

Tech Sheet: Messerschmit BF 109

(messerschmit-M109.pdf)



Focke Wulf 190 Canopy Cover & Insulated Engine Cover

Section 1: Canopy/Cockpit/Fuselage Covers

Canopy Covers help reduce damage to your airplane's upholstery and avionics caused by excessive heat, and they can eliminate problems caused by leaking door and window seals. They keep the windshield and window surfaces clean and help prevent vandalism and theft.

The **Messerschmit BF 109 Canopy Cover** is designed to enclose the windshield, all side windows and canopy roof. The Canopy Cover is custom designed for each model, as well as your aircraft's specific antenna and temperature probe placements. The Canopy Cover attaches using adjustable "belly straps", which run under the belly and connect to the other side of the cover with a quick-release plastic buckle. To ensure the most secure fit, high-quality shock cord is enclosed in the hem of the cover to help keep the cover tighter against the airplane. Canopy Covers are commonly referred to as Cabin Covers, Fuselage Covers, Canvas Covers, Canopy Caps, etc.

Each Canopy Cover is custom sewn and the corners are trimmed to match the colors of the airplane. The airplane's registration number can be imprinted onto both sides of the cover for an additional charge. A duffle bag is included with all Canopy Covers.

This cover type is made from Silver Acrylic Sunbrella canvas and is 100% lined with a soft and smooth microfiber. Bruce's Custom Covers developed this material combination especially for aircraft protection. The outer material is medium weight and treated for water resistance, UV resistance and anti-static buildup. The inner lining is a very soft and smooth microfiber to prevent scratching. The material is very reflective, and tests show that the cabin interior temperature can be reduced to near-ambient temperature on the hottest of days. It is water, ice and snow repellent, yet breathable to allow moisture to escape from between the cover and the aircraft surface.



Focke Wulf 190 Canopy Cover & Insulated Engine Cover



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| Description | Part Number | Price |
|--------------|-----------------|-----------------|
| CANOPY COVER | M109-000 | \$640.00 |

Prices subject to change. Other Covers and Design Alterations: Prices on request. Prices are FOB Morgan Hill, CA. Sales tax on orders shipped to California addresses. Orders take approximately 3 weeks to complete. For domestic orders we normally ship by UPS ground service. Next day shipping and air parcel post is available on request. We can take payment by Visa, Mastercard, American Express, or Discover.

Bruce's Custom Covers offers protective covers and plugs for virtually every type of airplane, jet and helicopter. If you have questions about our products please call any time TOLL FREE: 800/777-6405, or FAX: 408/738-2729.

Instructions: Measure to the nearest 1/8" and only fill in what applies. You may email, fax or phone in the measurements.

Aircraft Reg / Tail Number: _____ Aircraft Type: _____ Year: _____

Name: _____ Phone & Email: _____

OAT Placement

| | | | | | | | |
|------------------------|--|---------------------------|--------|-------|------------------------|--|---------------------------|
| A | From top of windshield | | | | | | |
| B | Offset from centerline | | | | | | |
| | <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; text-align: center;">Left</td> <td style="width: 34%; text-align: center;">Center</td> <td style="width: 33%; text-align: center;">Right</td> </tr> <tr> <td style="text-align: center;"><small>(pilot)</small></td> <td></td> <td style="text-align: center;"><small>(co-pilot)</small></td> </tr> </table> | Left | Center | Right | <small>(pilot)</small> | | <small>(co-pilot)</small> |
| Left | Center | Right | | | | | |
| <small>(pilot)</small> | | <small>(co-pilot)</small> | | | | | |
| C | Height | | | | | | |
| D | From FWD edge | | | | | | |
| E | From lower edge | | | | | | |
| F | From forward corner | | | | | | |
| G | Distance forward | | | | | | |



