (BA 5071)		3
Range Rover (P38a)	Airbag	1998 - 2002	TRW SPS	X	X	X				J1962 (BA 5071)	Grey (BA 5077)*	3
Range Rover (P38a)	Air Suspension	1995 - 2002	Air Suspension	X	X	X	X	X	X	Airsus (BA 5073)*		
Range Rover (L322)	Diesel EMS	2002 - 2006	Bosch DDE4	X	X	X	X	X		J1962 (BA 5071)		
Range Rover (L322)	Diesel EMS	2007 -	Siemens SID 203	X	X	X	X			J1962 (BA 5071)		
Range Rover (L322)	Petrol EMS	2002 - 2005	Bosch ME7.2	X	X	X	X	X		J1962 (BA 5071)		
Range Rover (L322)	Petrol EMS	2006 -	Denso PAN PAG	X	X	X	X			J1962 (BA 5071)		
Range Rover (L322)	Transmission	2002 - 2006	GM5 / EGS 20	X	X	X	X	X		J1962 (BA 5071)		3
Range Rover (L322)	Transmission	2002 - 2005	ZF / EGS 8602	X	X	X	X	X		J1962 (BA 5071)		3
Range Rover (L322)	Transmission	2007 -	Transmission	X	X	X	X			J1962 (BA 5071)		4
Range Rover (L322)	ABS	2002 - 2006	Bosch 5.7	X	X	X				J1962 (BA 5071)	Red (BA 5078)*	
Range Rover (L322)	ABS	2006 -	Bosch 8	X	X	X	X			J1962 (BA 5071)		
Range Rover (L322)	Airbag	2002 - 2005	MRS 4	X	X	X				J1962 (BA 5071)	Red (BA 5078)*	3
Range Rover (L322)	Airbag	2006 -	Restraints Control Module	X	X	X				J1962 (BA 5071)		3
Range Rover (L322)	Air Suspension	2002 - 2005	EHC2	X	X	X	X	X	X	J1962 (BA 5071)	Red (BA 5078)*	
Range Rover (L322)	Chassis	2006 -	Ride Level Control Module	X	X	X	X	X		J1962 (BA 5071)		
Range Rover (L322)	Security	2002 - 2005	GM3	X	X	X	X			J1962 (BA 5071)	Red (BA 5078)*	
Range Rover (L322)	Security	2002 - 2005	EWS3	X	X	X	X			J1962 (BA 5071)	Red (BA 5078)*	
Range Rover (L322)	Service	2002 - 2005	Service Reset						X	J1962 (BA 5071)	Red (BA 5078)*	3
Range Rover (L322)	Service	2006 -	Service Reset						X	J1962 (BA 5071)		3
Range Rover (L322)	EPB	2006 -	Park Brake Module	X	X	X	X	X		J1962 (BA 5071)		
Range Rover (L322)	FFH	2006 -	Fuel Fired Heater	X	X	X	X			J1962 (BA 5071)	Black (BA 5080)*	3
Range Rover Sport (L320)	Diesel EMS	2005 -	Diesel Engine Management System	X	X	X	X			J1962 (BA 5071)		
Range Rover Sport (L320)	Petrol EMS	2005 -	Petrol Engine Management System	X	X	X	X			J1962 (BA 5071)		
Range Rover Sport (L320)	Transmission	2005 -	Transmission	X	X	X	X			J1962 (BA 5071)		4
Range Rover Sport (L320)	ABS	2005 -	Vehicle Dynamics Control Module	X	X	X	X			J1962 (BA 5071)		
Range Rover Sport (L320)	Airbag	2005 -	Restraints Control Module	X	X	X				J1962 (BA 5071)		3
Range Rover Sport (L320)	Chassis	2005 -	Ride Level Control Module	X	X	X	X	X		J1962 (BA 5071)		
Range Rover Sport (L320)	Security	2005 -	Body Controller	X	X	X	X			J1962 (BA 5071)	Black (BA 5080)*	
Range Rover Sport (L320)	Service	2005 -	Service Reset						X	J1962 (BA 5071)		3
Range Rover Sport (L320)	EPB	2005 -	Park Brake Module	X	X	X	X	X		J1962 (BA 5071)		
Range Rover Sport (L320)	FFH	2005 -	Fuel Fired Heater	X	X	X	X			J1962 (BA 5071)	Black (BA 5080)*	3