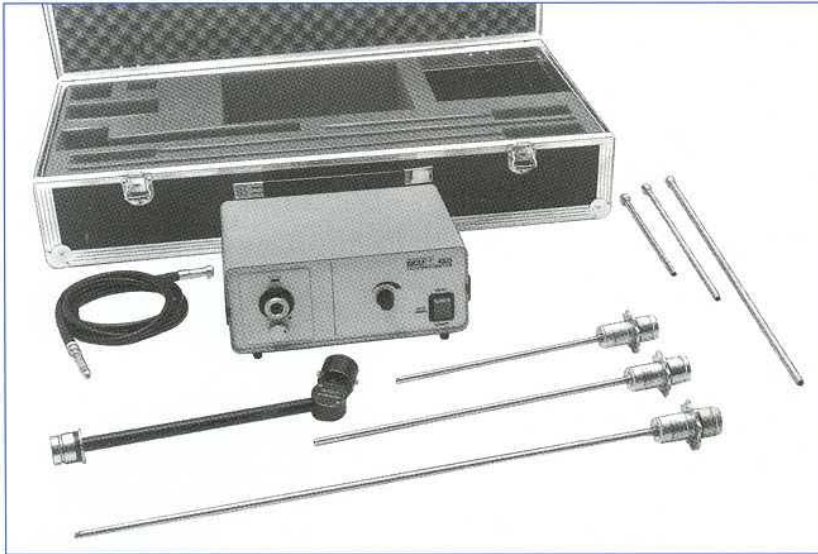




Vehicle inspections with rigid
and flexible Technoscopes

Technoscope Sets



Technoscope set, rigid „MB“

Order no.:1.65680.00*

Comprising:

- 3 technoscopes (9.65020.97, 9.65030.11, 9.65050.97)
- 3 reinforcing tubes (1.00820.00, 1.00830.00, 1.00850.00)
- 1 light source 150 W (1.40230.00)
- 1 angled attachment 60° (1.38001.60)
- 1 glass fibre light cable 2,3 m (1.40630.35)
- 1 carrying case (3.13000.06)

Technoscope set flexible TFA-5

Order no.:1.00565.00*

Comprising:

- 1 flexible Technoscope TFA-5 (7.05065.001)
- 1 light source 150 W (1.40230.00)
- 1 glass fibre light cable 2.3 m (1.40630.35)
- 1 carrying case (3.13003.03)



Technoscopes set

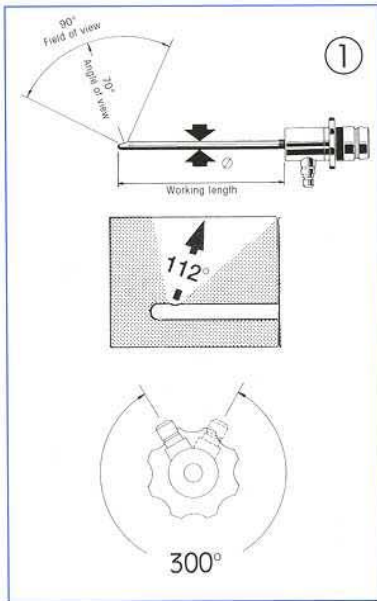
rigid „Basic“1.65380.00

Comprising:

- 1 Technoscope (9.65020.97)
- 1 reinforcing tube (1.00820.00)
- 1 light source 150 W (1.40230.00)
- 1 angled attachment 60° (1.38001.60)
- 1 glass fibre light cable 1.8 m (1.40610.35)
- 1 carrying case (3.13000.03)

* The rigid Technoscopes listed with Technoscope set „MB“ and the flexible Technoscope set TFA-5 have been tested and approved by DaimlerChrysler.

