
Service Bulletin

December 29, 1995

SEB95-19

TITLE

LOWER FORWARD DOORPOST AND STRUT FITTING INSPECTION AND MODIFICATION

EFFECTIVITY

<u>Model</u>	<u>Year</u>	<u>Serial Numbers</u>
172N	1980	17272885 thru 17274009
172P	1981	17274010 thru 17275034
172P	1982	17275035 thru 17275759
172P	1983	17275760 thru 17276079
172P	1984	17276080 thru 17276259
172P	1985	17276260 thru 17276516
172P	1986	17276517 thru 17276654
172Q	1983	17275869
172Q	1983	17275927 thru 17275934
172Q	1983	17275952, 17275959, 17275960
172Q	1983	17275962, 17275964, 17275965
172Q	1983	17275967, 17275968, 17275969
172Q	1983	17275971, 17275992, 17275999
172Q	1983	17276002, 17276005, 17276029
172Q	1983	17276032, 17276042, 17276045
172Q	1983	17276051, 17276052, 17276054
172Q	1984	17276101, 17276109, 17276140
172Q	1984	17276147, 17276188, 17276211
172RG	1980	172RG0001 thru 172RG0570
172RG	1981	172RG0571 thru 172RG0890
172RG	1981	691
172RG	1982	172RG0891 thru 172RG1099
172RG	1983	172RG1100 thru 172RG1144
172RG	1984	172RG1145 thru 172RG1177
172RG	1985	172RG1178 thru 172RG1191
R172K	1980	R1723200 thru R1723397
R172K	1980	R1723399
R172K	1981	R1723400 thru R1723454
182E	1962	18253599 thru 18254423
182F	1963	18254424 thru 18255058
182G	1964	18255059 thru 18255844
182H	1965	18255846 thru 18256684
182H	1965	634
182J	1966	18256685 thru 18257625

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To obtain satisfactory results, procedures specified in this publication must be accomplished in accordance with accepted methods and prevailing government regulations. The Cessna Aircraft Company cannot be responsible for the quality of work performed in accomplishing the requirements of this publication.

The Cessna Aircraft Company, Product Support, P.O. Box 7706, Wichita, Kansas 67277, U.S.A. (316) 941-7550, Facsimile (316) 942-9006

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<u>Model</u>	<u>Year</u>	<u>Serial Numbers</u>		
182K	1967	18255845		
182K	1967	18257626	thru	18257698
182K	1967	18257700	thru	18258505
182L	1968	18258506	thru	18259305
182M	1969	18257699		
182M	1969	18259306	thru	18260055
182N	1970	18260056	thru	18260445
182N	1971	18260446	thru	18260825
182P	1972	18260826	thru	18261425
182P	1973	18261426	thru	18262465
182P	1974	18262466	thru	18262475
182P	1975	18263476	thru	18263478
182P	1975	18263480	thru	18264295
182P	1975	675		
182P	1976	18264296	thru	18265175
182Q	1977	18265176	thru	18265965
182Q	1978	18263479		
182Q	1978	18265966	thru	18266590
182Q	1979	18266591	thru	18267300
182Q	1980	18267301		
182Q	1980	18267303	thru	18267715
182R/T182	1981	18267302		
182R/T182	1981	18267716	thru	18268055
182R/T182	1982	18268056	thru	18268293
182R/T182	1983	18268294	thru	18268368
182R/T182	1984	18268369	thru	18268434
182R/T182	1985	18268435	thru	18268541
182R	1986	18268542	thru	18268586
R182	1978	R18200002	thru	R18200583
R182/TR182	1979	R18200001		
R182/TR182	1979	R18200584	thru	R18201313
R182/TR182	1980	R18201314		
R182/TR182	1980	R18201316	thru	R18201628
R182/TR182	1981	R18201629	thru	R18201798
R182/TR182	1982	R18201799	thru	R18201928
R182/TR182	1983	R18201929	thru	R18201973
R182/TR182	1984	R18201974	thru	R18201999
R182/TR182	1985	R18201315		
R182/TR182	1985	R18202000	thru	R18202031
R182/TR182	1986	R18202032	thru	R18202039
210-5 (205)	1963	205-0001	thru	205-0480
210-5 (205)	1963	641		
210-5A (205A)	1964	205-0481	thru	205-0550
210-5A (205A)	1964	205-0552	thru	205-0555
210B	1962	21057841	thru	21058085
210C	1963	21058086	thru	21058139
210C	1963	21058141	thru	21058220
210D	1964	21058221	thru	21058510
210E	1965	21058511	thru	21058715
210F	1966	21058716	thru	21058818
T210F	1966	T210-0001	thru	T210-0197

<u>Model</u>	<u>Year</u>	<u>Serial Numbers</u>		
A182J	1966	A182-0001	thru	A182-0056
A182K	1967	A182-0057	thru	A182-0096
A182L	1968	A182-0097	thru	A182-0116
A182N	1972	A182-0117	thru	A182-0136
A182N	1974	A182-0137	thru	A182-0146
A182N	1976	A182-0147	thru	A182-0148
F172N	1980	F17201910	thru	F17202039
F172P	1981	F17202040	thru	F17202134
F172P	1982	F17202135	thru	F17202194
F172P	1983	F17202195	thru	F17202216
F172P	1984	F17202217	thru	F17202233
F172P	1985	F17202234	thru	F17202238
F172P	1986	F17202239	thru	F17202254
FR172K	1980	FR17200656	thru	FR17200665
FR172K	1981	FR17200666	thru	FR17200675
F182P	1976	F18200001	thru	F18200025
F182Q	1977	F18200026	thru	F18200064
F182Q	1978	F18200065	thru	F18200094
F182Q	1979	F18200095	thru	F18200129
F182Q	1980	F18200130	thru	F18200169
F182RG	1978	FR18200001	thru	FR18200020
F182RG	1979	FR18200021	thru	FR18200045
F182RG	1980	FR18200046	thru	FR18200070

PURPOSE

Service experience indicates the possibility of cracks developing in the lower area of the forward cabin doorposts. An inspection for cracks in this area must be conducted. If a crack is found, the doorposts shall be modified by installing a service kit. Non-compliance with this Service Bulletin may result in failure of a lower cabin doorpost and may compromise the structural integrity of the airplane.

COMPLIANCE

Mandatory:

A. Initial Inspection:

1. Airplanes with 4,000 hours or more total time in service shall be inspected within the next 200 hours of operation or 12 months, whichever occurs first.
2. Airplanes with less than 4,000 hours total time in service shall be inspected upon reaching 4,000 hours total time in service or within the next 200 hours of operation, whichever occurs later.

B. Repetitive Inspections:

1. For 172, F172, R172, FR172, and 172RG model airplanes, accomplish every 1,000 hours of operation after the initial inspection until installation of SK172-147 (or latest revision).
2. For 182, R182, TR182, A182, F182, and F182RG model airplanes, accomplish every 1,000 hours of operation after the initial inspection until installation of SK182-115 (or latest revision).
3. For 210-5 (205), 210, and T210 model airplanes, accomplish every 1,000 hours of operation after the initial inspection until installation of SK210-156 (or latest revision).

APPROVAL

FAA approval has been obtained on technical data in this publication that affects airplane type design.

For Reims Aviation airplanes; DGAC approval has been obtained on technical data in this publication that affects airplane type design.

MAN-HOURS

Approximately 1.5 man-hours to inspect doorposts.

Approximately 24.0 man-hours per airplane to install SK172-147, SK182-115, or SK210-156.

MATERIAL

The following parts are available from Cessna Parts Distribution through an appropriate Cessna Service Station for the suggested list price shown.

<u>Part Number</u>	<u>Description</u>	<u>Qty./Airplane</u>	<u>Price</u>
SK172-147 (See Note 1)	Lower Forward Doorpost Bulkhead And Wing Strut Fitting Reinforcement Kit	1	\$ 646.00 (A) ea.
SK182-115 (See Note 2)	Lower Forward Doorpost Bulkhead And Wing Strut Fitting Reinforcement Kit	1	\$ 920.00 (A) ea.
SK210-156 (See Note 3)	Lower Forward Doorpost Bulkhead And Wing Strut Fitting Reinforcement Kit	1	\$ 952.00 (A) ea.

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE

ORDERING INFORMATION NOTES

<u>Note</u>	<u>Model</u>	<u>Year</u>	<u>Applicable Serial Numbers</u>
1.	172N	1980	17272885 thru 17274009
	172P	1981	17274010 thru 17275034
	172P	1982	17275035 thru 17275759
	172P	1983	17275760 thru 17276079
	172P	1984	17276080 thru 17276259
	172P	1985	17276260 thru 17276516
	172P	1986	17276517 thru 17276654
	172Q	1983	17275869
	172Q	1983	17275927 thru 17275934
	172Q	1983	17275952, 17275959, 17275960
	172Q	1983	17275962, 17275964, 17275965
	172Q	1983	17275967, 17275968, 17275969
	172Q	1983	17275971, 17275992, 17275999
	172Q	1983	17276002, 17276005, 17276029
	172Q	1983	17276032, 17276042, 17276045
	172Q	1983	17276051, 17276052, 17276054

ORDERING INFORMATION NOTES

<u>Note</u>	<u>Model</u>	<u>Year</u>	<u>Applicable Serial Numbers</u>		
1. (Continued)	172Q	1984	17276101, 17276109, 17276140		
	172Q	1984	17276147, 17276188, 17276211		
	172RG	1980	172RG0001	thru	172RG0570
	172RG	1981	172RG0571	thru	172RG0890
	172RG	1981	691		
	172RG	1982	172RG0891	thru	172RG1099
	172RG	1983	172RG1100	thru	172RG1144
	172RG	1984	172RG1145	thru	172RG1177
	172RG	1985	172RG1178	thru	172RG1191
	R172K	1980	R1723200	thru	R1723397
	R172K	1980	R1723399		
	R172K	1981	R1723400	thru	R1723454
	F172N	1980	F17201910	thru	F17202039
	F172P	1981	F17202040	thru	F17202134
	F172P	1982	F17202135	thru	F17202194
	F172P	1983	F17202195	thru	F17202216
	F172P	1984	F17202217	thru	F17202233
	F172P	1985	F17202234	thru	F17202238
	F172P	1986	F17202239	thru	F17202254
	FR172K	1980	FR17200656	thru	FR17200665
	FR172K	1981	FR17200666	thru	FR17200675
2.	182E	1962	18253599	thru	18254423
	182F	1963	18254424	thru	18255058
	182G	1964	18255059	thru	18255844
	182H	1965	18255846	thru	18256684
	182H	1965	634		
	182J	1966	18256685	thru	18257625
	182K	1967	18255845		
	182K	1967	18257626	thru	18257698
	182K	1967	18257700	thru	18258505
	182L	1968	18258506	thru	18259305
	182M	1969	18257699		
	182M	1969	18259306	thru	18260055
	182N	1970	18260056	thru	18260445
	182N	1971	18260446	thru	18260825
	182P	1972	18260826	thru	18261425
	182P	1973	18261426	thru	18262465
	182P	1974	18262466	thru	18262475
	182P	1975	18263476	thru	18263478
	182P	1975	18263480	thru	18264295
	182P	1975	675		
	182P	1976	18264296	thru	18265175
	182Q	1977	18265176	thru	18265965
	182Q	1978	18263479		
	182Q	1978	18265966	thru	18266590
	182Q	1979	18266591	thru	18267300
	182Q	1980	18267301		
	182Q	1980	18267303	thru	18267715

ORDERING INFORMATION NOTES

<u>Note</u>	<u>Model</u>	<u>Year</u>	<u>Applicable Serial Numbers</u>		
2. (Continued)	182R/T182	1981	18267302		
	182R/T182	1981	18267716	thru	18268055
	182R/T182	1982	18268056	thru	18268293
	182R/T182	1983	18268294	thru	18268368
	182R/T182	1984	18268369	thru	18268434
	182R/T182	1985	18268435	thru	18268541
	182R	1986	18268542	thru	18268586
	R182	1978	R18200002	thru	R18200583
	R182/TR182	1979	R18200001		
	R182/TR182	1979	R18200584	thru	R18201313
	R182/TR182	1980	R18201314		
	R182/TR182	1980	R18201316	thru	R18201628
	R182/TR182	1981	R18201629	thru	R18201798
	R182/TR182	1982	R18201799	thru	R18201928
	R182/TR182	1983	R18201929	thru	R18201973
	R182/TR182	1984	R18201974	thru	R18201999
	R182/TR182	1985	R18201315		
	R182/TR182	1985	R18202000	thru	R18202031
	R182/TR182	1986	R18202032	thru	R18202039
	A182J	1966	A182-0001	thru	A182-0056
	A182K	1967	A182-0057	thru	A182-0096
	A182L	1968	A182-0097	thru	A182-0116
	A182N	1972	A182-0117	thru	A182-0136
	A182N	1974	A182-0137	thru	A182-0146
	A182N	1976	A182-0147	thru	A182-0148
	F182P	1976	F18200001	thru	F18200025
	F182Q	1977	F18200026	thru	F18200064
	F182Q	1978	F18200065	thru	F18200094
	F182Q	1979	F18200095	thru	F18200129
	F182Q	1980	F18200130	thru	F18200169
	F182RG	1978	FR18200001	thru	FR18200020
	F182RG	1979	FR18200021	thru	FR18200045
	F182RG	1980	FR18200046	thru	FR18200070
3.	210-5 (205)	1963	205-0001	thru	205-0480
	210-5 (205)	1963	641		
	210-5A (205A)	1964	205-0481	thru	205-0550
	210-5A (205A)	1964	205-0552	thru	205-0555
	210B	1962	21057841	thru	21058085
	210C	1963	21058086	thru	21058139
	210C	1963	21058141	thru	21058220
	210D	1964	21058221	thru	21058510
	210E	1965	21058511	thru	21058715
	210F	1966	21058716	thru	21058818
	T210F	1966	T210-0001	thru	T210-0197

ACCOMPLISHMENT INSTRUCTIONS

Lower Forward Doorpost Bulkhead And Wing Strut Fitting Inspection Accomplishment Instructions, and Service Kits SK172-147, SK182-115, and SK210-156; Lower Forward Doorpost Bulkhead And Wing Strut Fitting Reinforcement instructions are attached.

CREDIT

Not applicable.

OWNER NOTIFICATION

On December 29, 1995 the following Owner Advisory message will be sent to applicable owners of record in SEB95-19A.

Dear Cessna Owner:

Cracks may develop in the lower area of the forward cabin doorpost. An inspection for cracks must be conducted. If cracked, the doorposts shall be modified by installing a service kit. Non-compliance with this Service Bulletin may result in failure of a cabin doorpost and may compromise the structural integrity of the airplane.

Compliance is mandatory;

A. Initial Inspection:

1. Airplanes with 4,000 hours or more total time in service shall be inspected within the next 200 hours of operation or 12 months, whichever occurs first.
2. Airplanes with less than 4,000 hours total time in service shall be inspected upon reaching 4,000 hours total time in service or within the next 200 hours of operation, whichever occurs later.

B. Repetitive Inspections:

1. For 172, F172, R172, FR172, and 172RG model airplanes, accomplish every 1,000 hours of operation after the initial inspection until installation of SK172-147 (or latest revision).
2. For 182, R182, TR182, A182, F182, and F182RG model airplanes, accomplish every 1,000 hours of operation after the initial inspection until installation of SK182-115 (or latest revision).
3. For 210-5 (205), 210, and T210 model airplanes, accomplish every 1,000 hours of operation after the initial inspection until installation of SK210-156 (or latest revision).

Please contact a Cessna Single Engine Service Station for detailed information regarding the accomplishment of this service bulletin on your airplane.

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TITLE LOWER FORWARD DOORPOST BULKHEAD AND WING STRUT FITTING INSPECTION
EFFECTIVITY

<u>Model</u>	<u>Year</u>	<u>Serial Numbers</u>	
172N	1980	17272885	thru 17274009
172P	1981	17274010	thru 17275034
172P	1982	17275035	thru 17275759
172P	1983	17275760	thru 17276079
172P	1984	17276080	thru 17276259
172P	1985	17276260	thru 17276516
172P	1986	17276517	thru 17276654
172Q	1983	17275869	
172Q	1983	17275927	thru 17275934
172Q	1983	17275952, 17275959, 17275960	
172Q	1983	17275962, 17275964, 17275965	
172Q	1983	17275967, 17275968, 17275969	
172Q	1983	17275971, 17275992, 17275999	
172Q	1983	17276002, 17276005, 17276029	
172Q	1983	17276032, 17276042, 17276045	
172Q	1983	17276051, 17276052, 17276054	
172Q	1984	17276101, 17276109, 17276140	
172Q	1984	17276147, 17276188, 17276211	
172RG	1980	172RG0001	thru 172RG0570
172RG	1981	172RG0571	thru 172RG0890
172RG	1981	691	
172RG	1982	172RG0891	thru 172RG1099
172RG	1983	172RG1100	thru 172RG1144
172RG	1984	172RG1145	thru 172RG1177
172RG	1985	172RG1178	thru 172RG1191
R172K	1980	R1723200	thru R1723397
R172K	1980	R1723397	thru R1723399
R172K	1981	R1723400	thru R1723454
182E	1962	18253599	thru 18254423
182F	1963	18254424	thru 18255058
182G	1964	18255059	thru 18255844
182H	1965	18255846	thru 18256684
182H	1965	634	
182J	1966	18256685	thru 18257625
182K	1967	18257626	thru 18257698
182K	1967	18257700	thru 18258505
182K	1967	18255845	
182L	1968	18258506	thru 18259305

ACCOMPLISHMENT INSTRUCTIONS

SEB95-19

<u>Model</u>	<u>Year</u>	<u>Serial Numbers</u>	
182M	1969	18259306	thru 18260055
182M	1969	18257699	
182N	1970	18260056	thru 18260445
182N	1971	18260446	thru 18260825
182P	1972	18260826	thru 18261425
182P	1973	18261426	thru 18262465
182P	1974	18262466	thru 18263475
182P	1975	18263476	thru 18263478
182P	1975	18263480	thru 18264295
182P	1975	675	
182P	1976	18264296	thru 18265175
182Q	1977	18265176	thru 18265965
182Q	1978	18265966	thru 18266590
182Q	1978	18263479	
182Q	1979	18266591	thru 18267300
182Q	1980	18267301	
182Q	1980	18267303	thru 18267715
182R/T182	1981	18267716	thru 18268055
182R/T182	1981	18267302	
182R/T182	1982	18268056	thru 18268293
182R/T182	1983	18268294	thru 18268368
182R/T182	1984	18268369	thru 18268434
182R/T182	1985	18268435	thru 18268541
182R	1986	18268542	thru 18268586
R182	1978	R18200002	thru R18200583
R182/TR182	1979	R18200584	thru R18201313
R182/TR182	1979	R18200001	
R182/TR182	1980	R18201314	
R182/TR182	1980	R18201316	thru R18201628
R182/TR182	1981	R18201629	thru R18201798
R182/TR182	1982	R18201799	thru R18201928
R182/TR182	1983	R18201929	thru R18201973
R182/TR182	1984	R18201974	thru R18201999
R182/TR182	1985	R18202000	thru R18202031
R182/TR182	1985	R18201315	
R182/TR182	1986	R18202032	thru R18202039
210-5 (205)	1963	205-0001	thru 205-0480
210-5 (205)	1963	641	
210-5A (205A)	1964	205-0481	thru 205-0550
210-5A (205A)	1964	205-0552	thru 205-0555
210B	1962	21057841	thru 21058085
210C	1963	21058086	thru 21058139
210C	1963	21058141	thru 21058220
210D	1964	21058221	thru 21058510
210E	1965	21058511	thru 21058715
210F	1966	21058716	thru 21058818

ACCOMPLISHMENT INSTRUCTIONS

SEB95-19

<u>Model</u>	<u>Year</u>	<u>Serial Numbers</u>	
T210F	1966	T210-0001	thru T201-0197
A182J	1966	A182-0001	thru A182-0056
A182K	1967	A182-0057	thru A182-0096
A182L	1968	A182-0097	thru A182-0116
A182N	1972	A182-0117	thru A182-0136
A182N	1974	A182-0137	thru A182-0146
A182N	1976	A182-0147	thru A182-0148
F172N	1980	F17201910	thru F17202039
F172P	1981	F17202040	thru F17202134
F172P	1982	F17202135	thru F17202194
F172P	1983	F17202195	thru F17202216
F172P	1984	F17202217	thru F17202233
F172P	1985	F17202234	thru F17202238
F172P	1986	F17202239	thru F17202254
FR172K	1980	FR17200656	thru FR17200665
FR172K	1981	FR17200666	thru FR17200675
F182P	1976	F18200001	thru F18200025
F182Q	1977	F18200026	thru F18200064
F182Q	1978	F18200065	thru F18200094
F182Q	1979	F18200095	thru F18200129
F182Q	1980	F18200130	thru F18200169
F182RG	1978	FR18200001	thru FR18200020
F182RG	1979	FR18200021	thru FR18200045
F182RG	1980	FR18200046	thru FR18200070

DESCRIPTION

The following procedures provide instructions to inspect the lower area of the forward cabin doorposts for cracks.

