

# Original BMW Parts and Accessories.

## Installation Instructions.



### BMW WaterBlade Retrofit.

**BMW X5 (G05)**

**BMW X6 (G06)**

**BMW X7 (G07)**

#### Retrofit kit number

61 61 5 A12 1A0 BMW WaterBlade kit

#### Installation time

The installation time is **approx. 0.5 hour**. This may vary depending on the condition of the car and its equipment package.

#### Important information

These installation instructions are primarily designed for use within the BMW dealership organisation and by authorised BMW service companies.

These installation instructions are intended for use by qualified specialist staff trained on BMW cars with the relevant expert knowledge.

All work must be completed using the latest BMW repair manuals, wiring diagrams, servicing manuals and work instructions, in a logical order, using the prescribed tools (special tools), and observing current health and safety regulations.

**If you experience installation or functional problems, restrict troubleshooting to approx. 0.5 hours for mechanical work and 1.0 hour for electrical work.**


To avoid unnecessary extra work and/or costs, please send an inquiry to the technical parts support team.

Quote the following information:

- VIN,
- retrofit kit part number,
- a detailed description of the problem,
- any work already carried out.

Please do not archive the printout of these installation instructions. The current version can be found in the EPC.

#### Pictograms

 Denotes instructions that draw your attention to dangers.

 Denotes instructions that draw your attention to special features.

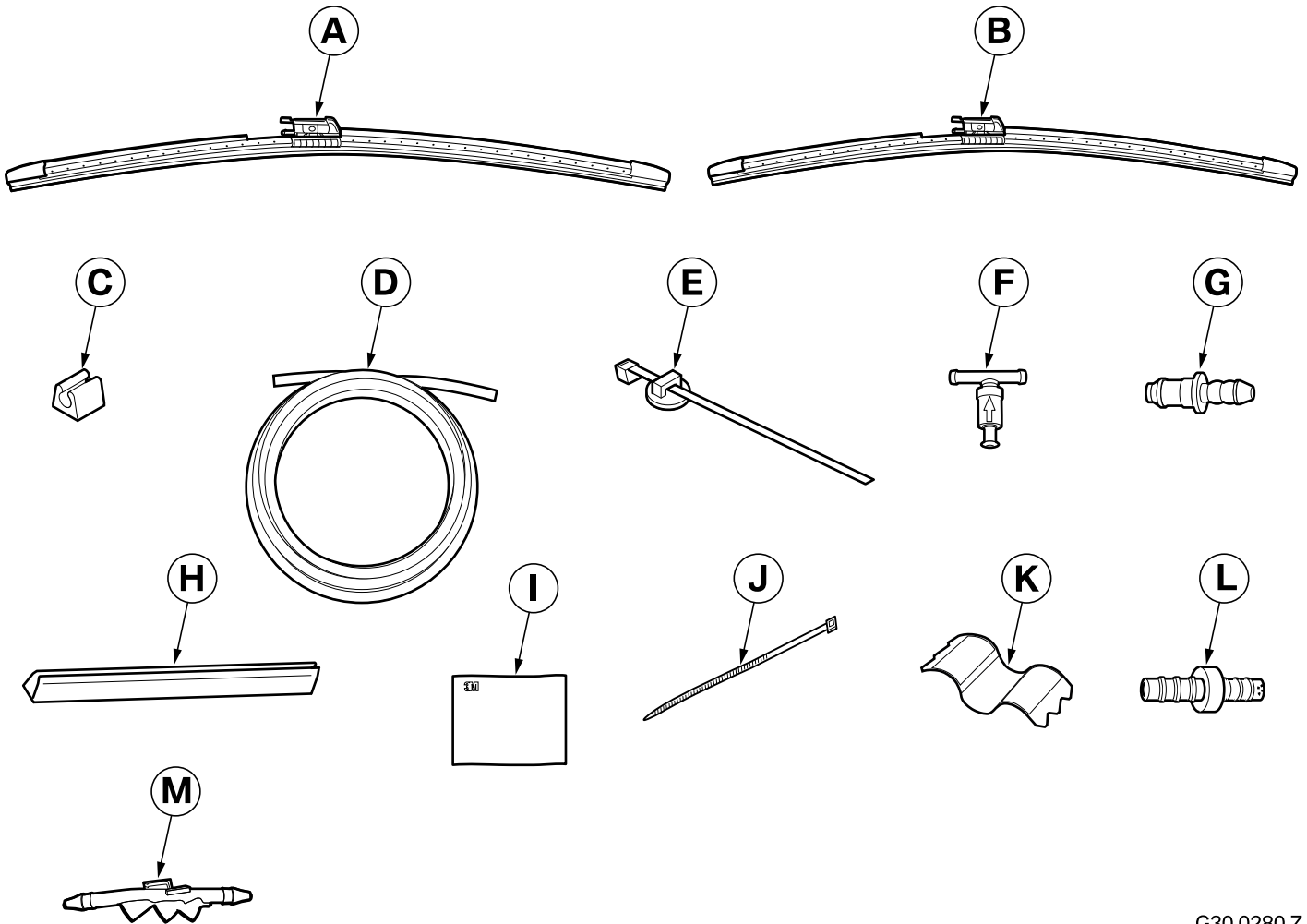
◀ Denotes the end of the instruction or other text.

