

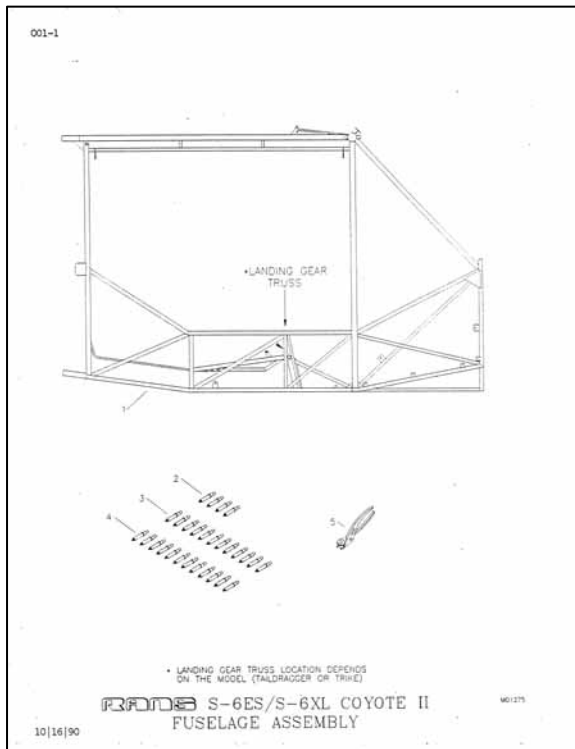
S-14 AIRAILE**TABLE OF CONTENTS**

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The RANS CD manual is designed to be printable on 3-hole punched paper on your home printer. If you have the pre-printed manual, follow the directions for rotation below.

If you desire to NOT print the pages, you may use the features available with ADOBE Reader to rotate the pages on your computer screen.

After the manual pages are printed, rotate the Parts Drawing page 180° to face the Parts List page. See the diagram below.



Parts Drawing page

001-2

S-6ES COYOTE II - FUSELAGE

#	DESCRIPTION	PART NUMBER	QUANTITY
1.	S-6ES Fuselage (Taildragger)	KAFU0003	1
1.	S-6ES Fuselage (Trike)	KAFU0005	1
2.	#40 Silver Clecos	#40CLECOS	4
3.	#30 Copper Clecos	#30CLECOS	12
4.	#11 Gold Clecos	#11CLECOS	12
5.	Cleco Pliers	CLECO PLIERS	1

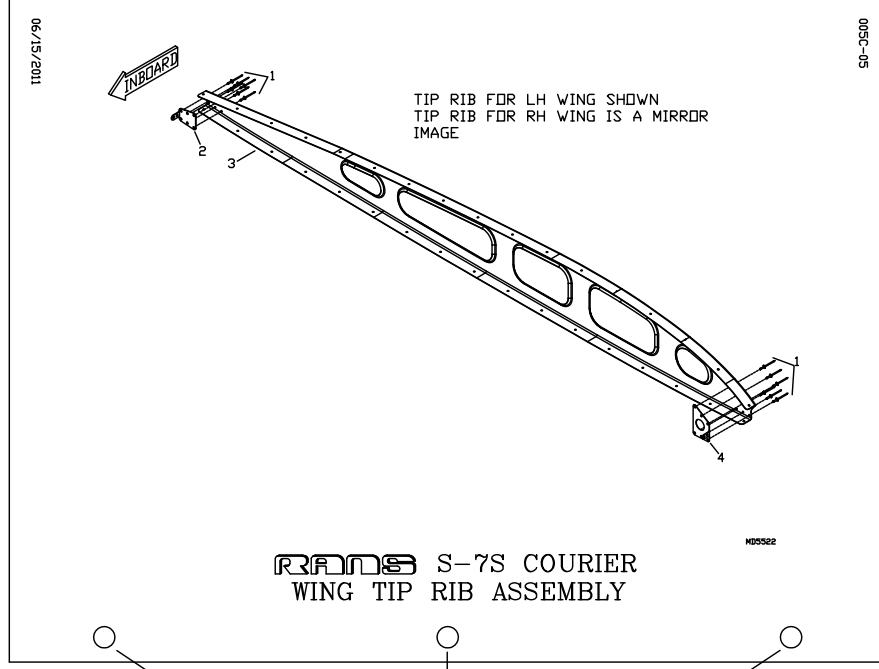
2/24/98

Parts List page

STEP 1:

PARTS MANUAL AS SHIPPED or PRINTED.
PLACE IN 3-RING BINDER TO SECURE.

PARTS DRAWING PAGE



3-HOLE PUNCH

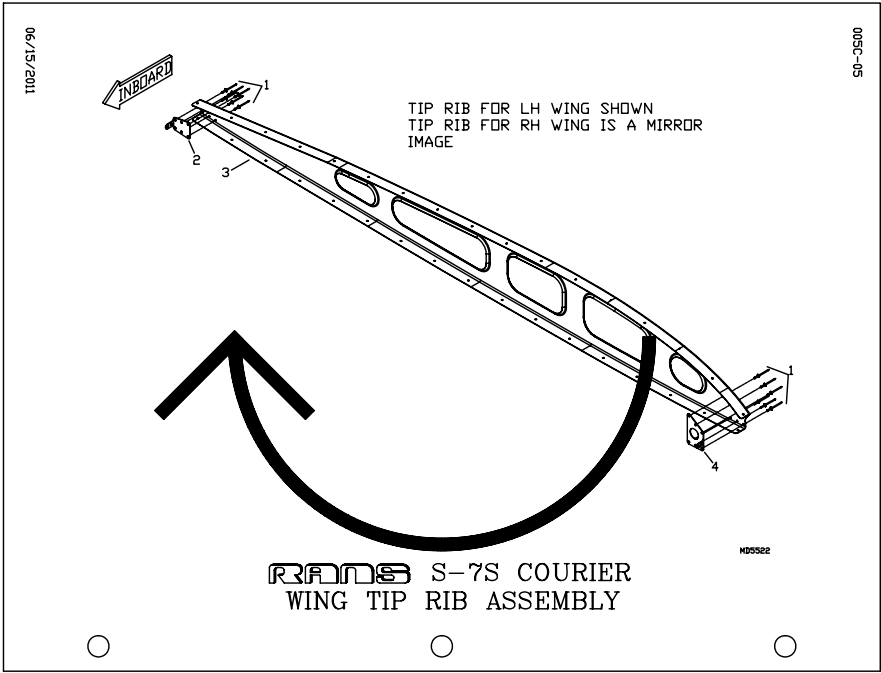
EXAMPLE ONLY.
MAY NOT REPRESENT ACTUAL PAGES
FROM YOUR MANUAL.

SEE NEXT PAGE

STEP 2:

OPEN 3-RING BINDER.
REMOVE PARTS DRAWING PAGE AND
ROTATE 180° TO FACE
CORRESPONDING
PARTS DESCRIPTION PAGE.
REPEAT FOR REMAINING PAGES

PARTS DRAWING PAGE



PARTS DESCRIPTION PAGE

S-7S COURIER - WING - TIP RIB ASSEMBLY				PAGE 005C-06	
#	DESCRIPTION	PART NUMBER	QUANTITY		
1.	1/8" ALUMINUM RIVET	AAQ-41	24		
2.	RIB CLIP TRAILING EDGE - LH	KPW0372-L	4		
2.	RIB CLIP TRAILING EDGE - RH	KPW0372-R	1		
3.	WING TIP RIB - LH	KPW0544-L	1		
3.	WING TIP RIB - RH	KPW0544-R	1		
4.	RIB CLIP LEADING EDGE - LH	KPW0373-L	1		
4.	RIB CLIP LEADING EDGE - RH	KPW0373-R	1		

6/15/2011

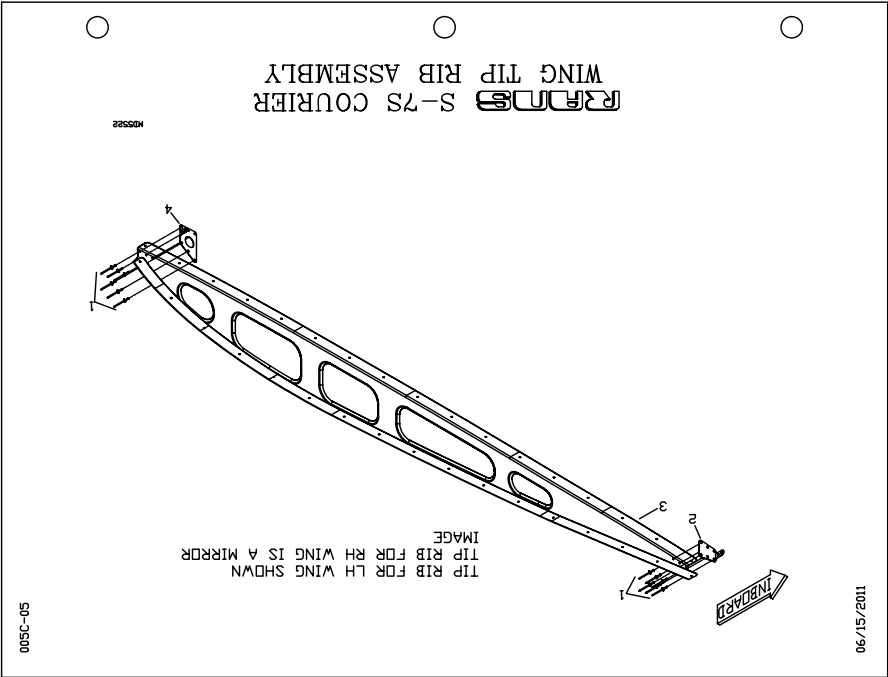
EXAMPLE ONLY.
MAY NOT REPRESENT ACTUAL PAGES
FROM YOUR MANUAL.