APPROVAL

FAA approval has been obtained on technical data in this publication that affects airplane type design.

For Reims Aviation airplanes: DGAC approval has been obtained on technical data in this publication that affects airplane type design.

REFERENCE

SEB95-19

ACCOMPLISHMENT INSTRUCTIONS

SEB95-19

CHANGE IN WEIGHT AND BALANCE

MODEL 172, F172, R172, FR172, 172RG, 182, R182, TR182,
A182, F182, F182RG, 210-5 (205), 210 and T210

WEIGHT INCREASE No Change.

MATERIAL INFORMATION

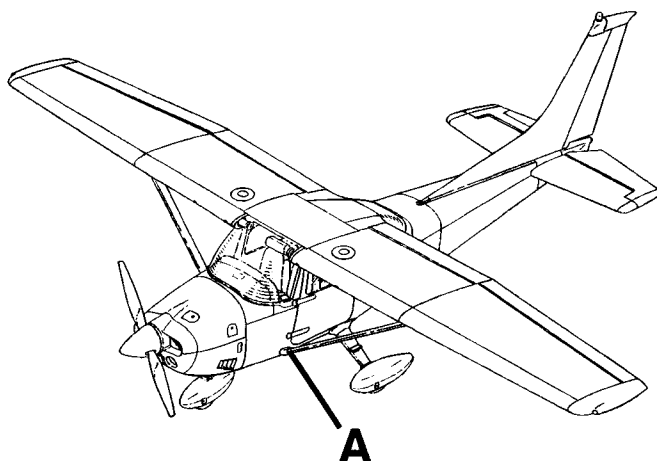
None.

ACCOMPLISHMENT INSTRUCTIONS

1. Doorpost Bulkhead Inspection:
 - A. Pull back the upholstery covering the left and right floorboards at the intersection of the forward doorpost and floor.
 - B. Remove and retain the upholstery and heater ducts on both sides at the bottom of the forward left and right doorposts. The critical inspection area must be fully exposed.
 - C. Remove floorboard inspection covers in areas fore and aft of doorpost.
 - B. (Refer to Figure 1, Sheet 2, Details B and C.) Visually inspect areas shown for cracks. If there are cracks present, they should be visible at the intersection of the doorpost and the forward doorpost bulkhead. Look for cracks that follow the contour of the wing strut support fitting.
 - D. If cracks are present:
 - (1) For 172, F172, R172, FR172 and 172RG model airplanes, install SK172-147 (or later revision) prior to further flight.
 - (2) For 182, R182, TR182, A182, F182 and F182RG model airplanes, install SK182-115 (or later revision) prior to further flight.
 - (3) For 210-5 (205), 210 and T210 model airplanes, install SK210-156 (or later revision) prior to further flight.
 - E. If cracks are not present, repetitive inspections of the critical area shall be accomplished per the compliance section of this service bulletin.
2. Make an entry in the airplane logbook stating method of compliance with this service bulletin and if applicable, when the next inspection is due.

ACCOMPLISHMENT INSTRUCTIONS

SEB95-19



MODEL 182 SHOWN. INSPECTION IS
TYPICAL FOR MODELS 172, 182, AND 210

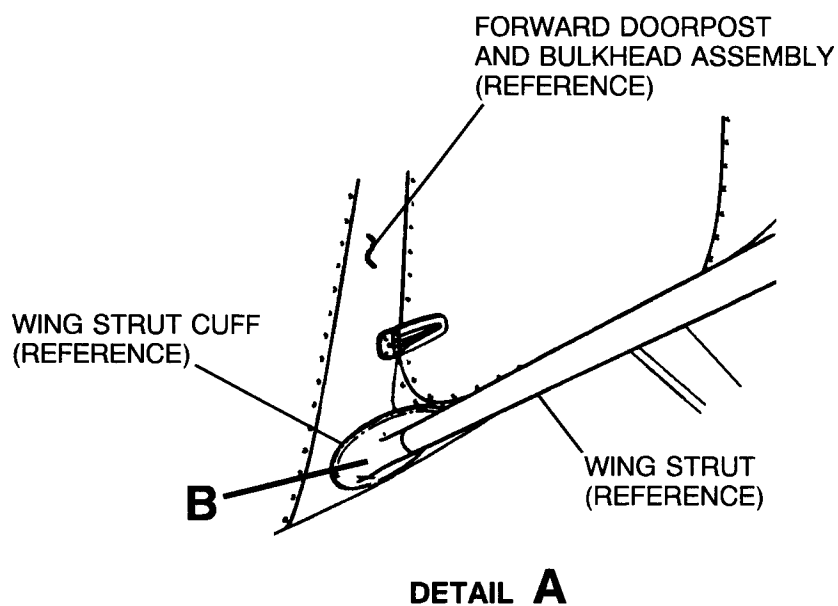
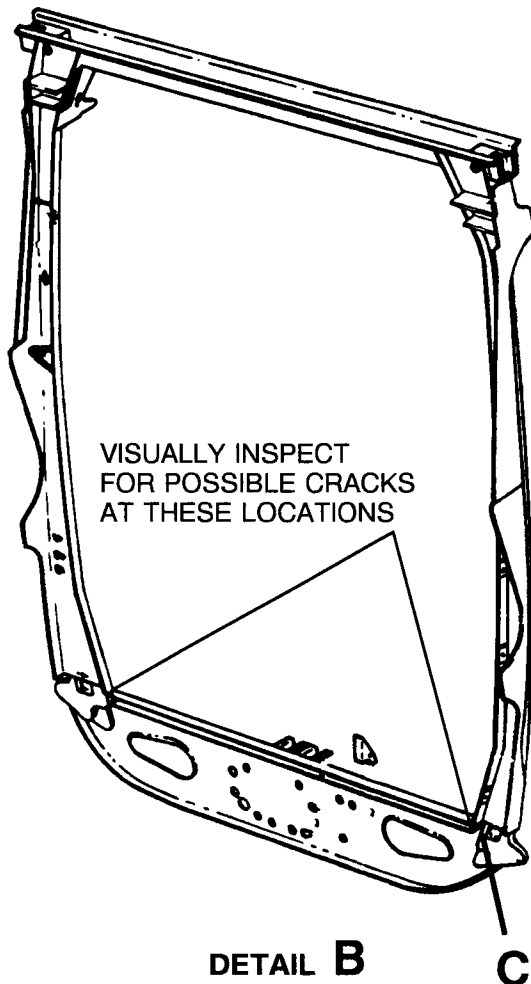


Figure 1. Lower Doorpost Bulkhead and Wing Strut Fitting Inspection (Sheet 1 of 2)

ACCOMPLISHMENT INSTRUCTIONS

SEB95-19



CRITICAL INSPECTION AREA
LOOK FOR CRACKS FOLLOWING
THE CONTOUR OF THE WING
STRUT SUPPORT FITTING.

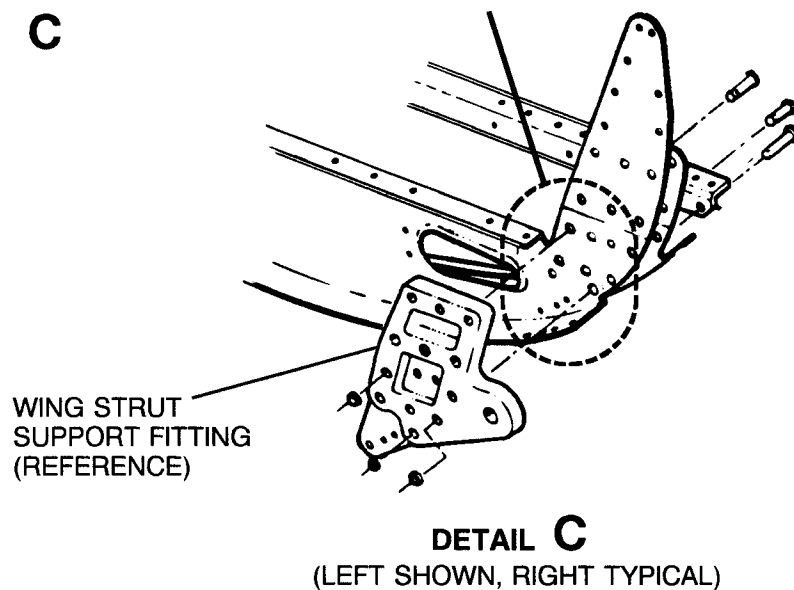


Figure 1. Lower Doorpost Bulkhead and Wing Strut Fitting Inspection (Sheet 2)

TITLE LOWER FORWARD DOORPOST BULKHEAD AND WING STRUT FITTING REINFORCEMENT

EFFECTIVITY

<u>Model</u>	<u>Year</u>	<u>Serial Numbers</u>
172N	1980	17272885 thru 17274009
172P	1981	17274010 thru 17275034
172P	1982	17275035 thru 17275759
172P	1983	17275760 thru 17276079
172P	1984	17276080 thru 17276259
172P	1985	17276260 thru 17276516
172P	1986	17276517 thru 17276654
172Q	1983	17275869
172Q	1983	17275927 thru 17275934
172Q	1983	17275952, 17275959, 17275960
172Q	1983	17275962, 17275964, 17275965
172Q	1983	17275967, 17275968, 17275969
172Q	1983	17275971, 17275992, 17275999
172Q	1983	17276002, 17276005, 17276029
172Q	1983	17276032, 17276042, 17276045
172Q	1983	17276051, 17276052, 17276054
172Q	1984	17276101, 17276109, 17276140
172Q	1984	17276147, 17276188, 17276211
172RG	1980	172RG0001 thru 172RG0570
172RG	1981	172RG0571 thru 172RG0890
172RG	1981	691
172RG	1982	172RG0891 thru 172RG1099
172RG	1983	172RG1100 thru 172RG1144
172RG	1984	172RG1145 thru 172RG1177
172RG	1985	172RG1178 thru 172RG1191
R172K	1980	R1723200 thru R1723397
R172K	1980	R1723397 thru R1723399
R172K	1981	R1723400 thru R1723454
F172N	1980	F17201910 thru F17202039
F172P	1981	F17202040 thru F17202134
F172P	1982	F17202135 thru F17202194
F172P	1983	F17202195 thru F17202216
F172P	1984	F17202217 thru F17202233
F172P	1985	F17202234 thru F17202238
F172P	1986	F17202239 thru F17202254
FR172K	1980	FR17200656 thru FR17200665
FR172K	1981	FR17200666 thru FR17200675

SERVICE KIT

SK172-147

DESCRIPTION

The following procedures provide instructions to add a channel to each forward cabin doorpost bulkhead.

APPROVAL

FAA approval has been obtained on technical data in this publication that affects airplane type design.

For Reims Aviation airplanes: DGAC approval has been obtained on technical data in this publication that affects airplane type design.

REFERENCE

SEB95-19

CHANGE IN WEIGHT AND BALANCE

MODEL	172, F172, R172, FR172,172RG
ARM	26 inches
WEIGHT INCREASE	0.56 pounds
RESULTANT MOMENT	14.56 in./lbs.
MOMENT/1000	.015

MATERIAL INFORMATION

PART NUMBER	QUANTITY	DESCRIPTION
SK172-147	1	Kit , consisting of the following parts:
MS20470AD5-9	10	Rivet
MS21042L4	6	Nut
NAS1149F0463P	12	Washer
NAS464P4A20	6	Bolt
0718003-5	1	Channel Assembly-LH
0718003-6	1	Channel Assembly-RH
	1	Instructions

SERVICE KIT

SK172-147

ACCOMPLISHMENT INSTRUCTIONS

1. Disconnect all electrical power from the airplane. Attach maintenance warning tags to the battery connector(s) and external power receptacle stating:

WARNING: DO NOT CONNECT ELECTRICAL POWER—MAINTENANCE IN PROGRESS.

2. Prepare to drain fuel from the airplane by observing all safety precautions.

WARNING: REMOVE ALL IGNITION SOURCES. OBSERVE ALL FUEL SYSTEM FIRE AND SAFETY PRACTICES.

3. Drain the fuel from the airplane. (Refer to the airplane service manual.)
4. Remove and retain the pilot and copilot seats from the airplane. (Refer to the airplane service manual.)
5. Remove and retain the upholstery and heater ducts from both sides at the bottom of the forward left and right doorposts. (Refer to the airplane service manual.)
6. Remove and retain carpet retainers and remove carpet to allow access to the floorboards. (Refer to the airplane service manual.)
7. Remove the access covers in the floorboards forward and aft of the forward doorpost. Retain all parts and hardware for reinstallation.
8. Remove pilot and copilot seat belts and brackets. Retain all parts and hardware for reinstallation. (Refer to airplane service manual.)

CAUTION: BEFORE DRILLING OUT RIVETS, CHECK THE LOCATION OF FUEL LINES, WIRING, ETC. BELOW THE FLOORBOARDS.

9. Drill out the rivet heads of the rivets which retain floorboard and seat rails to the structure. Set the drill stop to ensure only the heads are removed, and then punch the stems through the structure to ensure the underlying structure is not damaged and the holes are not enlarged. Remove parts. Make note of the size of rivets removed. The same size rivets are to be used for reinstallation of floorboard and seat rails. Retain floorboard and seat rails.
10. Remove or move fuel lines, wiring, cables, etc., as required to accomplish the remaining instructions.
11. (Refer to Figure 1, Sheet 2, View A-A, Before Modification.) Remove fasteners from the doorpost and bulkhead area. Drill out rivets and grind off Hi-Lok fastener collars to remove Hi-Lok fasteners. Do not enlarge fastener holes in the structure.
12. (Refer to Figure 1, Sheet 4, View B-B.) Position the 0718003-5 channel assembly on the forward side of the left strut fitting. Install a NAS464P4A20 bolt with washers and nut to retain in position. Using the bulkhead as a drill guide, drill holes in the channel to match existing holes in the bulkhead.
13. (Refer to Figure 1, Sheet 3, View A-A.) Drill additional 0.159 inch diameter (Number 21) holes through the bulkhead and channel for installation of MS20470AD5-9 rivets. Hole spacing should be approximately equal between the existing holes and the new holes.

NOTE: Ensure that new holes are not located on either of the joggles which exist on the backside of the bulkhead.

14. Repeat the procedures using the 0718003-6 channel assembly on the right side.
15. Remove the 0718003 channels. Deburr all holes in the doublers, channel assemblies, and the structure.

SERVICE KIT

SK172-147

16. (Refer to Figure 1, Sheet 3, View A-A, and Sheet 4, Views B-B and C-C.) Install the channel assemblies to the bulkhead using provided fasteners as shown.

NOTE: In some instances, it may be necessary to use a NAS1149F0436P washer on both the nut and the bolt head to obtain proper grip length. These washers are included with the kit and should be used as required.

17. Reinstall the fuel lines, wiring, cables, etc., which were removed in step 10.
18. Refuel the airplane and check for leaks at lines that were removed and reinstalled.
19. Reinstall floorboard and seat rails using the same size fasteners as removed. Use solid rivets where access to buck the rivet is possible. Where necessary, use CR3213 (or equivalent) pull-type rivets to substitute for the original solid rivets.
20. Reinstall the floorboard cover plates, seat belt brackets and seat belts using retained hardware.
21. Reinstall all interior upholstery, retained heater ducts and seats. (Refer to the airplane service manual.)
22. Reconnect the electrical power.
23. Make an entry in the airplane logbook stating this service kit has been installed.

