

**ATC TRANSPONDER AND MODE S INSPECTION
14 CFR PART 43, APPENDIX F**

DATE: _____ W/O # _____ TAIL # _____ S/N _____

Inspection(s) in Accordance With 14 CFR Part 43, Appendix F

Transponder #1	Transponder #2
Mfg. _____	Mfg. _____

Model _____	Model _____
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P/N _____ S/N _____	P/N _____ S/N _____
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Radio Reply Frequency 1087 to 1093 MHZ <input type="checkbox"/>	Radio Reply Frequency 1087 to 1093 MHZ <input type="checkbox"/>
Mode S 1089 TO 1091 <input type="checkbox"/>	Mode S 1089 TO 1091 <input type="checkbox"/>

Peak Output Power > 125 and < 500 Watts <input type="checkbox"/>	Peak Output Power > and < 500 Watts <input type="checkbox"/>
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Mode S TX Power > 125 and < 500 Watts <input type="checkbox"/>	Mode S TX Power > 125 and < 500 Watts <input type="checkbox"/>
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SLS 0 db <input type="checkbox"/> 1% < Reply Rate	SLS 0 db <input type="checkbox"/> 1% < Reply Rate
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Reply Rate (-9db) <input type="checkbox"/> 90% > Reply	Reply Rate (-9db) <input type="checkbox"/> 90% > Reply
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Receiver Sensitivity -66 to -77 dbm <input type="checkbox"/> Mode 3/A	Receiver Sensitivity -66 to -77 dbm <input type="checkbox"/> Mode 3/A
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Receiver Sensitivity -66 to -77 dbm <input type="checkbox"/> Mode C	Receiver Sensitivity -66 to -77 dbm <input type="checkbox"/> Mode C
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Difference ≤ 1 dbm <input type="checkbox"/>	Difference ≤ 1 dbm <input type="checkbox"/>
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Receiver Sensitivity Mode S -68 TO -77 dbm 90% Reply <input type="checkbox"/>	Receiver Sensitivity Mode S -68 TO -77 dbm 90% Reply <input type="checkbox"/>
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Mode S Diversity Transmission Channel Isolation [] > 20db (May require Antenna Isolation)	Mode S Diversity Transmission Channel Isolation [] > 20db (May require Antenna Isolation)
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Mode S Address _____ [] Correct Reply	Mode S Address _____ [] Correct Reply
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Mode S UF=0 [] UF=16 [] UF=21 [] Formats UF=4 [] UF=20 [] UF=24 [] UF=5 [] UF=11 [] DF=11 []	Mode S UF= 0 [] UF=16 [] UF= 21 [] Formats UF= 4 [] UF=20 [] UF= 24 [] UF= 5 [] UF=11 [] DF=11 []
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Mode S All Call PASS <input type="checkbox"/> FAIL <input type="checkbox"/>	Mode S All Call PASS <input type="checkbox"/> FAIL <input type="checkbox"/>
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Antennas Secure & In Good Condition <input type="checkbox"/>	Antennas Secure & In Good Condition <input type="checkbox"/>
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*SYSTEM PASSES <input type="checkbox"/>	*SYSTEM PASSES <input type="checkbox"/>
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Note #1: Peak Output Power Radiated Class 1A Min 125 Watts
Class 1B Min 70 Watts

Note #2: Receiver Sensitivity Includes Additional -3dbm Allowed for Radiated Signals

THE ABOVE INSPECTION(S) PERFORMED WITH THE TRANSPONDER(S) INSTALLED IN THE AIRCRAFT.

TESTED BY _____

***NOTE: CHECK IN BOX INDICATES PASS, BLANK BOX TEST N/A**

Tester – ID # _____

REV. 3