#### Installation information

All illustrations show LHD cars; proceed in the same way on RHD cars.

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# 1. Parts list



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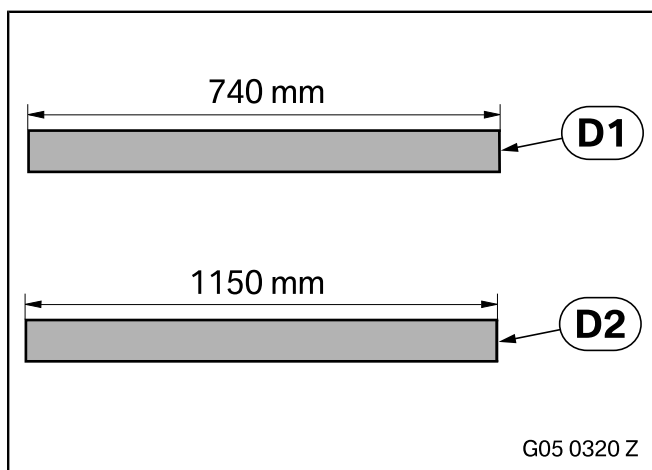
## Legend

- A** WaterBlade, driver's side
- B** WaterBlade, passenger's side
- C** Adhesive holder (6 x)
- D** 4000 mm hose
- E** Cable tie with holder (6 x)
- F** T joint with non-return valve
- G** Connector without non-return valve
- H** Wiper arm hose holder (4 x)
- I** Cleaning cloth (2 x)
- J** Cable ties (6 x)
- K** Hose clamp (2 x)
- L** Reducer piece
- M** 3-way nozzle

## 2. Preparations

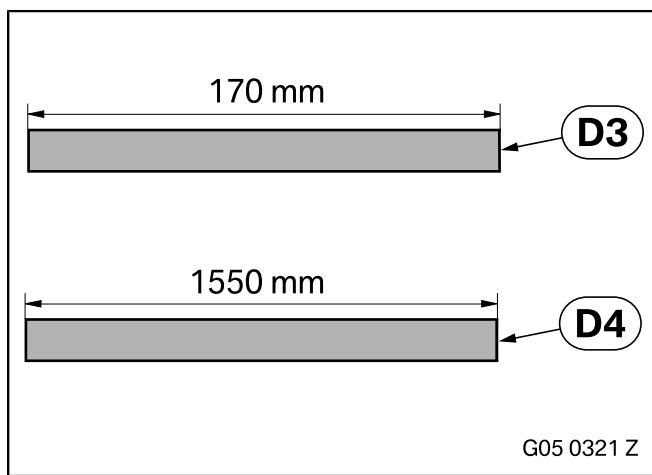
	ISTA/AIR No.
Instructions for handling the documents: Repair manual, technical data, tightening torques	00 11 ...
<b>The following components must be removed first of all</b>	
Both wiper blades (no longer required)	61 61 041
Front cowl panel cover	51 13 ...

