

DC11383 Fuel Selector Valve Assembly

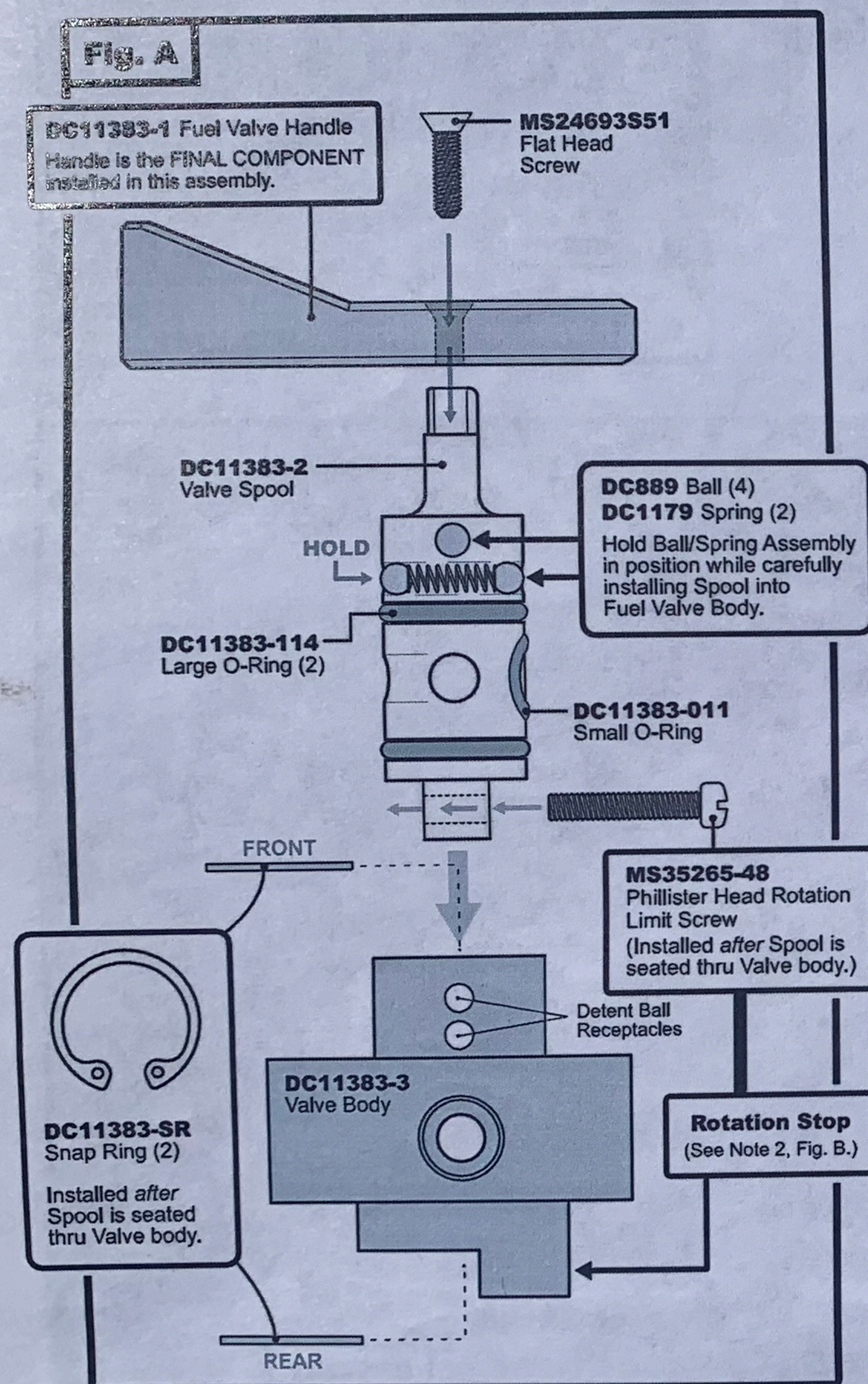
