E190-E2 COLLINS NACELLE TOOLING CATALOG

NACELLE TOOLING by DEDIENNE AEROSPACE

and a



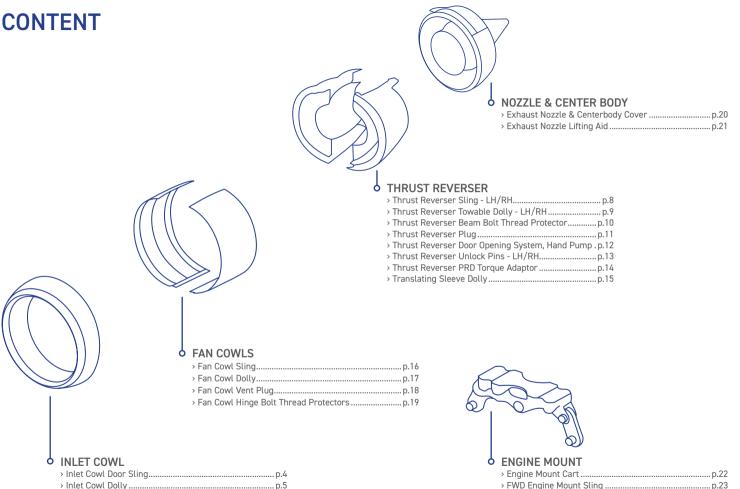
E190-E2 GSE TOOLS

We have the capability to provide you all recommended GSE's based on the Aircraft Maintenance Manual (AMM) for your EIS (Entry-into-Service) program, and all your maintenance operations.

Thanks to our Tooling recommendation team, we can propose you a tailored tooling list for your maintenance workscope.



CATEGORY	PART NUMBER	NAME	MINIMAL QT FOR EIS
INLET COWL	347-1100-1GSE	Inlet Cowl Sling	1
	347-1100-2GSE	Inlet Cowl Dolly	1
	347-1100-3GSE	Inlet Protective Rug	0
	347-1100-4GSE	Inlet Cowl Cover	2
FAN COWLS	347-2000-1GSE	Fan Cowl Sling	1
	347-2000-2GSE	Fan Cowl Dolly	2
	347-2000-3GSE	Fan Cowl Vent Plug	0
	347-2000-5GSE	Fan Cowl Hinge Bolt Thread Protectors	1
THRUST REVERSER	347-3001-1GSE	Thrust Reverser Sling - LH/RH	1
	347-3001-2GSE	Thrust Reverser Towable Dolly- LH/RH	2
	347-3001-3GSE	Thrust Reverser Beam Bolt Thread Protector	1
	347-3001-5GSE	Thrust Reverser Plug	2
	347-3001-7GSE	Thrust Reverser Door Opening System, Hand Pump	1
	347-3001-11GSE	Thrust Reverser Unlock Pins - LH/RH	1
	347-3001-14GSE	Thrust Reverser PRD Torque Adaptor	1
	347-3501-2GSE	Translating Sleeve Dolly	1
<u>O</u>	347-4100-1GSE	Exhaust Nozzle Cover	2
NOZZLE & CENTER BODY	347-4100-4GSE	Exhaust Nozzle Lifting Aid	1
ENGINE MOUNT	347-6000-1GSE	Engine Mount Cart	0
	347-6001-2GSE	Forward Engine Mount Sling	1
	347-6501-1GSE	Aft Engine Mount Sling	1





INLET COWL SLING

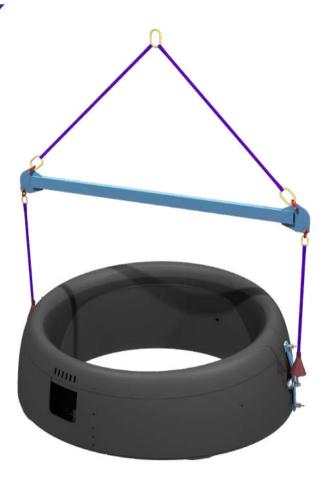
DESCRIPTION - USE

The Inlet Cowl Sling is used to lift and move the entire E190-E2 Inlet Assy.

The Inlet Cowl Sling is used to install or remove the Inlet Cowl from the Engine. This tool has a feature that allows the tool operator to rotate the Inlet Cowl and eases the installation on the Engine or placement on the Dolly.

⊘ TEST

Dedienne Aerospace has regional facilities to aid in the required annual testing and recertification.



EIS

↔ DIMENSIONS 2700 x 450 x 450 mm [107 x 18 x 18 in]





INLET COWL DOLLY

DESCRIPTION - USE

This tool is used during the maintenance and transportation of inlet cowl.

This tool has been validated for the maintenance of the E190-E2 Inlet Cowl. If the Inlet Cowl is moved or repaired on another tool and there is damage, the insurance company may not cover the damage.