SEE NEXT PAGE

STEP 3:

PARTS DRAWING PAGE
FACES CORRESPONDING
PARTS DESCRIPTION PAGE
WHEN FINAL SECURED IN
BINDER

PARTS DRAWING PAGE



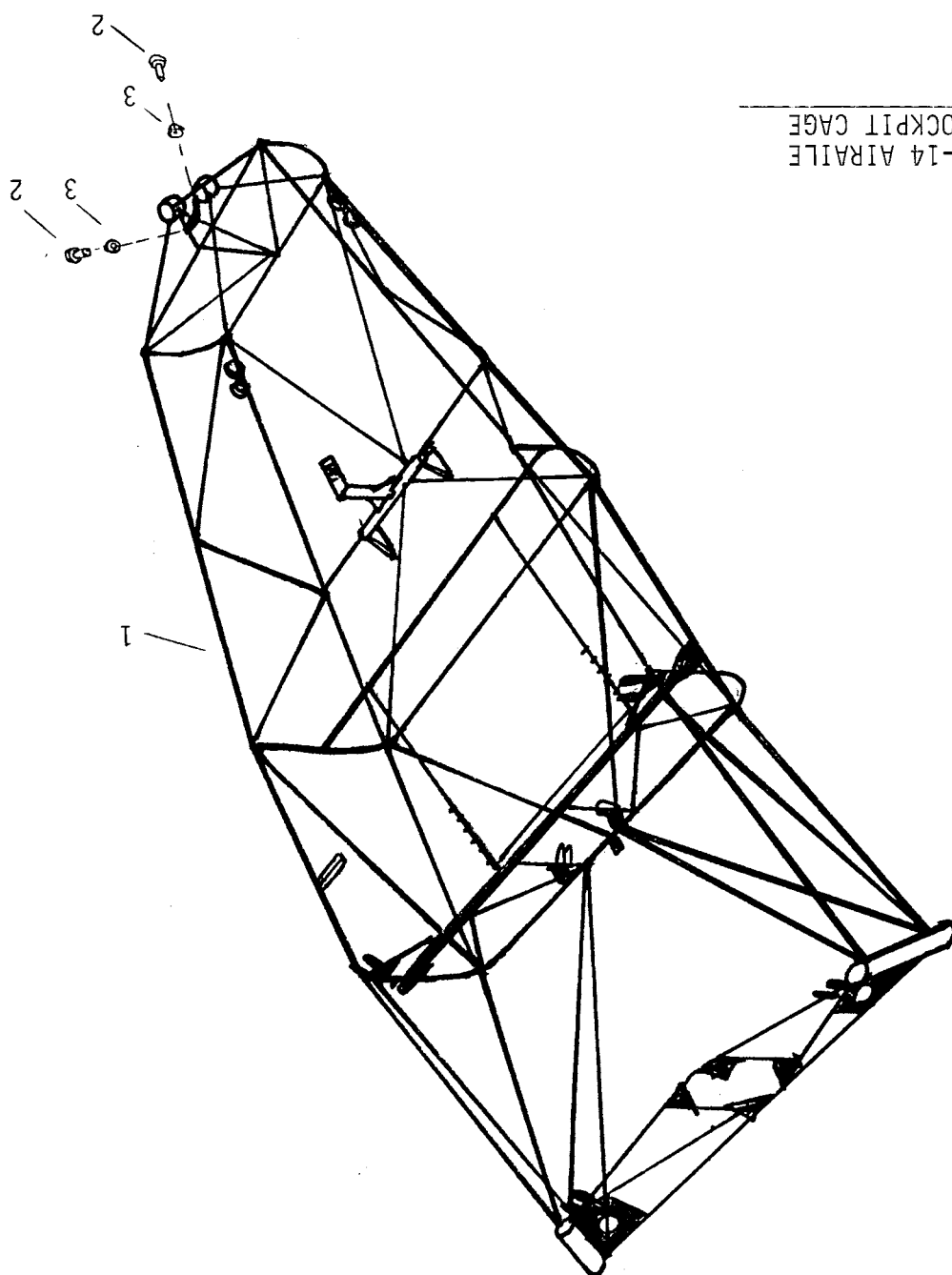
PARTS DESCRIPTION PAGE

S-7S COURIER - WING - TIP RIB ASSEMBLY			
#	DESCRIPTION	PART NUMBER	QUANTITY
1.	1/8" ALUMINUM RIVET	AAPQ-41	24
2.	RIB CLIP TRAILING EDGE - LH	KPW0372-L	4
2.	RIB CLIP TRAILING EDGE - RH	KPW0372-R	1
3.	WING TIP RIB - LH	KPW0544-L	1
3.	WING TIP RIB - RH	KPW0544-R	1
4.	RIB CLIP LEADING EDGE - LH	KPW0373-L	1
4.	RIB CLIP LEADING EDGE - RH	KPW0373-R	1

EXAMPLE ONLY.
MAY NOT REPRESENT ACTUAL PAGES
FROM YOUR MANUAL.

S-14 AIRAILE - GENERAL INFORMATION

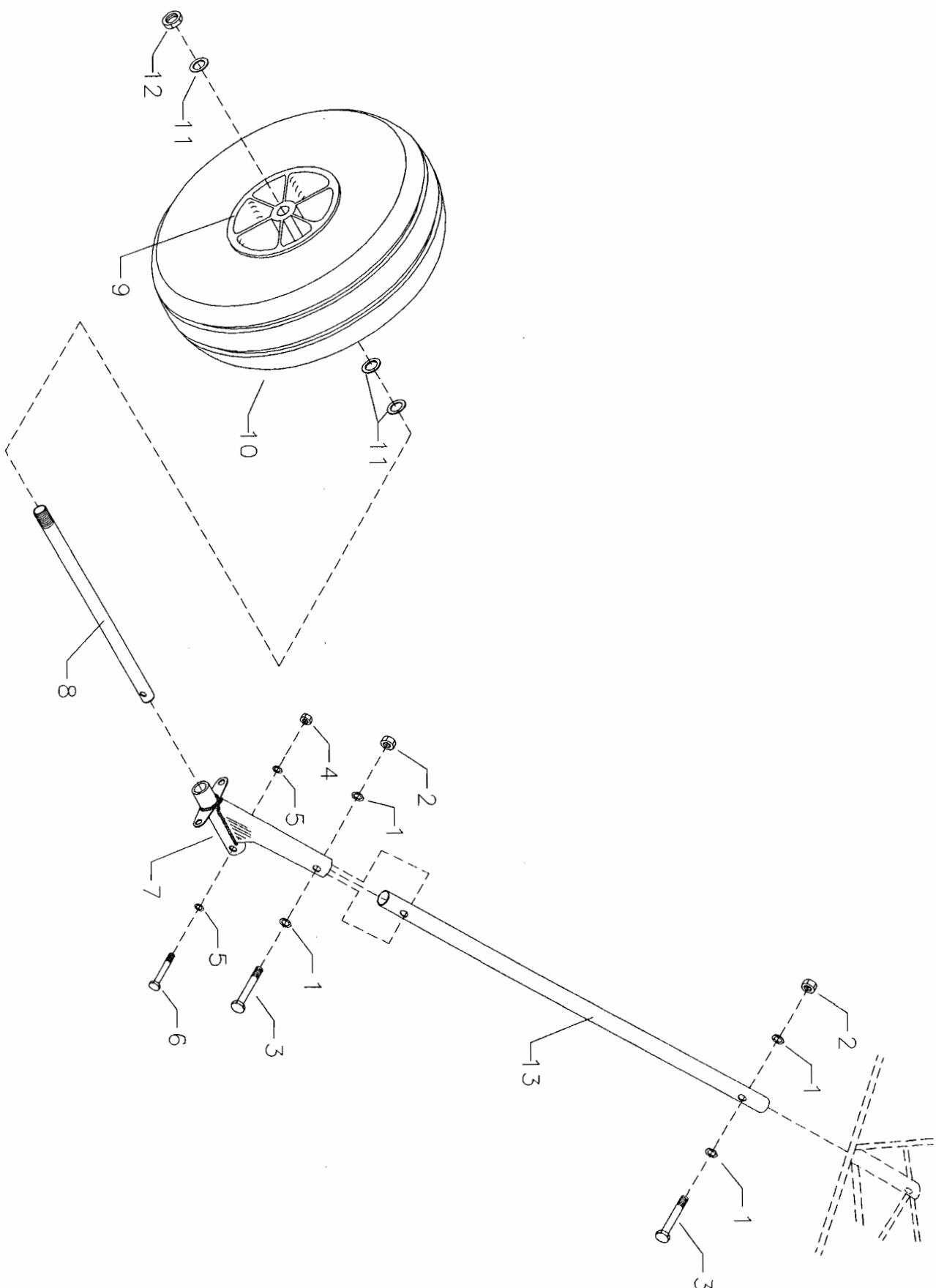
#	DESCRIPTION	PART NUMBER	QUANTITY
1.	Assembly Manual	ASSEMBLY MANUAL	1
2.	Experimental Decal Sheets	EXPER-DECAL	1
3.	Range Decals	RANGE DECAL	1
4.	S-14 Decals	S-14 DECALS	2
5.	Maintenance Log Book	MAINTENANCE LOG	1
6.	Flight Log	FLIGHT LOG	1
7.	Raw Stock Kit	KAAC0018	1
7.	1/2" x .035 x 12' Anodized Aluminum Tubing	KAAC0018-1	2
7.	1/4" x .028 x 12" Anodized Aluminum Tubing	KAAC0018-2	1
7.	7/8" x .058 x 24" Aluminum Tubing	KAAC0018-3	1
7.	3/8" x .058 x 6" Aluminum Tubing	KAAC0018-4	1
8.	Warning Label	KPPL0001	1



S-14 AIRALE
COCKPIT CAGE

S-14 AIRAILE COCKPIT CAGE

#	DESCRIPTION	PART NUMBER	QUANTITY
1.	Cockpit Cage	CC-CC-14	1
2.	1/4" Bolt	AN4-7A	2
3.	1/4" Plain Nut	AN345-416	2

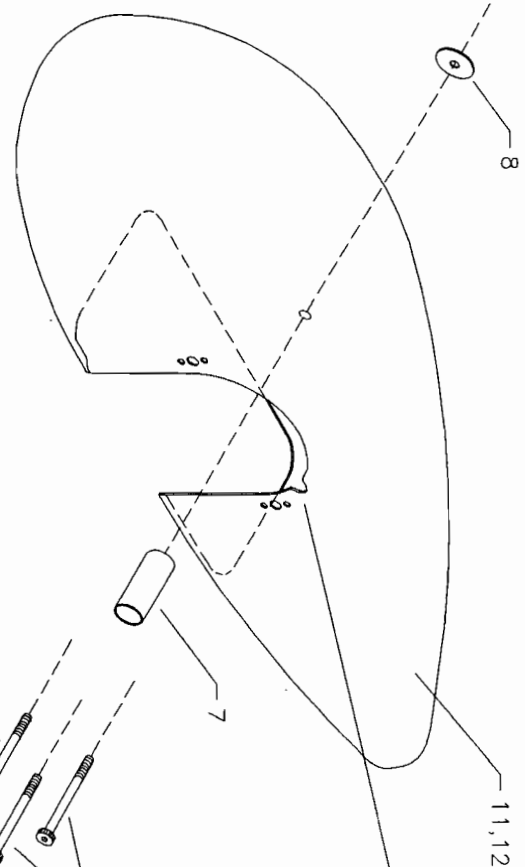
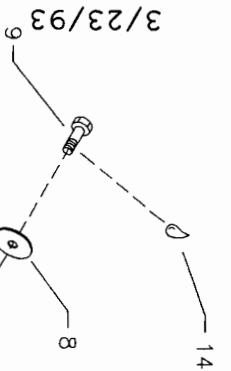