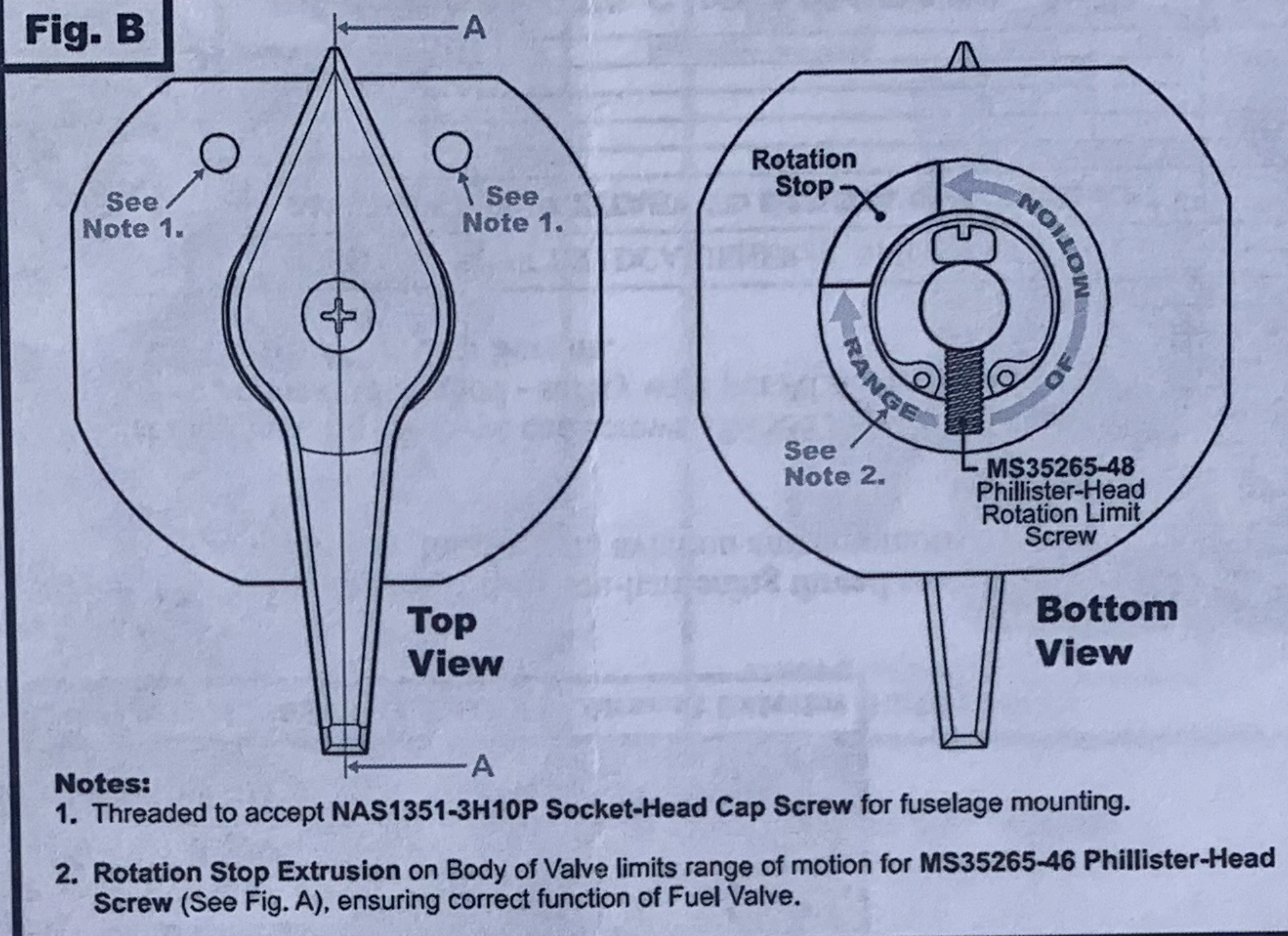
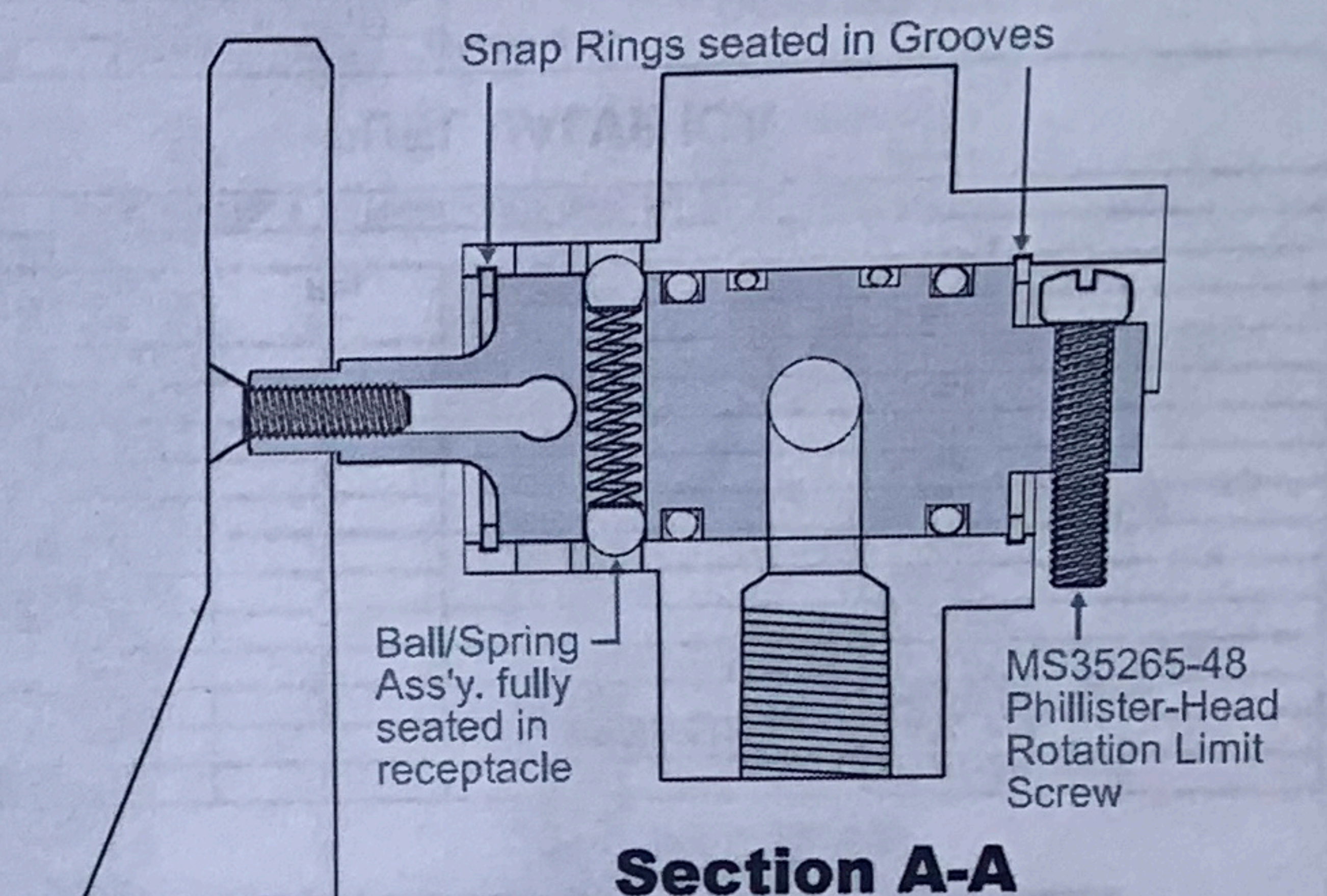


