BOEING 787: FIBER INSPECTION AND CLEANING

Inspect with FBP Probe and HD-series Display; Clean with CleanBlast System

USER MANUAL



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Patents RibbonDrive Tips: US Patent No. 6,751,017 / 6,879,439 CleanBlast: US Patent No. 7,232.262

- **Tested Equipment** All pre-qualification tests were performed internally at JDSU, while all final tests were performed externally at an independent, accredited laboratory. This external testing guarantees the unerring objectivity and authoritative compliance of all test results. JDSU's Commerce and Government Entities (CAGE) code under the North Atlantic Treaty Organization (NATO) is 0L8C3.
 - FCC Information Electronic test equipment is exempt from Part 15 compliance (FCC) in the United States.
 - European Union Electronic test equipment is subject to the EMC Directive in the European Union. The EN61326 standard prescribes both emission and immunity requirements for laboratory, measurement, and control equipment. This unit has been tested and found to comply with the limits for a Class A digital device.

Independent This unit has undergone extensive testing according to the European Union Directive and Laboratory Testing Standards.

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INTRODUCTION TO FIBER INSPECTION

FIBER INSPECTION OVERVIEW

Contamination is the number 1 reason for troubleshooting optical networks. A single particle mated into the core of a fiber can cause significant back reflection, insertion loss, and equipment damage. Visual inspection is the only way to determine if fiber connectors are truly clean before mating them.

The JDSU video fiber inspection probe and handheld display system is used to quickly and easily inspect connector end faces, which ultimately minimizes signal loss and optimizes test conditions. FBP-series video probes are dual-magnification (200/400X), high-performance handheld microscopes designed



for inspecting both *female* (bulkhead) and *male* (patch cord) connectors. The probe microscope can also be combined with a USB converter module to inspect connectors via compatible test platforms and PC/laptop. This versatile system offers a wide range of configurable solutions that can meet the demands of any application.

Our comprehensive selection of precision, stainless-steel fiber inspection tips, adapters, and guides are carefully engineered to produce consistent and accurate results. They are interchangeable and designed with a unique optics architecture that enables the probe to interface with every connector and application in your network.

INSPECT BEFORE YOU CONNECT

Implementing a **simple** *yet* **important** process of proactively inspecting and cleaning before mating can prevent poor signal performance and equipment damage.

BENEFITS OF PROACTIVE INSPECTION

Proactively inspecting fiber optic connectors will...

- Reduce Aircraft On Ground (AOG) Instances
- Reduce Troubleshooting
- Optimize Signal Performance
- Prevent Damage to Network Hardware



FIBER OPTIC CONNECTORS

SINGLE FIBER CONNECTORS

Also called simplex connectors, these types contain a single fiber located in the center of a ceramic zirconia ferrule. The alignment of the mated connectors/fibers is achieved inside a ceramic or bronze mating sleeve within the bulkhead adapter.

Body

Houses the ferrule that secures the fiber in place; utilizes a latch and key mechanism that aligns the fiber and prevents the rotation of ferrules of two mated connectors.



Ferrule

Thin cylinder where the fiber is mounted that acts as the fiber alignment mechanism; the end of the fiber is located at the end of the ferrule.

Fiber

Cladding

Glass layer surrounding the core that prevents the signal in the core from escaping.

Core

The critical center layer of the fiber; the conduit that light passes through.



Physical Contact

MIL-AERO CONNECTORS

ARINC 801

Mil-Aero connectors are fiber optic connectors used in aerospace applications. Established by the Airlines Electronic Engineering Committee (AEEC), ARINC 801 is part of the ARINC 800 series of fiber optic standards for avionics networking. All ARINC 801 connectors utilize a 1.25 mm ferrule and are mated in a pin and socket configuration. While all of the ARINC 801 connectors utilize a **"plug and receptacle"** design, there are different design types within the standard.