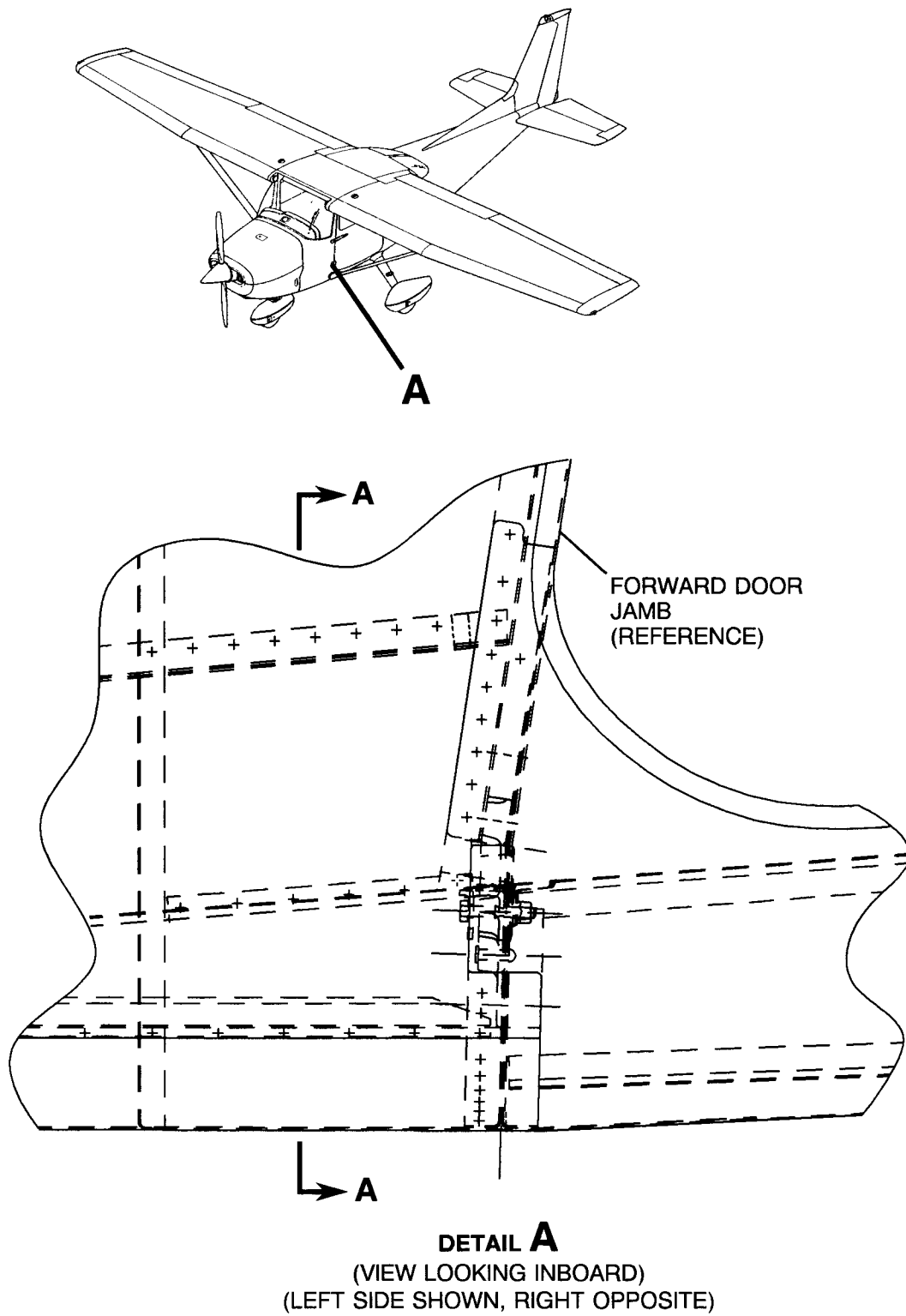
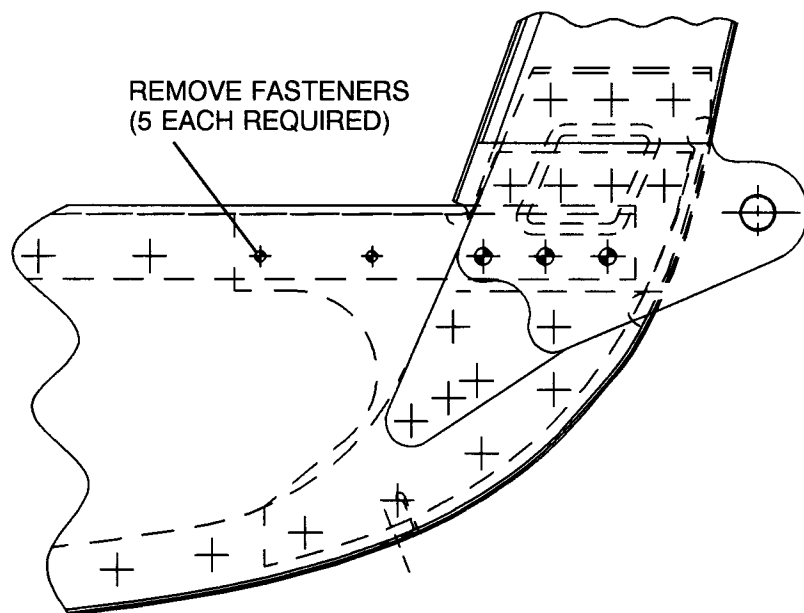


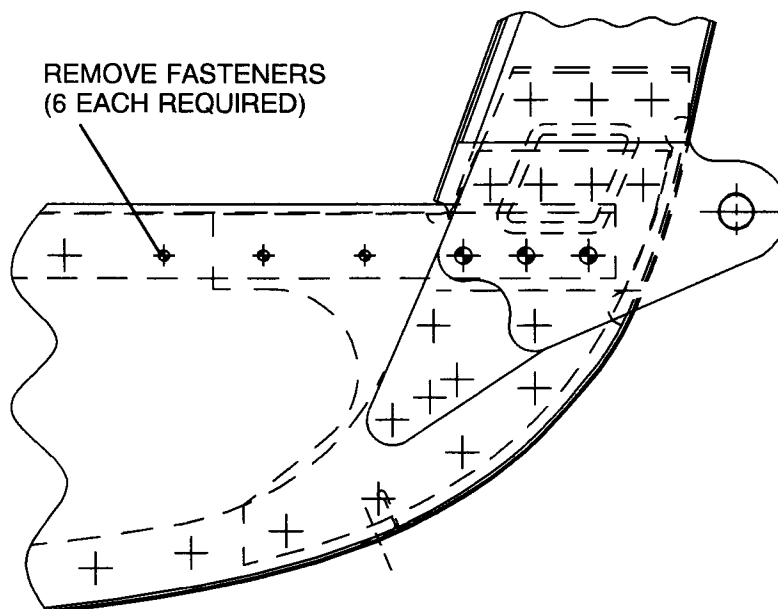
Figure 1. Doorpost Bulkhead and Wing Strut Fitting Reinforcement (Sheet 1 of 4)

SERVICE KIT

SK172-147



VIEW A-A
(VIEW BEFORE MODIFICATION)
(APPLIES TO MODELS 172, F172,
R172 AND FR172)



VIEW A-A
(VIEW BEFORE MODIFICATION)
(APPLIES TO MODEL 172RG)

Figure 1. Doorpost Bulkhead and Wing Strut Fitting Reinforcement (Sheet 2)

SERVICE KIT

SK172-147

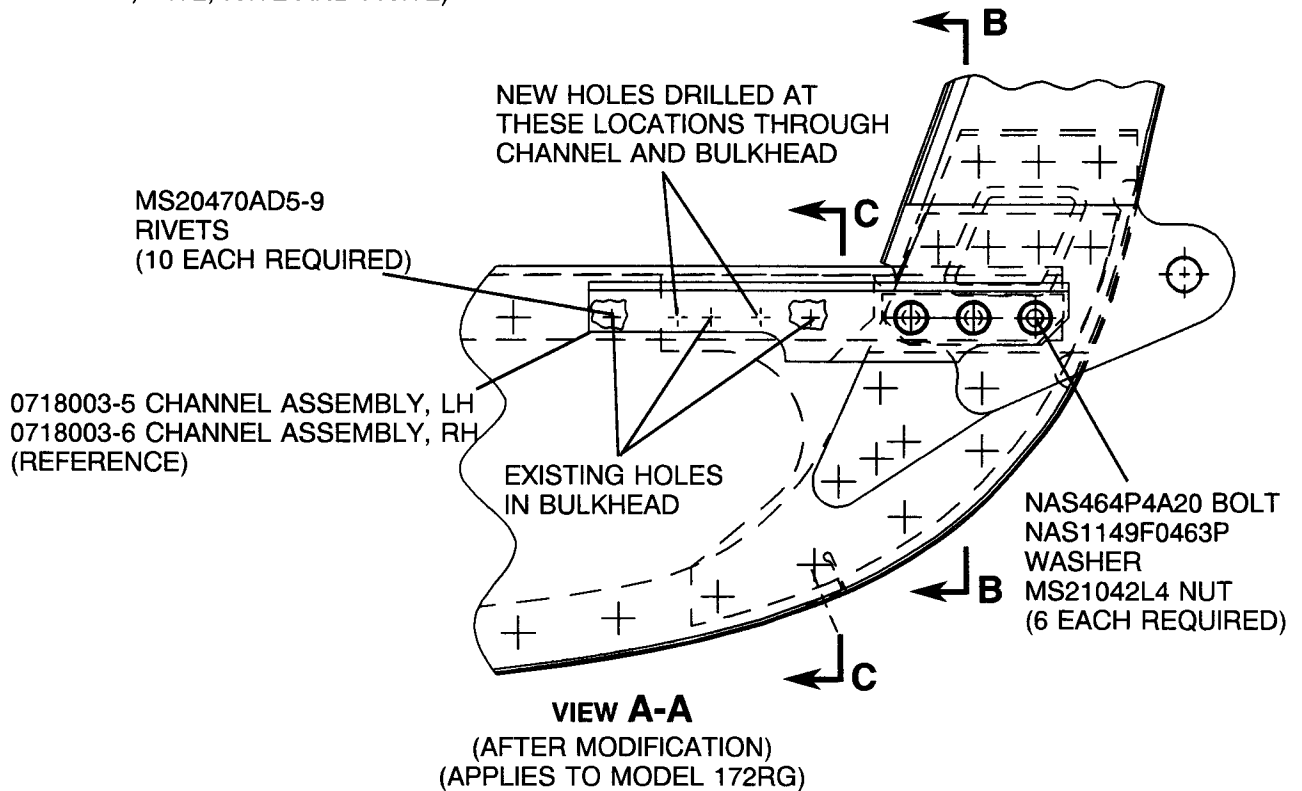
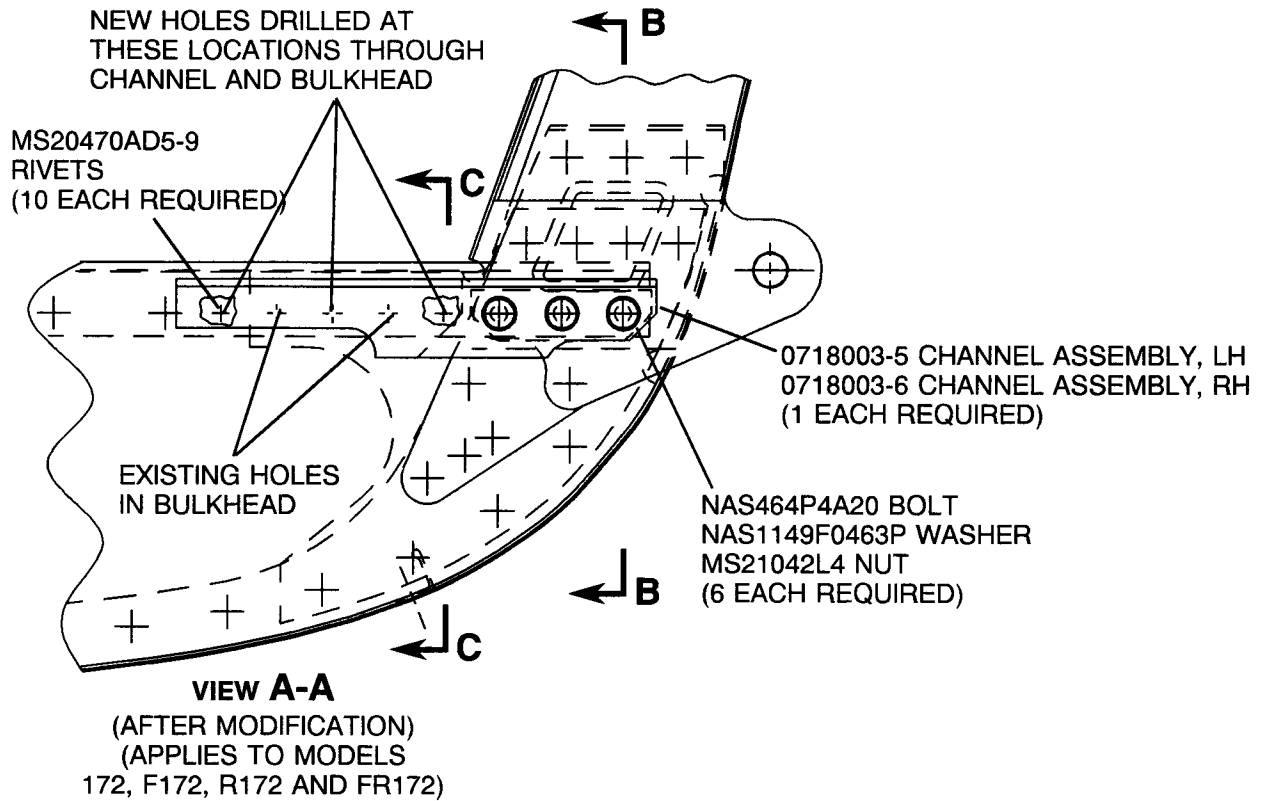


Figure 1. Doorpost Bulkhead and Wing Strut Fitting Reinforcement (Sheet 3)

SERVICE KIT

SK172-147

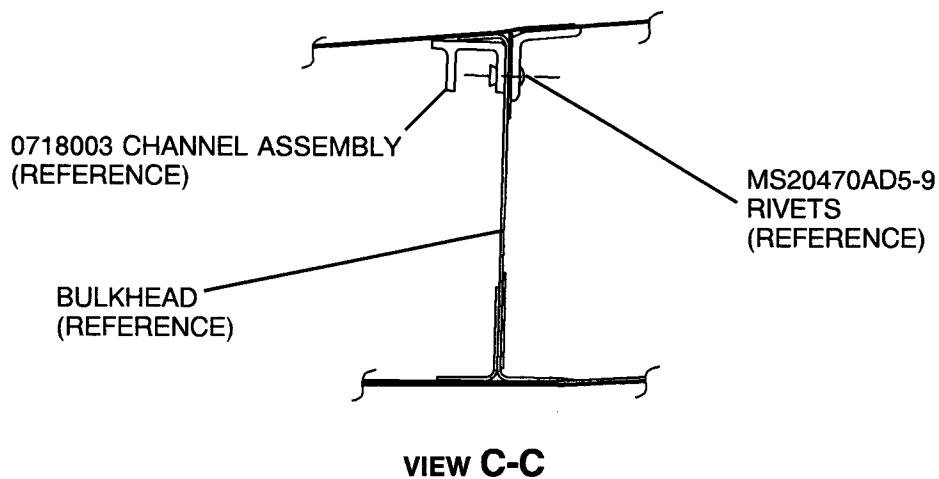
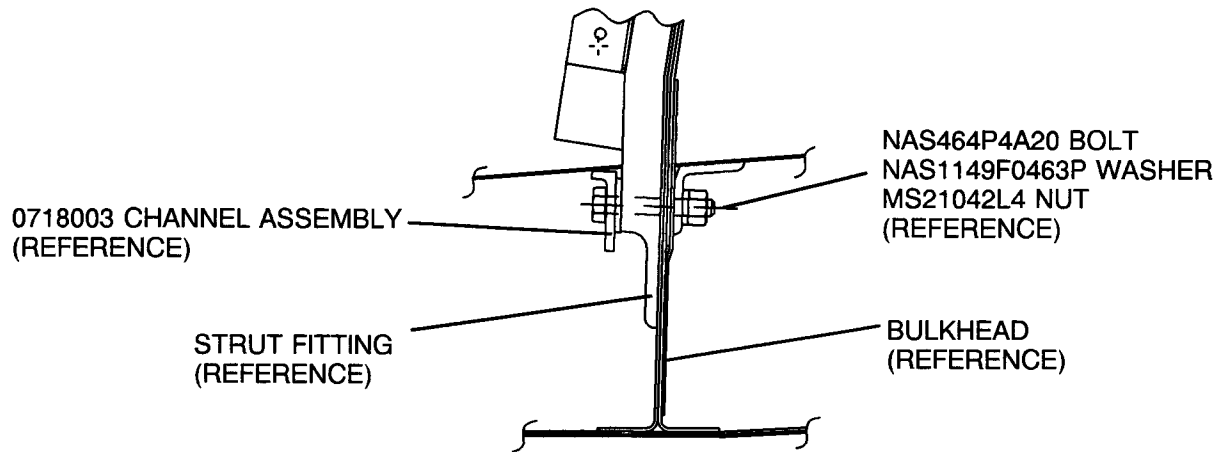


Figure 1. Doorpost Bulkhead and Wing Strut Fitting Reinforcement (Sheet 4)

TITLE LOWER FORWARD DOORPOST BULKHEAD AND WING STRUT FITTING REINFORCEMENT

EFFECTIVITY

<u>Model</u>	<u>Year</u>	<u>Serial Numbers</u>		
182E	1962	18253599	thru	18254423
182F	1963	18254424	thru	18255058
182G	1964	18255059	thru	18255844
182H	1965	18255846	thru	18256684
182H	1965	634		
182J	1966	18256685	thru	18257625
182K	1967	18257626	thru	18257698
182K	1967	18257700	thru	18258505
182K	1967	18255845		
182L	1968	18258506	thru	18259305
182M	1969	18259306	thru	18260055
182M	1969	18257699		
182N	1970	18260056	thru	18260445
182N	1971	18260446	thru	18260825
182P	1972	18260826	thru	18261425
182P	1973	18261426	thru	18262465
182P	1974	18262466	thru	18263475
182P	1975	18263476	thru	18263478
182P	1975	18263480	thru	18264295
182P	1975	675		
182P	1976	18264296	thru	18265175
182Q	1977	18265176	thru	18265965
182Q	1978	18265966	thru	18266590
182Q	1978	18263479		
182Q	1979	18266591	thru	18267300
182Q	1980	18267301		
182Q	1980	18267303	thru	18267715
182R/T182	1981	18267716	thru	18268055
182R/T182	1981	18267302		
182R/T182	1982	18268056	thru	18268293
182R/T182	1983	18268294	thru	18268368
182R/T182	1984	18268369	thru	18268434
182R/T182	1985	18268435	thru	18268541
182R	1986	18268542	thru	18268586
R182	1978	R18200002	thru	R18200583
R182/TR182	1979	R18200584	thru	R18201313

SERVICE KIT

SK182-115

<u>Model</u>	<u>Year</u>	<u>Serial Numbers</u>	
R182/TR182	1979	R18200001	
R182/TR182	1979	R18200584	thru R18201313
R182/TR182	1980	R18201314	
R182/TR182	1980	R18201316	thru R18201628
R182/TR182	1981	R18201629	thru R18201798
R182/TR182	1982	R18201799	thru R18201928
R182/TR182	1983	R18201929	thru R18201973
R182/TR182	1984	R18201974	thru R18201999
R182/TR182	1985	R18202000	thru R18202031
R182/TR182	1985	R18201315	
R182/TR182	1986	R18202032	thru R18202039
A182J	1966	A182-0001	thru A182-0056
A182K	1967	A182-0057	thru A182-0096
A182L	1968	A182-0097	thru A182-0116
A182N	1972	A182-0117	thru A182-0136
A182N	1974	A182-0137	thru A182-0146
A182N	1976	A182-0147	thru A182-0148
F182P	1976	F18200001	thru F18200025
F182Q	1977	F18200026	thru F18200064
F182Q	1978	F18200065	thru F18200094
F182Q	1979	F18200095	thru F18200129
F182Q	1980	F18200130	thru F18200169
F182RG	1978	FR18200001	thru FR18200020
F182RG	1979	FR18200021	thru FR18200045
F182RG	1980	FR18200046	thru FR18200070

DESCRIPTION

The following procedures provide instructions to add a doubler and a channel to each forward cabin doorpost bulkhead.

