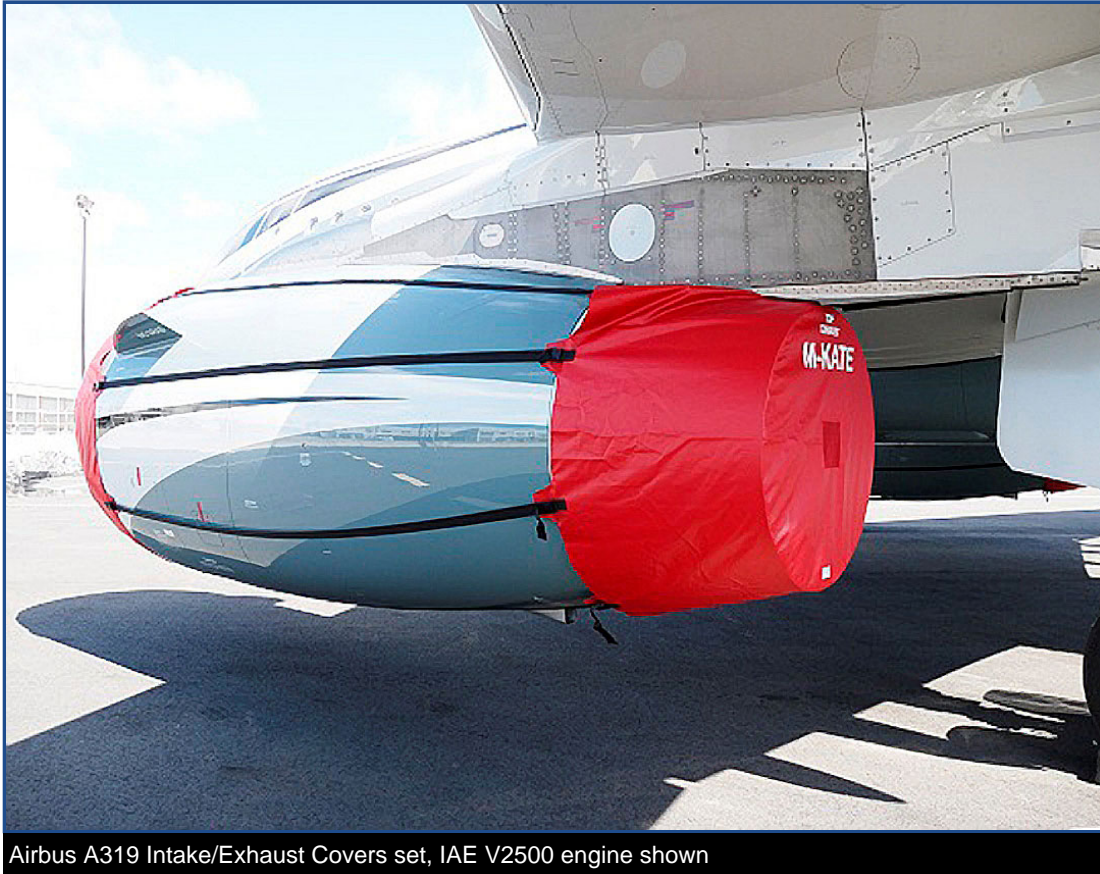


Tech Sheet: Airbus A319

(airbus-A319.pdf)



Airbus A319 Intake/Exhaust Covers set, IAE V2500 engine shown

Section 2: Engine Covers

Tri-Fold Ring Engine Covers are designed to install easily yet be completely storable. A spring steel hoop is sewn into the hem of each cover, allowing them to be installed without climbing onto the wing or using a stepladder in many cases. To store the covers the spring steel hoop folds like a band-saw blade into three nesting rings. Each cover folds into a compact circular bundle which is stored in the included duffle bag, yet they unfold quickly for use. The Tri-Fold Ring cover is made of medium weight Solution-Dyed Polyester which is available in a variety of colors to match the paint trim. Each cover set comes complete with installation and folding instructions. The aircraft's registration number can be silkscreened onto the cover for an extra charge.

Off-Link Engine Covers protect commercial aircraft engines while in storage. They protect the engine from the elements, prevent surface contamination from oil leaks, and help stop "parts robbing". There are three types: Complete, partial and component covers.

Complete covers enclose the entire engine. There are openings for mount points and engine access. Closures are heavy duty zippers, secured or tightened with straps and industrial buckles. High visibility reflective strips are sewn around the perimeter to enhance safety, and to prevent collisions from moving vehicles. Directional indicators, company insignia, and a forms pouch are sewn onto each cover. Where needed strap loops are placed at hoist points for easy and fast installation. Locking mechanisms can be installed on the cover to help prevent unauthorized access.

Partial covers are designed as "Rain Caps", which cover the top and sides but do not prevent oil contamination from the engine to the surface below. Their construction details are similar to the complete cover designs, but they can be easier to install.

Component Covers

, such as intake or exhaust covers, are designed according to customers' specifications. A wide variety of materials and attachment details are available, as well as custom imprinting.

FABRIC & THREAD: For strength, durability and ease of use we make these covers of the heaviest nylon ballistic cloth. It is sewn in multiple courses with *Tenara* thread, and reinforced with heavy vinyl cloth at high-wear points.