FBP Probe Microscope

KEY TERMS

Plug:	The male interface of an ARINC 801 connection.
Receptacle:	The female interface of an ARINC 801 connection.
Pin:	The exposed 1.25 mm ferrule.
Socket:	The unexposed ferrule inside the alignment sleeve.



JDSU ALIGNMENT GUIDES

JDSU offers a series of alignment guides that fit the shell sizes of the respective plug and receptacle of various ARINC 801 connectors. These guides provide a compatible interface for the inspection and cleaning of pins or sockets specific to each type of connector. With the JDSU FBP probe microscope and handheld video display, JDSU's ARINC 801 alignment guides provide the means for a quick and easy inspection of these rugged, multi-termini connectors, in a field or factory environment. In addition, these guides can also be used with the JDSU CleanBlast[™] system to clean away debris and dirt from the optical end-faces of ARINC 801 connectivity.



EFFECT ON SIGNAL PERFORMANCE

THE PROBLEM

Dirt is everywhere, and a typical dust particle (2–15 µm in diameter) can significantly affect signal performance and cause permanent damage to the fiber end face. Most field test failures can be attributed to dirty connectors, and most of them are not inspected until the problem is detected, after permanent damage has already occurred.

When dirt particles get on the core surface, light becomes blocked, creating unacceptable insertion loss and back-reflection. Furthermore, these contamination particles can permanently damage the glass interface by digging into the glass and leaving pits when mated, causing further signal loss. Damage also occurs when large particles of dirt on the cladding layer and/or the ferrule cause barriers that prevent physical contact, creating air gaps between the fiber connection. These large particles are also known to break apart and migrate across the fiber surface when mated.







Back Reflection = -32.5 dB Total Loss = 3.2 dB

FIBER CONTAMINATION AND ITS EFFECT ON SIGNAL PERFORMANCE



This OTDR trace illustrates a significant decrease in signal performance when dirty connectors are mated.

INSPECT BEFORE YOU CONNECT

THE SOLUTION

INSPECT BEFORE YOU CONNECT

By implementing a **simple** *yet* **important** process of **proactively** inspecting and cleaning before mating, you can prevent poor signal performance and equipment damage.



PROACTIVE INSPECTION

Loose debris and dirt are much easier to clean prior to mating the 2 connector sides. By visually inspecting fiber connectors at every stage of handling **before** mating them, you are **proactive** in preventing signal loss and equipment damage. **Connectors are much easier to clean prior to mating, before embedding debris into the fiber.**





REACTIVE INSPECTION

If dirty connectors are not inspected and cleaned prior to mating, dirt and debris can embed into the fiber surface causing permanent damage. By visually inspecting **after** a problem is discovered, you are taking a **reactive** approach. **By this time, connectors and other equipment may have suffered permanent damage.**





USER MANUAL

WHERE INSPECTION SHOULD OCCUR

Inspection of fiber end faces is CRITICAL at EVERY STAGE of handling fiber.



INSPECT: BULKHEAD (Single Fiber Connectors)



INSTALL TIP AND BARREL ASSEMBLY

1. Install the appropriate inspection tip and barrel assembly (FBPP-BAP1) to the probe microscope.

Note: Standard tips require barrel assembly.



INSPECT BULKHEAD

- 2. Insert the probe into the bulkhead to inspect.
- **3.** Turn the *focus control* on the probe to focus the fiber image on the display.
- **4.** Determine whether **clean** or **dirty**.
 - If clean, do not touch it and CONNECT.
 - If dirty, and if cleaning is required, CLEAN.



INSPECT: PATCH CORD (Single Fiber Connectors)



INSTALL TIP AND BARREL ASSEMBLY

1. Install the appropriate inspection tip and barrel assembly (FBPP-BAP1) to the probe microscope.

Note: Standard tips require barrel assembly.