APPROVAL

FAA approval has been obtained on technical data in this publication that affects airplane type design.

For Reims Aviation airplanes: DGAC approval has been obtained on technical data in this publication that affects airplane type design.

REFERENCE

SEB95-19

SERVICE KIT

SK182-115

CHANGE IN WEIGHT AND BALANCE

MODEL 182/T182, A182, F182, R182/TR182, FR182
WEIGHT INCREASE 1.6 Pounds
RESULTANT ARM 26.87 Inches
RESULTANT MOMENT 43.0 Inch-Pounds
MOMENT/1000 0.043

MATERIAL INFORMATION

PART NUMBER	QUANTITY	DESCRIPTION
SK182-115	1	Kit, consisting of the following parts:
HL18PB5-8	4	Pin
HL70-5	4	Collar
MS20426AD3-4	72	Rivet
MS20470AD5-8	20	Rivet
MS21042L3	2	Nut
MS21042L4	8	Nut
MS27039-0805	36	Screw
NAS1149F0363P	2	Washer
NAS1149F0463P	10	Washer
NAS464P3A8	2	Bolt
NAS464P4A16	2	Bolt
NAS464P4A20	6	Bolt
NAS680A08	36	Nutplate
S2906-4-2	34	Rivet
S2906-4-4	10	Rivet
S2906-5-5	6	Rivet
0718003-1	1	Channel Assembly-LH
0718003-2	1	Channel Assembly-RH
0791207-2	2	Cover
0791207-3	2	Cover
1211903-3	1	Doubler-LH
1211903-4	1	Doubler-RH
	1	Instructions

SERVICE KIT

SK182-115

ACCOMPLISHMENT INSTRUCTIONS

1. Disconnect all electrical power from the airplane. Attach maintenance warning tags to the battery connector(s) and external power receptacle stating:

WARNING: DO NOT CONNECT ELECTRICAL POWER—MAINTENANCE IN PROGRESS.

2. Prepare to drain fuel from the airplane by observing all safety precautions.

WARNING: REMOVE ALL IGNITION SOURCES. OBSERVE ALL FUEL SYSTEM FIRE AND SAFETY PRACTICES.

3. Drain the fuel from the airplane. (Refer to the airplane service manual.)
4. Remove and retain the pilot and copilot seats from the airplane. (Refer to the airplane service manual.)
5. Remove and retain carpet retainers and remove carpet to allow access to the floorboards. (Refer to the airplane service manual.)
6. Remove and retain the upholstery and heater ducts from both sides at the bottom of the forward left and right doorposts. (Refer to the airplane service manual.)
7. (Refer to Figure 1, Sheet 1 and Sheet 2, View A-A.) Modify the floorboards forward of the doorpost to gain access to the structure below the floorboards:

- A. Layout and cut new access holes in existing floorboards.

CAUTION: BEFORE DRILLING OUT RIVETS, CHECK THE LOCATION OF FUEL LINES, WIRING, ETC. BELOW THE FLOORBOARDS.

- B. Drill out 5 rivets retaining the 0713668-3 stiffeners to the existing floorboard. Retain the stiffeners.

NOTE: 18 additional rivets must be drilled out before installing new access panel. These rivets are drilled out in Step (21)(B).

8. Modify the floorboards aft of the doorpost to gain access to the structure below the floorboards:
 - A. (Refer to Figure 1, Sheet 1, Detail A.) Remove and discard oval-shaped access panels aft and inboard of the forward doorpost.
 - B. (Refer to Figure 1, Sheet 4, View B-B, Before Modification.) Drill out rivets securing oval-shaped doubler (with nutplates) to existing floorboards. Discard doubler with nutplates.
 - C. (Refer to Figure 1, Sheet 4, View B-B, Before Modification.) Layout and cut new access holes in existing floorboards.

NOTE: Nutplates are used to secure the new access panel to existing structure. These nutplates are installed in step (22)(B).

9. Remove and cap fuel lines along bulkhead area.
10. (Refer to Figure 2, Sheet 3, View B-B, Before Modification.) Remove fasteners from the doorpost. Drill out rivets and grind off Hi-Lok fastener collars to remove Hi-Lok fasteners. Do not enlarge fastener holes in the structure.

NOTE: Set a drill stop at the depth of the rivet head. Drill the center of the head to the drill stop depth. Use a drift punch to pry off the head of the rivet and drive the shank out. *DO NOT* attempt to drill out steel fasteners.

11. (Refer to Figure 2, Sheets 5 and 6, View F-F and Detail B.) Model 182 serials 18267716 thru 18268434, and Model R182 serials R18201629 thru R18202039 airplanes have a 0713356 doubler installed on the right side forward face of the doorpost bulkhead that will require modification. Drill out rivets and remove the doubler. Modify the doubler by trimming off the upper section as shown. Reinstall the doubler.

SERVICE KIT

SK182-115

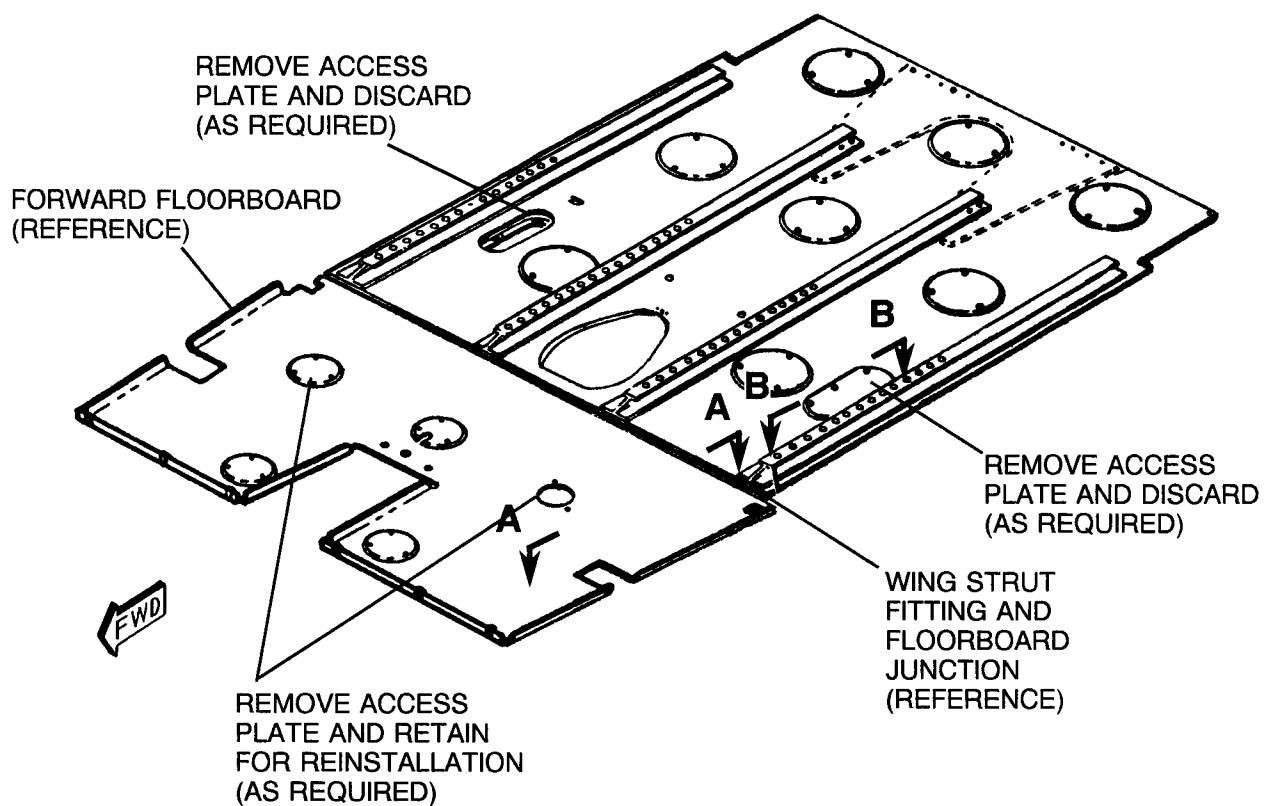
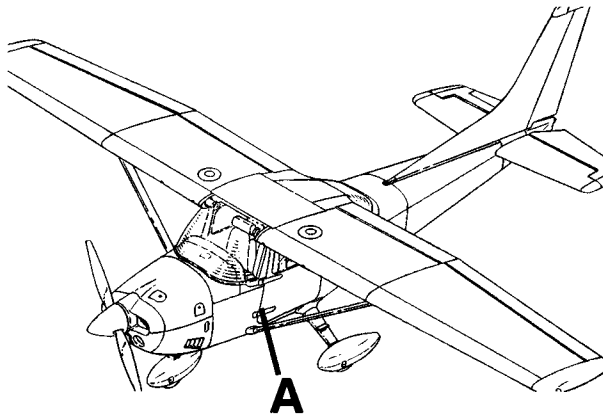
12. Install the 0713668-3 stiffeners with temporary metal fasteners. Position the 0718003 channel assemblies into position, and trim the inboard end of the channel assemblies as required to clear the stiffeners. After trimming channel assemblies, remove the stiffeners.
13. (Refer to Figure 2, Sheet 5, View E-E.) Trim the forward end of the 0710703 (-3 left; -4 right) stringers to allow the installation of the 1211903 (-3 left; -4 right) doubler.
14. Position the 0718003-1 channel assembly on the forward side of the left strut fitting. Clamp fixture to bulkhead to retain in position. Using the bulkhead as a guide, drill holes in the channel to match the bulkhead. Repeat the procedures for the right side using the 0718003-2 channel assembly.
15. On the left side, remove the 0718003-3 channel assembly. Position the 1211903-3 doubler on the aft side of the left strut fitting and install a NAS464P4A16 bolt with washers and nut. Using the bulkhead as a guide, drill holes in the doubler to match the structure. Repeat the procedure on the right side using the 1211903-4 doubler. Remove doublers from structure when holes have been drilled.
16. (Refer to Figure 2, Sheet 3, View B-B After Modification.) Drill 4 additional holes in each doubler at location shown to accommodate the MS20470AD5-8 rivets.
17. Reinstall the 1211903 doublers and 0718003 channels to the structure. Using the holes drilled in Step (16) above as a drill guide, drill additional holes through the structure and through the channels. After holes have been drilled, remove doublers and channels from structure. Deburr all holes in the doublers, channel assemblies and the structure.
18. (Refer to Figure 2, Sheet 3, View B-B.) Final install the doublers and channel assemblies on the left and right side using the provided fasteners.

NOTE: On each side, two holes are fastened using HL18PB5-8 pins and HL70-5 collars. These holes must be reamed to a diameter of 0.1625 inch before installing pins.
19. Reinstall the fuel lines removed in step 9.
20. Refuel the airplane and check for leaks in the doorpost area. Correct any leaks as required.
21. Install the 0791207-2 forward access cover (typical for both left and right side):
 - A. Position the forward access cover over hole cut in step (7)(A). Lightly trace pattern onto existing floorboard and remove cover.
 - B. (Refer to Figure 1, Sheet 3, View A-A, After Modification.) Drill out all rivets within the traced pattern. Match drill holes in the 0791207-2 access cover to match floorboard holes.

NOTE: Do not match drill the holes (3 per side) called out in Figure 1, Sheet 3, View A-A, After Modification. These holes contain no rivets and are covered by the access cover.
 - C. Install the 0713668-3 stiffener and 0791207-2 access cover using supplied fasteners. Drill 5 additional holes on the outboard edge of the access cover and secure to structure using S2906-4-2 rivets.
22. Install the 0791207-3 aft access cover (typical for both left and right side):
 - A. (Refer to Figure 1, Sheet 4, View B-B, After Modification.) Lay out additional hole locations in existing floorboard as shown and install NAS680A08 nutplates (18 total) on underside of existing floorboard.
 - B. Position and center the 0791207-3 aft cover over cut out. Locate and drill two (2) 0.257 inch diameter holes in the aft cover to clear the installed rivets, and trim existing cover as required to clear the 0791207-3 cover. Drill thirty-six (36) each 11/64 (0.172 inch diameter) holes to match the nutplates in the structure. Install the 0791207-3 covers with the MS27039-0805 screws (36 required).
23. Reinstall all interior upholstery, heater ducts and seats. (Refer to airplane service manual.)
24. Reconnect the electrical power.
25. Make an entry in the airplane logbook stating this service kit has been installed

SERVICE KIT

SK182-115

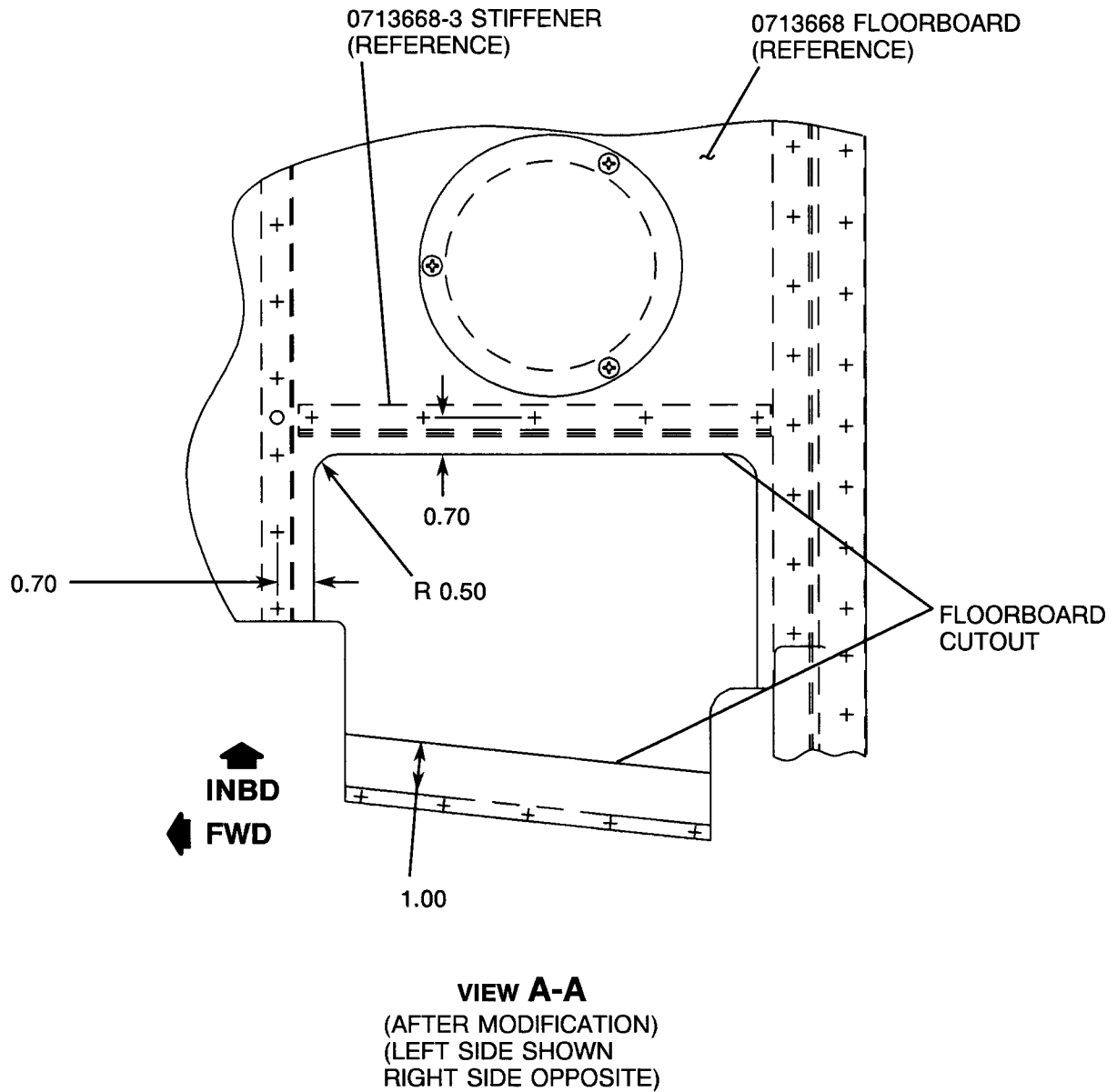


DETAIL A

Figure 1. Floorboard Modification (Sheet 1 of 4)

SERVICE KIT

SK182-115



NOTE: ALL DIMENSIONS SHOWN
ARE IN INCHES

Figure 1. Floorboard Modification (Sheet 2)