### 3. Installing the BMW WaterBlade



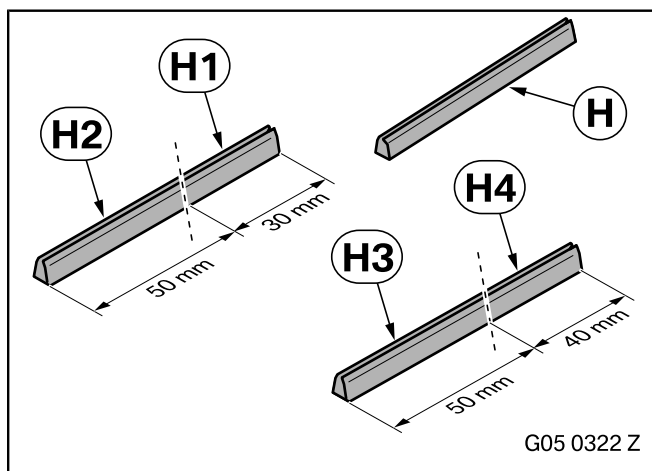
Cut the hoses **D1** and **D2** to length out of hose **D** as shown, using standard workshop equipment.

- Connect hose **D1** from the WaterBlade on the driver's side **A** to the reducer piece **L**
- Connect hose **D2** from the WaterBlade on the passenger's side **B** to the T joint with non-return valve **F**



Cut the hoses **D3** and **D4** to length out of hose **D** as shown, using standard workshop equipment.

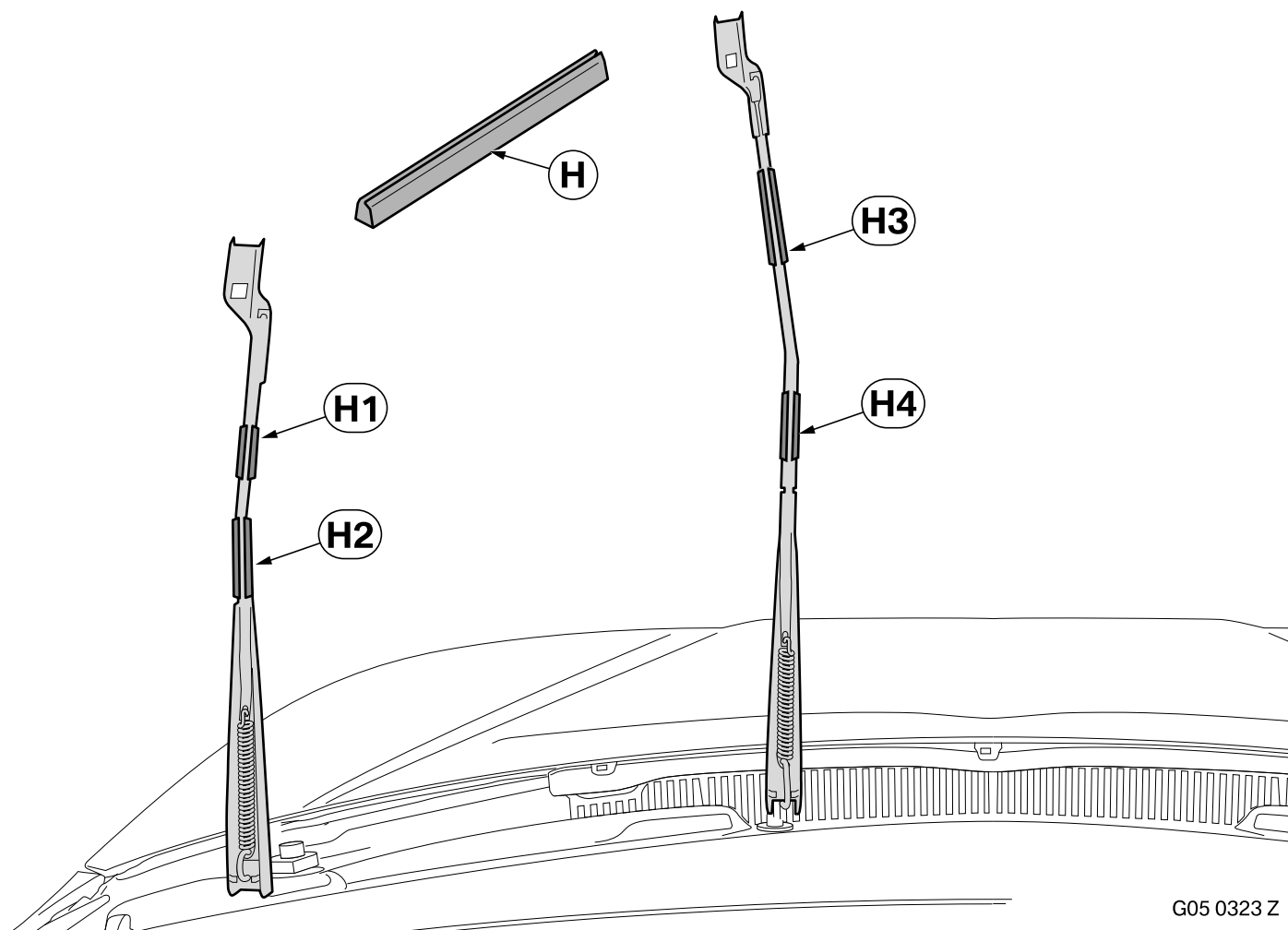
- Connect hose **D3** from the reducer piece **L** to the T joint with non-return valve **F**
- Connect hose **D4** from the T joint with non-return valve **F** to the quick-release fastening on the car