INSPECT PATCH CORD

- **2.** Attach the patch cord to the probe microscope to inspect.
- **3.** Turn the *focus control* on the probe to focus the fiber image on the display.
- **4.** Determine whether **clean** or **dirty**.
 - If clean, do not touch it and CONNECT.
 - If dirty, and if cleaning is required, CLEAN.



INSPECT: ARINC RECEPTACLE (Mil-Aero)



INSTALL BARREL ASSEMBLY / TIP

1. Install the barrel assembly (FBPP-BAP3 or FBPP-BAP3-A6) to the probe microscope.

Note: No additional inspection tip is necessary when using guides.



2. Align the ARINC alignment guide for receptacle (FBPT-A801-2002R) and insert into either side of the receptacle (pins or socket).



INSPECT

- **3.** Insert the probe into the **alignment guide** to inspect.
- **4.** Turn the *focus control* on the probe to focus the fiber image on the display.
- 5. Determine whether clean or dirty.
 - If clean, do not touch it and CONNECT.
 - If dirty, and if cleaning is required, CLEAN.

Note: For Cleanliness Acceptance Criteria, see the Aircraft Maintenance Manual (AMM) for the Boeing 787.



INSPECT: ARINC PLUG (Mil-Aero)



INSTALL BARREL ASSEMBLY / TIP

1. Install the barrel assembly (FBPP-BAP3 or FBPP-BAP3-A6) to the probe microscope.

Note: No additional inspection tip is necessary when using guides.

- Barrel Assembly (FBPP-BAP3 shown)
- 2. Align the ARINC alignment guide for plug (FBPT-A801-2001P) and insert into either side of the receptacle (pins or socket).



INSPECT

- **3.** Insert the probe into the **alignment guide** to inspect.
- **4.** Turn the *focus control* on the probe to focus the fiber image on the display.
- 5. Determine whether clean or dirty.
 - If clean, do not touch it and CONNECT.
 - If dirty, and if cleaning is required, CLEAN.

Note: For Cleanliness Acceptance Criteria, see the Aircraft Maintenance Manual (AMM) for the Boeing 787.



CLEAN: COMMON METHODS



Note: For Cleanliness Acceptance Criteria, see the Aircraft Maintenance Manual (AMM) for the Boeing 787.

CLEAN BULKHEAD

SWAB

Use the swab to clean the bulkhead by inserting into bulkhead, applying slight pressure, and twisting the swab 2 to 3 times. Inspect again, and repeat if necessary.



Note: Be sure to follow the recommended cleaning procedures defined in the Aircraft Maintenance Manual (AMM).

CLEAN PATCH CORD

REEL-STYLE CLEANERS OR CLOTHS





When cleaning with the reel-style cleaners or cleaning cloths, push the latch lever to expose the cleaning area/ cloth and wipe the patch cord end along the cleaning cloth in the direction of the indicated arrow 2 to 3 times.

Note: Be sure to follow the recommended cleaning procedures defined in the Aircraft Maintenance Manual (AMM).

REUSEABLE CLEANING STICK

Reuseable cleaning sticks clean both the bulkhead and patch cord sides.







USER MANUAL



CLEANING WITH CLEANBLAST

To clean receptacles with the CleanBlast system:

- **1.** Install the appropriate cleaning tip to the CleanBlast handset.
- 2. PRIME the nozzle if necessary (see CleanBlast User Manual).
- **3.** Align the **alignment guide** and insert into either side of the receptacle or plug (pins or socket).
- Insert the handset into the alignment guide and push to disengage safety mechanism (*the POWER/READY light will turn green*), and press the *run button* to initiate cleaning.
- **5. INSPECT** the receptacle or plug.
- **6.** Determine whether **clean** or **dirty**.
 - If clean, do not touch it and CONNECT.
 - If dirty, repeat CLEAN.

Note: Embedded/mated debris cannot be cleaned, and bonded/burned debris must be physically cleaned before using CleanBlast.



