

VOR/LOC ANTENNA DIPLEXER AND PHASE COUPLERS - REMOVAL/INSTALLATION

EFFECTIVITY: ALL

1. General

- A. This section gives the procedures to remove and install the VOR/LOC Antenna Diplexer-Coupler and VOR/LOC Antenna Phase-Coupler.
- B. The instructions to remove and install the VOR/LOC Antenna Diplexer-Coupler are in [AMM TASK 34-32-02-000-801-A/400](#) and [AMM TASK 34-32-02-400-801-A/400](#).
- C. The instructions to remove and install the VOR/LOC Antenna Phase-Coupler are in [AMM TASK 34-32-02-000-802-A/400](#) and [AMM TASK 34-32-02-400-802-A/400](#).
- D. The procedures in this section are given in the sequence below. The tasks identified with (♦) are part of the Scheduled Maintenance Requirements Document (SMRD).

TASK NUMBER	DESCRIPTION	EFFECTIVITY
34-32-02-000-801-A	VOR/LOC ANTENNA DIPLEXER-COUPLER - REMOVAL	ALL
34-32-02-400-801-A	VOR/LOC ANTENNA DIPLEXER-COUPLER - INSTALLATION	ALL
34-32-02-000-802-A	VOR/LOC ANTENNA PHASE-COUPLER - REMOVAL	ALL
34-32-02-400-802-A	VOR/LOC ANTENNA PHASE-COUPLER - INSTALLATION	ALL

TASK 34-32-02-000-801-A

EFFECTIVITY: ALL

2. VOR/LOC ANTENNA DIPLEXER-COUPLER - REMOVAL

A. General

(1) This procedure gives the instructions to remove the VOR/LOC Antenna Diplexer-Coupler.

B. References

REFERENCE	DESIGNATION
AMM TASK 55-35-00-000-801-A/400	VERTICAL-STABILIZER LEADING EDGE - REMOVAL
SB145-34-0028	-

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
324	324	Vertical stabilizer

D. Tools and Equipment

Not Applicable

E. Auxiliary Items

Not Applicable

F. Consumable Materials

Not Applicable

G. Expandable Parts

Not Applicable

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	Vertical stabilizer

I. Preparation

SUBTASK 841-002-A

(1) On the circuit breaker panel, open the VOR/ILS 1 and VOR/ILS 2 circuit breakers and attach a DO-NOT-CLOSE tag to them.

(2) Remove the Vertical-Stabilizer Leading Edge ([AMM TASK 55-35-00-000-801-A/400](#)).

J. Removal ([Figure 401](#))

SUBTASK 020-002-A

CAUTION: BE CAREFUL NOT TO CAUSE DAMAGE TO THE CABLES DURING THE REMOVAL OF THE HEAT-SHRINKABLE TUBES.