Cut wiper arm hose holders **H1-H4** to length out of wiper arm hose holder **H** as shown, using standard workshop equipment.

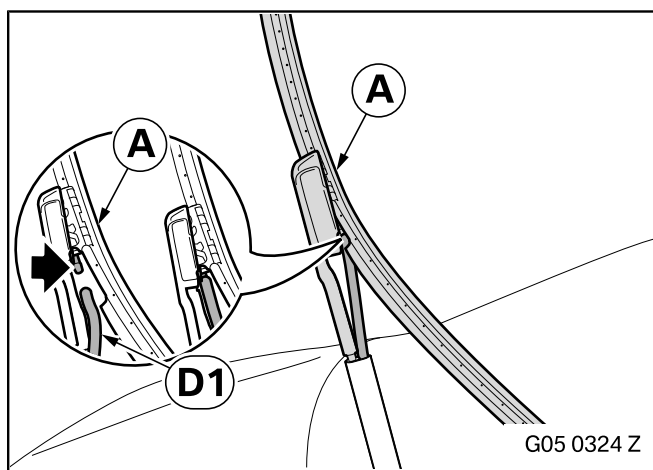
- Wiper arm hose holder **H1** and **H2** on the driver's side wiper arm.
- Wiper arm hose holder **H3** and **H4** on the passenger side wiper arm.

### 3. Installing the BMW WaterBlade



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Install wiper arm hose holders **H1-H4** (cut from hose holder **H**) as shown, using standard workshop equipment.