REFUGES S-14 AIRRAIL MAIN LANDING GEAR

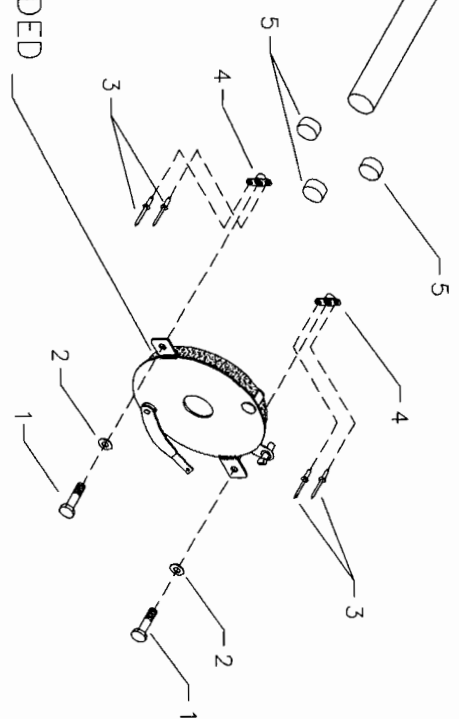
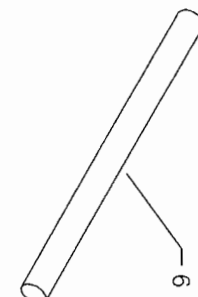
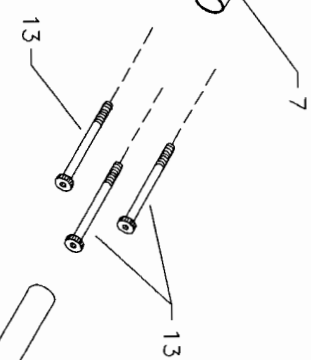
MD248

S-14 AIRAILE MAIN GEAR

#	DESCRIPTION	PART NUMBER	QUANTITY
1.	1/4" Thick Washer	AN960-416	8
2.	1/4" Shear Nut	AN364-428A	4
3.	1/4" Bolt	AN4-16A	4
4.	3/16" Shear Nut	AN364-1032A	2
5.	3/16" Thin Washer	AN960-10L	4
6.	3/16" Bolt	AN3-12A	2
7.	Main Gear Axle Socket	LG-A-SOC	2
8.	Axle	LG-AXLE	2
9.	6" Hegar Main Gear Rim Kit	LG-MW-RIM	2
9.	6" Hegar Main Gear Hub Kit	LG-MW-HUB	2
10.	6" Tire	LG-T	2
11.	5/8" Shim	5/8 SHIM	6
12.	5/8" Loc Nut	5/8 LOCNUT	2
13.	Gear Leg	LG-GL-14	2



GRIND WHEEL PANT
TO CLEAR FITTING.



BRAKE ASSEMBLY INCLUDED
FOR CLARITY ONLY.

MD490

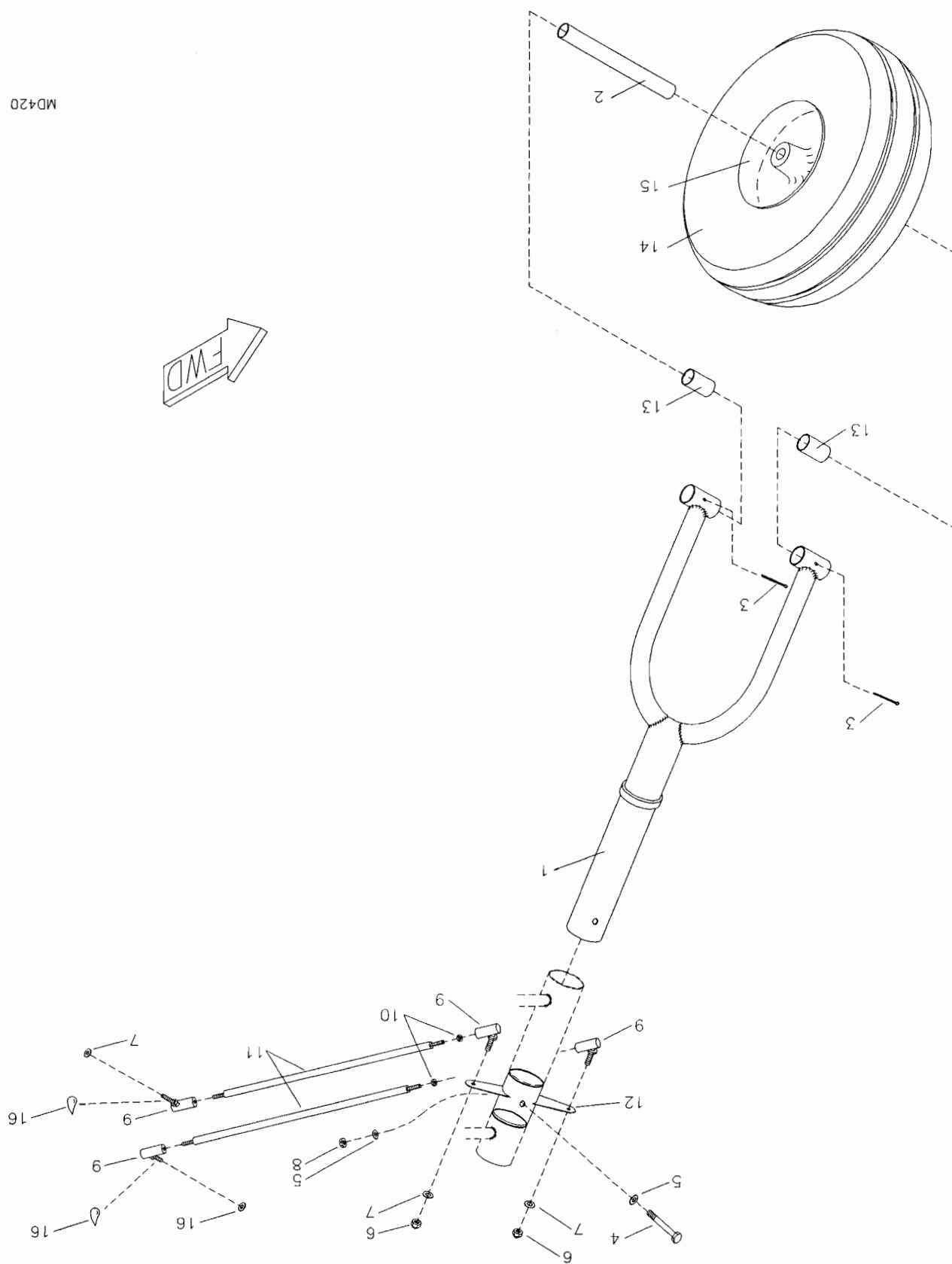
RRM S-14 AIRAILE MAIN WHEEL PANT ASSEMBLY

S-14 AIRAILE - MAIN WHEEL PANTS

#	DESCRIPTION	PART NUMBER	QUANTITY
1.	3/16" Bolt	AN3-4A	4
2.	3/16" Plastic Washer	PW-3	4
3.	3/32" Aluminum Pop Rivet	40APR1/8	8
4.	3/16" Nut Plate	K-1000-3	4
5.	Drum Spacer	MWP-DS	6
6.	Main Wheel Pant Axle, 9"	MWP-AXLE	2
7.	Outside Spacer	MWP-OS	2
8.	3/16" Large Wood Washer	AN970-3	2
9.	3/16" Bolt	AN3-6A	2
10.	Inner Spacer Bushing	3/4X1/2 SLEEVE	2
11.	Main Wheel Pant, LH	MWP	1
12.	Main Wheel Pant, RH	MWP	1
13.	5/16" Hex Bolt	5/16X24X2 1/4	6

RMS S-14 AIRAILE NOSE GEAR ASSEMBLY

MD420



S-14 AIRAILE - NOSE GEAR

#	DESCRIPTION	PART NUMBER	QUANTITY
1.	Nose Gear Fork Strut	NG-STRUT-14	1
2.	Nose Gear Axle	KPNG0036	1
3.	Large Cotter Pin	MS24665-285	2
4.	3/16" Bolt	AN3-20A	1
5.	3/16" Thin Washer	AN960-10L	2
6.	1/4" Shear Nut	AN364-428A	4
7.	1/4" Thin Washer	AN960-416L	4
8.	3/16" Shear Nut	AN364-1032A	1
9.	Steering Rod Linkage	NG-SL	4
10.	1/4" Plain Nut	AN345-416	2
11.	Steer Rod, 10 1/2"	NG-ROD-10 1/2	2
12.	Steer Horn	KPNG0020	1
13.	Wheel Bushing, 3/4 x 1 3/4"	NG-WB	2
14.	6" Tire	LG-T	1
15.	6" Hegar Nosewheel Rim Kit	LG-NW-RIM	1
15.	6" Hegar Nosewheel Hub Kit	LG-NW-HUB	1

SURRY

Exploded view diagram of a vehicle headlight assembly. The diagram shows the following components and their assembly relationships:

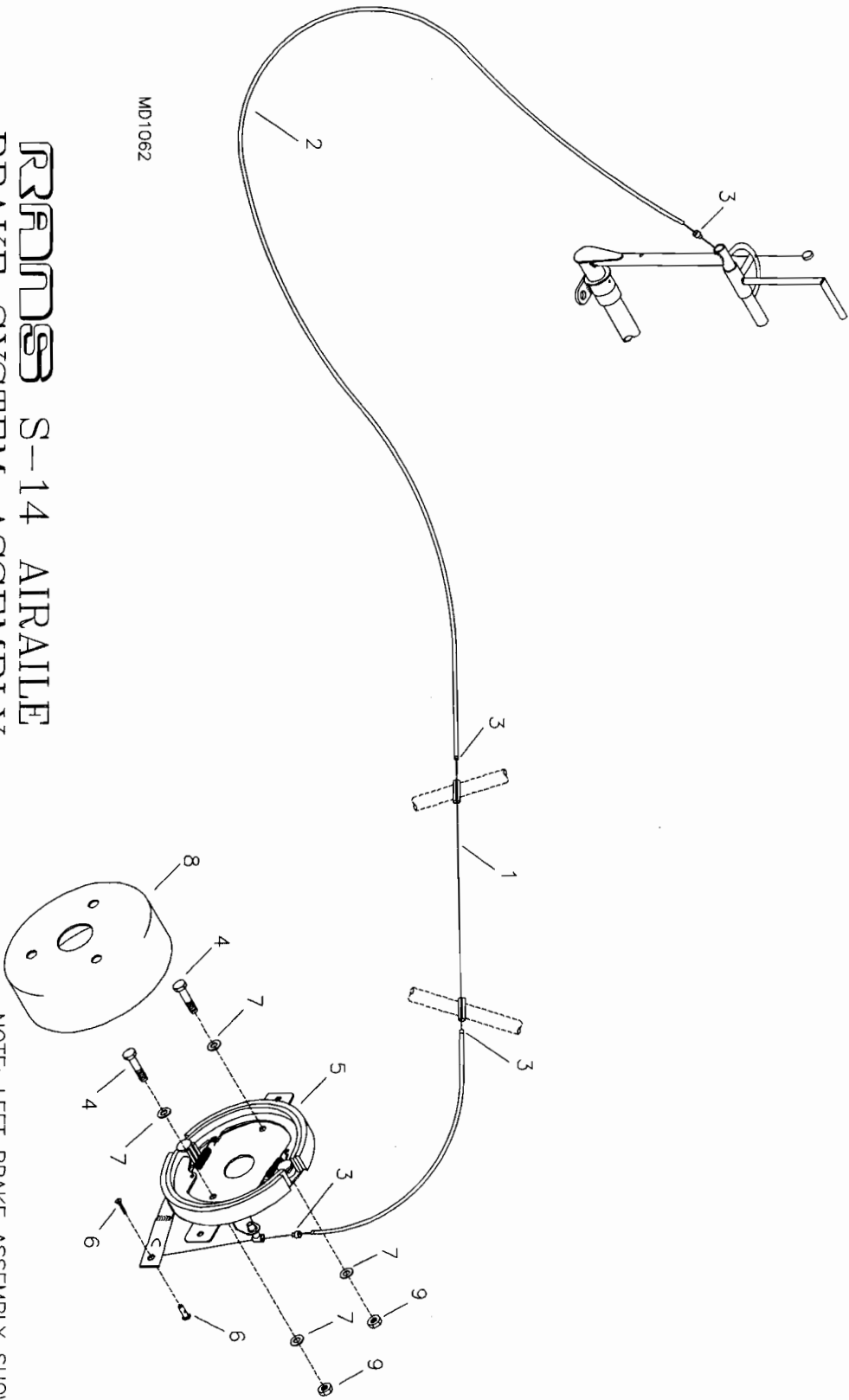
- 7**: Headlight housing.
- 8**: Headlight lens.
- 1**: Screws used for mounting the housing and lens.
- 2**: A screw used for mounting the housing.
- 3**: A screw used for mounting the housing.
- 4**: A screw used for mounting the lens.
- 5**: A screw used for mounting the lens.
- 6**: A pin used for mounting the housing.
- 9**: A bracket used for mounting the housing.
- 10**: A fork used for mounting the housing.

A 'FWD' arrow indicates the front of the vehicle.

S-14 AIRAILE - OPTIONAL NOSE WHEEL PANTS

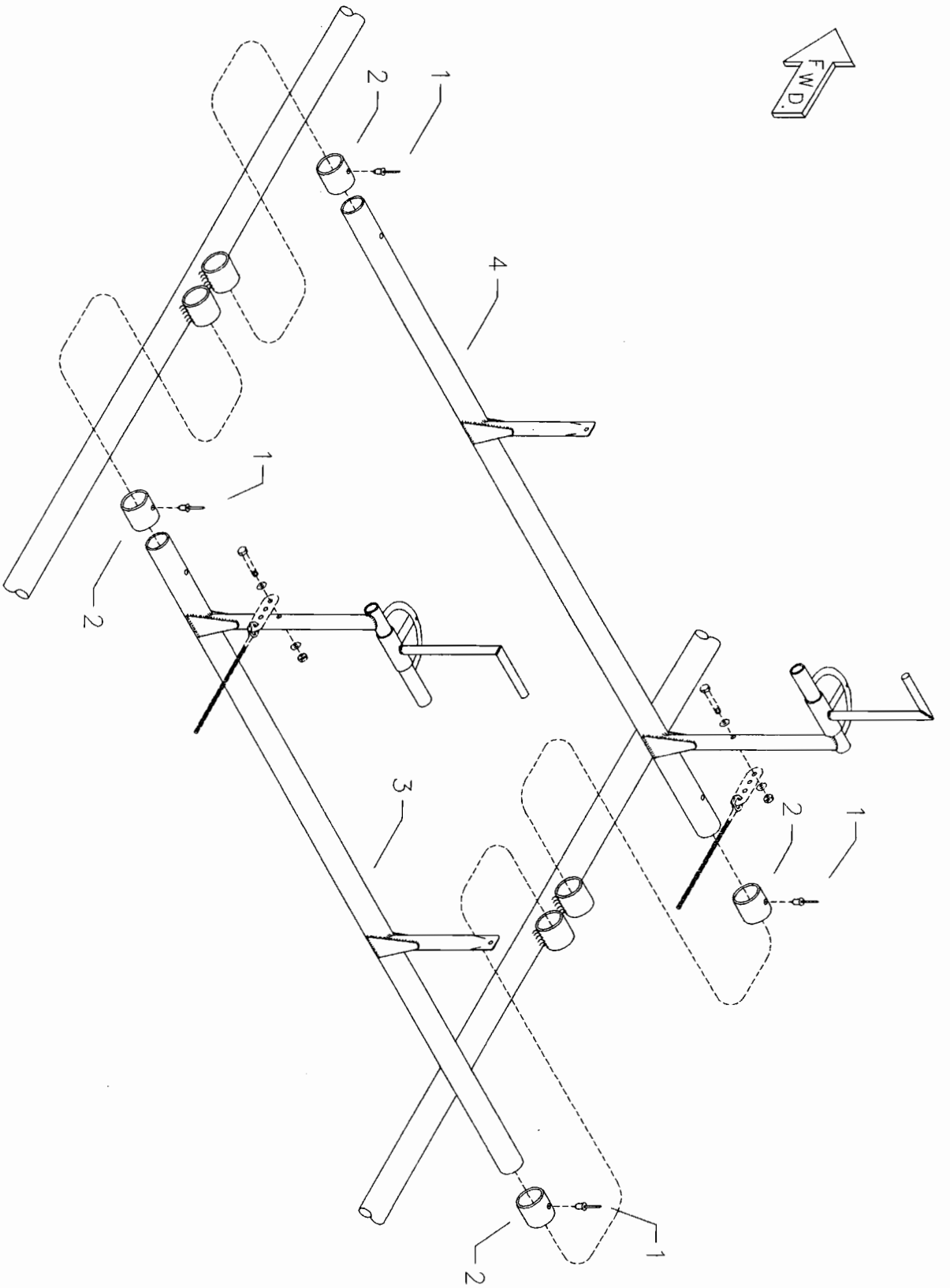
#	DESCRIPTION	PART NUMBER	QUANTITY
1.	3/16" Bolt	AN3-5A	4
2.	3/16" Thick Washer	AN960-10	2
3.	3/16" Large Wood Washer	AN970-3	2
4.	3/16" Nut Plate	K-1000-3	2
5.	3/32" Aluminum Pop Rivet	40APR1/8	4
6.	Loctite Blue	LOC-TITE	0
7.	Nose Wheel Pant, FWD	NWP-FWD	1
8.	Nose Wheel Pant, AFT	NWP-AFT	1
9.	Rubber Edging	X1011	8 in

RRR-108 S-14 AIRRAIL BRAKE SYSTEM ASSEMBLY



S-14 AIRAILE BRAKE SYSTEM

#	DESCRIPTION	PART NUMBER	QUANTITY
1.	Tandem Brake Cable, 105"	B-C105	2
2.	Large Cable Housing	B-CH12	12 ft
3.	Ferule End Cap	80-0002-01	8
4.	3/16" Bolt	AN3-5A	4
5.	4 1/2" Brake LH/RH	2269	2
6.	Wire Swivel Stop	2361	2
7.	3/16" Thick Washer	AN960-10	8
8.	4 1/2" Brake Drum	2211	2
9.	3/16" Shear Nut	AN364-1032A	4



MD200

RRR S-14 AIRAIL RUDDER PEDALS

S-14 AIRAILE - RUDDER PEDALS

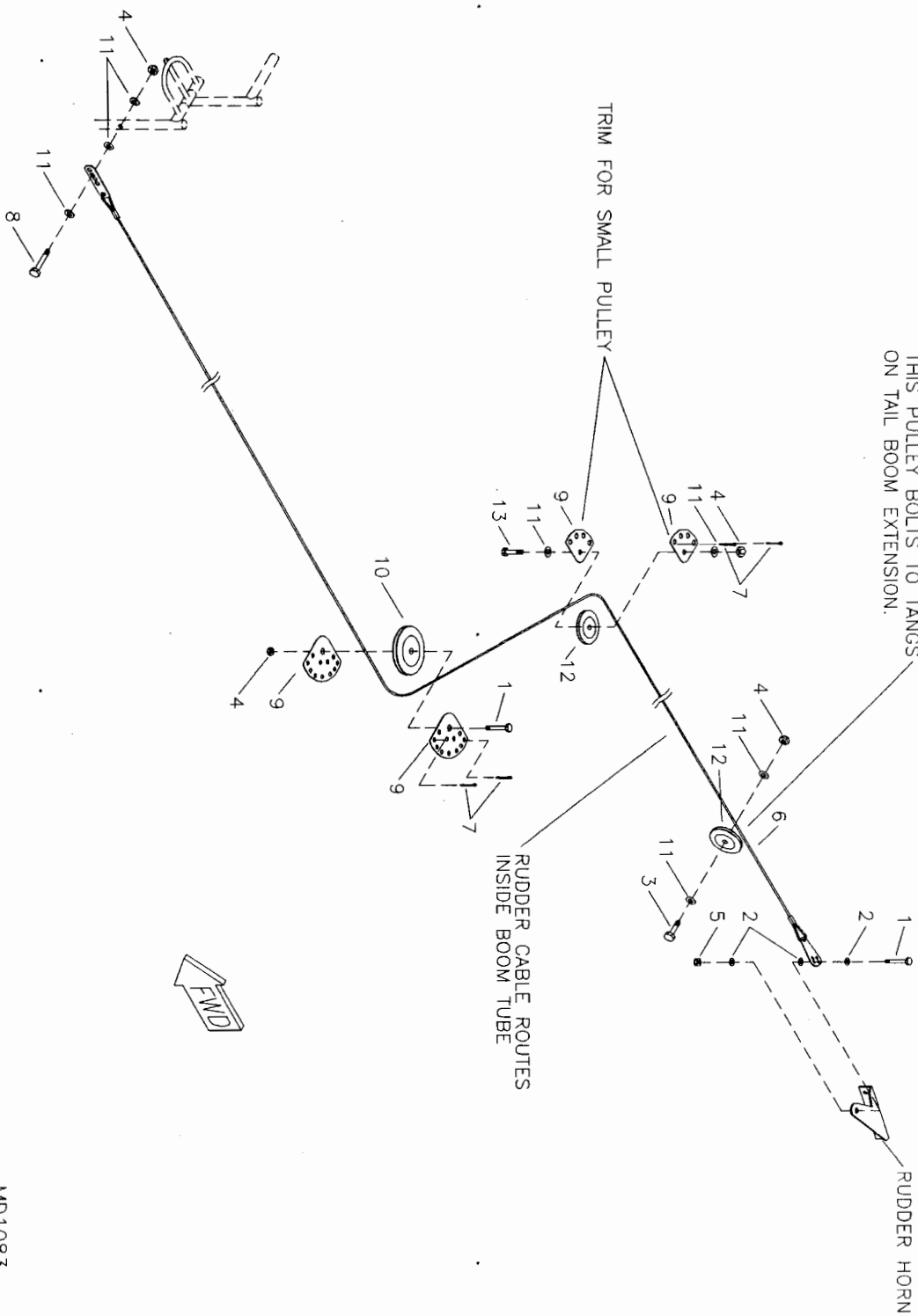
#	DESCRIPTION	PART NUMBER	QUANTITY
1.	1/8" Stainless Steel Pop Rivet - Cherry Q	CCPQ-42	4
2.	Inner Spacer Bushing	3/4X1/2 SLEEVE	4
3.	Left Pedal Assembly	RP-ASSY-L	1
4.	Right Pedal Assembly	RP-ASSY-R	1

THIS PULLEY BOLTS TO TANGS
ON TAIL BOOM EXTENSION.