Fig. B



- Notes:**
1. Threaded to accept NAS1351-3H10P Socket-Head Cap Screw for fuselage mounting.
 2. Rotation Stop Extrusion on Body of Valve limits range of motion for MS35265-46 Phillister-Head Screw (See Fig. A), ensuring correct function of Fuel Valve.

- Ensure that all components noted in figure A are clean of any contamination prior to assembly of DC11383 Fuel Selector Valve. Lubricate the bore of DC11383-3 Valve Body and DC11383-2 Valve Spool with Lubriplate #105 Motor Assembly Grease.
- Install DC11383-114 and DC11383-011 O-Rings onto DC11383 Spool at positions shown in figure A.
- The Spool has two spring bores at 90° to one another. Insert one DC1179 Spring and two DC889 Balls into each bore (See fig. A).
- Holding Ball/Spring Assemblies in place, carefully insert Valve Spool into Valve Body as shown in Figure A. The Spool is correctly seated within Valve Body once both sets of Ball/Springs "snap" into their corresponding receptacles in upper section of Valve Body (See Section A-A).
- Install DC11383-SR Snap Rings into upper and lower snap ring grooves on Valve Body to secure Spool/Body Assembly. (See Figure A and Section A-A.)
- With Spool seated and secured in Valve Body, install MS35265-48 Phillister-Head Rotation Locking Screw into bottom section of Spool, applying Loctite 242 Thread Locker to screw, and positioning as shown in figures A & B. Install DC11383-1 Handle onto Spool with MS24693S51 Flat Head Screw. Check for correct operation of completed assembly - rotate Handle, observing "Ball Detent Action" indicating positive location for each Valve position.