SERVICE KIT

SK182-115

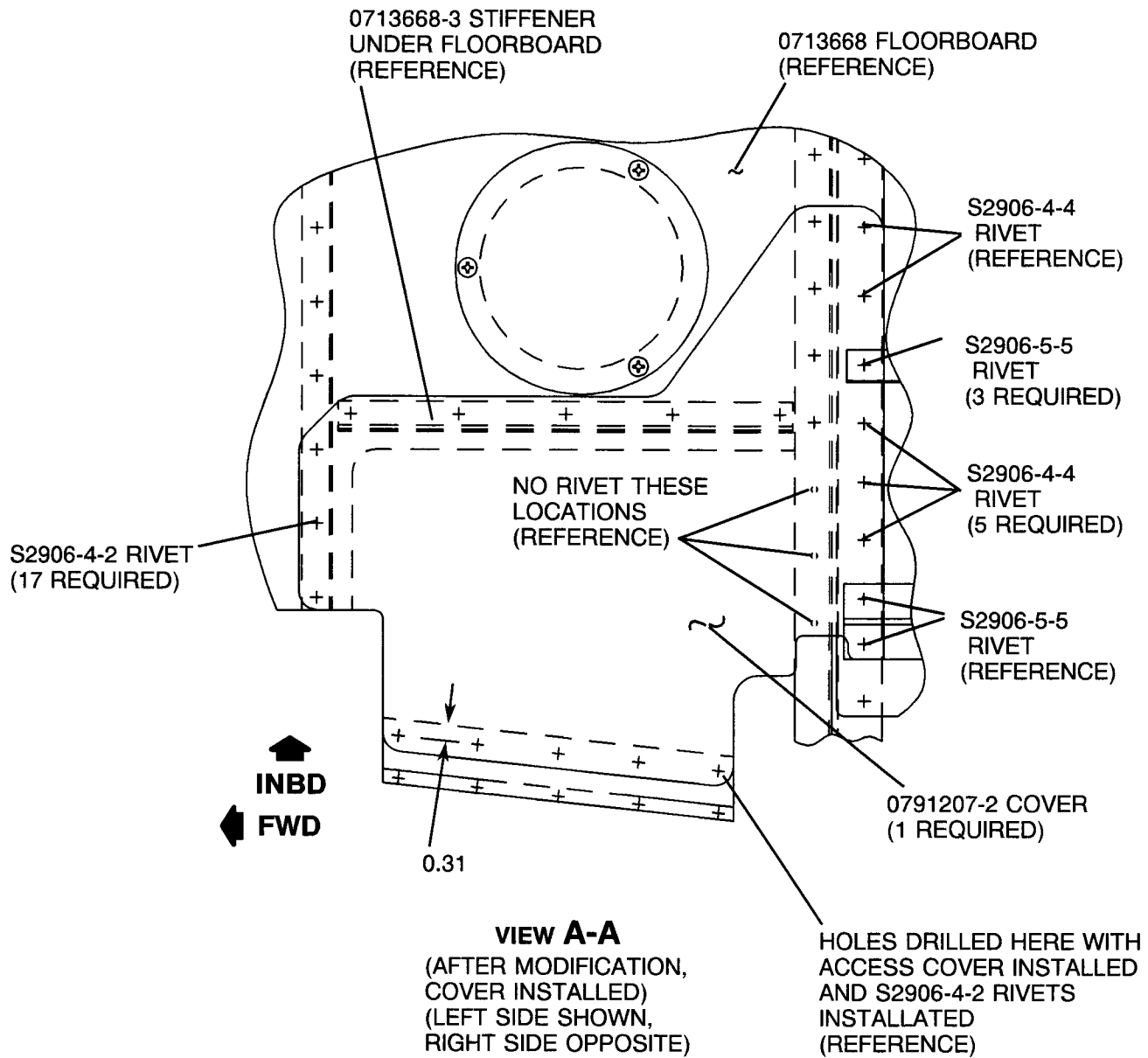


Figure 1. Floorboard Modification (Sheet 3)

SERVICE KIT

SK182-115

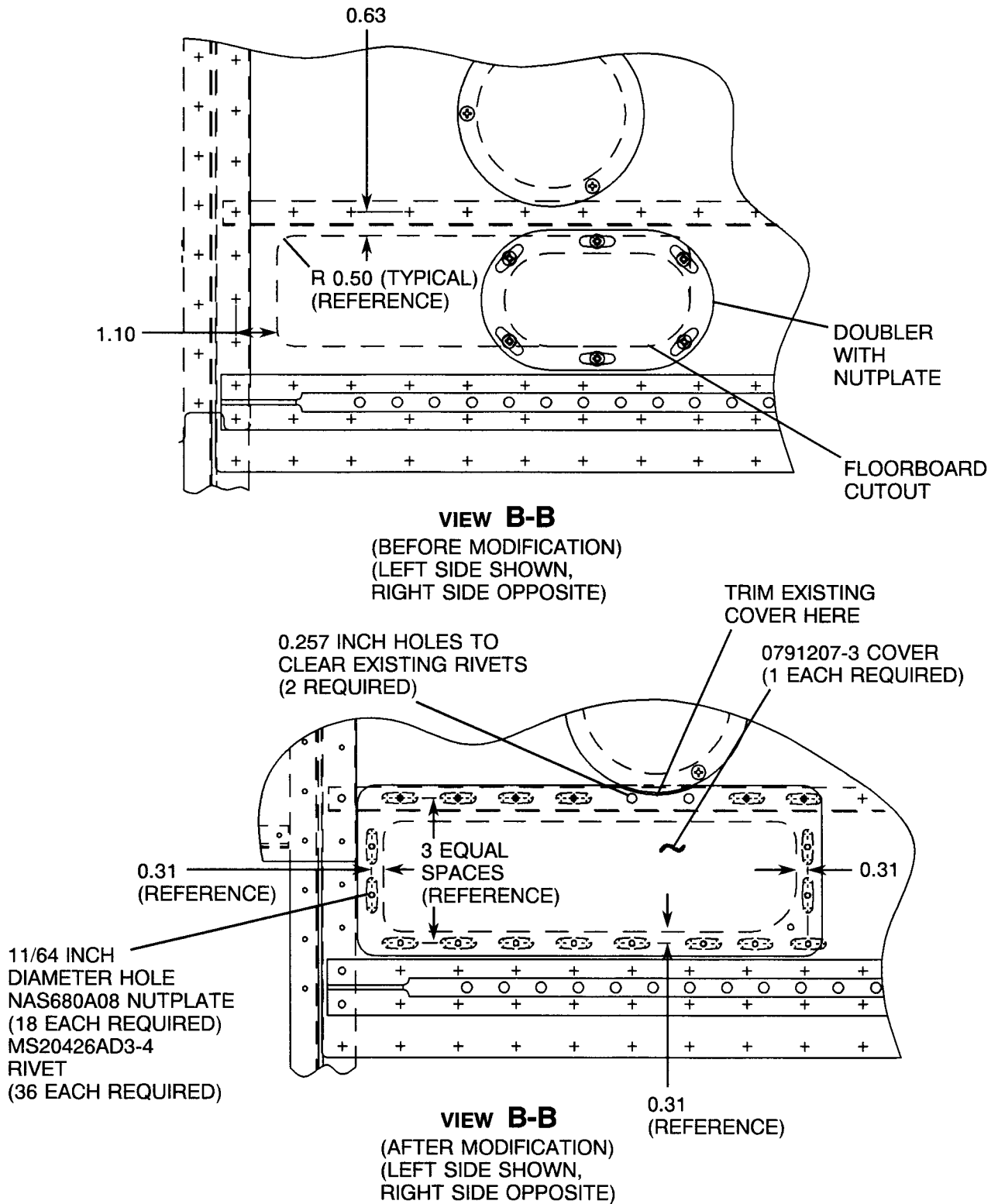
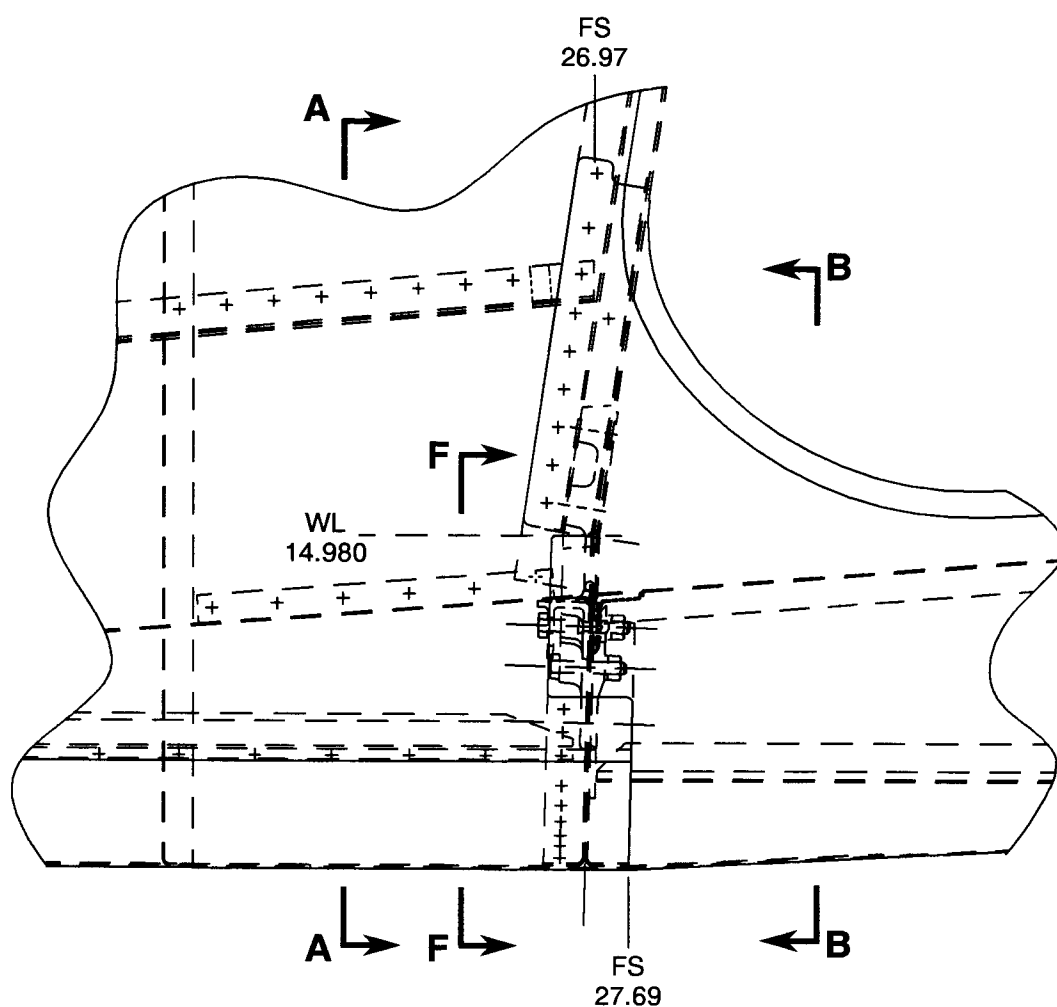
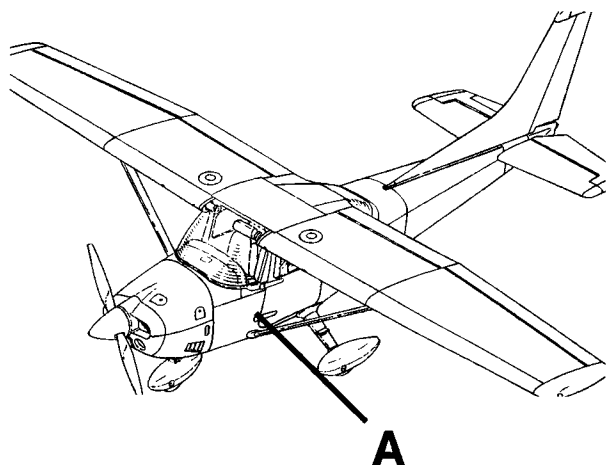


Figure 1. Floorboard Modification (Sheet 4)

SERVICE KIT

SK182-115



DETAIL A
(VIEW LOOKING INBOARD AT LH SIDE)
(LEFT SIDE SHOWN, RIGHT OPPOSITE)

Figure 2. Doorpost Bulkhead and Wing Strut Fitting Reinforcement (Sheet 1 of 6)

SERVICE KIT

SK182-115

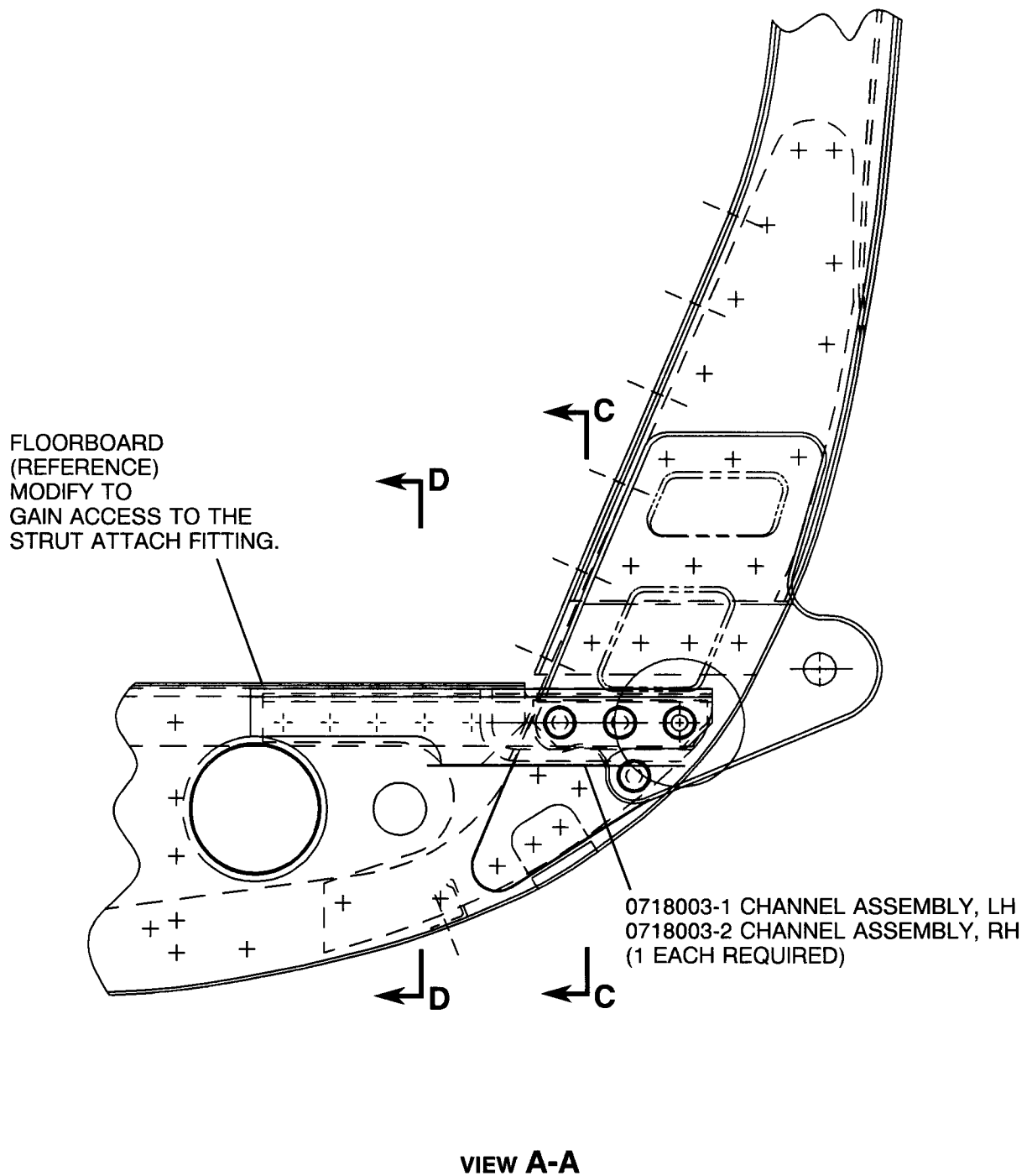
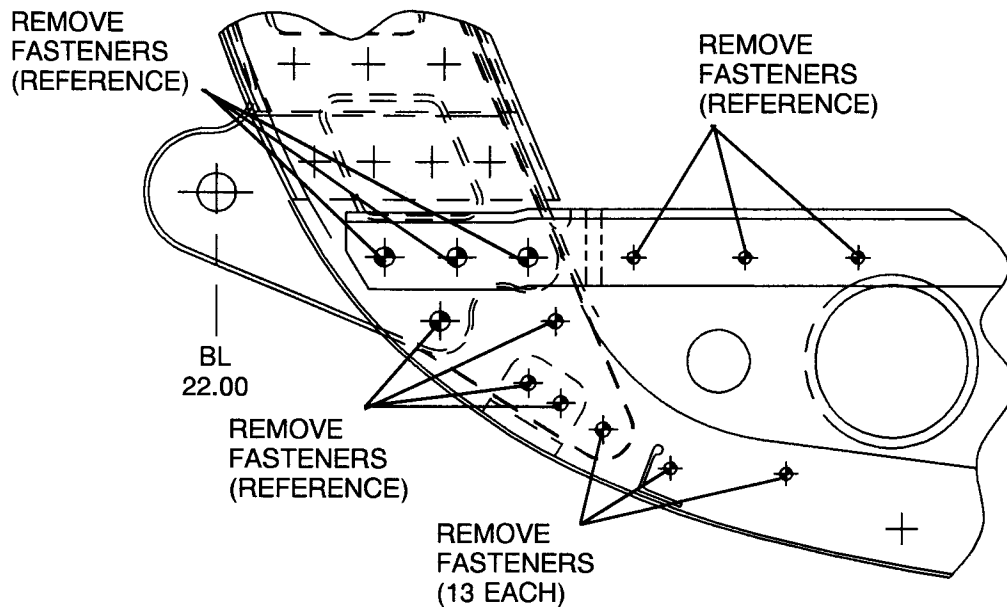


Figure 2. Doorpost Bulkhead and Wing Strut Fitting Reinforcement (Sheet 2)

SERVICE KIT

SK182-115



VIEW B-B BEFORE MODIFICATION

NAS464P4A20 BOLT
NAS1149F0463P WASHER
MS21042L4 NUT
(3 EACH REQUIRED)

NAS464P3A8 BOLT
NAS1149F0363P WASHER
MS21042L3 NUT
(1 EACH REQUIRED)

STRUT FITTING
(REFERENCE)

2 EQUAL SPACES 2 EQUAL SPACES

MS20470AD5-8
RIVET
(10 EACH REQUIRED)

BL
22.00

NAS464P4A16 BOLT
MS21042L4 NUT
(1 EACH REQUIRED)
NAS1149F0463P WASHER
(2 EACH REQUIRED)

HL18PB5-8 PIN
HL70-5 COLLAR
(2 EACH REQUIRED)

VIEW B-B

AFTER MODIFICATION
(VIEW LOOKING FORWARD
AT LEFT SIDE. RIGHT SIDE
OPPOSITE.)