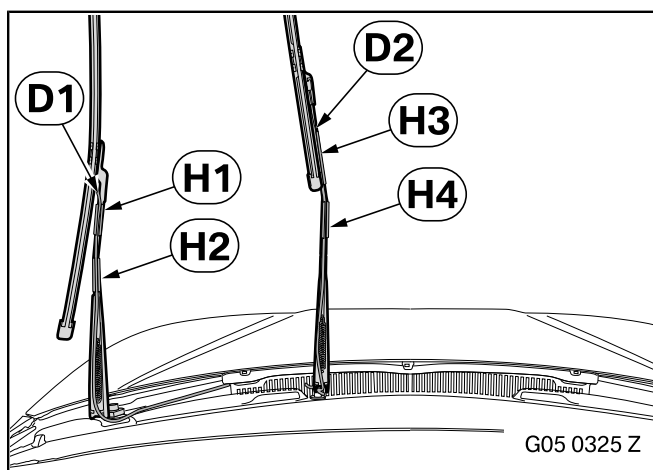
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▶ The illustration shows the left-hand side of the car. Proceed in the same way on the right-hand side. ◀

Connect the hose **D1** as shown to the WaterBlade on the driver's side **A**.

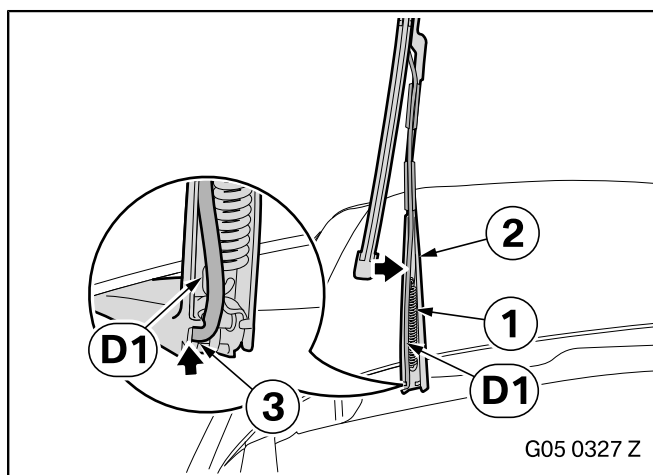
Install the WaterBlade **A** as described in **ISTA/AIR repair manual 61 61 041**.

### 3. Installing the BMW WaterBlade



Clamp hose **D1** in wiper arm hose holders **H1** and **H2** as shown.

Clamp hose **D2** in wiper arm hose holders **H3** and **H4** as shown.

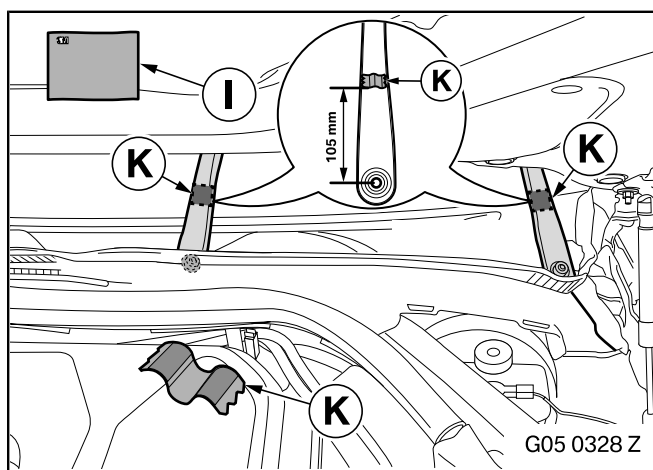


▶ The illustration shows the left-hand side of the car. Proceed in the same way on the right-hand side. ◀

Clamp hose **D1** between the spring (1) and wiper arm (2) as shown using a blunt tool.

Thread hose **D1** through the opening (3) as shown and route it to the front cowl panel cover.

### 3. Installing the BMW WaterBlade



☐ Clean the bonding surfaces on the inside of the wiper arms with the cleaning cloth **I** so that they are grease-free. ◀

☐ To ensure that the adhesive bonds as well as possible, pre-heat the wiper arms to a temperature of around 40 °C using a hot air blower (hand warm). ◀

