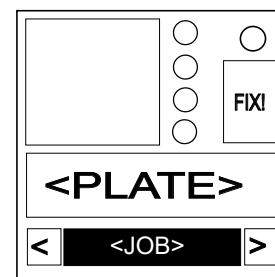# On the Subject of Maintenance

How to repair your car. Step 1: Call a mechanic. There is no step 2...

The module consists of a number plate, a job scroller, a fix button and a memo with the number of jobs that require completion: 2, 3 or 4.

Use the number plate tables to calculate information about the car.

Use the Venn diagram and Ordering Rules to determine the number of jobs that require maintenance and the order in which they should be completed.

Number Plate

The number plate is broken down into three parts.
The first two letters tell you the model of the car.

Plate Ref	Model	Multiplier	Plate Ref	Model	Multiplier
HN	Honda	2	AD	Audi	7
RN	Renault	3	BN	Mercedes-Benz	8
FD	Ford	4	PC	Porsche	9
MA	Mazda	5	FR	Ferrari	10
BM	BMW	6	–	–	–

The first two numbers tell you when the car was manufactured. New UK number plates are released in March and September. To find the car's age, multiply the base value of the year by the model multiplier.

Plate Ref	Manufactured	Base Value	Plate Ref	Manufactured	Base Value
51	Sept 2001	£50	57	Sept 2007	£125
02	Mar 2002	£60	08	Mar 2008	£150
52	Sept 2002	£60	58	Sept 2008	£150
03	Mar 2003	£70	09	Mar 2009	£175
53	Sept 2003	£70	59	Sept 2009	£175
04	Mar 2004	£80	10	Mar 2010	£200
54	Sept 2004	£80	60	Sept 2010	£200
05	Mar 2005	£90	11	Mar 2011	£250

Plate Ref	Manufactured	Base Value	Plate Ref	Manufactured	Base Value
55	Sept 2005	£90	61	Sept 2011	£250
06	Mar 2006	£100	12	Mar 2012	£300
56	Sept 2006	£100	62	Sept 2012	£300
07	Mar 2007	£125	13	Mar 2013	£400
63	Sept 2013	£400	17	Mar 2017	£800
14	Mar 2014	£500	67	Sept 2017	£800
64	Sept 2014	£500	18	Mar 2018	£900
15	Mar 2015	£600	68	Sept 2018	£900
65	Sept 2015	£600	19	Mar 2019	£1,000
16	Mar 2016	£700	69	Sept 2019	£1,000
66	Sept 2016	£700	–	–	–

The final three letters of the number plate are random. The final letter will tell you the insurance company.
N.B. the letters I, O, Q & Z are never used in UK number plates.

Last Letter	Insurance Company	Last Letter	Insurance Company
A, B, C	Admiral	N, P, R	Aviva
D, E, F	Swift	S, T, U	RAC
G, H, J	Axa	V, W	AA
K, L, M	Swinton	X, Y	Hastings Direct

Potential Jobs & Insurance Perks

Below, you will find a list of jobs you may encounter and their rates. Jobs designated with an [H] are considered "heavy" jobs.

Job #	Job	Price	Job #	Job	Price
1	Wash	£3	7	One tyre	£80
2	Headlight bulb	£6	8	Windscreen replacement [H]	£150
3	Wiper replacement	£10	9	Two tyres	£160
4	Oil change	£15	10	Four tyres	£320
5	Brake fluid change	£25	11	Exhaust welding [H]	£500
6	Windscreen chip	£40	12	Head gasket replacement [H]	£750

Insurance companies may cover different elements of the maintenance. The maintenance must still be undertaken, but no cost is incurred.