IAE V2500 QEC OFF-LINK JET ENGINE COVER, "rain cap" style



Airbus 340 Intake Covers

Description	Part Number	Price
INTAKE COVERS, CFM56-5B engine (set of 2)	A319-100	\$3690.00
INTAKE COVERS, IAE V2500 engine (set of 2)	A319-105	\$3690.00
INTAKE/EXHAUST COVERS, IAE V2500 engine (connect to each other w/ adjustable length straps) (set of 4)	A319-106	\$7315.00
QEC OFF-LINK ENGINE SHIPPER/TRANSPORT, LONG-TERM STORAGE COVER "BAG" or "ENVELOPE", V2500 Series (Airbus 319, 320), fully enclosed, no C&A exhaust nozzle	A319-700	\$3250.00
QEC OFF-LINK ENGINE SHIPPER/TRANSPORT, LONG-TERM STORAGE COVER "BAG" or "ENVELOPE", V2500 Series (Airbus 319, 320), fully enclosed, w/ C&A Exhaust Nozzle	A319-705	\$3565.00
QEC OFF-LINK ENGINE LONG-TERM STORAGE "Rain Cap" Style COVER, V2500 Series (Airbus 319, 320), "rain cap"	A319-710	\$2625.00

Section 3: Plugs & Protection

The **Engine Exhaust Plugs** are custom fit for your Airbus A319 exhaust openings, made with heavy-duty vinyl material, and stuffed with a single block of sculpted urethane foam. Each plug has a zipper that allows the foam to be removed and dried if necessary. Exhaust plugs have 'remove before flight' streamers sewn onto the face of the plugs. Most plugs are embroidered with the aircraft registration number in black. Exhaust plugs may be inserted soon after flight when the engine is still warm. Engine Inlet Plugs are commonly referred to as Cowl Plugs, Intake Plugs, Cowl Blocks, Engine Blocks, and Engine Bungs.

Description	Part Number	Price
BYPASS & EXHAUST PLUGS, CFM-56 Engines (set of 6)	A319-200	\$3690.00
EXHAUST NOZZLE PLUG, IAE V2500 engine, equivalent to IAE P/N: IAE1N20008 (each)	A319-205	\$1180.00

Section 4: Wing/Tail/Empenage Covers

The **Airbus A319 Wing Covers** are a perfect solution to protect your paint from sun damage and prevent winter frost, snow, ice

buildup, and corrosion. They are made from Solution-Dyed Polyester or Acrylic *Sunbrella* and form-fit to slip around each wing tip, cover the entire upper surface of the wing and wrap around the leading and trailing edges. The covers secure under the wing with adjustable straps from the trailing edge to the leading edge. The wing covers can also attach to each other with adjustable straps at the leading and trailing edges of the wing under the belly of the plane. In some instances, cut-outs are made in the trailing edge of the wing covers to accommodate static wicks. We have the ability to also accommodate wing tip modifications, such as STOL kits, droop tips, and vortex generators. Wing covers are labeled LEFT and RIGHT for your convenience. Wing Covers are available for winter use or long-term, all-year use. A Hail Protection version can be made which incorporates very dense closed cell foam into the entire upper surface of the wing covers to help prevent hail damage. Although these covers are bulky, they do help protect your wing and control surfaces against small to medium-size hail.

Horizontal Stabilizer Covers are a perfect solution to protect your paint from sun damage and prevent frost, snow, ice buildup, and corrosion. They are made from Solution-Dyed Polyester or Acrylic *Sunbrella*. They cover the entire upper surface of the stabilizers and overlap around the leading and trailing edges as well as the wing tip. The covers secure under each stabilizer with adjustable straps. In some instances, cut-outs are made in the trailing edge of the wing covers to accommodate static wicks. Horizontal Stabilizer Covers are available for winter use or long-term all year use, and are normally made from Solution-Dyed Polyester or Acrylic *Sunbrella*. A Hail Protection version can be made which incorporates dense closed cell foam into the entire upper surface of the wing covers to help prevent hail damage. Although these covers are bulky, they do help protect your wing and control surfaces against small to medium-size hail.

Description	Part Number	Price
WING COVERS (set of 2)	A319-400	\$6625.00
HORIZONTAL STABILIZER COVERS (set of 2)	A319-500	\$1495.00

Section 5: HeatShields & Sun Reflectors

Heatshield Interior Reflectors are made of a special laminate of metallized polyester film and closed cell foam. Less than 1/8" thick, the Reflector can fold up flat and store in a sleeve, yet is stiff enough when flat to stand up against the windshield using the sun visors and window framing only. On some designs no Velcro or suction cups are necessary. **Heatshields** are an excellent short-term remedy for cockpit overheating, but use the **Cockpit Cover** for more effective and practical long term protection.

Description	Part Number	Price
COCKPIT HEATSHIELDS (set of 6)	A319-900	\$450.00

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.

Aircraft Cover Ordering Form

Customer Info	Name _____ Shipping Address _____ _____ Phone & Email _____
Payment	Credit Card Number <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Exp. Date <input type="text"/> <input type="text"/> / <input type="text"/> <input type="text"/> V-Code* <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <small>*Visa, Mastercard, Discover: last 3 numbers on back of card, right of signature. Amex: 4 smaller numbers printed on face of card.</small>
A/C Info	Reg / Tail Number: _____ Aircraft Type: _____ Year: _____ Colors / Paint Scheme (be specific): _____

Please specify below the items you would like to order.
See technical sheet or visit our website for part numbers (or just fill in the description)

	Part Number	Quant	Description	Price
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				

Optional Items (check the box of the item you want)

Imprint aircraft registration number onto both sides of canopy cover.....\$30.00

Imprint aircraft registration number onto Jet intake covers.....\$50.00

TOTAL