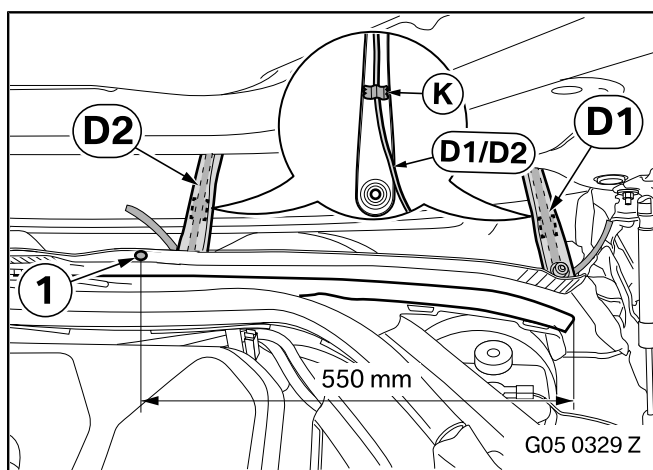
⚠ It is essential that you press each hose clamp **K** for 30 seconds to ensure that the adhesive bonds perfectly. ◀

Remove the backing film from the hose clamp **K**.

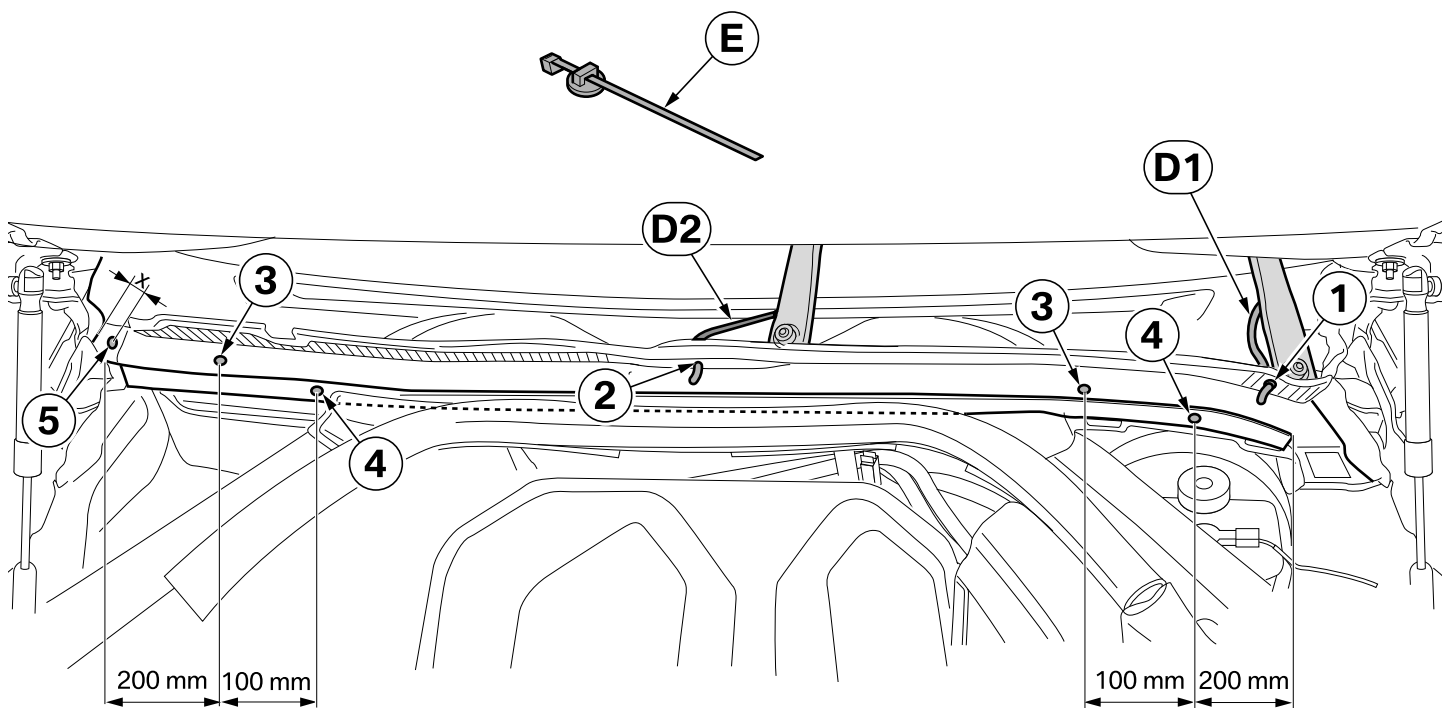
Bond the hose clamps **K** using the dimensions shown from the centre of the screw-on point of the wiper arm to the bottom edge of the hose clamps **K** on the inside of the wiper arm and press them into position for 30 seconds using the maximum pressure you can generate without tools.