1211903-3 DOUBLER, LH
1211903-4 DOUBLER, RH
(1 EACH REQUIRED)

0.67

0.21

1.05

2.00

Figure 2. Doorpost Bulkhead and Wing Strut Fitting Reinforcement (Sheet 3)

SERVICE KIT

SK182-115

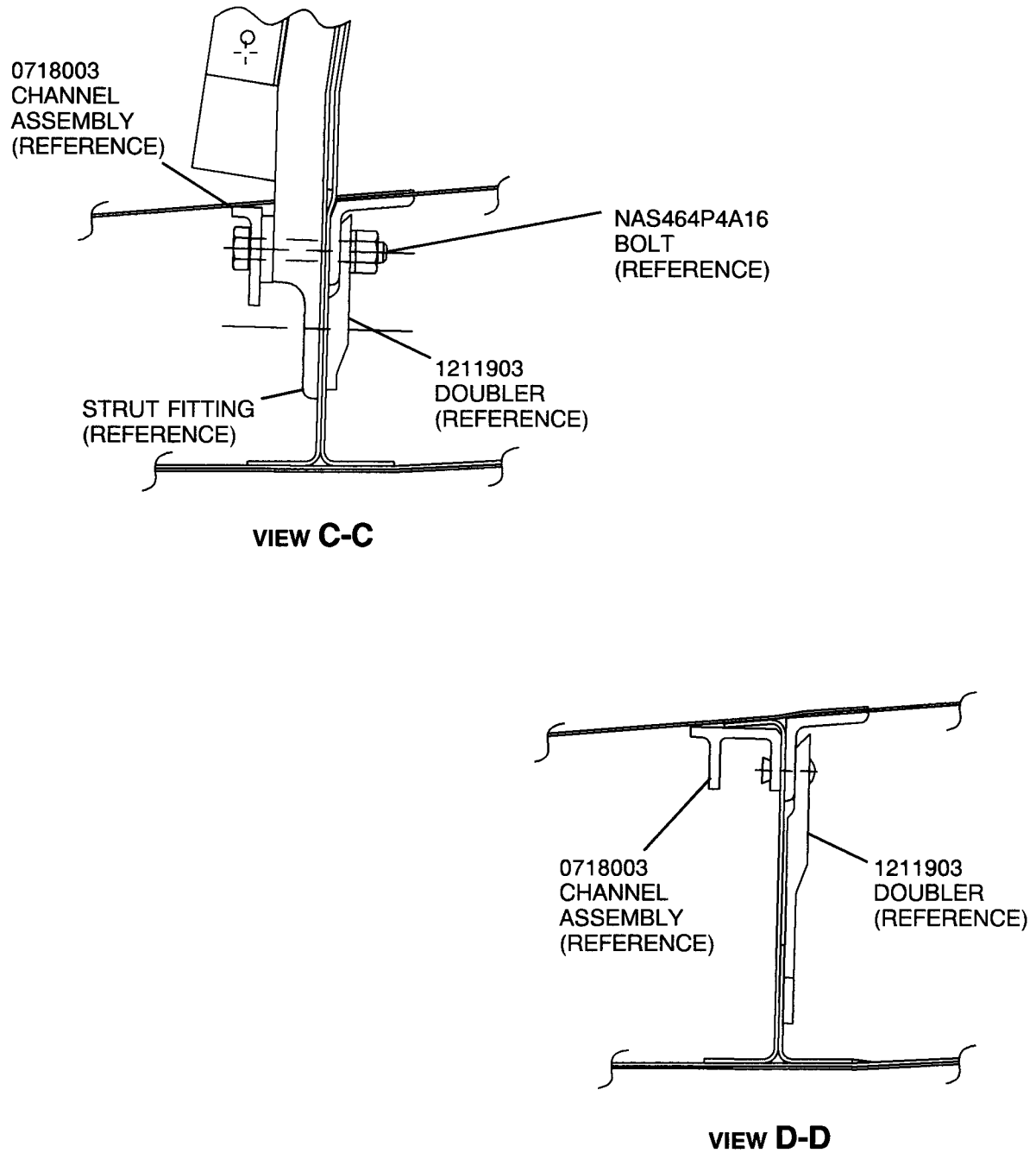
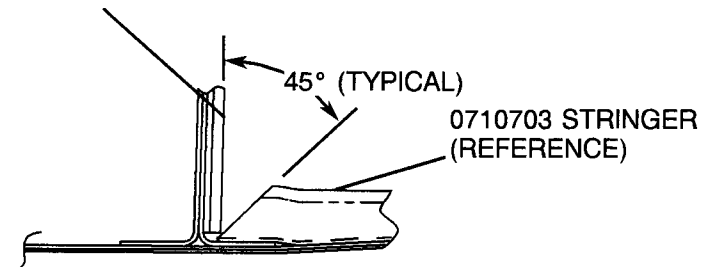


Figure 2. Doorpost Bulkhead and Wing Strut Fitting Reinforcement (Sheet 4)

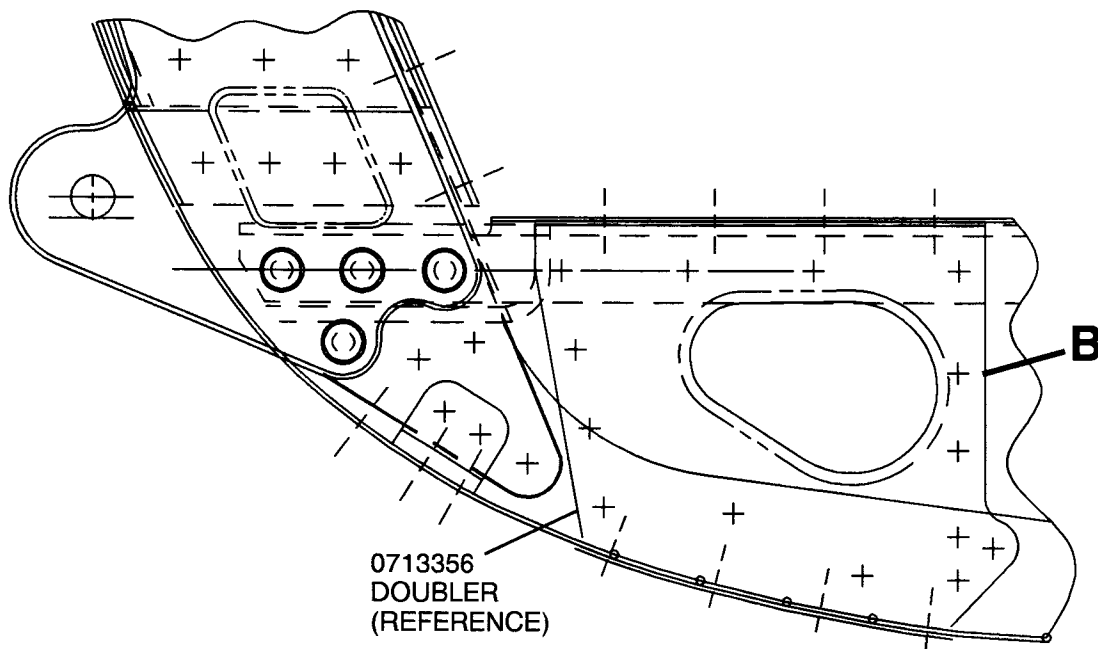
SERVICE KIT

SK182-115

1211903
DOUBLER
(REFERENCE)



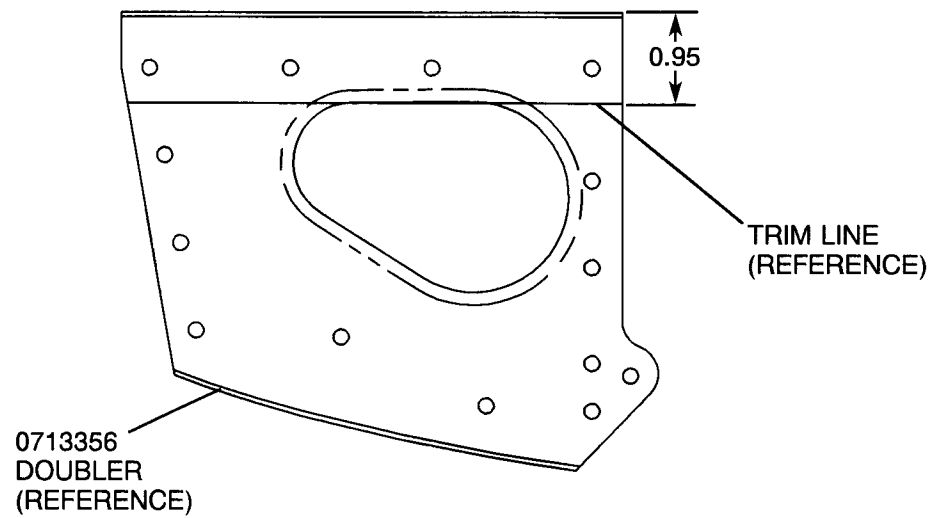
VIEW E-E



VIEW F-F

(VIEW LOOKING AFT AT RH SIDE)
(APPLIES TO MODELS 18267716
THRU 18268434, AND MODEL R182
SERIALS R18201629 THRU R18202039)

Figure 2. Doorpost Bulkhead and Wing Strut Fitting Reinforcement (Sheet 5)



DETAIL B
(DOUBLER MODIFICATION)

Figure 2. Doorpost Bulkhead and Wing Strut Fitting Reinforcement (Sheet 6)

TITLE LOWER FORWARD DOORPOST BULKHEAD AND WING STRUT FITTING REINFORCEMENT**EFFECTIVITY**

<u>Model</u>	<u>Year</u>	<u>Serial Numbers</u>		
210-5 (205)	1963	205-0001	thru	205-0480
210-5 (205)		641		
210-5A (205A)	1964	205-0481	thru	205-0550
210-5A (205A)	1964	205-0552	thru	205-0555
210B	1962	21057841	thru	21058085
210C	1963	21058086	thru	21058139
210C	1963	21058141	thru	21058220
210D	1964	21058221	thru	21058510
210E	1965	21058511	thru	21058715
210F	1966	21058716	thru	21058818
T210F	1966	T210-0001	thru	T210-0197

DESCRIPTION

The following procedures provide instructions to add a doubler and a channel to each forward cabin doorpost bulkhead.

APPROVAL

FAA approval has been obtained on technical data in this publication that affects airplane type design.

REFERENCE

SEB95-19

CHANGE IN WEIGHT AND BALANCE

MODEL	210-5 (205), 210-5A (205A), 210, T210
WEIGHT INCREASE	+ 2.23 Pounds
RESULTANT ARM	+ 26.0
RESULTANT MOMENT	+ 57.98 Inch-Pounds
MOMENT/1000	+ 0.058

December 29, 1995

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To obtain satisfactory results, procedures specified in this publication must be accomplished in accordance with accepted methods and prevailing government regulations. The Cessna Aircraft Company cannot be responsible for the quality of work performed in accomplishing the requirements of this publication.

The Cessna Aircraft Company, Product Support, P.O. Box 7706, Wichita, Kansas 67277, U.S.A. 1-316-941-7550, Facsimile 1-316-942-9006

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SERVICE KIT

SK210-156

MATERIAL INFORMATION

PART NUMBER	QUANTITY	DESCRIPTION
SK210-156	1	Kit, consisting of the following parts:
HL18PB6-7	10	Pin
HL70-6	10	Collar
MS20470AD4-3	6	Rivet
MS20470AD5-7	8	Rivet
MS20470AD5-8	12	Rivet
MS20470AD5-10	10	Rivet
MS20426AD3-4	64	Rivet
MS20426AD4-3	6	Rivet
MS21042L4	8	Nut
MS27039-0805	32	Screw
NAS1149F0463P	8	Washer
NAS464P4A14	2	Bolt
NAS464P4A20	6	Bolt
MS21047L08	32	Nutplate
NAS682A08	4	Nutplate
0718003-1	1	Channel Assembly-LH
0718003-2	1	Channel Assembly-RH
1211903-1	1	Doubler-LH
1211903-2	1	Doubler-RH
1211904-1	2	Cover
1213806-2	2	Doubler
	1	Instructions

ACCOMPLISHMENT INSTRUCTIONS

1. Disconnect all electrical power from the airplane. Attach maintenance warning tags to the battery connector and external power receptacle stating:

WARNING: DO NOT CONNECT ELECTRICAL POWER — MAINTENANCE IN PROGRESS.

2. Prepare to drain fuel from the airplane by observing all safety precautions.

WARNING: REMOVE ALL IGNITION SOURCES. OBSERVE ALL FUEL SYSTEM FIRE AND SAFETY PRACTICES.

3. Drain the fuel from the airplane. (Refer to the airplane service manual.)
4. If applicable, pull the hinge pins and remove the cabin doors. Retain all parts for reinstallation.
5. Remove and retain the pilot and copilot seats from the airplane. (Refer to the airplane service manual.)
6. Remove and retain the upholstery and heater ducts from both sides, at the bottom of the forward left and right doorposts. (Refer to the airplane service manual.)

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7. Remove and retain carpet retainers and remove carpet to allow access to the floorboards. (Refer to the airplane service manual.)
8. Remove the existing access cover plates, aft of the forward doorpost, to gain access to the underlying structure. Retain all parts for reinstallation. (Refer to Figure 1, Sheet 2, View A-A, and Sheet 5, Detail F.)
9. Remove the existing round access covers in the floorboards, forward and aft of the forward doorpost. Discard all parts. (Refer to Figure 1, Sheets 1, 2 and 4, Details A, B and D, and View A-A.)

CAUTION: CHECK LOCATION OF FUEL LINES, WIRES, ETC. BEFORE DRILLING IN OR CUTTING FLOORBOARDS.

10. Lay out lines and enlarge round cutouts in the floorboard forward of the doorpost. (Refer to Figure 1, Sheet 2, View A-A, and Sheet 3, Detail C.)
11. Remove existing PK style nutplates used to secure the round access cover plates.
12. (Refer to Figure 1, Sheet 3, Detail C.) Picking up existing nutplate locations, locate and drill 11/64 (0.172 inch diameter) nutplate center holes. Locate and drill the remainder of 32 each Number 40 (0.098 inch diameter) holes nutplate attach rivet holes. Countersink the Number 40 holes 0.182×100°. Install 16 each NAS680A08 and NAS682A08 nutplates using MS20426AD3-4 rivets. Repeat the procedure for the right side. (Refer to Figure 1, Sheet 4, Detail E.)
13. Disconnect fuel lines and remove the fuel reservoirs. Cap or plug any open connections. (Refer to the applicable airplane service manual.) Retain all parts for reinstallation.
14. Support the wings and remove fasteners from the door post. Drill out rivets and grind off Hi-Lok fastener collars to remove Hi-Lok fasteners. Do not enlarge fastener holes in the structure.
15. Drill one (1) Number 12 (0.189 inch diameter) hole. (Refer to Figure 2, Sheet 4, Detail B.)
16. Drill three (3) Number 20 (0.161 inch diameter) hole. (Refer to Figure 2, Sheet 4, Detail B.)
17. Trim forward end of 1210409 and 1210418 stringers as required to install the 1211903 doublers.
18. Airplane serial numbers 21058326, 21058352 thru 21058693, 21058694 thru 21058818 and T210-0001 thru T210-0197, accomplish the following instructions:
 - A. Remove and discard the three nutplates. (Refer to Figure 1, Sheet 5, Detail F.)
 - B. Remove the three rivets. Countersink the holes on the bottom side of the structure 0.225 inch diameter × 100°. Obtain the MS20426AD4-3 rivets from the kit and cutoff as required to double flush the rivets. Install with the manufactured head on the bottom. (Refer to Figure 1, Sheet 5, Detail F.)
 - C. All other serial number airplanes remove the existing rivets in the same locations as the above mentioned nutplates. Countersink the holes on the bottom side of the structure 0.225 inch diameter × 100°. Obtain the MS20470AD4-3 rivets from the kit and install with the manufactured head on the bottom. (Refer to Figure 1, Sheet 3, Detail C.)
19. Remove fuel lines, wiring, cables, etc. as required to accomplish the following instructions. (Refer to Figure 2, Sheet 1, Detail A.)

NOTE: Several different configuration strut fittings, not dimensionally the same were installed on some airplanes. Shims will be required on those airplanes to fill the gap between the 0718003-1 and -2 channel assemblies and the strut fitting.

 - A. Position the 0718003-1 channel assembly. Install a NAS464P4A18 bolt with washers and nut to retain in position. Using the bulkhead as a guide, drill holes in the channel assembly to match the bulkhead.

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- (1) If the channel does not touch the strut fitting while the inboard end is held against the bulkhead, measure the gap to determine the shim thickness required. Fabricate a shim of 2024-T3 Clad Aluminum to the required thickness, or build up from several pieces of material if required. Multiple piece shims are to be bonded using EA9309.3NA adhesive together and completed shim to be bonded to the 0718003-1 channel using EA9309.3NA adhesive. Drill a 0.2495 ± 0.0015 hole thru the shim to match the hole in the channel. Position the channel and install a NAS464P4A14 bolt with washer and nut to retain in position. Using the bulkhead as a guide, drill holes in the channel to match the bulkhead. Repeat the operation using the 0718003-2 channel assembly on the right side.
- B. Remove the 0718003-1 and -2 channel assemblies. Obtain the 1213806-2 doublers from the kit. Locate the doublers using the two existing holes in the doublers to match the bulkhead. Drill holes in the doubler at the MS20470AD5-7 rivet locations to match the bulkhead and hold in place with temporary metal fasteners.
- C. Install the 1211903-1 and -2 doublers with the NAS464P4A14 bolts, NAS1149F0463P washers and MS21042L4 nuts in location. Drill holes in the 1211903 and 1213806 doublers to match the structures. (Refer to Figure 2, Sheet 4, Detail B.)
- D. Remove the hardware securing the 1211903 and 1213806 doublers. Deburr all holes in the doublers, channel assemblies and structure. Install all rivets and fasteners to retain the channel assemblies and doublers. (Refer to Figure 2, Sheet 3, View B-B.)
20. Reinstall the fuel reservoirs and lines removed. (Refer to applicable service manual.)
NOTE: If fuel lines contact the airplane structure, or doubler, it is permissible to install spiral wrap around the line in that area to prevent chaffing.
21. Refuel the airplane check for leaks.
22. Reinstall the 1210404 cover plates removed using retained hardware.
23. Install the 1211904-1 cover plates using MS27039-0805 screws.
24. Reinstall the carpet, heater ducts and upholstery. (Refer to applicable service manual.)
25. Reinstall seats and cabin door. (Refer to applicable service manual.)
26. Reconnect battery cables and remove warning tags from the airplane.
27. Make an entry in the airplane logbook stating this service kit has been installed.