RUDDER HORN

TRIM FOR SMALL PULLEY

RUDDER CABLE ROUTES
INSIDE BOOM TUBE

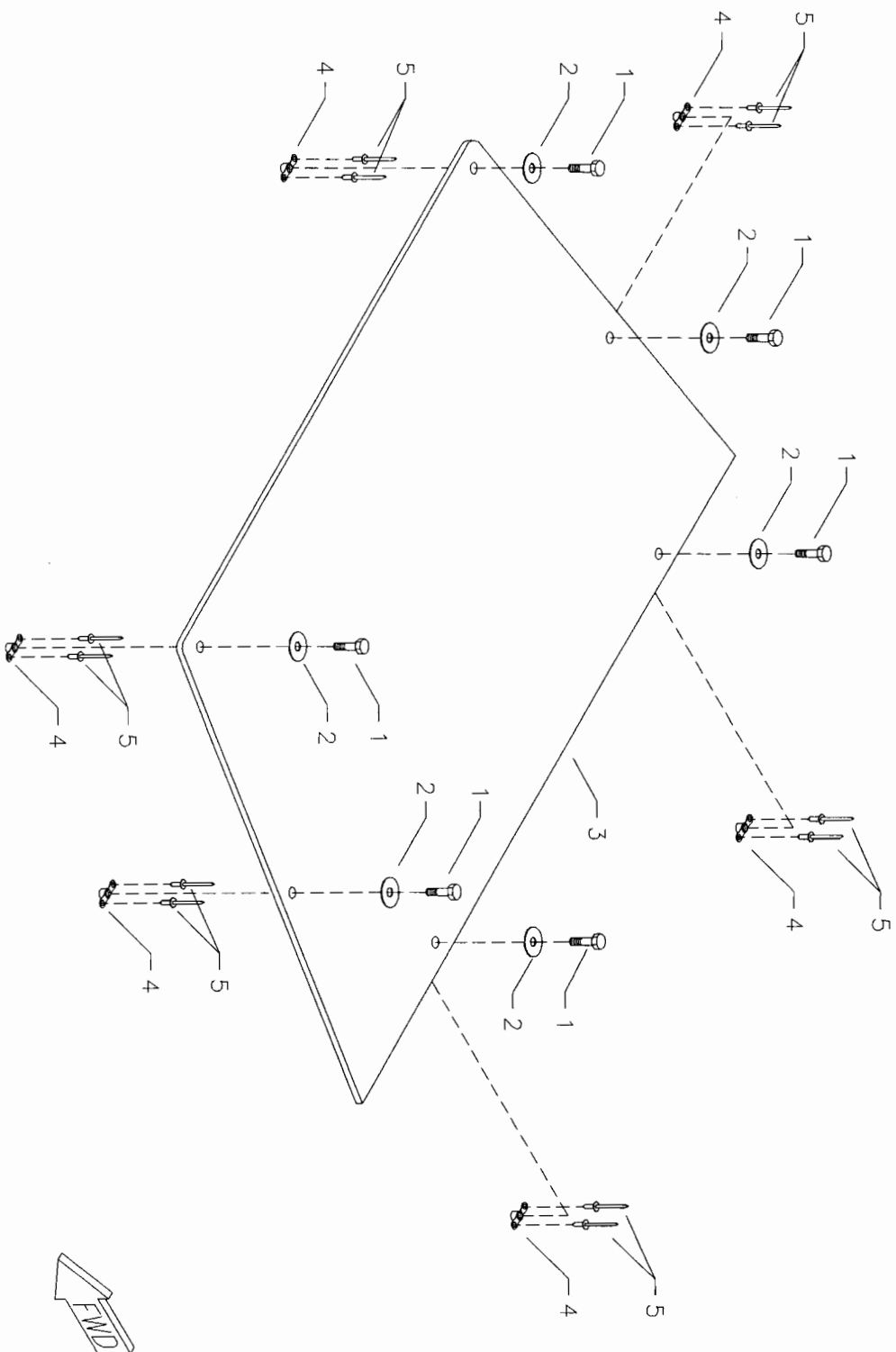


REFUND S-14 AIRAILLE RUDDER CABLE SYSTEM

MD1083

S-14 AIRAILE RUDDER CABLES

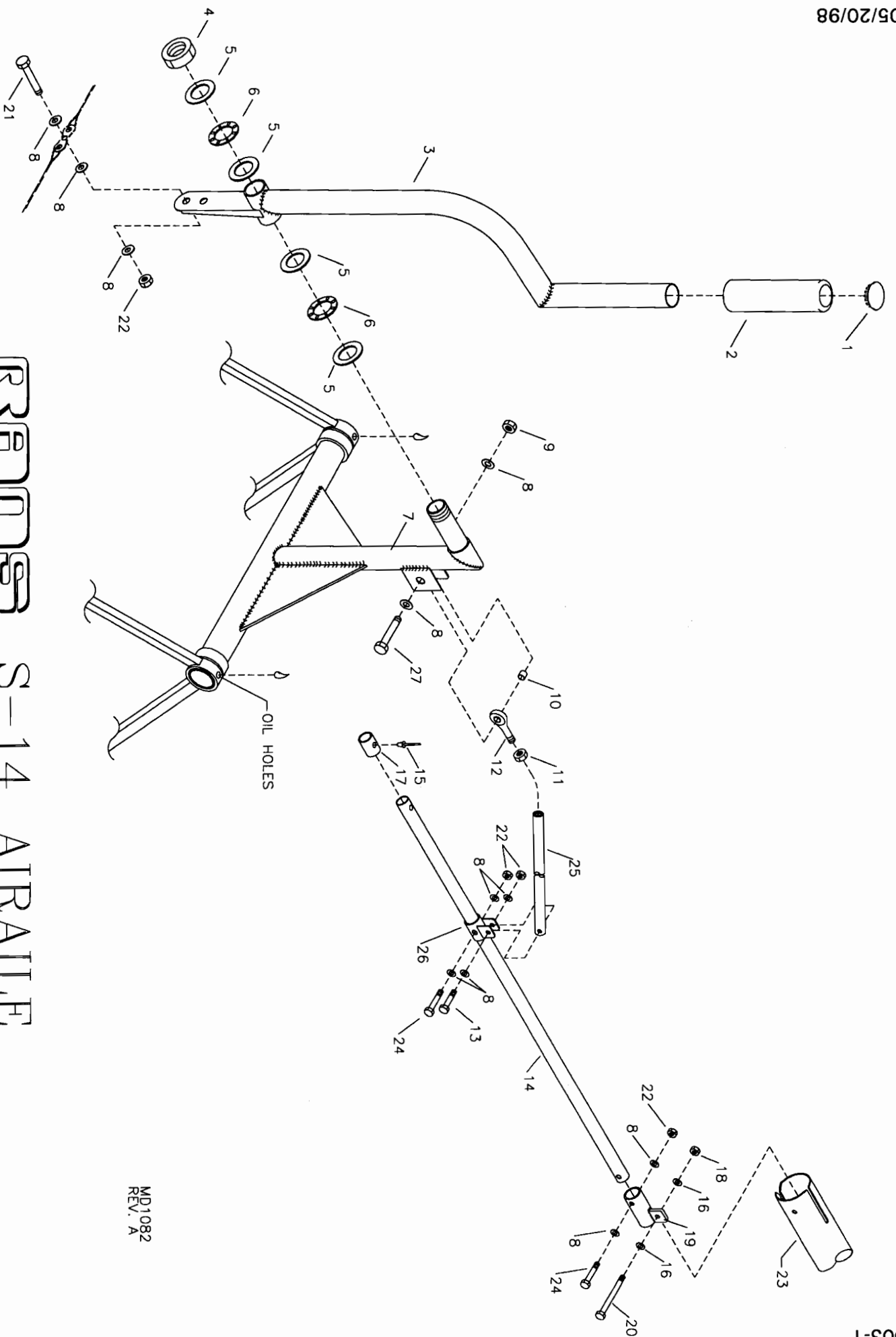
#	DESCRIPTION	PART NUMBER	QUANTITY
1.	3/16" Bolt	AN3-6A	4
2.	3/16" Thick Washer	AN960-10	6
3.	3/16" Bolt	AN3-7A	2
4.	3/16" Shear Nut	AN364-1032A	8
5.	3/16" Tensile Nut	AN365-1032A	2
6.	Rudder Cable (STD)	R-RC-14	2
6.	Rudder Cable (139)	R-CAB-139	2
7.	Small Cotter Pin	MS24665-134	8
8.	3/16" Bolt	AN3-10A	2
9.	Cable Keeper	SP-CK	8
10.	Pulley	AN210-2A	2
11.	3/16" Thin Washer	AN960-10L	14
12.	Small Pulley	AN210-1A	4
13.	3/16" Bolt	AN3-11A	2



REFINING S-14 AIRALLE FLOORBOARD ASSEMBLY

S-14 AIRAILE - FLOORBOARD

#	DESCRIPTION	PART NUMBER	QUANTITY
1.	3/16" Bolt	AN3-5A	6
2.	3/16" Large Wood Washer	AN970-3	6
3.	Floorboard	FB-FB(14)	1
4.	3/16" Nut Plate	K-1000-3	6
5.	3/32" Aluminum Pop Rivet	40APR1/8	12



RRAMES S-14 AIRAILE CONTROL STICK

S-14 AIRAILE - CONTROL STICK

#	DESCRIPTION	PART NUMBER	QUANTITY
1.	7/8" End Cap	CS-EC	1
2.	Control Stick Grip	CS-G	1
3.	Control Stick	CS-CS14	1
4.	3/4" Nyloc Nut	CS-3/4LOCNUT	1
5.	Bearing Washer	CS-BW	4
6.	Thrust Bearing	CS-TB	2
7.	Control Stick Pivot **	-----	0
8.	3/16" Thin Washer	AN960-10L	11
9.	3/16" Shear Acorn Nut	22NKM02	1
10.	Spacer Bushing, 1/4" x 3/8" *	SB-1/4X3/8	1
11.	1/4" Plain Nut	AN345-416	1
12.	Male Rod End, 1/4" x 1/4"	NM-4	1
13.	3/16" Bolt	AN3-7A	1
14.	5/8" Push Pull Tube	KPCS0026	1
15.	1/8" Stainless Steel Pop Rivet - Cherry Q	CCPQ-42	1
16.	1/4" Thick Washer	AN960-416	2
17.	Elevator Stop Sleeve	CS-ESS	1
18.	1/4" Shear Nut	AN364-428A	1
19.	5/8" PPT End Fitting	CS-5/8PPT-EF	1
20.	1/4" Bolt	AN4-15A	1
21.	3/16" Bolt	AN3-4A	1
22.	3/16" Shear Nut	AN364-1032A	4
23.	See Tail Group	-----	0
24.	3/16" Bolt	AN3-10A	2
25.	Control Stick Link Tube	KPCS0027	1
26.	Link Tube Attach Bracket	KPCS0006	1
27.	3/16" Bolt	AN3-6A	1

*Builder must fabricate from raw stock.