← DIMENSIONS △ WEI 2800 x 1650 x 1700 mm [111 x 65 x 67 in]

WEIGHT 900 kg [1,984 lbs]



INLET PROTECTIVE RUG

DESCRIPTION - USE

Tool is used as a Protective Mat on the Inlet inner surface during Maintenance, Removal or Installation activity on the Inlet.



← DIMENSIONS 850 x 400 x 200 mm [34 x 16 x 8 in] WEIGHT 10 kg [23 lbs]



INLET COWL COVER

DESCRIPTION - USE

The Inlet Cowl Cover is used to protect inlet from foreign objects during parking and mooring.

Without the Inlet Cowl Cover, water, dust or wind can go inside the Engine.

- > Water retention: accelerates corrosion.
- > Dust: the Engine could be damaged during the ignition.
- > Wind: allows blade rotation which may cause damage.

The Engine warranty may be void if the Covers are not used properly under the required conditions and there is damage to the Engine.



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← DIMENSIONS 500 x 400 x 400 mm [20 x 16 x 16 in]





THRUST REVERSER SLING - LH/RH

DESCRIPTION - USE

The Thrust Reverser Sling is used to pick the Thrust Reverser Engineering Assembly (Both LH/ RH) from the ACFT / Shipping container and place the same on the Thrust Reverser Dolly for maintenance purpose. The Manual Hoist connected to the Latch beam location Via the Nylon Strap can be operated to tilt the TR Engineering assembly at various angles during Removal and Installation from ACFT onto the dolly and vise-versa.

This tool is the only tool validated to lift the E190-E2 Thrust Reverser. If the Thrust Reverser is lifted using another tool, and there is damage, the insurance may not cover the damage.

⊘ test

Dedienne Aerospace has regional facilities to aid in the required annual testing and recertification.

↔ DIMENSIONS 1250 x 1400 x 550 mm [50 x 56 x 22 in] WEIGHT 150 kg [331 lbs]







THRUST REVERSER TOWABLE DOLLY - LH/RH

DESCRIPTION - USE

This Tool is used to carry a LH or RH Thrust Reverser.

When the Thrust Reverser is removed from the aircraft using the Thrust Reverser Sling, the Thrust Reverser Dolly is needed to store or work on the Thrust Reverser.

←→ DIMENSIONS △ 2600 x 2400 x 1000 mm [103 x 95 x 40 in]

WEIGHT 750 kg [1,653 lbs]



THRUST REVERSER BEAM BOLT THREAD PROTECTOR



DESCRIPTION - USE

This Tool is used to protect thread of Thrust Reverser Hinge Beam Bolts during Bolt Removal and Installation.





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THRUST REVERSER PLUG

DESCRIPTION - USE

This tool is used to cover the bypass duct between the Translating Sleeve and Inner Fixed Structure (LH and RH).

Without the Inlet Cowl Cover, water, dust or wind can go inside the Engine.

- > Water retention: accelerates corrosion.
- > Dust: the Engine could be damaged during the ignition.
- > Wind: allows blade rotation which may cause damage.

The Engine warranty may be void if the Covers are not used properly under the required conditions and there is damage to the Engine.



EIS

↔ DIMENSIONS 1400 x 600 x 450 mm [56 x 24 x 18 in]

40 kg [89 lbs]



THRUST REVERSER DOOR OPENING SYSTEM, HAND PUMP

503 **DESCRIPTION - USE**

This tool is used for manual actuation of Thrust Reverser Door Actuation System.

\wedge CAUTION

The Thrust Reverser Hydraulic Opening System or pump has been designed for use on the E190-E2. If another pump is used to open the C-Ducts and there is damage, the insurance may not cover the damage.

\propto TEST

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160 kg [353 lbs]



THRUST REVERSER UNLOCK PINS LH/RH

DESCRIPTION - USE

These Pins are used to unlock TRAS Actuators and Track Lock for both LH & RH Nacelles during maintenance.



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↔ DIMENSIONS 500 x 300 x 300 mm [20 x 12 x 12 in]



The pictures, measurements, and weights shall be used only as an indication.

REMOVE BEFORE FLIGHT



THRUST REVERSER PRD TORQUE ADAPTOR

DESCRIPTION - USE

This Tool is used for check pressure relief door latch pressure.

↔ DIMENSIONS 400 x 300 x 200 mm [16 x 12 x 8 in]

WEIGHT 2 kg [5 lbs]





TRANSLATING SLEEVE DOLLY

DESCRIPTION - USE

This Tool is used during the maintenance and transportation of transleeve assembly.

↔ DIMENSIONS

2700 x 1950 x 1300 mm [107 x 77 x 52 in]

When the Translating Sleeve is removed from the aircraft using the Thrust Reverser Sling, the Translating Sleeve Dolly is needed to store or work on the Translating Sleeve.



The pictures, managingments, and weights shall be used only as a

WEIGHT

440 kg [970 lbs]



FAN COWL DOOR SLING

DESCRIPTION - USE

The Fan Cowl Door Sling is used for E190-E2 series Fan Cowl Removal & Installation only.