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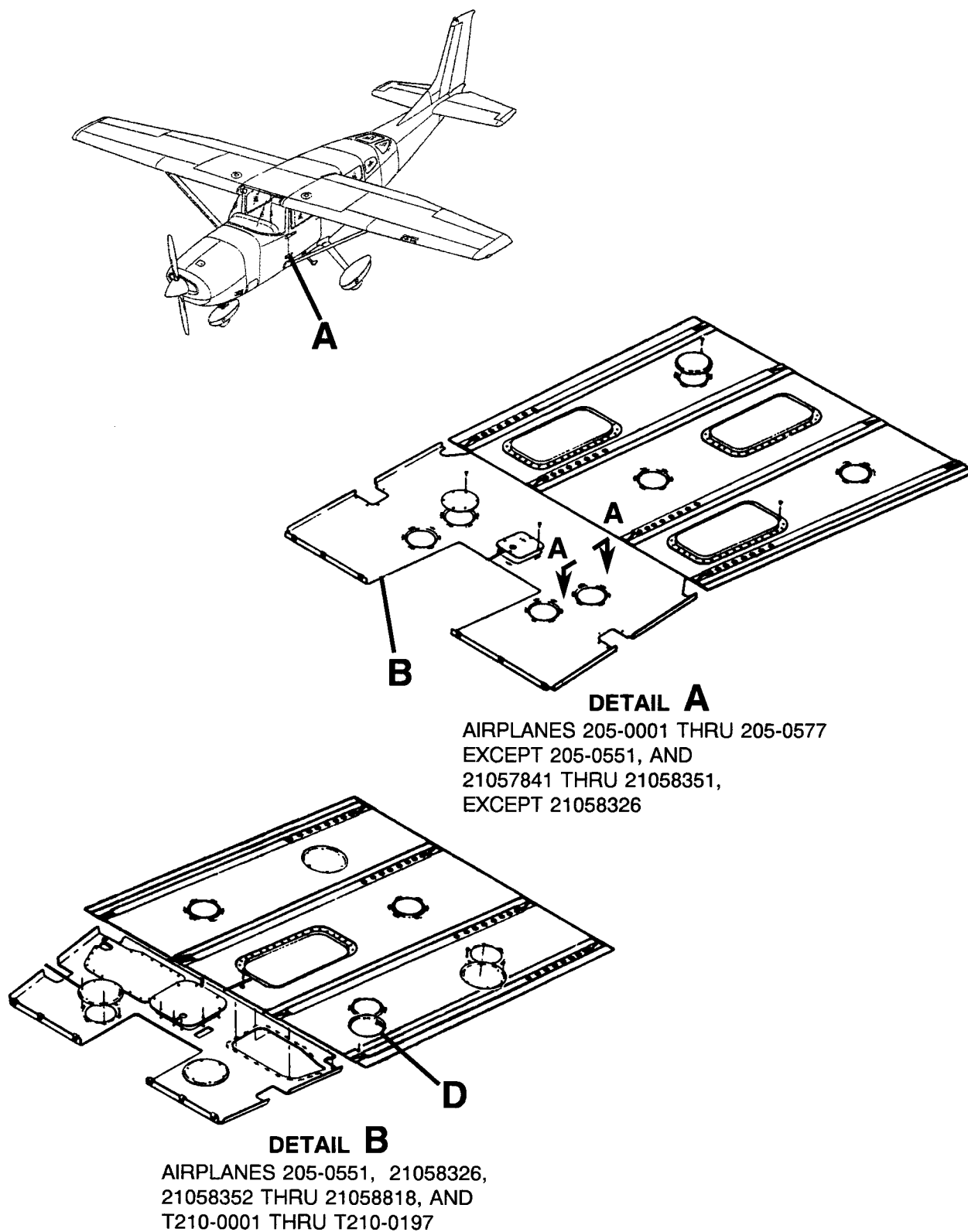
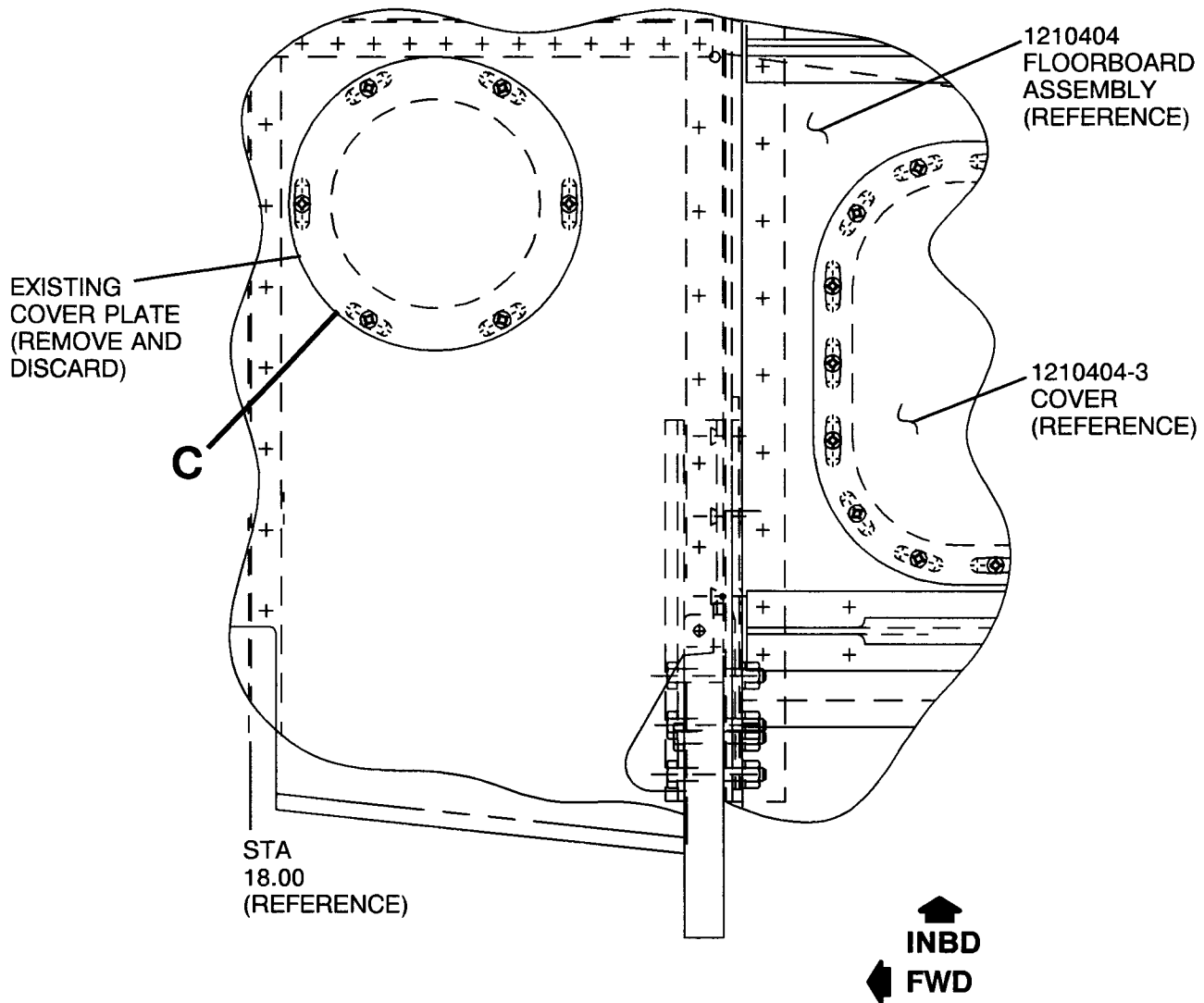


Figure 1. Floorboard Modification (Sheet 1 of 5)

SERVICE KIT

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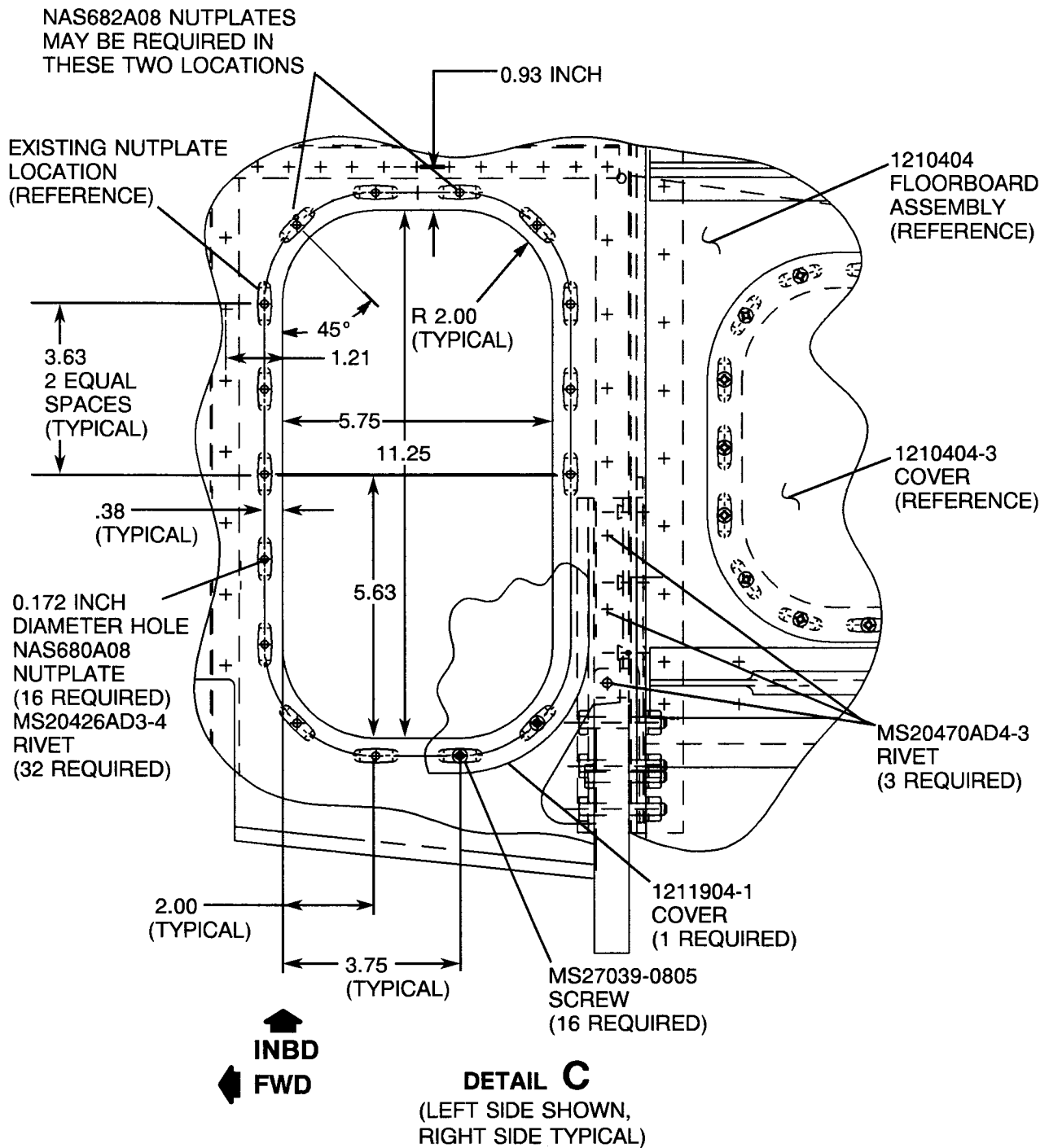
VIEW A-A

AIRPLANES 205-0001 THRU 205-0577
EXCEPT 205-0551; AND
21057841 THRU 21058351,
EXCEPT 21058326

Figure 1. Floorboard Modification (Sheet 2)

SERVICE KIT

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NOTE: ALL DIMENSIONS SHOWN
ARE IN INCHES

Figure 1. Floorboard Modification (Sheet 3)

SERVICE KIT

SK210-156

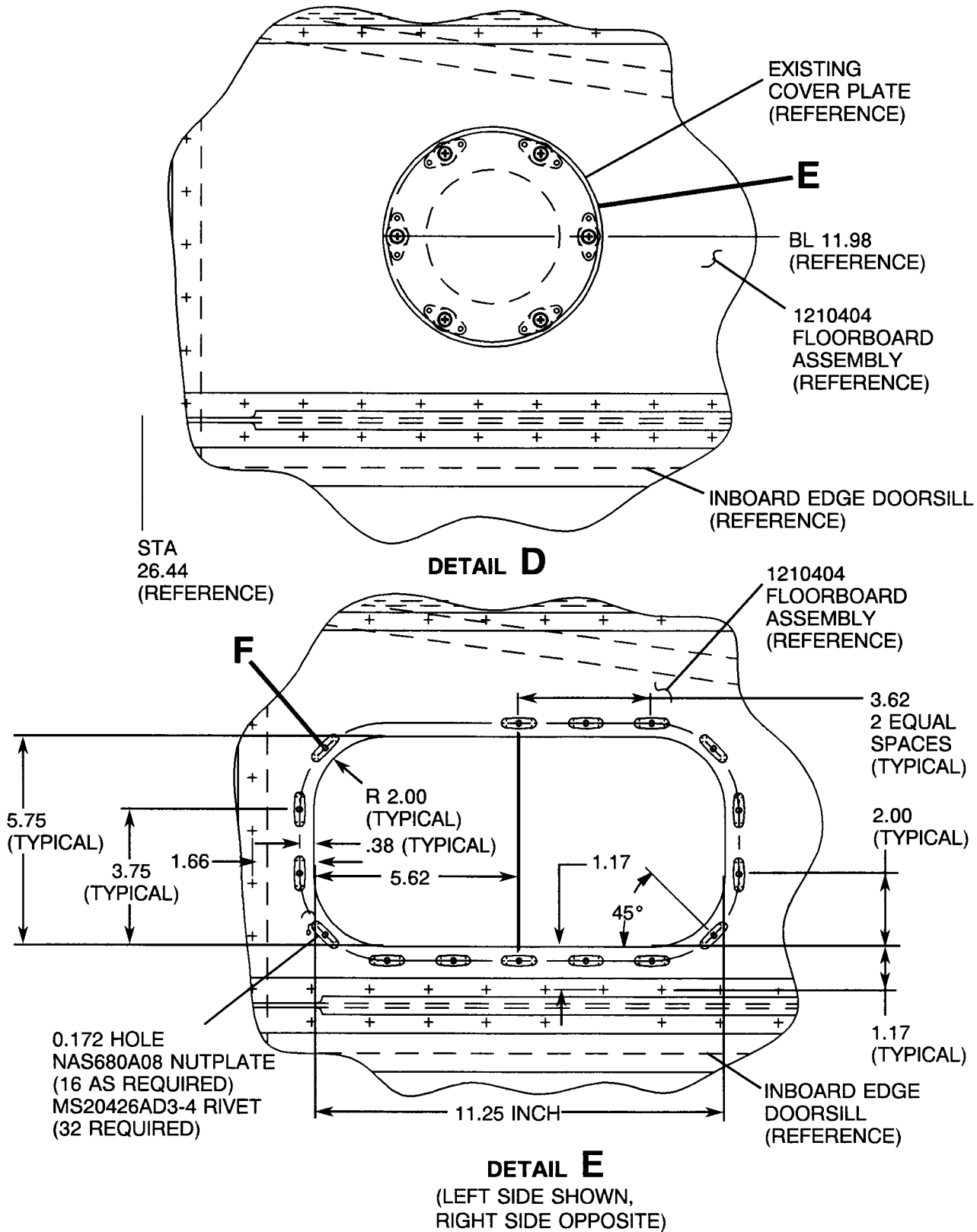


Figure 1. Floorboard Modification (Sheet 4)

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REMOVE THREE (3) RIVETS COUNTERSINK
HOLES 100° × 0.225 INCH DIAMETER
ON BOTTOM SIDE OF STRUCTURE.
INSTALL MS20426AD4-3 WITH
MANUFACTURED HEAD ON THE BOTTOM.
(REFERENCE)

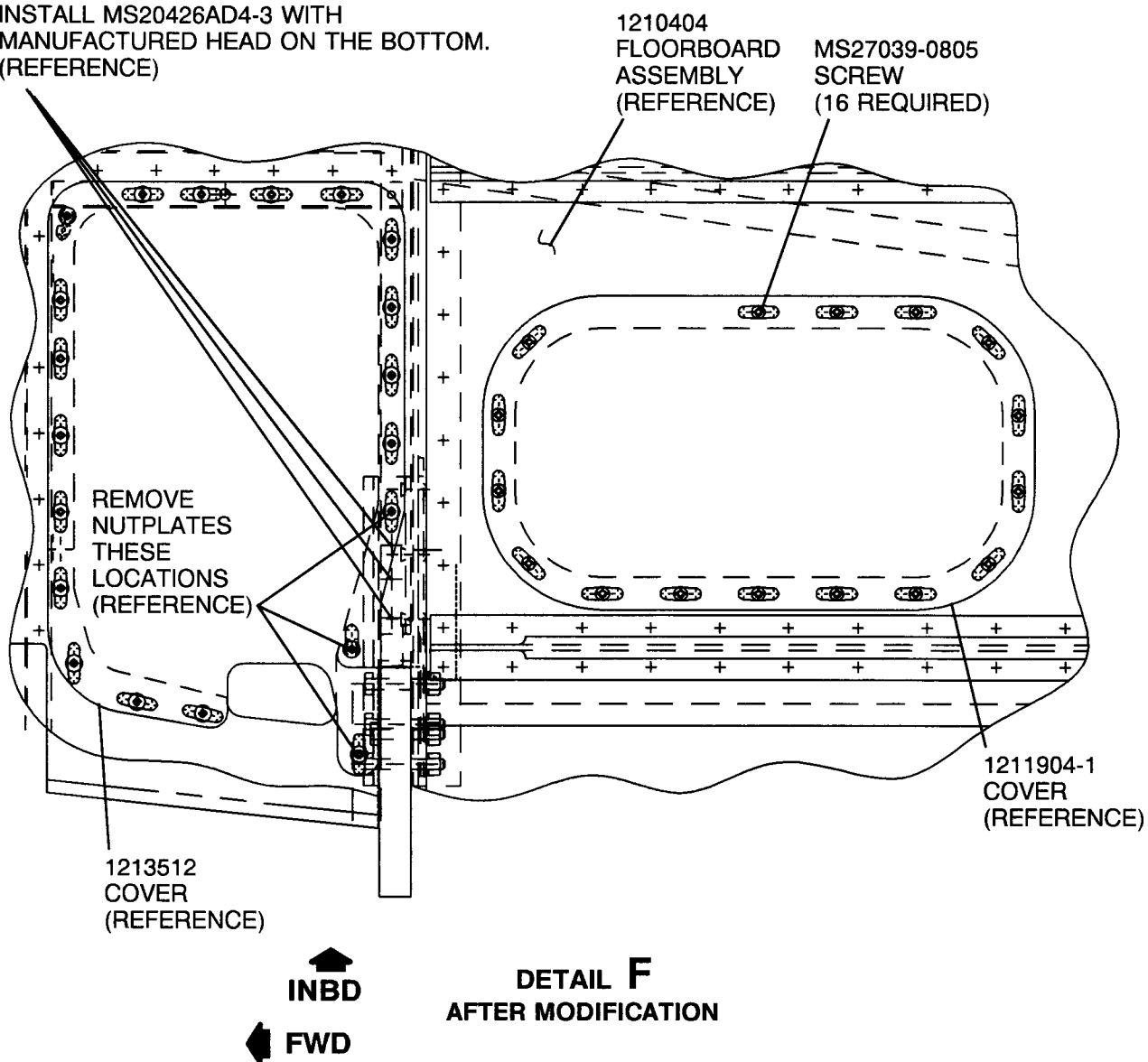


Figure 1. Floorboard Modification (Sheet 5)