**Referenced, built into frame.

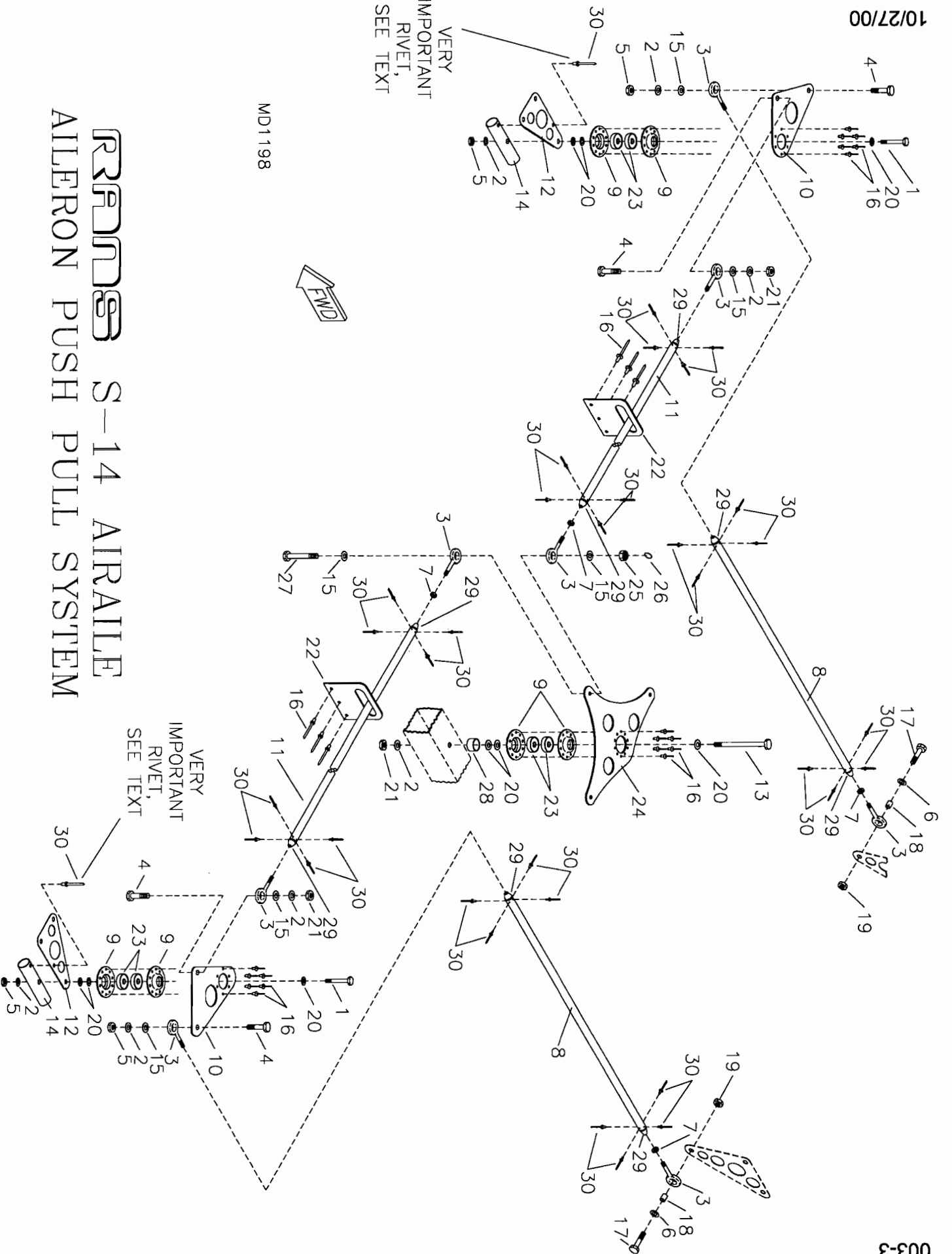
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VERY
IMPORTANT
RIVET,
SEE TEXT

MD1198



RRR S-14 AIRRAILE AILERON PUSH PULL SYSTEM



S-14 AIRAILE - AILERON PUSH PULL SYSTEM

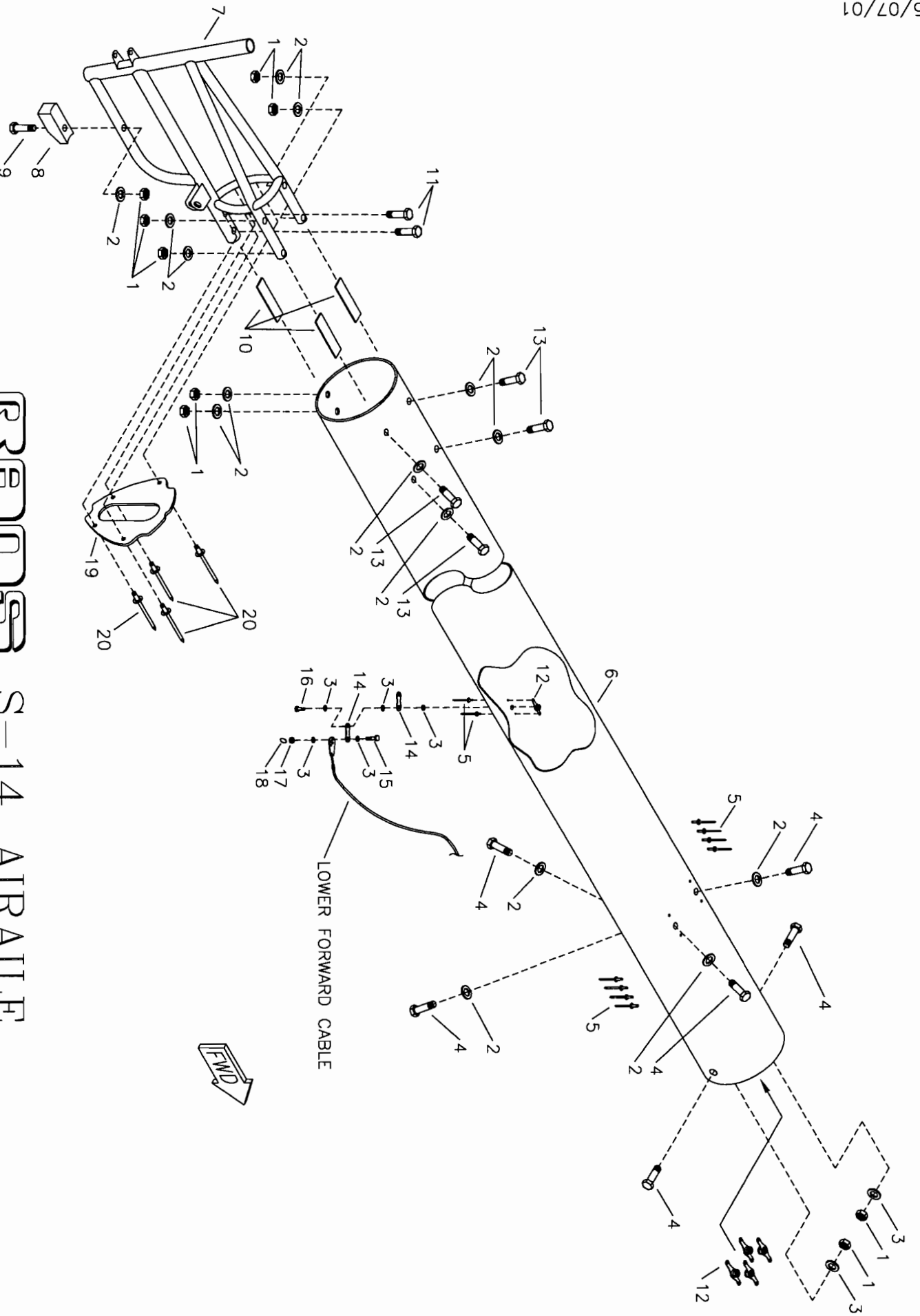
#	DESCRIPTION	PART NUMBER	QUANTITY
1.	1/4" Bolt	AN4-22A	2
2.	1/4" Thin Washer	AN960-416L	5
3.	Male Rod End, 1/4" x 1/4"	NM-4	8
4.	1/4" Bolt	AN4-7A	4
5.	1/4" Shear Nut	AN364-428A	4
6.	3/16" Plastic Washer	PW-3	2
7.	1/4" Plain Nut	AN345-416	4
8.	Aileron Push Pull Tube, 27 5/8" (STD)	CS-27 5/8PPT	2
8.	Aileron Push Pull Tube, 37 7/8" (139)	CS-37 7/8PPT/S6ES	2
9.	Bearing Flange	BR-FLNG	6
10.	Bell Crank	AIL-2/1BC	2
11.	Aileron Push Pull Tube, 87 7/8" (STD)	CS-PPT-87 7/8	2
11.	Aileron Push Pull Tube, 109" (139)	CS-109PPT-139	2
12.	Bell Crank Gusset, LH	CS-BELGU-LH	1
12.	Bell Crank Gusset, RH	CS-BELGU-RH	1
13.	1/4" Bolt	AN4-37A	1
14.	Compression Tube Doubler	CS-CTD	2
15.	1/4" Plastic Washer	PW-4	6
16.	1/8" Aluminum Pop Rivet - Cherry Q	AAPQ-44	24
17.	3/16" Bolt	AN3-7A	2
18.	Spacer Bushing, 1/4" x 3/8" *	SB-1/4X3/8	2
19.	3/16" Shear Acorn Nut	22NKM02	2
20.	1/4" Thick Washer	AN960-416	9
21.	1/4" Shear Acorn Nut	52NKTE-048	3
22.	Push Pull Tube Guide	KPCS0150	2
23.	Bearing	SR4APP	6
24.	Control Stick Tee	CS-TEE14	1
25.	1/4" Castle Nut	AN310-4	1
26.	Loc Ring	RL 27 1/4	1
27.	1/4" Bolt	AN4-13	1
28.	Stand Off, 3/4" x 3/4"	SO-3/4X3/4	1
29.	Push Pull Tube End Fitting	CS-3/4PTEF	8
30.	1/8" Stainless Steel Pop Rivet - Cherry Q	CCPQ-42	34

*Fabricate from 1/4" X .035 aluminum tube.