CONNECT



GOOD FIBER CONNECTION

There are **3 basic principles** that are critical to achieving an efficient fiber optic connection:

- 1. Perfect Core Alignment
- 2. Physical Contact
- **3.** Pristine Connector Interface



Today's connector design and production techniques have eliminated most of the challenges to achieving **core alignment** and **physical contact.**

What remains challenging is maintaining a **pristine end face.** As a result, **CONTAMINATION is the #1 reason for troubleshooting optical networks.** Systematic and Proactive Inspection is the only way to ensure that the connectors are truly clean before mating them. **INSPECT BEFORE YOU CONNECT.**

FBP PROBE MICROSCOPE

FBP PROBE OVERVIEW

JDSU **FBP-series** probes are portable video microscopes used to inspect fiber optic connectivity. While most fiber microscopes are limited to inspecting *male* connectors, JDSU's FBP probe is designed to inspect both simplex and multi-fiber (ribbon) types of both *male* and *female* connectors, as well as optical devices such as transceivers. The probe is specially designed to fit and operate comfortably and easily in-hand, allowing the user to inspect hard-to-reach connectors that are installed on the backside of patch panels or inside hardware devices. This eliminates the need to disassemble hardware devices prior to inspection.



CONTROLS

The *focus control* on the probe allows the user to adjust focus manually of the live fiber end face image on the display.

The *magnification control* (available only on dualmagnification probes) allows the user to switch between LOW and HIGH magnifications of the fiber end face image.

Specifications	
Dimensions	140 x 46 x 43 mm (5.5 x 1.8 x 1.7 in)
Weight	180 g (6.3 oz)
Optical magnification	200X, 400X, 200/400X
Focus control	Adjustable, in-probe
Cord length	240 cm (94-in)
Connector	4-pin Hirose™ male
Camera type	1/3-in CMOS Sensor
Video output	NTSC or PAL
Light source	Blue LED, 100,000+ hour life
Lighting technique	Coaxial
Power source	From the display device or USB module

JDSU INSPECTION TIPS, GUIDES, BARREL ASSEMBLIES

INSPECTION TIPS AND GUIDES

To optimize the performance and safety of fiber inspection, the probe microscope is used in conjunction with various interchangeable tips and guides. Each tip or guide is specifically designed to accessibility and accurate inspection for every connector on the aircraft without causing harm to the connections.





Standard Bulkhead Tips

Standard bulkhead tips allow the user to inspect the fiber end face on the *female* side of the bulkhead (*e.g., inside hardware devices or on the back side of patch panels*).



Standard Bulkhead Tips

Standard patch cord tips allow inspection of *male* ends of a fiber connection (*e.g., patch cords, pigtails*). Universal tips include the **FBPT-U25M**, compatible with 2.5 mm ferrules (*e.g., FC, SC, ST*) and the **FBPT-U12M**, used to inspect 1.25 mm ferrules (*e.g., LC, MU*).



Alignment Guides

Alignment guides enable the inspection of various military and aerospace connectors that use a plug and receptacle design. In addition to providing an alignment channel for sockets, these alignment guides work in conjunction with a barrel assembly to prevent the pins from breaking.

FBPT-A801-2001R

BARREL ASSEMBLIES

The **barrel assembly** houses the objective lens and works in conjunction with various FBPT inspection tips and alignment guides.







FBPP-BAP1

FBPP-BAP3

FBPP-BAP3-A6

TIPS, GUIDES, AND BARREL ASSEMBLIES MAP





FBP3 Long Reach Probe Microscope

FBP3-C130

Typical Use: Inspecting the Receptacle in the back tray of a CCR Cabinet.