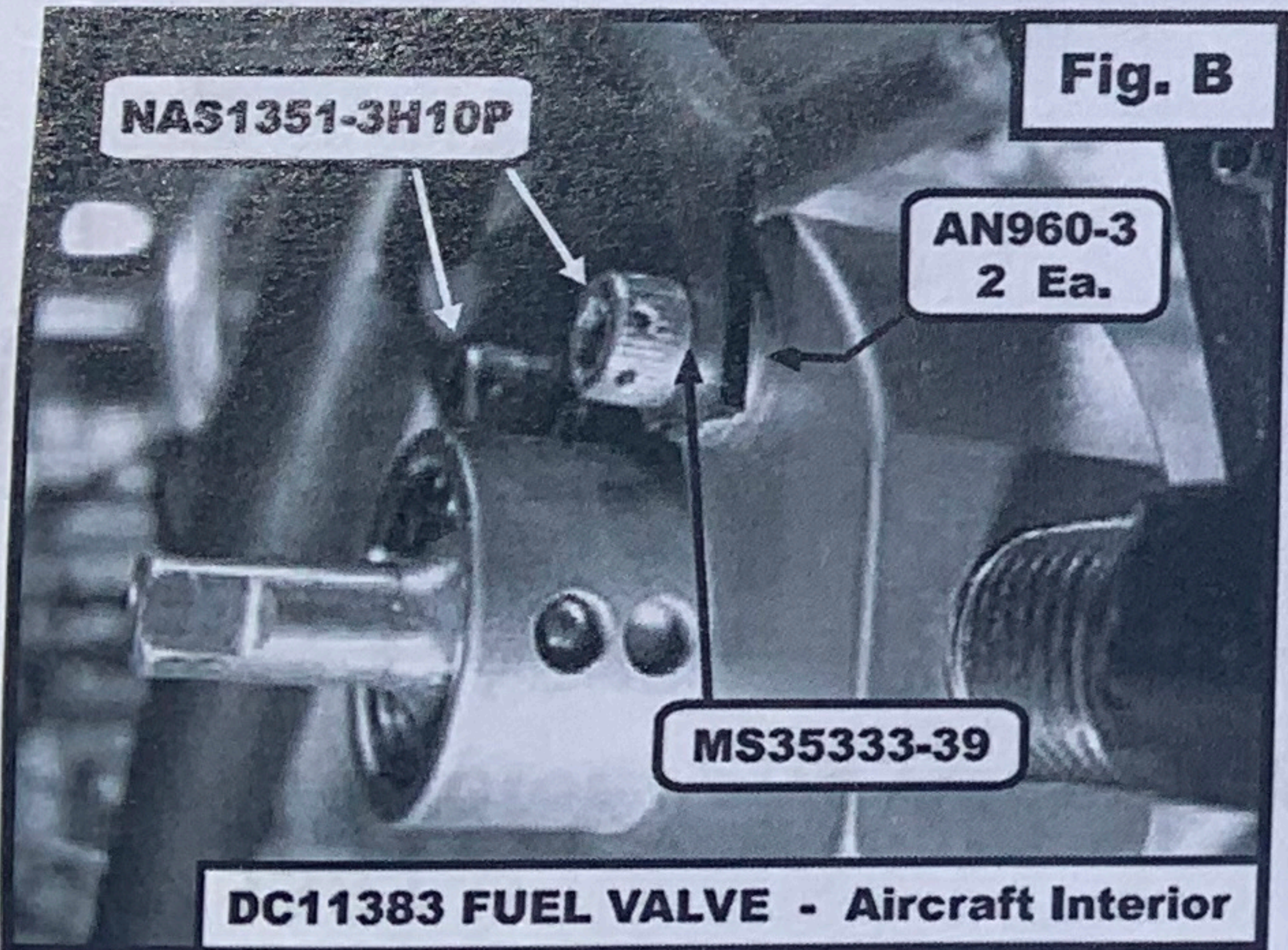
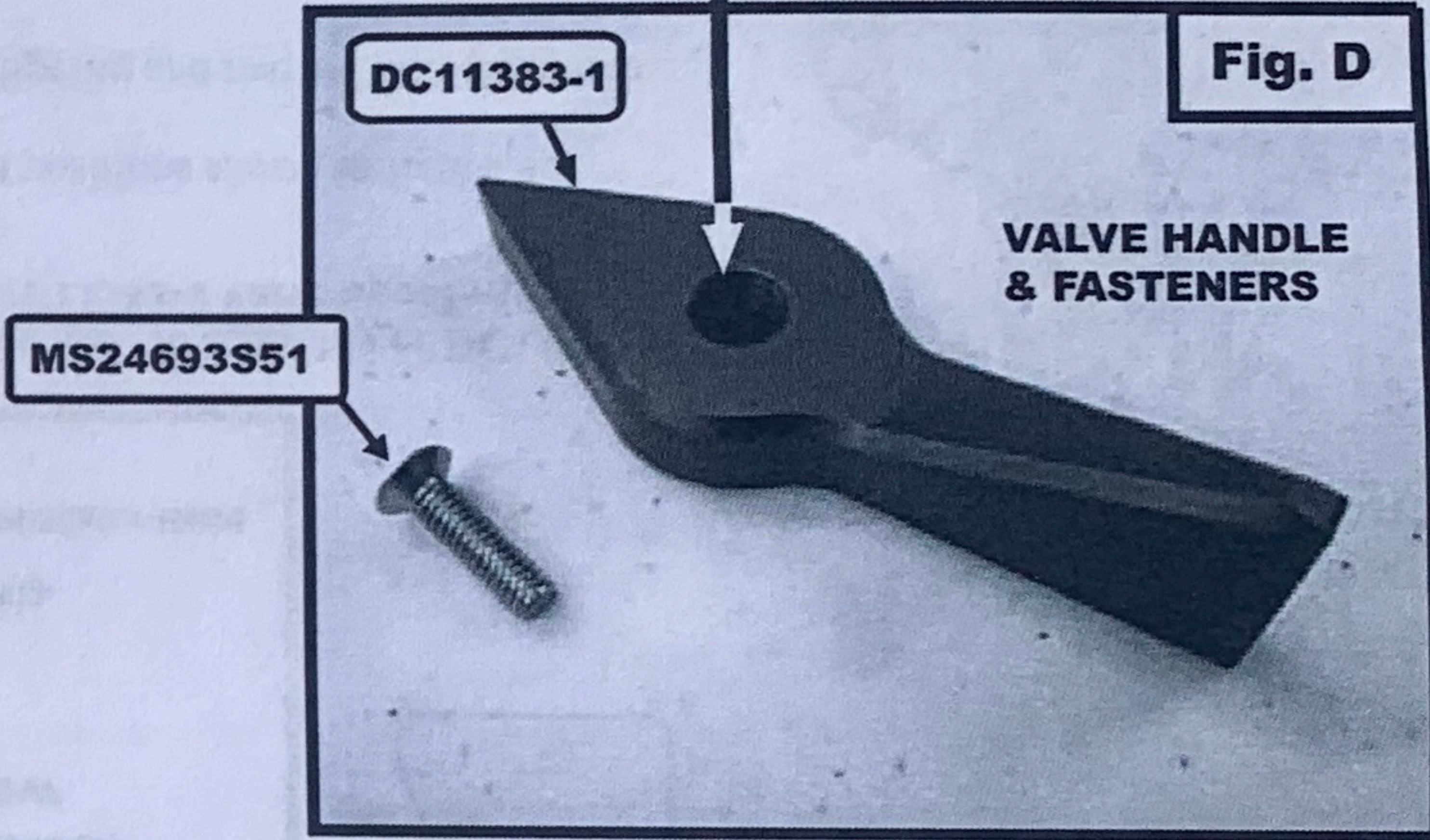
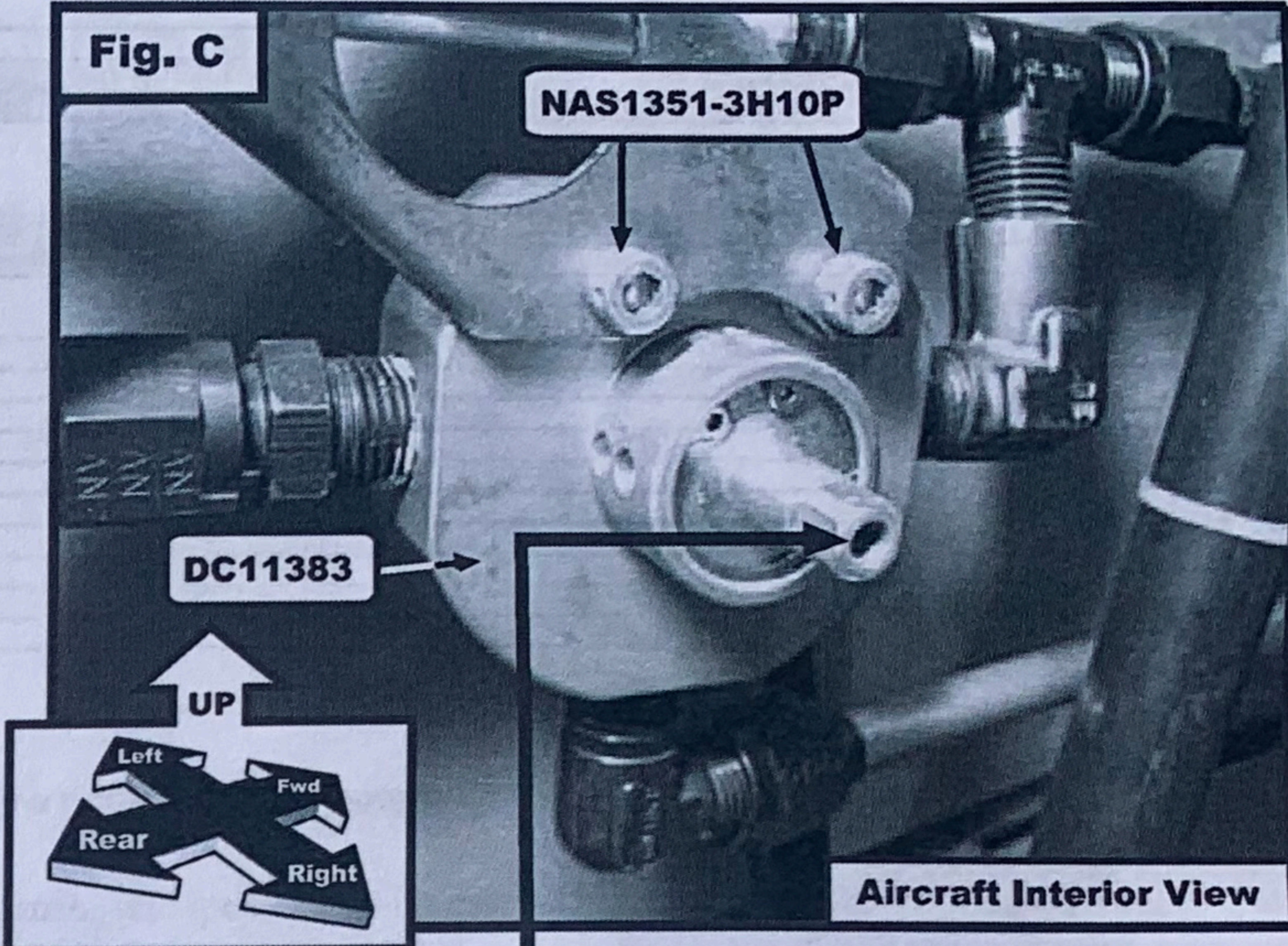