WOLF motor vehicle Technoscopes and accessories



① Technoscopes

Ø	Angle of view	Field of view	Working length	Order no.
6,5	70°	90°	160 mm	9.65016.97
			205 mm	9.65020.97
			300 mm	9.65030.97
			500 mm	9.65050.97
	112°	67°	300 mm	9.65030.11

Reinforcing tubes

for Technoscopes with Ø 6.5 mm
(for Diesel engines) screw on,
outer diameter 8 mm
(can be used for Otto engines)

to fit

9.65016.97	1.00816.00
9.65020.97	1.00820.00
9.65030.97/.11	1.00830.00
9.65050.97	1.00850.00

③ Light sources

Standard light source, 150-Watt-halogen lamp, variable brightness adjustment, metal casing, 220/115 Volt - 50 Hz, including lamp and power cable**1.40230.000**

Spare parts and accessories:

Spare lamp	2426.15
Carrying handle for light source	1.40230.980



④ Light transmitting cables

Light transmitting cable, PVC coated, extremely flexible, 1.80 m long, fibre bundle diameter 3.5 mm**1.40610.350**

Light transmitting cable, PVC coated, extremely flexible, 2.30 m long, fibre bundle diameter 3.6 mm**1.40630.350**



⑤ Angled attachments

Angle	Working length	Order no.
60°	270	1.38001.60



② Flexible WOLF Technoscope (TFA-5) 7.05065.001

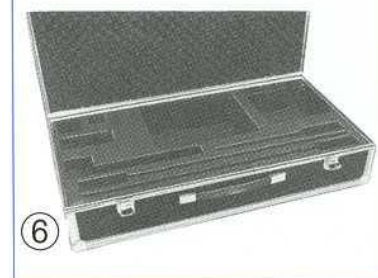
Probe diameter:	5 mm
Probe working length:	690 mm
Total length:	900 mm
View related to probe axis:	0° straight
Field of view:	90° wide angle
Deflection of the device tip:	180° to /90°down
Length of the deflectable tip:	45 mm
Bending radius:	13 mm
Outer jacket of flexible probe:	polyurethane

⑥ Carrying and storage case

Case suitable for holding up to 3 Technoscopes (2 x up to 500 mm, 1 x up to 300 mm in length), 1 light source, 1 angled attachment and the required cables and accessories**3.13000.06**

Carrying case suitable for holding up to 2 Technoscopes (up to 300 mm in length) 1 light source, 1 angled attachment and the required cables and accessories **3.13000.03**

Carrying case suitable for holding up to 1 flexible Technoscop TFA-5, 1 light source, 1 light transmitting cable and accessories**3.13003.03**



Vehicle inspections with rigid and flexible Technoscopes

The Technoscope (technical endoscope) is an optical diagnostic device for visual inspection of cavities in vehicles and engines. Technoscopes specially constructed for the motor industry mean that today almost all parts of a vehicle can be inspected without dismantling. This includes valves, cylinder surfaces, piston heads, cylinder heads of Otto and Diesel engines. Cavities in the car body or coachwork, gearbox, brakes and even fuel tanks can be "illuminated".

There are two basic types of Technoscope:

1. Rigid Technoscopes: These well-known "rods" have proved themselves in many applications and belong to the standard equipment of many workshops.
2. Flexible Technoscopes have found widespread use in other branches of industry for many years. A flexible vehicle Technoscope is an innovation suitable for vehicle work-shops for inspecting the new, extremely compact generation of engines.

The illumination for both Technoscope types is provided by a separate light source. The halogen light produced is guided to the inspection site by an extremely flexible glass fibre light cable and is emitted via the tip of the Technoscope. This is known as cold light because the tip of the Technoscope is not heated by the extremely bright light. This is particularly advantageous when illuminating wax-sealed cavities or when inspecting a petrol tank.

For general inspections on vehicles, rigid Technoscopes with an angle of view of 70° are suitable. In multi-valve engines, the thin bridges between the valves in the cylinder head and the valve discs can be visualised with a special 112° "retrograde" Technoscope. In the flexible vehicle Technoscope, the viewing tip is controlled or deflected by a control lever on the handle so that the angle of view varies from -90° to +280°.

R. WOLF Technoscopes provide an image that is sharp right up to the edges, has high-fidelity colour, is not inverted and has a high degree of contrast. Even the slightest damage, contamination or corrosion can be seen. Removable reinforcing tubes protect the high-quality optical systems in rough every day use.

When inspecting already installed engines, the Technoscope can be inserted but there is often not enough space to get to the eyepiece (this is typically the case with V engines). In this situation, an optical angled attachment fitted to the Technoscope makes viewing possible. In extremely narrow spaces, the flexible Technoscope is the ideal solution.



Valves of a multivalve engine



Valve seat



Broken valve



Outlet and inlet valves of a 4-valve engine



Valve trough through a spark plug socket



Drum brake through a screw hole



Furrows in the surface of a cylinder



Rust in a car door

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