S-14 AIRAILE - AILERON CABLES

#	DESCRIPTION	PART NUMBER	QUANTITY
1.	Pulley	AN210-2A	6
2.	Turnbuckle (With Pins & Loc Rings)	RL-335-AT	2
3.	Aileron Cable	AIL-CAB-14	1
4.	3/16" Bolt	AN3-6A	6
5.	3/16" Bolt	AN3-7A	4
6.	3/16" Bolt	AN3-24A	1
7.	3/16" Bolt	AN3-3A	4
8.	Hummertang	T12-HT6	8
9.	Shackle	RL-205-T	10
10.	3/16" Clevis Pin	MS20392-2C17	4
11.	Loc Ring	RL 27 1/4	4
12.	3/16" Shear Nut	AN364-1032A	17
13.	Pulley Assembly	PULLEY-ASSY	4
14.	Pulley Assembly	PULLEY-ASSY	4
15.	Large Cotter Pin	MS24665-285	4
16.	Small Pulley Cable Keeper	SP-CK	4



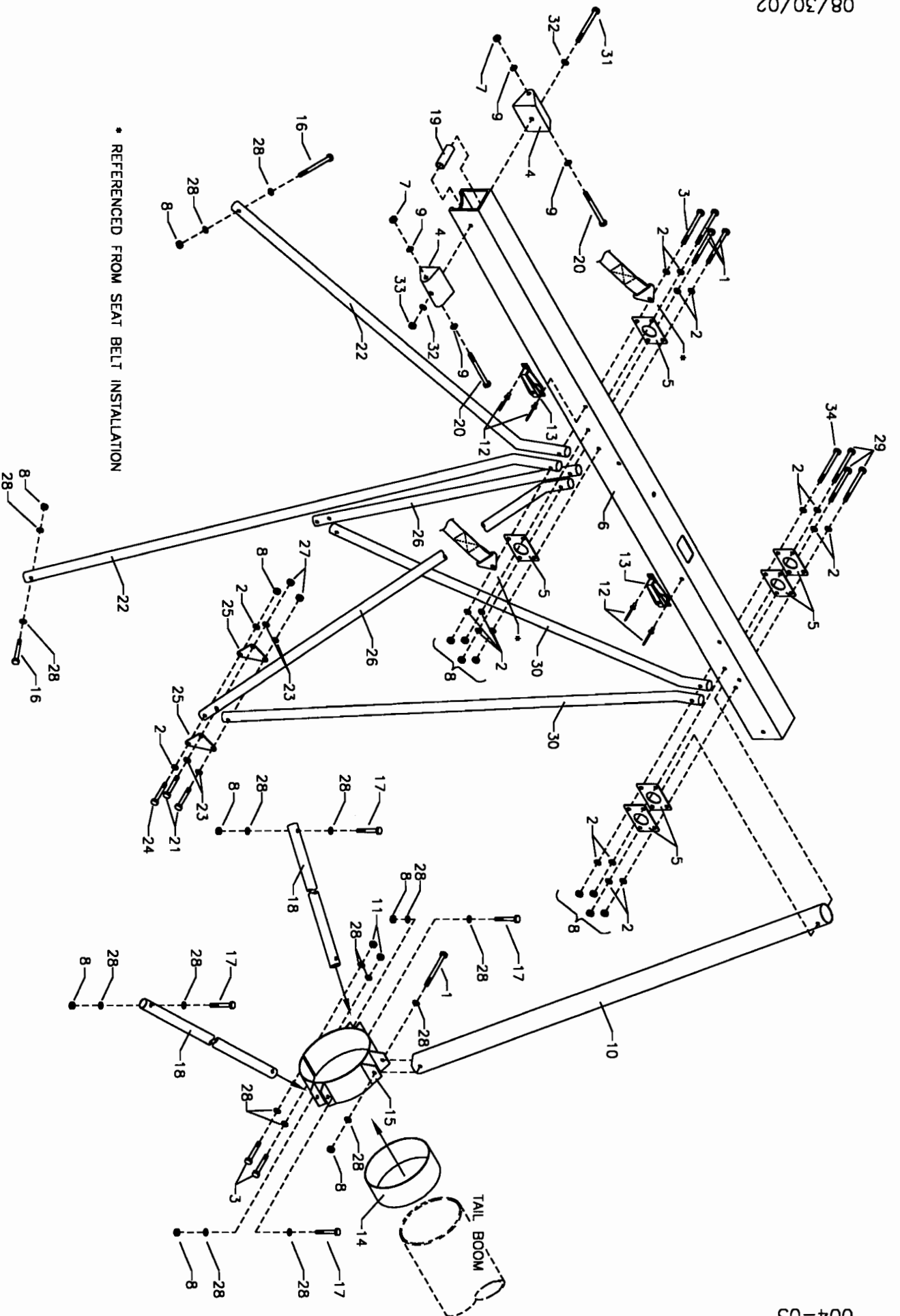
R380S-14 AIRFRAME TAIL BOOM ASSEMBLY

S-14 AIRAILE - TAIL BOOM

#	DESCRIPTION	PART NUMBER	QUANTITY
1.	3/16" Shear Nut	AN364-1032A	9
2.	3/16" Thin Washer	AN960-10L	15
3.	3/16" Thick Washer	AN960-10	2
4.	3/16" Bolt	AN3-4A	6
5.	3/32" Aluminum Pop Rivet	40APR1/8	8
6.	Tail Boom, 14 (STD) *	TB-TB14/STD116	1
6.	Tail Boom (139)	TB-TB14/139	1
7.	Tail Boom Extension	TB-EXT	1
8.	Skid Block	TB-SB	1
9.	3/16" Bolt	AN3-20A	1
10.	Lexan Strips, 1" x 3" **	TB-LS-1X3	3
11.	3/16" Bolt	AN3-12A	2
12.	3/16" Nut Plate	K-1000-3	4
13.	3/16" Bolt	AN3-10A	4
14.	Hummertang	T12-HT6	2
15.	3/16" Bolt	AN3-5	2
16.	3/16" Bolt	AN3-7A	1
17.	3/16" Castle Nut	AN310-3	2
18.	Loc Ring	RL 27 1/4	2
19.	Elevator Push Pull Tube Guide	KPFU0329	1
20.	1/8" Stainless Steel Pop Rivet - Cherry Q	CCPQ-44	4

*Long boom in used on 31' span wing.

**Fabricate by cutting from plastic strip. See Super Structure.



RRR S-14 AIRAILLE **SUPER STRUCTURE**

S-14 AIRAILE - SUPER STRUCTURE

PAGE 004-4

Note: Super structure is pre-assembled, except designated items.

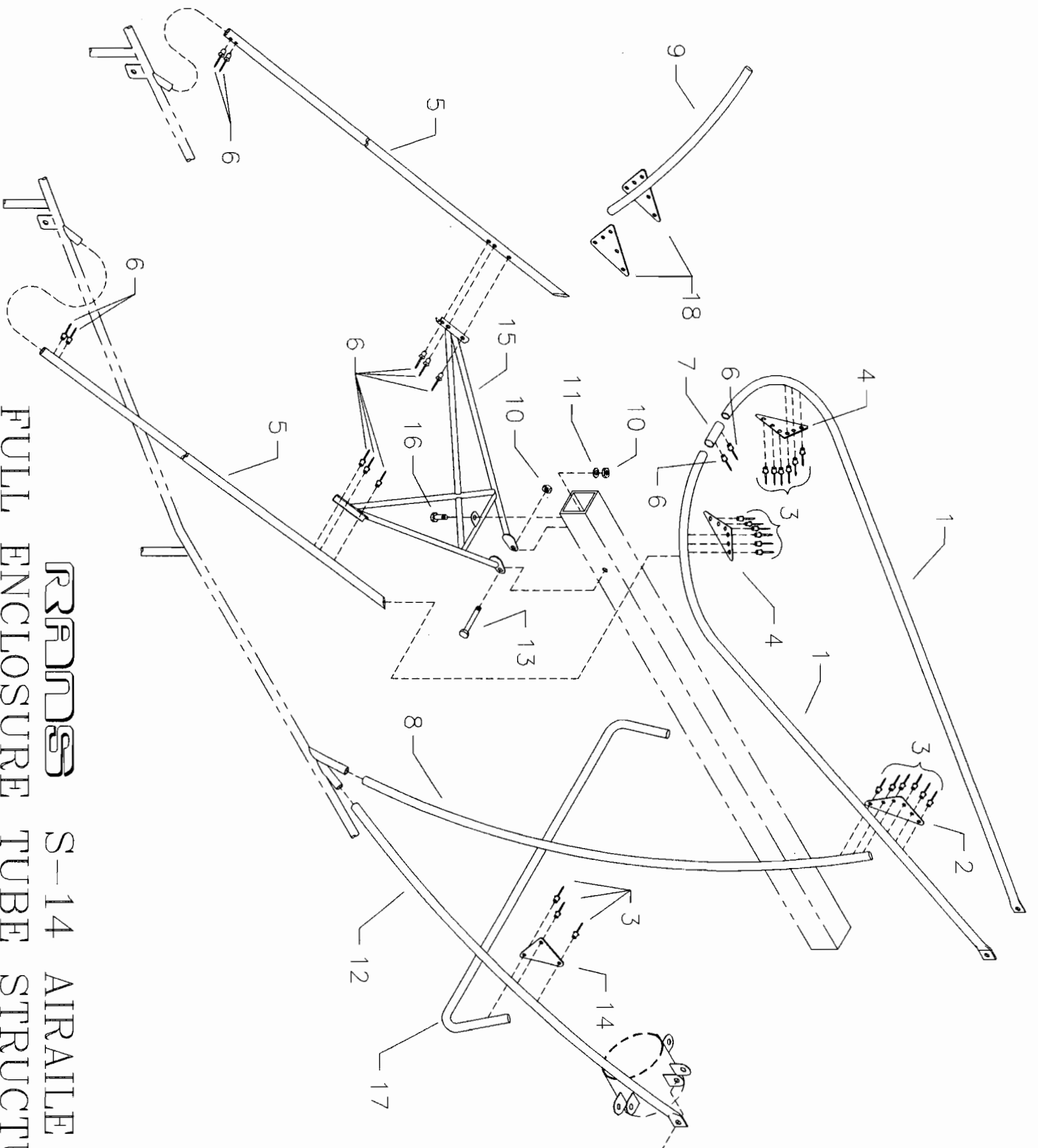
#	DESCRIPTION	PART NUMBER	QUANTITY
1.	1/4" Bolt	AN4-26A	4
2.	1/4" Thick Washer	AN960-416	22
3.	1/4" Bolt	AN4-27A	3
4.	Bracket	W-BRKT	2
5.	Keel Plate	K-KP	6
6.	Keel	SS-KEEL	1
7.	5/16" Tensile Nut ***	AN365-524A	2
8.	1/4" Shear Nut	AN364-428A	19
9.	5/16" Thick Washer ***	AN960-516	4
10.	2" AFT Strut	SS-AFT-S2	1
11.	1/4" Tensile Nut	AN365-428A	2
12.	3/16" SS Pop Rivet-Cherry Q (-4 Elect Start) **, ***	CCPQ-64	4
13.	Starter Pulley (-2 Elect Start) **, ***	109	2
14.	Plastic Strip, 3" x 18" x .020 *, ***	K-PS	1
15.	Tail Boom Bracket	SS-TBB	1
16.	1/4" Bolt	AN4-15A	4
17.	1/4" Bolt	AN4-14A	2
18.	Lower Tail Brace	SS-LTB	2
19.	Anti-Crush Bushing ***	W-ANTI-CB-1 3/4	1
20.	5/16" Bolt ***	AN5-34A	2
21.	3/16" Bolt	AN3-15A	4
22.	Forward Cabane	SS-FWD-CAB	2
23.	3/16" Thin Washer	AN960-10L	6
24.	1/4" Bolt	AN4-17A	2
25.	Triangle Plate	AUF-13	4
26.	Middle Cabane	SS-MID-CAB	2
27.	3/16" Shear Nut	AN364-1032A	3
28.	1/4" Thin Washer	AN960-416L	22
29.	1/4" Bolt	AN4-30A	3
30.	AFT Cabane	SS-AFT-CAB	2
31.	1/4" Bolt ***	AN4-26A	1
32.	1/4" Thick Washer ***	AN960-416	2
33.	1/4" Tensile Nut ***	AN365-428A	1
34.	1/4" Bolt	AN4-31A	1