Route hoses **D1** and **D2** through the opening in the hose clamps **K** and to the front cowl panel cover as shown.

Drill through the marked drilling point (1) on the rear rubber lip of the front cowl panel cover from the front using the dimensions shown with a 6.5 mm drill bit.



### 3. Installing the BMW WaterBlade



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▶ Make sure that no cables, electronic components or metal parts behind drilling point are damaged when you drill the holes. ◀

▶ When routing them, ensure that hoses **D1** and **D2** have enough freedom of movement and are not near any moving parts and cannot be kinked or crushed. ◀

Thread hose **D1** through the fifth opening in the front cowl panel cover (2) as shown.

Thread hose **D2** through the hole (1) as shown.

Drill through the marked drilling points (3) on the front cowl panel cover from above using the dimensions shown with a 6.5 mm drill bit and deburr it.

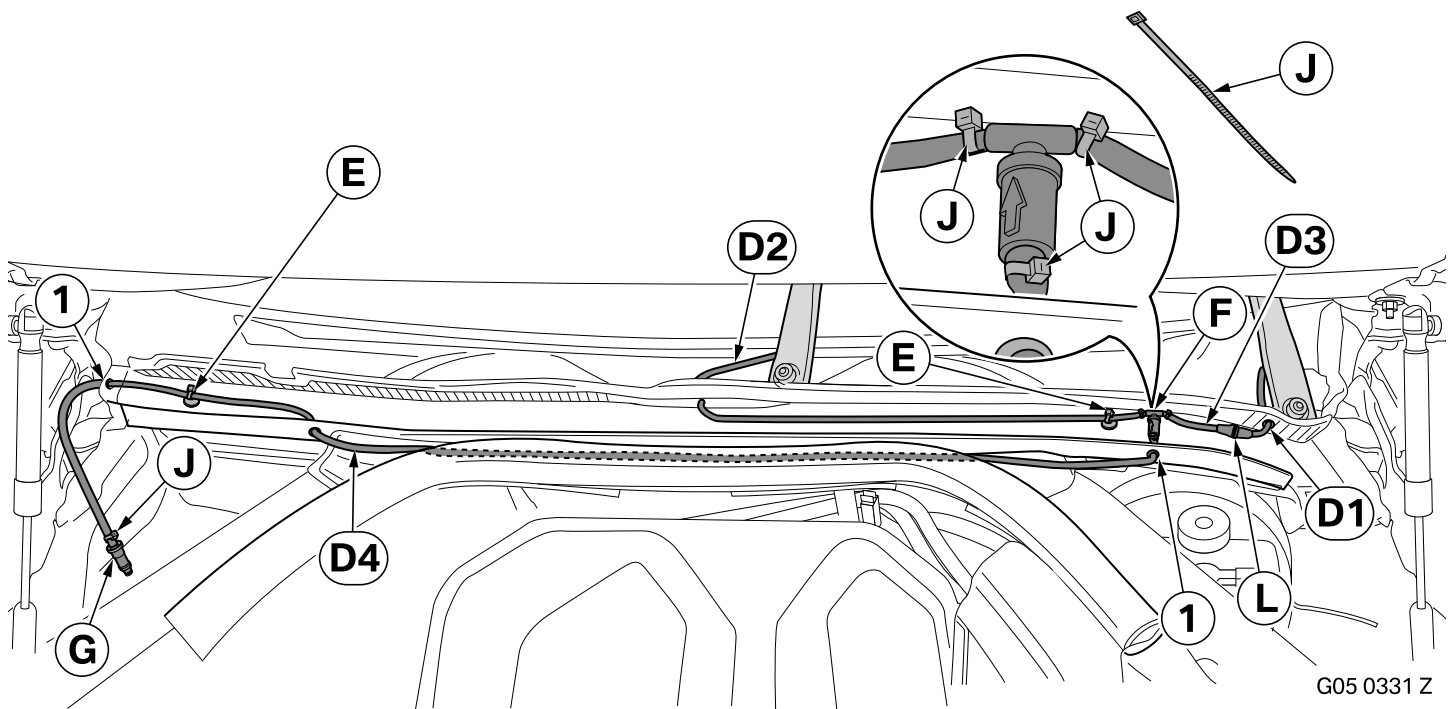
Drill through the marked drilling points (4) on the front rubber lip of the front cowl panel cover from the front using the dimensions shown with a 6.5 mm drill bit.