Job	Covered by:	Job	Covered by
Oil change	Hastings Direct, Swift & AA	Windscreen chip	Axa, RAC, Swinton & AA
One tyre	Swift & Aviva	Windscreen replacement	RAC
Two tyres	Aviva	Brake fluid change	AA & Admiral

Write-off Status

Occasionally, a car may be deemed to be a write-off. If this is the case, irrespective of how many or which jobs are required, select the "Write-off" option in the job scroller.
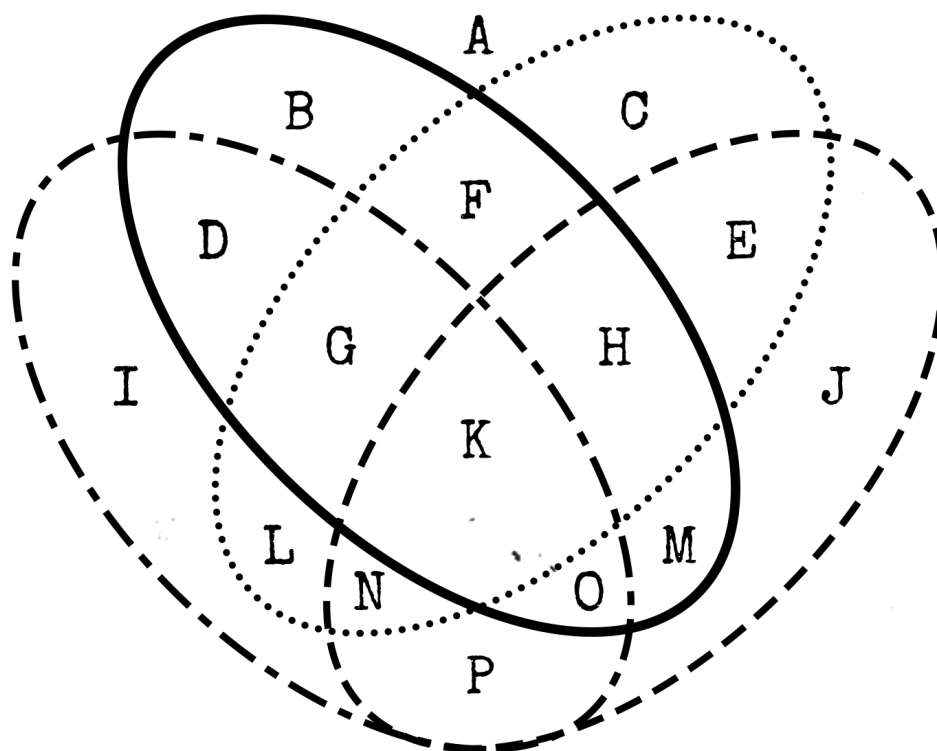A car is considered a write-off if either of the following conditions are met:

- It is a pre-2004 Honda.
- The cost of maintenance is greater than the value of the car.

Required Maintenance

Use the Venn diagram and table to determine which jobs need to be done. Take the first 2, 3 or 4 jobs from the list in the table as required.

Letter	Job Order	Letter	Job Order
A	5 – 1 – 9 – 11	I	1 – 7 – 6 – 11
B	2 – 12 – 8 – 10	J	7 – 11 – 1 – 2
C	3 – 2 – 1 – 6	K	1 – 10 – 11 – 12
D	4 – 10 – 6 – 1	L	7 – 3 – 5 – 8
E	6 – 4 – 10 – 2	M	2 – 9 – 11 – 3
F	8 – 4 – 5 – 12	N	1 – 2 – 3 – 4
G	1 – 7 – 3 – 6	O	11 – 9 – 2 – 5
H	12 – 5 – 3 – 8	P	8 – 7 – 5 – 3

– – – – –	Insurance company begins with an 'A'
▬ ▬ ▬ ▬	Car was plated in September
• • • • • • • • •	Number plate contains an 'M'
——————	Car model is Mercedez-Benz, Porsche or Ferrari

Ordering Rules

Jobs should be carried out in accordance with the following rules:

- Oil change and Wash must be done last. If both are required, do the Oil change before the Wash.
- Windscreen chip and Brake fluid change must be done first. If both are required, do the Windscreen chip before the Brake fluid change.
- Heavy jobs must be done before any tyre work.
- All other jobs should be done from cheapest to dearest.