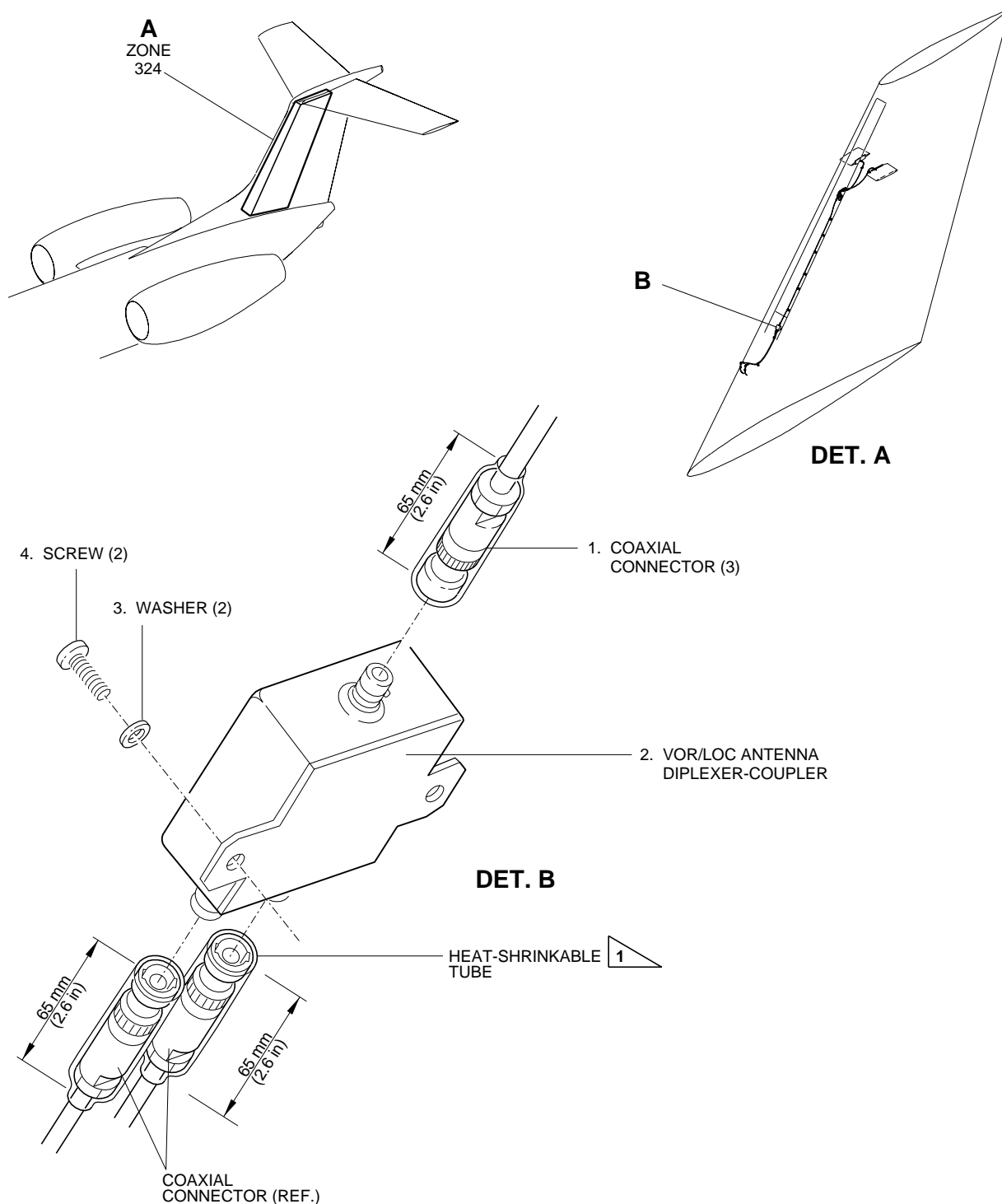
(1) (Aircraft POST-MOD [SB145-34-0028](#)) Cut and remove the heat-shrinkable tubes.

- (2) Disconnect the three coaxial connectors (1) from the VOR/LOC Antenna Diplexer-Coupler (2).
- (3) Remove the two screws (4) and washers (3) which attach the VOR/LOC Antenna Diplexer-Coupler (2) to the vertical stabilizer auxiliary spar.
- (4) Remove the VOR/LOC Antenna Diplexer-Coupler (2).
- (5) Install protection caps on the three coaxial connectors (1).

EFFECTIVITY: ALL

VOR/LOC Antenna Diplexer-Coupler - Removal/Installation

Figure 401



1

POST-MOD SB 145-34-0028

145AMM340215.MCE B

TASK 34-32-02-400-801-A
EFFECTIVITY: ALL

3. VOR/LOC ANTENNA DIPLEXER-COUPLER - INSTALLATION

A. General

(1) This procedure gives the instructions to install the VOR/LOC Antenna Diplexer-Coupler.

B. References

REFERENCE	DESIGNATION
AMM TASK 34-32-00-700-801-A/500	VOR/ILS SYSTEM OPERATIONAL TEST
AMM TASK 55-35-00-400-801-A/400	VERTICAL-STABILIZER LEADING EDGE - INSTALLATION
SB145-34-0028	-
WM 20-10-00	-
WM 20-50-00	-

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
324	324	Vertical stabilizer

D. Tools and Equipment

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Heating gun	To shrink the original heat-shrinkable tube	

E. Auxiliary Items

Not Applicable

F. Consumable Materials

SPECIFICATION (BRAND)	DESCRIPTION	QTY
ATUM -16/4-0	Heat-shrinkable tube	AR
MIL-S-8660	Dow Corning No. 4 Lubricant Compound	AR

G. Expandable Parts

Not Applicable

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	Vertical stabilizer

I. Installation (Figure 401)

SUBTASK 420-002-A

- (1) Remove the protection caps from the three coaxial connectors (1).
- (2) Install the VOR/LOC Antenna Diplexer-Coupler (2) in its installation position.
- (3) Install the two washers (3) and screws (4).
- (4) Examine and clean or replace the coaxial connectors (1) as required (WM 20-50-00).
- (5) Fill the internal part of the coaxial connectors (1) and their mates with Dow Corning No. 4 Lubricant Compound (WM 20-50-00).
- (6) (Aircraft POST-MOD [SB145-34-0028](#)) Cover the coaxial connector (1) with the heat-shrinkable tubes.
- (7) Connect the three coaxial connectors (1) on the VOR/LOC Antenna Diplexer-Coupler (2).

WARNING: OBEY THE SAFETY PRECAUTION GIVEN IN WM 20-10-00 TO USE THE HEATING GUN. EXPLOSIONS CAN OCCUR IF YOU USE INCORRECT HEATING.