HD1 VIDEO DISPLAY

HD1 DISPLAY OVERVIEW

The JDSU **HD1 Video Display** is a durable, lightweight, ergonomic, drop-tested display for use with any NTSC FBP or FBP3 series probe. It features a 3.5-inch TFT active matrix LCD screen, which produces a bright, clear and crisp, high-contrast image of the fiber end face. It can be powered by 100–240V AC or a rechargeable Li-on battery (*the Li-on battery must be in the display for the unit to operate*). The HD1 Display features contrast adjustment, auto-shutoff function to preserve battery life, and a hanging accessory for hands-free operation. The display uses a 4-pin *Hirose*[™] connector, which routes power into the probe and video out of the probe. A conversion cable is also available for 6-pin QuickCapture[™] analog probes.



FEATURES

- 3.5-inch TFT LCD display
- Contrast control/adjustment
- Rechargeable Sony[®] Li-ion battery with 2 hours continuous run time (extended when using auto-shutoff feature)
- Battery gauge (LED) showing remaining battery life
- Built-in hanging accessory for hands-free operation

Specifications

Dimensions	45.7 x 43.2 x 140 mm
Weight	400 g
Video display	3.5-inch TFT LCD
Connectors	4-pin for FBP probe microscopes
Battery life	2-hours continuous use
Charging time	2-hours

FBP3 PROBE OVERVIEW

As system capacities have increased, optical connectors have proliferated in backplane applications. Increasingly, those connectors are ribbon ferrule based. The FBP3 series is purpose-built for reaching between adjacent cards/ modules to reach optical connectors in the backplane.

The **FBP3-P3L** is a long-reach backplane probe that is designed to inspect connectors that are otherwise difficult to access. Its unique and complimentary design allows the probe to fit down a channel less than 1-inch wide, making the inspection of backplanes convenient and functional. The Universal Adapter is compatible with all standard FBPT-series inspection tips. This allows the probe to inspect a broad range of connector types located in... The 4-pin connector output interfaces with the HD1 handheld video display.

The design of the FBP3-BLX probe incorporates an imaging system, integrated light source, video camera and focus mechanism. The handle and barrel components of the probe are easily assembled and is powered by the HD1 display.



FBP3 TIPS AND BARREL ASSEMBLY

Tips and barrel assemblies such as the FBP3-C130 are specifically designed to work with the FBP3 long reach probe microscope, and are typically used to inspect receptacles in the back tray of CCR cabinets.



FBP3-C130

JDSU CLEANBLAST SYSTEM

CLEANBLAST SYSTEM OVERVIEW

The patented JDSU CleanBlast fiber end face cleaning systems provide a fast, effective, and cost-efficient solution for removing dirt and debris from connectors in most common applications. CleanBlast is a noncontact system that uses a highly filtered stream of pressurized gas with a vacuum circuit to create a high flow rate jet across the surface of the fiber. A cleaning solvent is injected into the airflow, and the contamination from the end face along with the solvent are then removed through the retrieval circuit. **The precise, highly efficient non-contact** *air solvent-air* stream blasts and removes loose debris with nearly 100-percent effectiveness.

CONTAMINATION MUST BE CLEANED from the end face prior to mating in order to optimize the efficiency of an optical signal or interconnect.

CleanBlast eliminates the user sensitivity and inconsistencies experienced with other cleaning tools by removing loose debris at the push of a button. With more than 8,000 cleaning cycles between refills, this automated system cleans faster, more effectively, and is less cost-per-clean than conventional methods.

- Faster, more effective, and less cost per clean than using other methods
- Provides repeatable results
- Eliminates user sensitivity
- Removes (instead of spreading) loose debris from fiber optic end-faces
- Cleans both patch cords and bulkheads
- Multiple system configurations for a variety of applications
- Clean multiple connector types by changing the precision cleaning tips