| Antenna Placements | Example <small>(inches or metric)</small> | Antenna #1 | | | Antenna #2 | | | Antenna #3 | | | Antenna #4 | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|---------------------------|--------|-------|------------------------|----------|---------------------------|---|------|--------|------------|------------------------|--|---------------------------|---|------|--------|-------|------------------------|--|---------------------------|---|------|--------|-------|------------------------|--|---------------------------|---|------|--------|-------|------------------------|--|---------------------------|
| H Distance from top center windshield to front of Antenna | 34 5/8" | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| J Length/Width of Antenna base | 5 1/2" x 3 1/4" | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| K Offset from Centerline | 9 1/2" | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Antenna Offset (mark one) | <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; text-align: center;">Left</td> <td style="width: 34%; text-align: center;">Center</td> <td style="width: 33%; text-align: center;">Right</td> </tr> <tr> <td style="text-align: center;"><small>(pilot)</small></td> <td style="text-align: center;">X</td> <td style="text-align: center;"><small>(co-pilot)</small></td> </tr> </table> | Left | Center | Right | <small>(pilot)</small> | X | <small>(co-pilot)</small> | <table style="width: 33%; border-collapse: collapse;"> <tr> <td style="width: 33%; text-align: center;">Left</td> <td style="width: 34%; text-align: center;">Center</td> <td style="width: 33%; text-align: center;">Right</td> </tr> <tr> <td style="text-align: center;"><small>(pilot)</small></td> <td></td> <td style="text-align: center;"><small>(co-pilot)</small></td> </tr> </table> | Left | Center | Right | <small>(pilot)</small> | | <small>(co-pilot)</small> | <table style="width: 33%; border-collapse: collapse;"> <tr> <td style="width: 33%; text-align: center;">Left</td> <td style="width: 34%; text-align: center;">Center</td> <td style="width: 33%; text-align: center;">Right</td> </tr> <tr> <td style="text-align: center;"><small>(pilot)</small></td> <td></td> <td style="text-align: center;"><small>(co-pilot)</small></td> </tr> </table> | Left | Center | Right | <small>(pilot)</small> | | <small>(co-pilot)</small> | <table style="width: 33%; border-collapse: collapse;"> <tr> <td style="width: 33%; text-align: center;">Left</td> <td style="width: 34%; text-align: center;">Center</td> <td style="width: 33%; text-align: center;">Right</td> </tr> <tr> <td style="text-align: center;"><small>(pilot)</small></td> <td></td> <td style="text-align: center;"><small>(co-pilot)</small></td> </tr> </table> | Left | Center | Right | <small>(pilot)</small> | | <small>(co-pilot)</small> | <table style="width: 33%; border-collapse: collapse;"> <tr> <td style="width: 33%; text-align: center;">Left</td> <td style="width: 34%; text-align: center;">Center</td> <td style="width: 33%; text-align: center;">Right</td> </tr> <tr> <td style="text-align: center;"><small>(pilot)</small></td> <td></td> <td style="text-align: center;"><small>(co-pilot)</small></td> </tr> </table> | Left | Center | Right | <small>(pilot)</small> | | <small>(co-pilot)</small> |
| Left | Center | Right | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <small>(pilot)</small> | X | <small>(co-pilot)</small> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Left | Center | Right | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <small>(pilot)</small> | | <small>(co-pilot)</small> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Left | Center | Right | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <small>(pilot)</small> | | <small>(co-pilot)</small> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Left | Center | Right | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <small>(pilot)</small> | | <small>(co-pilot)</small> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Left | Center | Right | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <small>(pilot)</small> | | <small>(co-pilot)</small> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| L Slope length of Antenna (types 1-3 only) | 18" | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M Antenna Type (see types below) | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



Instructions: Measure to the nearest 1/8" and only fill in what applies. You may email, fax or phone in the measurements.

Aircraft Reg / Tail Number: _____ Aircraft Type: _____ Year: _____
 Name: _____ Phone & Email: _____

Propellor Measurements

| Please check one: | 2 - Blade | 3 - Blade | 4 - Blade |
|--|-----------|-----------|-----------|
| A Measure along surface of cone | | | |
| B Measure "straight line" base to tip | | | |
| C Base to top of blade root opening | | | |
| D Provide diameter or circumference | | | |
| E Provide diameter or circumference | | | |
| F Blade root to prop tip | | | |
| G Trailing edge to leading edge | | | |
| H Trailing edge to leading edge | | | |
| J Trailing edge to leading edge | | | |