- (8) Heat up the heat-shrinkable tube. Start the heating from the connector to the related harness. Do this with the heating gun.

J. Follow-on

SUBTASK 842-002-A

- (1) On the circuit breaker panel, close the VOR/ILS 1 and VOR/ILS 2 circuit breakers and remove the DO-NOT-CLOSE tag from them.
- (2) Install the Vertical-Stabilizer Leading Edge ([AMM TASK 55-35-00-400-801-A/400](#)).
- (3) Do the VOR/ILS System Operational Test ([AMM TASK 34-32-00-700-801-A/500](#)).

TASK 34-32-02-000-802-A

EFFECTIVITY: ALL

4. VOR/LOC ANTENNA PHASE-COUPLER - REMOVAL

A. General

(1) This procedure gives the instructions to remove the VOR/LOC Antenna Phase-Coupler.

B. References

REFERENCE	DESIGNATION
AMM TASK 55-35-00-000-801-A/400	VERTICAL-STABILIZER LEADING EDGE - REMOVAL
SB145-34-0028	-

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
324	324	Vertical stabilizer

D. Tools and Equipment

Not Applicable

E. Auxiliary Items

Not Applicable

F. Consumable Materials

Not Applicable

G. Expandable Parts

Not Applicable

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	Vertical stabilizer

I. Preparation

SUBTASK 841-003-A

(1) On the circuit breaker panel, open the VOR/ILS 1 and VOR/ILS 2 circuit breakers and attach a DO-NOT-CLOSE tag to them.

(2) Remove the Vertical-Stabilizer Leading Edge ([AMM TASK 55-35-00-000-801-A/400](#)).