This Sling is a lifting tool and it is the only tool validated to lift the E190-E2 Fan Cowl. If the Fan Cowl is lifted with another tool, and there is damage, the insurance may not cover the damage.



EIS

↔ DIMENSIONS 800 x 450 x 350 mm [32 x 18 x 14 in]





FAN COWL DOLLY

DESCRIPTION - USE

The Fan Cowl Dolly is used to move the Fan Cowl in the hangar or shop and for Fan Cowl Storage. The Fan Cowl can be maintained or stored on the Fan Cowl Dolly.

After using the Fan Cowl Sling 347-2000-1GSE to remove a Fan Cowl from the Engine, the Fan Cowl Dolly is needed to move, store or do maintenance on the Fan Cowl.



EIS

← DIMENSIONS 3100 x 1700 x 1300 mm [123 x 67 x 52 in]

WEIGHT 350 kg [772 lbs]



FAN COWL VENT DOOR PLUG

DESCRIPTION - USE

The Fan Cowl Vent Door Plug is used to prevent foreign objects from entering into the Fan Cowl when the aircraft is in parking or mooring.



↔ DIMENSIONS 550 x 450 x 250 mm [22 x 18 x 10 in] WEIGHT
5 kg [12 lbs]







EXHAUST NOZZLE AND CENTERBODY COVER

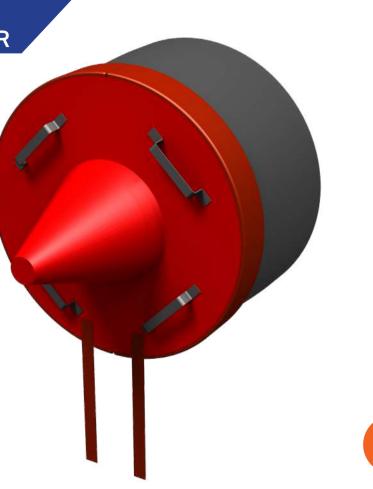
DESCRIPTION - USE

This tool is used to cover exhaust exit area and cover the AFT Centerbody.

Without the Inlet Cowl Cover, water, dust or wind can go inside the Engine.

- > Water retention: accelerates corrosion.
- > Dust: the Engine could be damaged during the ignition.
- > Wind: allows blade rotation which may cause damage.

The Engine warranty may be void if the Covers are not used properly under the required conditions and there is damage to the Engine.



↔ DIMENSIONS 1200 x 500 x 400 mm [48 x 20 x 16 in] WEIGHT 40 kg [89 lbs]



EXHAUST NOZZLE LIFTING AID

DESCRIPTION - USE

This tool is used to Remove or Install Exhaust Nozzle Assembly.

This Aid is a lifting tool and it is the only tool validated to lift the E190-E2 Nozzle. If the Nozzle is lifted with another tool, and there is damage, the insurance may not cover that damage.

⊘ test

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↔ DIMENSIONS 1600 x 1200 x 1300 mm [63 x 48 x 52 in] WEIGHT 200 kg [441 lbs]



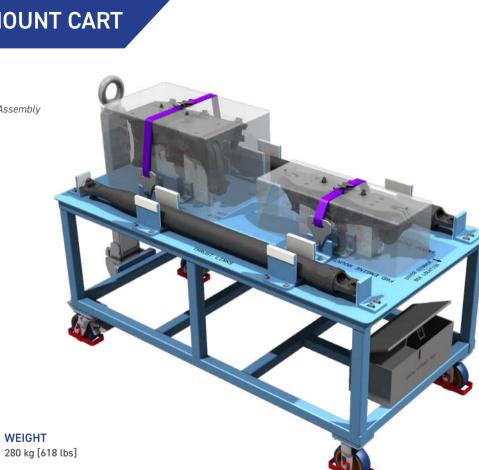
DESCRIPTION - USE

↔ DIMENSIONS

[79 x 44 x 52 in]

2000 x 1100 x 1300 mm

This Tool is used for Engine Mount Assembly Transportation & Maintenance.



The pictures, measurements, and weights shall be used only as an indication.

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FWD ENGINE MOUNT SLING

DESCRIPTION - USE

This Tool is used to lift and move the FWD Engine Mount Assy.

This FWD Engine Mount Sling is a lifting tool and it is the only tool validated to lift the E190-E2 FWD Engine Mount. If the Engine Mount is lifted with another tool, and there is damage, the insurance may not cover the damage.

⊘ test

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EIS

↔ DIMENSIONS 550 x 450 x 250 mm [22 x 18 x 10 in]





AFT ENGINE MOUNT SLING

DESCRIPTION - USE

This Tool is used to lift and move the AFT Engine Mount Assy.

This AFT Engine Mount Sling is a lifting tool and it is the only tool validated to lift the E190-E2 AFT Engine Mount. If the Engine Mount is lifted with another tool, and there is damage, the insurance may not cover the damage.

⊘ test

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↔ DIMENSIONS 600 x 250 x 400 mm [24 x 10 x 16 in]





SALES & TECHNICAL SUPPORT

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