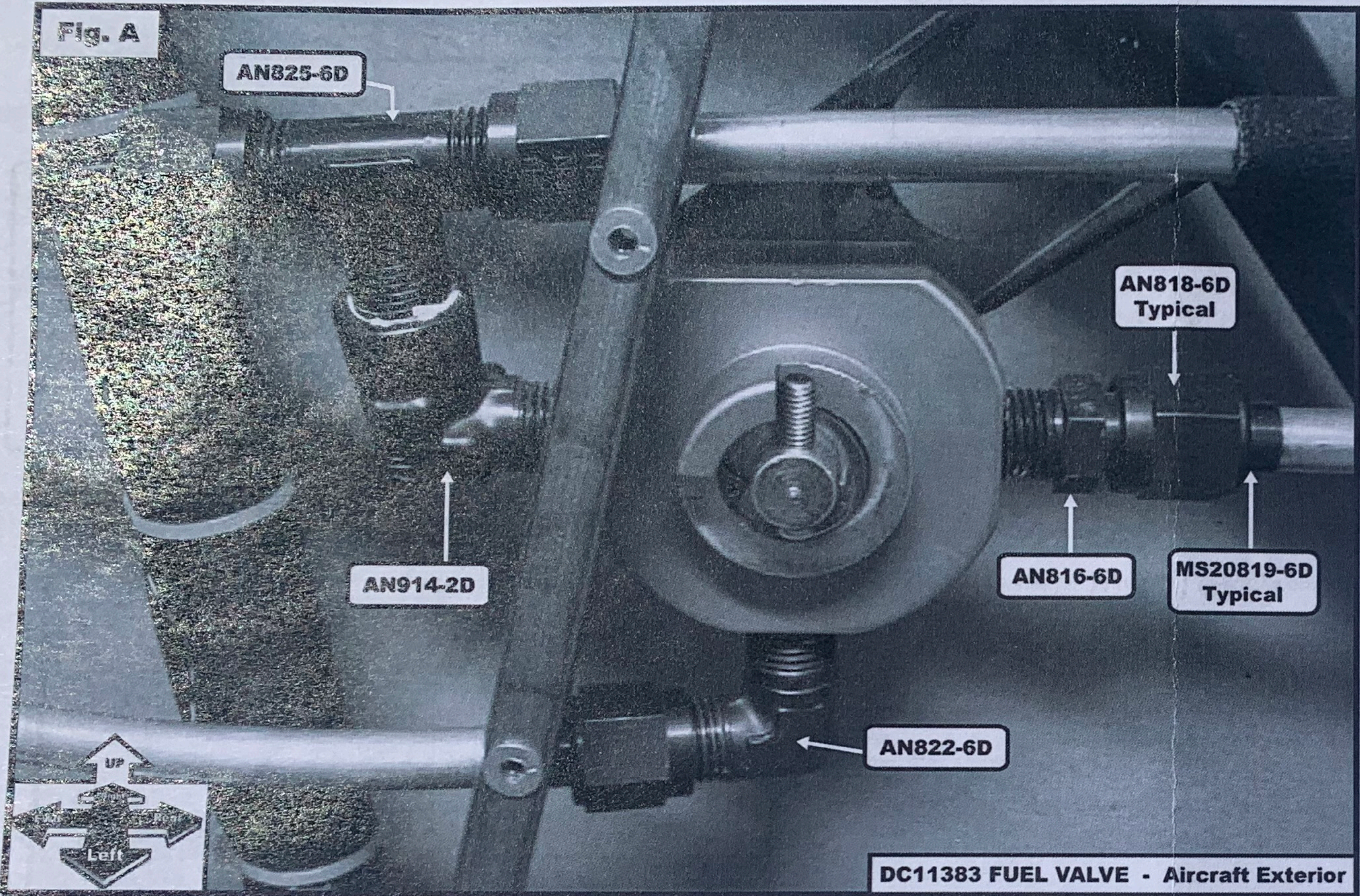
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ALL DATA PROPRIETARY TO DAKOTA CUB AIRCRAFT