BOEING 787 CONFIGURATIONS

FBP-787-1		Boeing 787 - Basic Avionics Inspection Kit
Part Number	Otv	Description
	1	HD1 - Handheld Video Display, 3 5-inch I CD
FBP-P5-H	1	P5 Probe - Video Inspection Probe 200/400X EMI Hardened 4-nin Out
FBPT-C130	1	Interface Tip for Standard Video Probe (P5) for Use with Locking Guides
FBPP-BAP3	1	Barrel Assembly for PS Probe Narrow Type for Use with Guides
FBPP-BAP3-A6	1	Barrel Assembly for P5 Probe Narrow Type w/ 60° Angle for Use with Guides
FBPT-A801-1002R	1	Guide, ARINC Type 1, Size 15-06 Shell, Receptacle w/ Pins
FBPT-A801-1002P	1	Guide, ARINC Type 1, Size 15-06 Shell, Plug w/ Sockets
FBPT-A801-4001P	1	Guide, ARINC Type 4, 12 Contact, Plug w/ Pins
FBPT-A801-2001P	1	Guide, ARINC Type 2, F12, Plug w/ Pins
FBPT-A801-2001R	1	Guide, ARINC Type 2, F12, Receptacle w/ Sockets
FBPT-A801-2002R	1	Guide, ARINC Type 2, F12, Receptacle w/ Pins
FBPT-A801-2002P	1	Guide, ARINC Type 2, F12, Plug w/ Sockets
FBPT-LUX24-G001	1	Guide, LUXCIS 24-In Line, Plug w/ Sockets
FBPT-LUX24-G002	1	Guide, LUXCIS 24-In Line, Receptacle w/ Pins
FBPT-U12M	1	Tip, Universal 1.25 mm Patch Cord
FBPT-U25M	1	Tip, Universal 2.5 mm Patch Cord
FBPT-SC	1	Tip, SC Bulkhead
FBPT-LC	1	Tip, LC Bulkhead
FBPP-HSC15	1	Pelican 1550 Case with Custom Foam for 787 Kit
FBPP-TACS1	1	Tip Case with Dividers - for Boeing 787 Guides
FBPP-TACS2	1	Tip Case with Foam - for Boeing 787 Tips and Barrel Assemblies
FBP-787-CCR		Boeing 787 - CCR Cabinet - Long Reach Upgrade Kit
FBP3-P3L	1	P3 Probe - Video Inspection Probe, Long Reach Handle and Barrel
FBP3-C130	1	Interface Tip, for Long Reach Video Probe (P3), for Use with Locking Guides
FCL-ARINC-01		Inspection and Cleaning Kit - ARINC
FCL-ARINC-01 FCL-P1102	1	Inspection and Cleaning Kit - ARINC CleanBlast, Portable System, Digital
FCL-ARINC-01 FCL-P1102 FCLT-BAP3-125	1 1	Inspection and Cleaning Kit - ARINC CleanBlast, Portable System, Digital Cleaning Tip, ARINC Guides
FCL-ARINC-01 FCL-P1102 FCLT-BAP3-125 FBP-P5	1 1 1	Inspection and Cleaning Kit - ARINC CleanBlast, Portable System, Digital Cleaning Tip, ARINC Guides P5 Probe - Video Inspection Probe, 200/400X, 4-pin Out
FCL-ARINC-01 FCL-P1102 FCLT-BAP3-125 FBP-P5 FBPP-BAP3	1 1 1 1	Inspection and Cleaning Kit - ARINC CleanBlast, Portable System, Digital Cleaning Tip, ARINC Guides P5 Probe - Video Inspection Probe, 200/400X, 4-pin Out Barrel Assembly, Narrow Type
FCL-ARINC-01 FCL-P1102 FCL-T-BAP3-125 FBP-P5 FBPP-BAP3 FBPT-A801-1002R	1 1 1 1 1	Inspection and Cleaning Kit - ARINC CleanBlast, Portable System, Digital Cleaning Tip, ARINC Guides PS Probe - Video Inspection Probe, 200/400X, 4-pin Out Barrel Assembly, Narrow Type Guide, ARINC Type 1, Size 15-06 Shell, Receptacle w/ Pins