SERVICE KIT

SK210-156

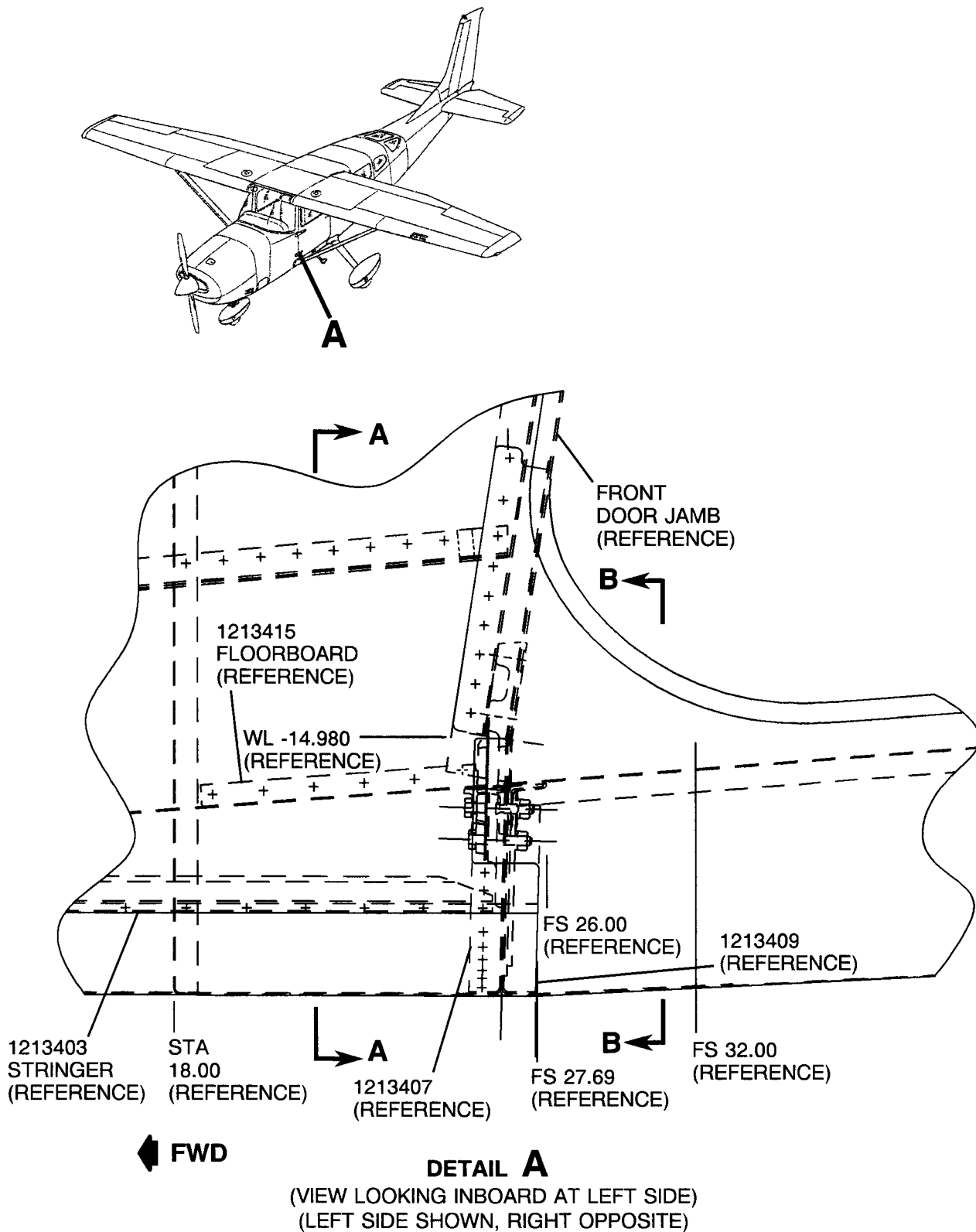
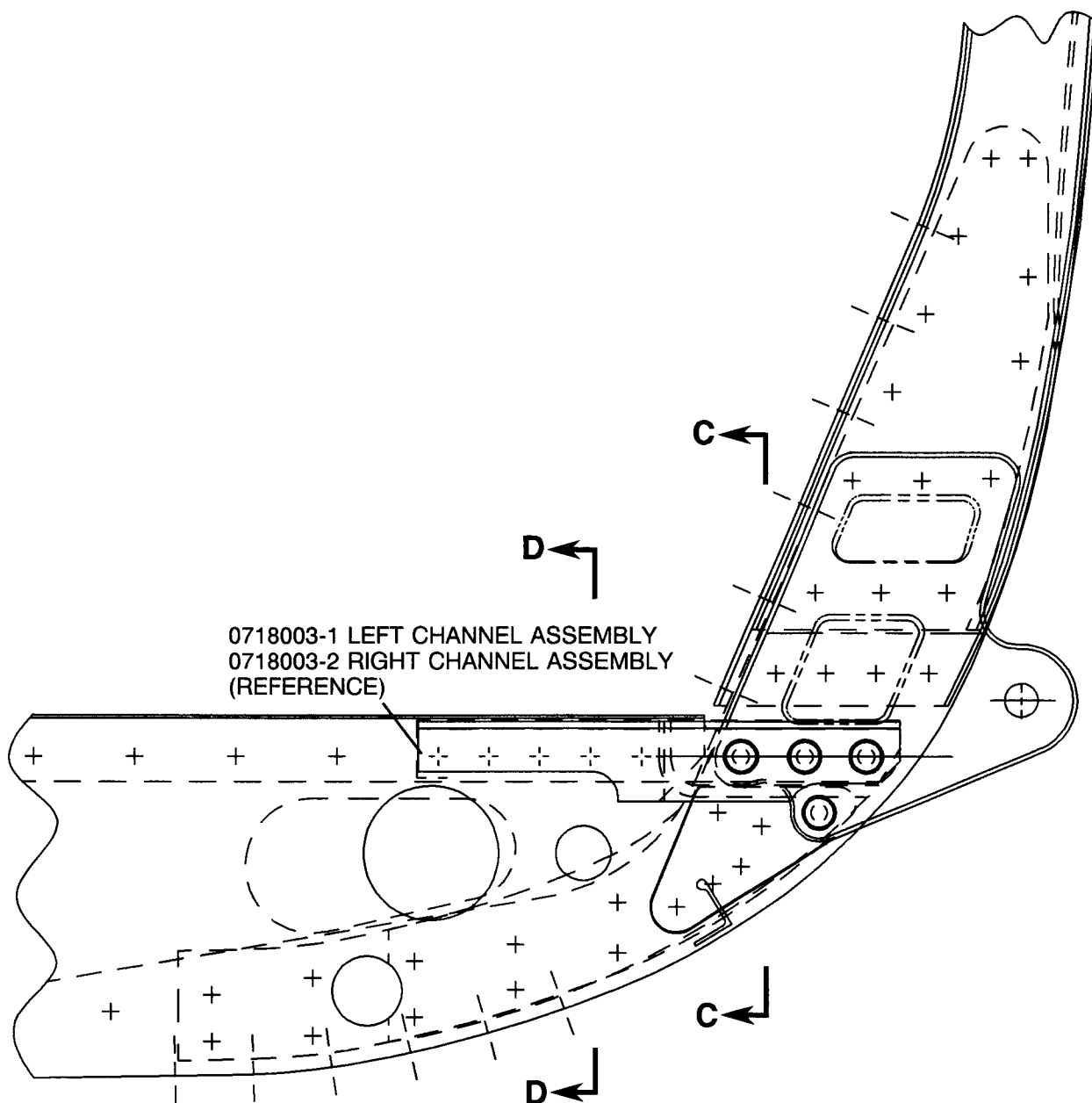


Figure 2. Lower Forward Doorpost Bulkhead and Wing Strut Fitting Reinforcement (Sheet 1 of 4)

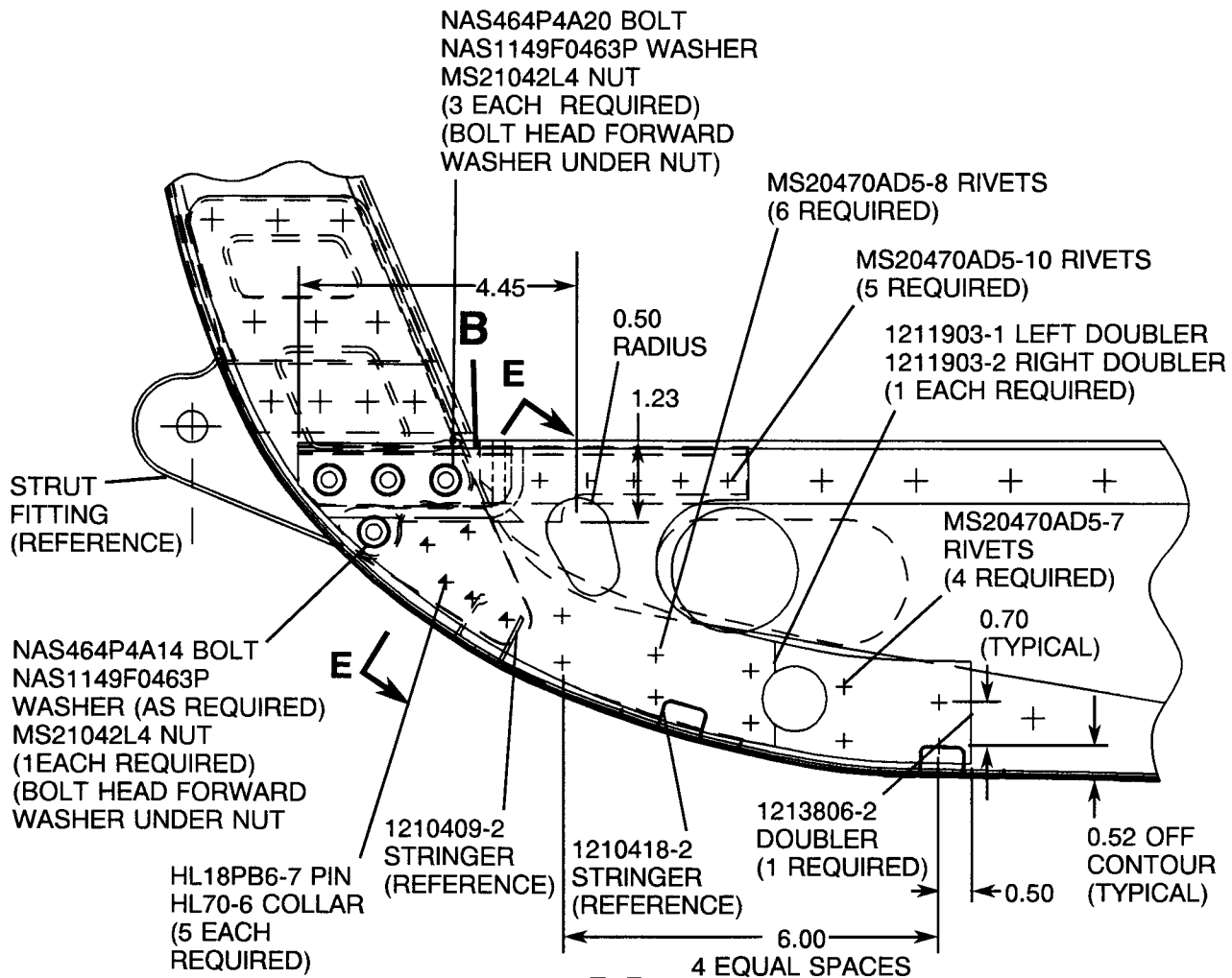


VIEW A-A
LOOKING AFT AT
LEFT SIDE FS27.69

Figure 2. Lower Forward Doorpost Bulkhead and Wing Strut Fitting Reinforcement (Sheet 2)

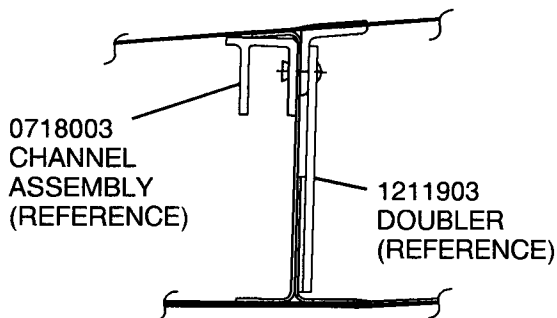
SERVICE KIT

SK210-156



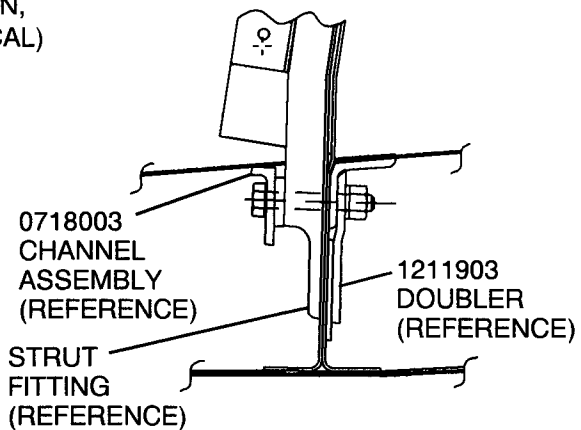
VIEW B-B

LOOKING FORWARD
AT FS 27.69
(LEFT SIDE SHOWN,
RIGHT SIDE TYPICAL)



VIEW D-D

LOOKING INBOARD



VIEW C-C

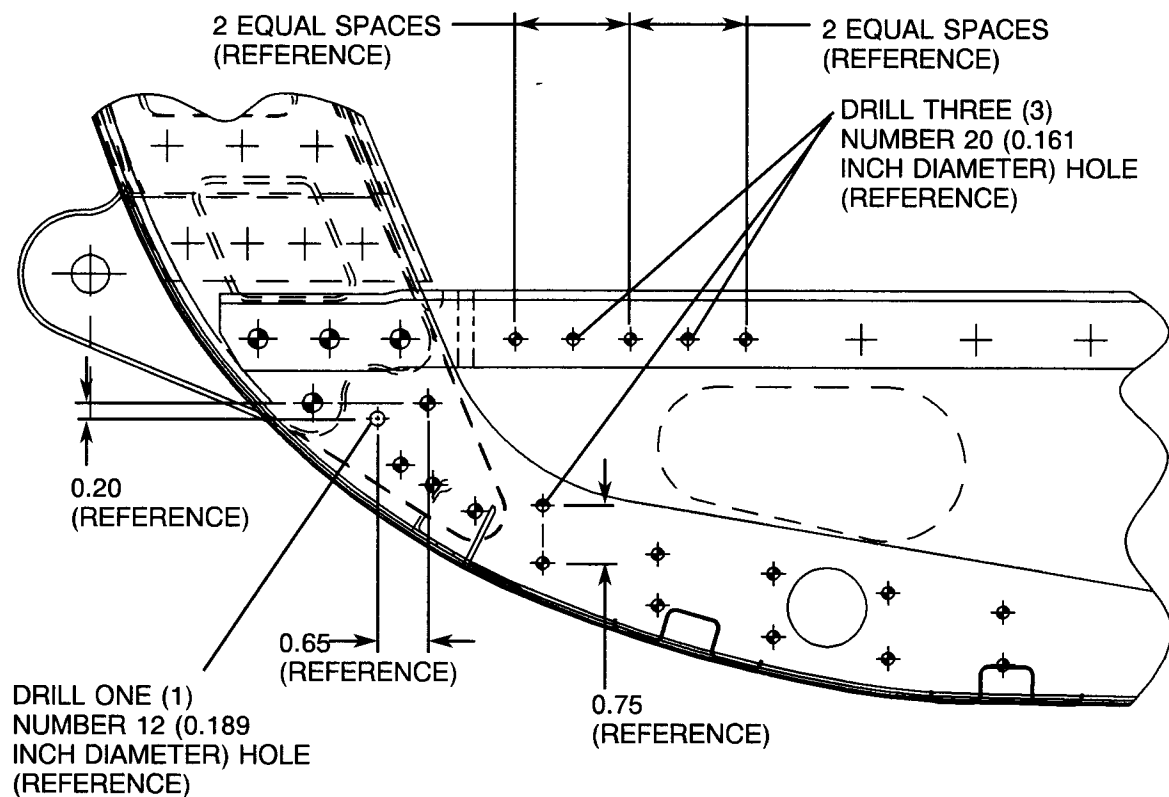
LOOKING INBOARD



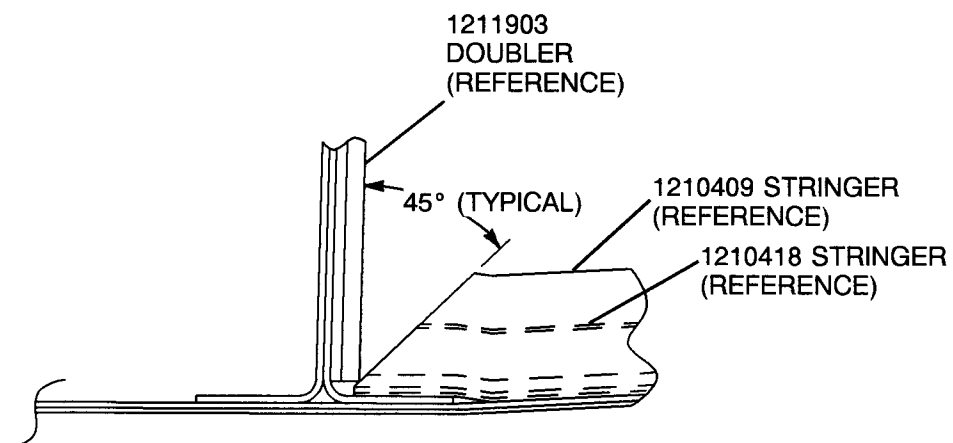
Figure 2. Lower Forward Doorpost Bulkhead and Wing Strut Fitting Reinforcement (Sheet 3)

SERVICE KIT

SK210-156



DETAIL B
HOLE LAY OUT ILLUSTRATION
(LEFT SIDE SHOWN,
RIGHT SIDE OPPOSITE)



VIEW E-E

Figure 2. Lower Forward Doorpost Bulkhead and Wing Strut Fitting Reinforcement (Sheet 4)