LET.	REVISION	DATE	BY

Part No.	No. Req.	Size	Material
MS35265-48	1	8-32 x 7/8	Screw - Phillister Head Rotation Limit
MS24693S51	1	8-32 x 5/8	Screw - Flat Head
DC1179	2		Spring - Fuel Valve
DC11383-SR	2		Snap Ring - Fuel Valve
DC11383-114	2		O-Ring (large) - Fuel Valve
DC11383-011	1		O-Ring (small) - Fuel Valve
DC889	4	3/16	Ball - Stainless Steel
DC11383-3	1		Body - Fuel Valve
DC11383-2	1		Spool - Fuel Valve
DC11383-1	1		Handle - Fuel Valve

DWG.	MDE	Check -	MDE	Drawing No. -
DATE	5-03-07	DATE	5-03-07	DC11383-ICA

DC11383
Fuel Selector Valve Installation



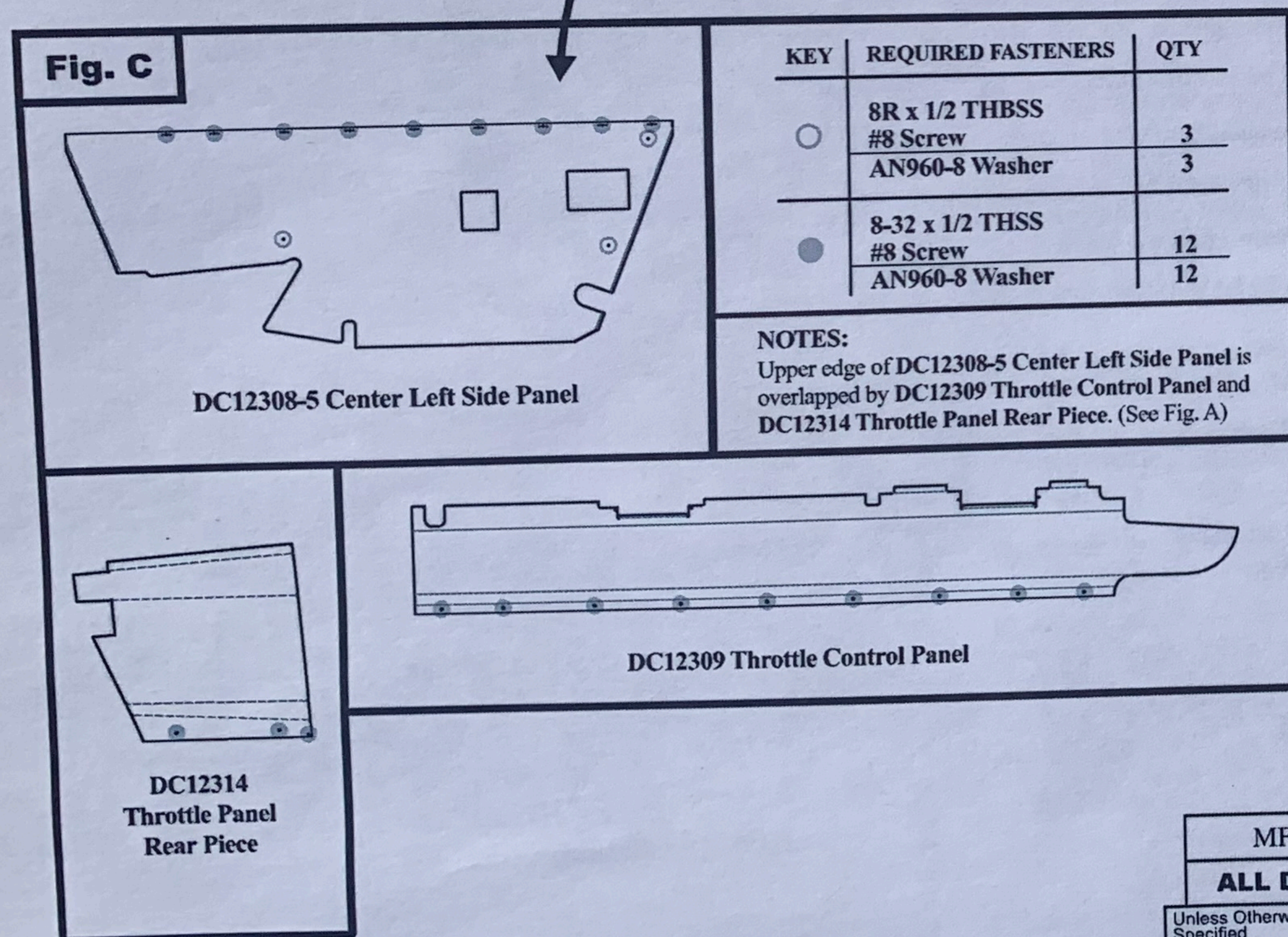
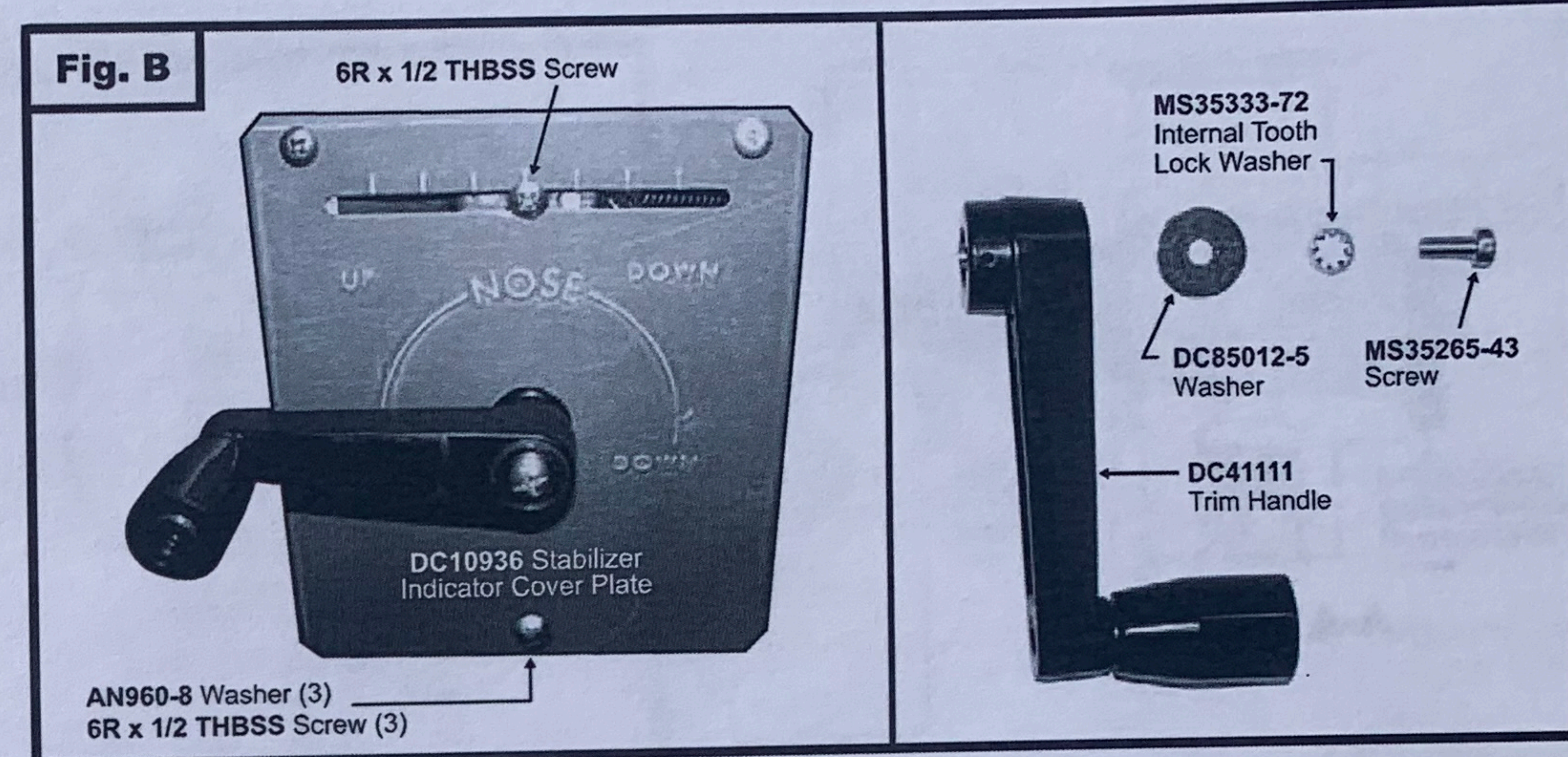
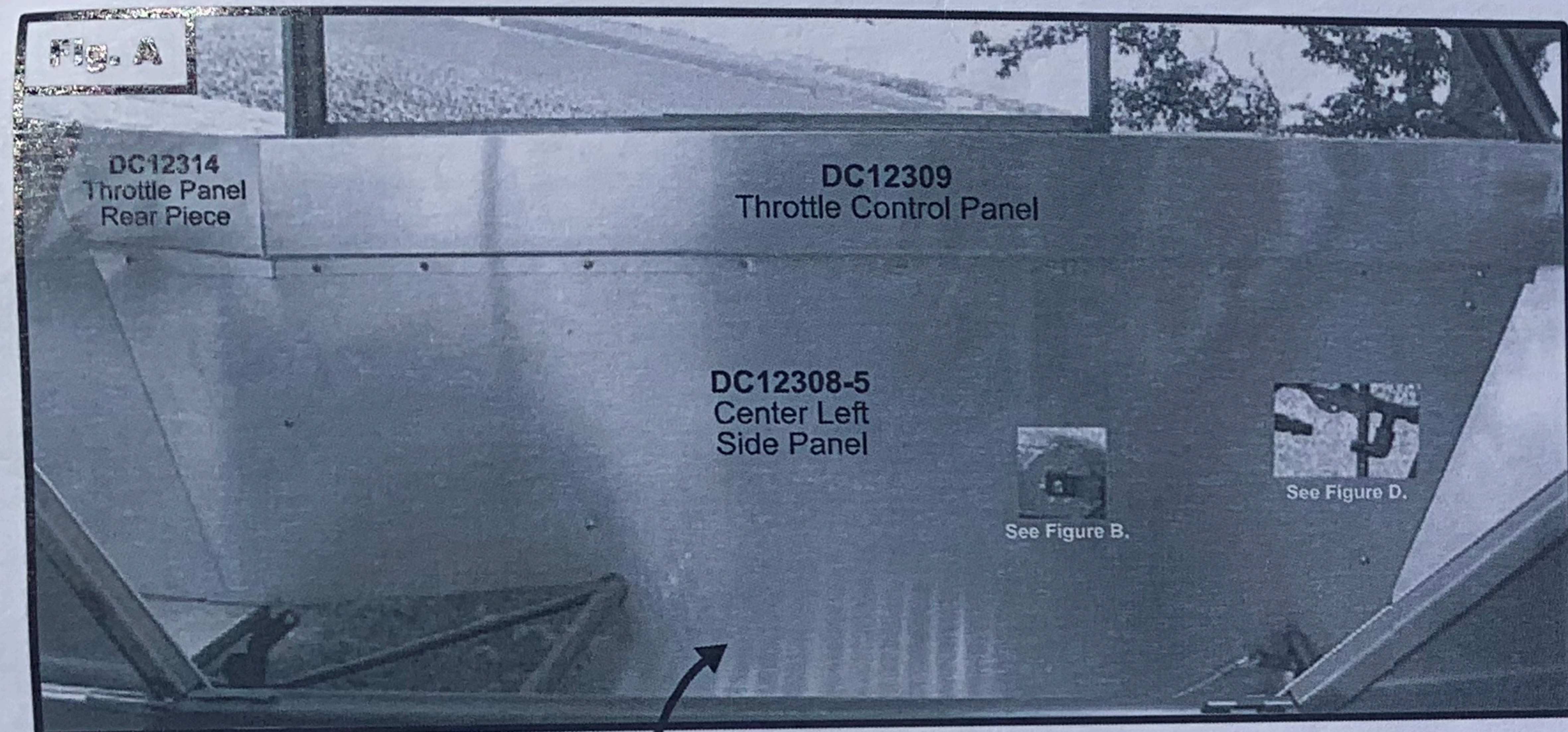
Notes:

1. All NPT Joints sealed with non-hardening thread sealing compound suitable for use with aviation and automotive grade fuels.
2. Primary locking for valve cap screws - MS35333-39 Washer. Alternate locking method - safety wire per AL43.13 between NAS 1351-3H10P Cap Screws.



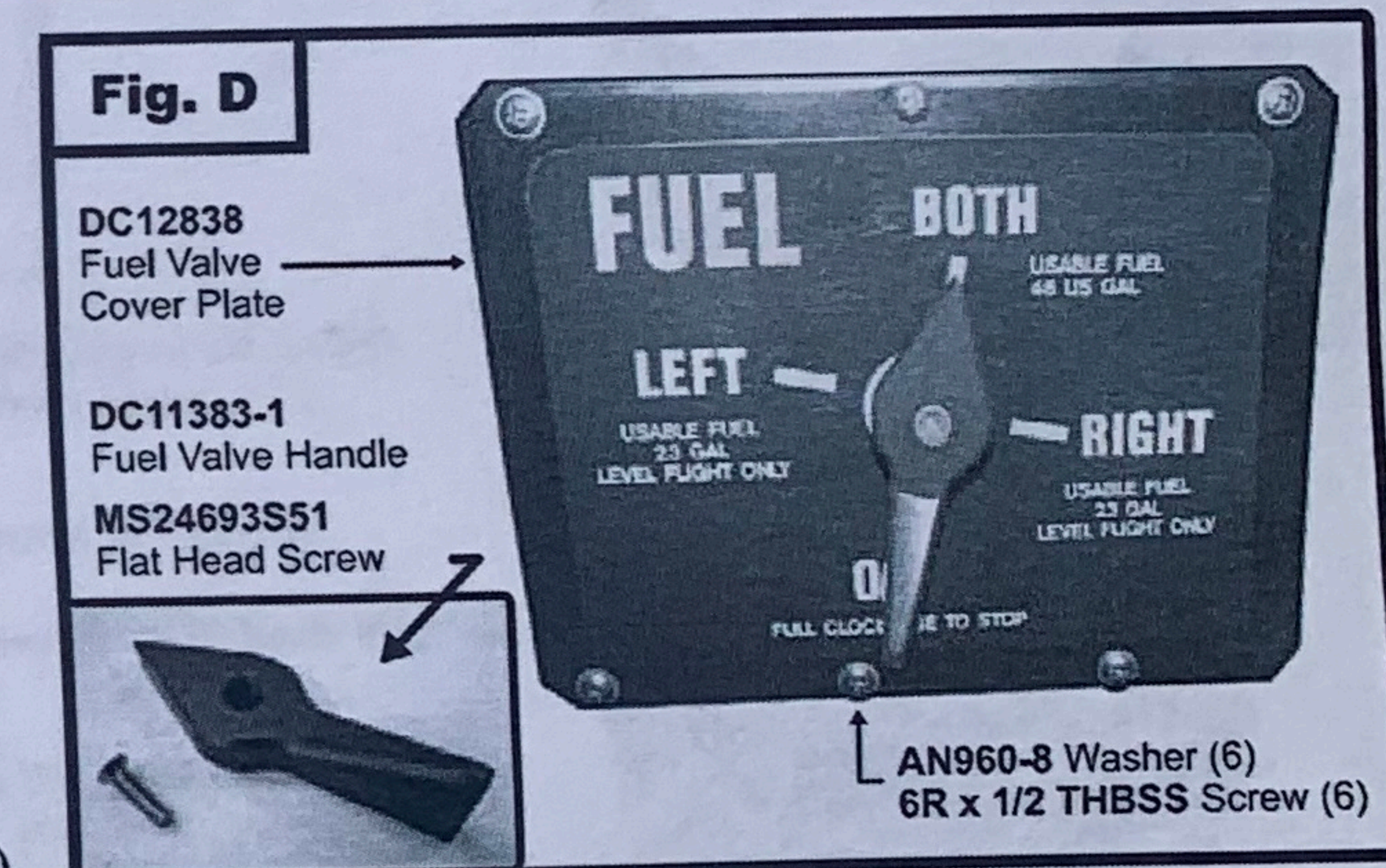
MFG PRACTICES / DCA GENERAL MECHANICAL - 1			
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Unless Otherwise Specified Tolerances -			
Angles = ± 2°			
Fractions = ± 1/32			
.0 = ± .032			
.00 = ± .020			
.000 = ± .010			
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12	MS24693S51	1		Screw - Flat Head
11	MS20995	1	.020 Stainless	Safety Wire
10	MS35333-39	2		Internal Star Washer
9	NAS1351-3H10P	2		Socket Head Cap Screw
8	AN818-6D	4		Tube Nut
7	MS20819-6D	4		Sleeve
6	AN914-2D	1		Elbow
5	AN816-6D	1		Nipple - Flare to Pipe
4	AN822-6D	1		Elbow
3	AN960-3	4		Washer
2	DC11383-1	1		Handle
1	DC11383	1		Fuel Valve Assembly
Part No.		No. Req.	Size	Description
				Material
Scale: 1=1				
MFG Practices - DCA Spec. No. 9 - Finish - DCA Spec. No. 10				
FUEL VALVE ICA				
DWG.	MDE	Check -	MDE	Drawing No. -
DATE	5-03-07	DATE	5-03-07	DC11383-ICA



DC11383 Fuel Selector Valve Access from Aircraft Interior

- A.** Access to DC11383 Fuel Selector Valve is achieved by unfastening the **Fuel Valve Handle** and removing the **Fuel Valve Cover Plate** from the **Center Left Side Panel**. (Refer to Figs. A & D.)
- B.** If further access is required, the **Trim Handle** and **Stabilizer Indicator Cover Plate** must be removed (See Fig. B) so that **DC12314 Throttle Panel Rear Piece**, **DC12309 Throttle Control Panel**, **DC12308-5 Center Left Side Panel** can be removed as well (See Figs. A & C).



15	8-32 x 1/2 THSS	12	#8 Screw - Truss Head, Stainless Steel
14	8R x 1/2 THBSS	3	#8 Screw - Truss Head, Blunt, Stainless Steel
13	6R x 1/2 THBSS	10	#6 Screw - Truss Head, Blunt, Stainless Steel
12	AN960-8	24	Washer
11	MS35333-72	1	Lock Washer - Internal Tooth
10	MS35265-43	1	Screw - Phillips Head
9	MS24693S51	1	Screw - Flat Head
8	DC10936	1	Plate - Stabilizer Indicator Cover
7	DC11383-1	1	Handle - Fuel Valve
6	DC12838	1	Plate - Fuel Valve Cover
5	DC41111	1	Handle - Trim
4	DC85012-5	1	Washer
3	DC12309	1	Throttle Control Panel
2	DC12308-5	1	Center Left Side Panel
1	DC12314	1	Throttle Panel Rear Piece
	Part No.	No. Req.	Size
			Description
			Material

MFG PRACTICES / DCA GENERAL MECHANICAL - 1
ALL DATA PROPRIETARY TO DAKOTA CUB AIRCRAFT

Unless Otherwise Specified
Tolerances -
Angles = ± 2°
Fractions = ± 1/32
.0 = ± .032
.00 = ± .020
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LET. REVISION DATE BY
DAKOTA CUB AIRCRAFT Box 797
Brandon, SD

Scale: 1=1
MFG Practices - DCA Spec. No. 9 - Finish - DCA Spec. No. 10

FUEL VALVE ICA

DWG. MDE Check - MDE
DATE 5-03-07 DATE 5-03-07
Drawing No. - **DC11383-ICA**

**FAA Approved Model List (AML) No. SA02299AK
For the Installation of Replacement Fuel Selector Valve System
in accordance with Master Data List
"MDL-01," dated August 8, 2007**

Airplane Make and Model Designation	Original Type Certificate Number	Certification Basis
Piper	---	---
PA-11, PA-11S	A-691	CAR 4a
PA-12, 12S	A-780	CAR 3
PA-14	A-797	CAR 3
PA-18, 18S, 18 "105" (Special), 18S "105" (Special), 18A, 18 "125" (Army L-21A), 18S "125," 18AS "125," 18 "135" (Army L-21B), 18A "135," 18S "135," 18AS "135," 18 "150," 18A "150," 18S "150," 18AS "150"	1A2	CAR 3
PA-19 (Army L-18C), 19S	1A2	CAR 3
PA-20, 20S, 20 "115," 20S "115," 20 "135," 20S "135"	1A4	CAR 3
PA-22, 22-108, 22-135, 22S-135, 22-150, 22S-150, 22-160, 22S-160	1A6	CAR 3
J3C-40	A-691	CAR 4a
J3C-50, 50S	A-691	CAR 4a
J3C-65, 65S	A-691	CAR 4a
--- Nothing Follows ---		

FAA APPROVED

Manager, Anchorage Aircraft Certification Office
Federal Aviation Administration
Anchorage, Alaska

Date: September 13, 2007