FCL-ARINC-01 FCL-P1102 FCLT-BAP3-125 FBP-P5 FBPP-BAP3 FBPT-A801-1002R FBPT-A801-1002P	1 1 1 1 1 1 1	Inspection and Cleaning Kit - ARINC CleanBlast, Portable System, Digital Cleaning Tip, ARINC Guides P5 Probe - Video Inspection Probe, 200/400X, 4-pin Out Barrel Assembly, Narrow Type Guide, ARINC Type 1, Size 15-06 Shell, Receptacle w/ Pins Guide, ARINC Type 1, Size 15-06 Shell, Plug w/ Sockets
FCL-ARINC-01 FCL-P1102 FCLT-BAP3-125 FBP-5 FBPP-BAP3 FBPT-A801-1002R FBPT-A801-002P FBPT-A801-2001P	1 1 1 1 1 1 1 1 1	Inspection and Cleaning Kit - ARINC CleanBlast, Portable System, Digital Cleaning Tip, ARINC Guides P5 Probe - Video Inspection Probe, 200/400X, 4-pin Out Barrel Assembly, Narrow Type Guide, ARINC Type 1, Size 15-06 Shell, Receptacle w/ Pins Guide, ARINC Type 2, Size 15-06 Shell, Plug w/ Sockets Guide, ARINC Type 2, F12, Plug w/ Pins
FCL-ARINC-01 FCL-P1102 FCL-BAP3-125 FBP-55 FBPP-BAP3 FBPT-A801-1002R FBPT-A801-1002P FBPT-A801-2001P FBPT-A801-2001R	1 1 1 1 1 1 1 1 1 1	Inspection and Cleaning Kit - ARINC CleanBlast, Portable System, Digital Cleaning Tip, ARINC Guides P5 Probe - Video Inspection Probe, 200/400X, 4-pin Out Barrel Assembly, Narrow Type Guide, ARINC Type 1, Size 15-06 Shell, Receptacle w/ Pins Guide, ARINC Type 1, Size 15-06 Shell, Plug w/ Sockets Guide, ARINC Type 2, F12, Plug w/ Pins Guide, ARINC Type 2, F12, Receptacle w/ Sockets
FCL-ARINC-01 FCL-P1102 FCL-BAP3-125 FBP-BAP3 FBP-BAP3 FBPT-A801-1002R FBPT-A801-2001P FBPT-A801-2001R FBPT-A801-2002R	1 1 1 1 1 1 1 1 1 1 1 1	Inspection and Cleaning Kit - ARINC CleanBlast, Portable System, Digital Cleaning Tip, ARINC Guides P5 Probe - Video Inspection Probe, 200/400X, 4-pin Out Barrel Assembly, Narrow Type Guide, ARINC Type 1, Size 15-06 Shell, Pleug w/ Sockets Guide, ARINC Type 2, F12, Pleug w/ Pins Guide, ARINC Type 2, F12, Receptacle w/ Sockets Guide, ARINC Type 2, F12, Receptacle w/ Sockets Guide, ARINC Type 2, F12, Receptacle w/ Pins
FCL-ARINC-01 FCL-P1102 FCLT-BAP3-125 FBP-P5 FBPP-BAP3 FBPT-A801-1002P FBPT-A801-2001P FBPT-A801-2001R FBPT-A801-2002R FBPT-A801-2002R	1 1 1 1 1 1 1 1 1 1 1 1 1	Inspection and Cleaning Kit - ARINC CleanBlast, Portable System, Digital Cleaning Tip, ARINC Guides P5 Probe - Video Inspection Probe, 200/400X, 4-pin Out Barrel Assembly, Narrow Type Guide, ARINC Type 1, Size 15-06 Shell, Plug w/ Sockets Guide, ARINC Type 2, F12, Plug w/ Pins Guide, ARINC Type 2, F12, Plug w/ Pins Guide, ARINC Type 2, F12, Receptacle w/ Sockets Guide, ARINC Type 2, F12, Receptacle w/ Pins Guide, ARINC Type 2, F12, Receptacle w/ Pins
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