Drill through the marked drilling point (5) on the side of the front cowl panel cover using dimension **x** with a 6.5 mm drill bit.

– **x** = 30 mm

Insert cable ties with holder **E** into the drilled holes (3) and press them firmly into place.

### 3. Installing the BMW WaterBlade



⏏ When routing hoses **D1**, **D3** and **D4**, ensure that they have enough freedom of movement, are not near any moving parts and cannot be kinked or crushed. Adjust the hose lengths if necessary. ◀

Route hose **D1** as shown to the location of the reducer piece **L**, moisten it with lubricant, connect it to the reducer piece **L** and secure it with a cable tie **J**.

Route hose **D2** as shown to the location of the T joint with non-return valve **F**, moisten it with lubricant, connect it to the T joint with non-return valve **F** and secure it with a cable tie **J**.

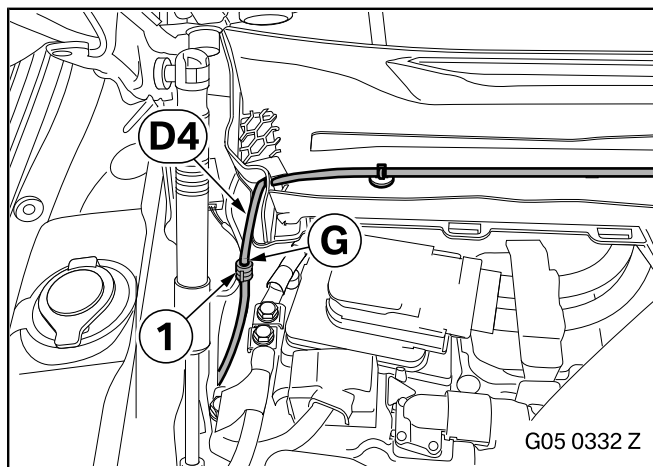
Moisten hose **D3** with lubricant, connect it to the T joint with non-return valve **F** and reducer piece **L** and secure it with a cable tie **J**.

Thread hose **D4** through the hole (1), moisten it with lubricant, connect it to the T joint with non-return valve **F**, secure it with a cable tie **J** and route it to the location of the quick-release fastening on the car.

Secure hoses **D2** and **D4** to the cable tie with holder **E**.

Moisten the connector without non-return valve **G** with lubricant, insert it into hose **D4** and secure it with a cable tie **J**.

### 3. Installing the BMW WaterBlade



Release the quick-release fastening on the car's nozzle chain and remove the connector. The nozzle chain is no longer required.

Insert the connector without non-return valve **G** into the car's quick-release fastening (1) and lock it.

Secure hose **D4** in a suitable place using standard workshop equipment to ensure access to the bonnet hinge.

## 4. Concluding work and coding

The retrofit system does not require programming/coding.

- Reassemble the car
- Conduct a visual inspection of the lines for kinks, chafing points and sagging sections (on the wiper arm by wiggling them)
- Check that the WaterBlade functions correctly and does not leak