J. Removal ([Figure 402](#))

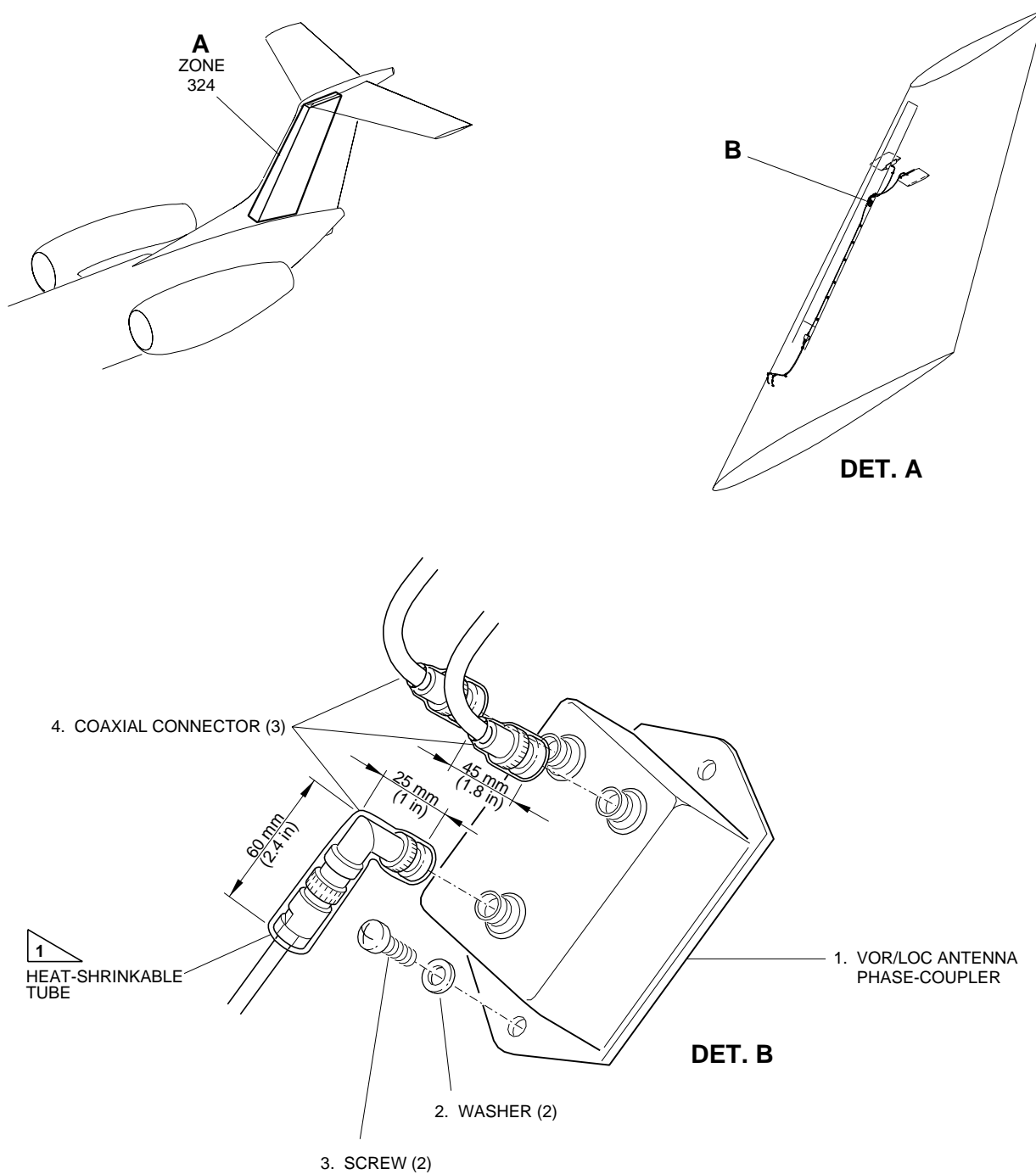
SUBTASK 020-003-A

CAUTION: BE CAREFUL NOT TO CAUSE DAMAGE TO THE CABLES DURING THE REMOVAL OF THE HEAT-SHRINKABLE TUBES.

(1) (Aircraft POST-MOD [SB145-34-0028](#)) Cut and remove the heat-shrinkable tubes.

- (2) Disconnect the three coaxial connectors (4) from the VOR/LOC Antenna Phase-Coupler (1).
- (3) Remove the two screws (3) and washers (2) which attach the VOR/LOC Antenna Phase-Coupler (1) to the vertical stabilizer auxiliary spar.
- (4) Remove the VOR/LOC Antenna Phase-Coupler (1).
- (5) Install protection caps on the three coaxial connectors (4).

EFFECTIVITY: ALL
VOR/LOC Antenna Phase-Coupler - Removal/Installation
Figure 402



1 POST-MOD SB 145-34-0028

145AMM340216.MCE B

TASK 34-32-02-400-802-A

EFFECTIVITY: ALL

5. VOR/LOC ANTENNA PHASE-COUPLER - INSTALLATION

A. General

(1) This procedure gives the instructions to install the VOR/LOC Antenna Phase-Coupler.

B. References

REFERENCE	DESIGNATION
AMM TASK 34-32-00-700-801-A/500	VOR/ILS SYSTEM OPERATIONAL TEST
AMM TASK 55-35-00-400-801-A/400	VERTICAL-STABILIZER LEADING EDGE - INSTALLATION
SB145-34-0028	-
WM 20-10-00	-
WM 20-50-00	-

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
324	324	Vertical stabilizer

D. Tools and Equipment

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Heating gun	To shrink the original heat-shrinkable tube	

E. Auxiliary Items

Not Applicable

F. Consumable Materials

SPECIFICATION (BRAND)	DESCRIPTION	QTY
ATUM -16/4-0	Heat-shrinkable tube	AR
ATUM -32/8-0	Heat-shrinkable tube	AR
MIL-S-8660	Dow Corning No. 4 Lubricant Compound	AR

G. Expandable Parts

Not Applicable

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	Vertical stabilizer

I. Installation (Figure 402)

SUBTASK 420-003-A

- (1) Remove the protection caps from the three coaxial connectors (4).
- (2) Install the VOR/LOC Antenna Phase-Coupler (1) in its installation position.
- (3) Install the two washers (2) and screws (3).
- (4) Examine and clean or replace the coaxial connectors (4) as required (WM 20-50-00).
- (5) Fill the internal part of the coaxial connectors (4) and their mates with Dow Corning No. 4 Lubricant Compound (WM 20-50-00).
- (6) (Aircraft POST-MOD [SB145-34-0028](#)) Cover the coaxial connector (4) with the heat-shrinkable tubes.

NOTE: The tube with bigger diameter is used in the 90° connector.

- (7) Connect the three coaxial connectors (4) to the VOR/LOC Antenna Phase-Coupler (1).

WARNING: OBEY THE SAFETY PRECAUTION GIVEN IN WM 20-10-00 TO USE THE HEATING GUN. EXPLOSIONS CAN OCCUR IF YOU USE INCORRECT HEATING.

- (8) Heat up the heat-shrinkable tube. Start the heating from the connector to the related harness. Do this with the heating gun.

J. Follow-on

SUBTASK 842-003-A

- (1) On the circuit breaker panel, close the VOR/ILS 1 and VOR/ILS 2 circuit breakers and remove the DO-NOT-CLOSE tag from them.
- (2) Install the Vertical-Stabilizer Leading Edge ([AMM TASK 55-35-00-400-801-A/400](#)).
- (3) Do the VOR/ILS System Operational Test ([AMM TASK 34-32-00-700-801-A/500](#)).