PLEASE NOTE: (3) 1" X 3" strips are cut from this for the tail boom. See tail boom.

**Delete with electric starter option.

***Builder installed.

8/30/02

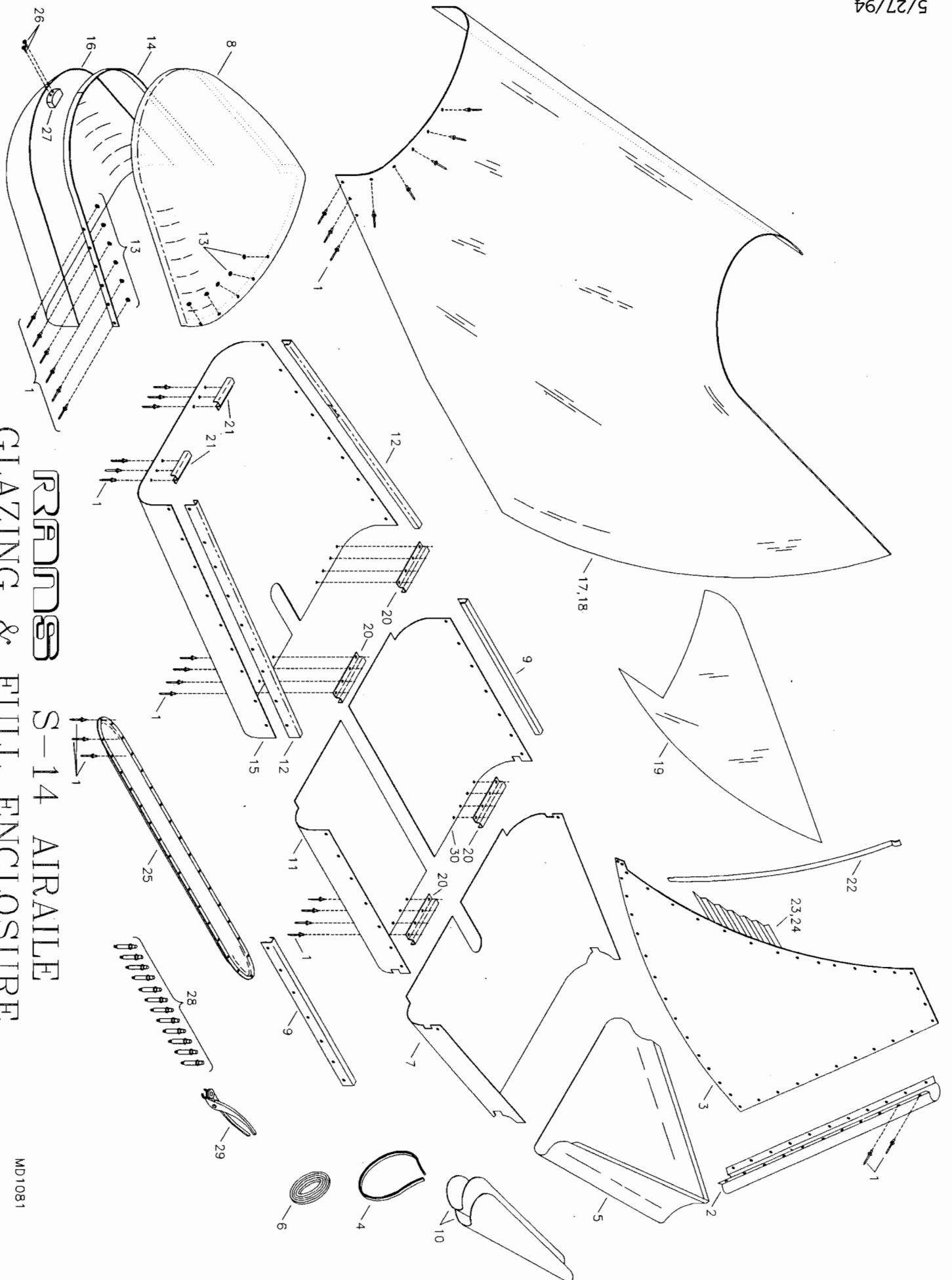


MD233

RRRMD S-14 AIRAILE FULL ENCLOSURE TUBE STRUCTURE

S-14 AIRAILE - FULL ENCLOSURE TUBE STRUCTURE

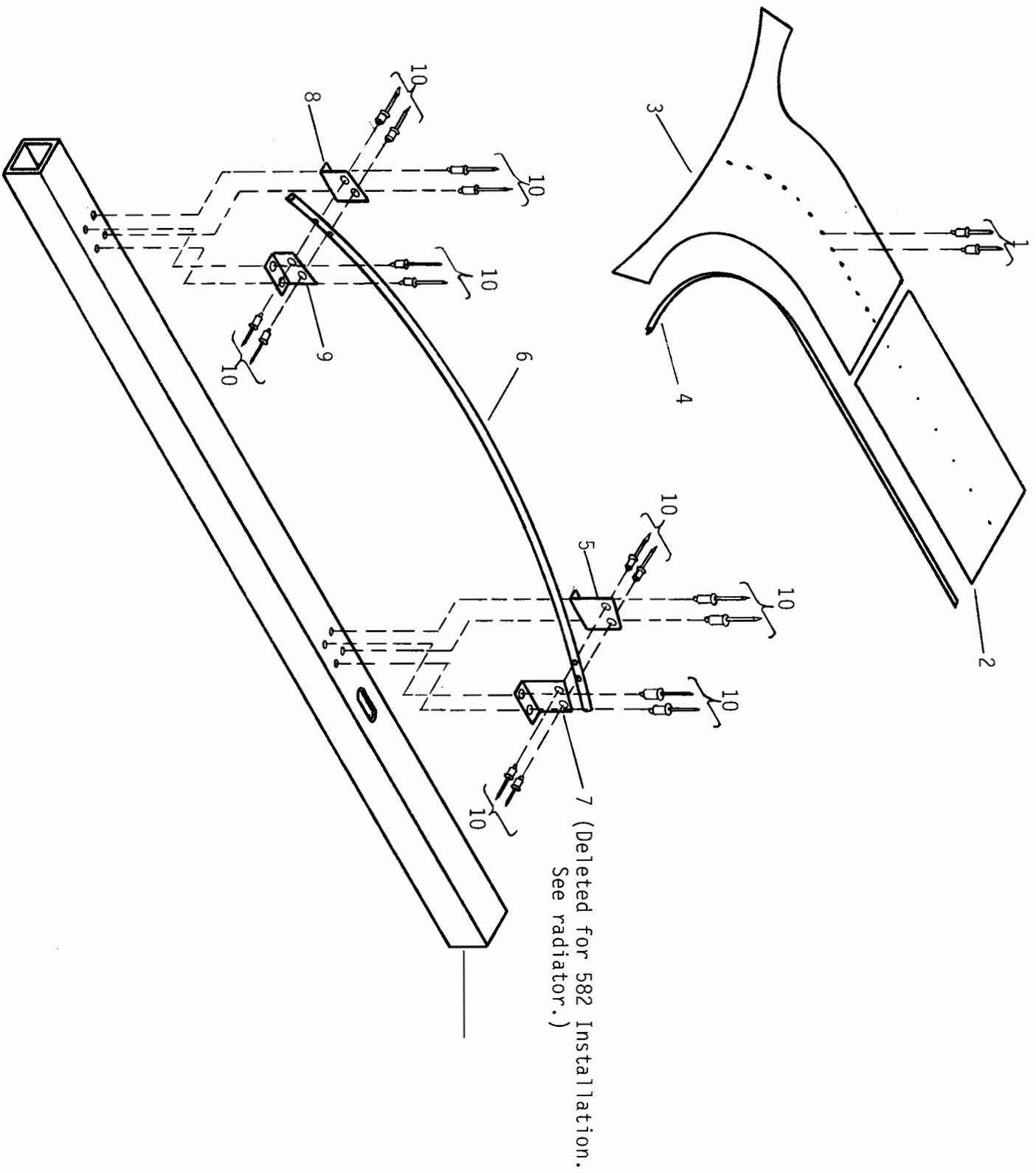
#	DESCRIPTION	PART NUMBER	QUANTITY
1.	Windshield Top Former	PP-WSTF-14	2
2.	Window Former Top Former Gusset	FE-WF-TF-GUS	2
3.	1/8" Aluminum Pop Rivet - Cherry Q	AAPQ-42	30
4.	Side Former Top Former Gusset	FE-SF-TF-GUS	2
5.	Windshield Side Tube	FE-WSST-A	2
6.	1/8" Stainless Steel Pop Rivet - Cherry Q	CCPQ-42	12
7.	Splice, 7/8" X 1 1/2"	PP-SPLICE-14	1
8.	Window Former	FE-WF-14	2
9.	Door Former	FE-DF-14	1
10.	3/16" Shear Nut	AN364-1032A	2
11.	3/16" Thick Washer	AN960-10	1
12.	Bottom Former	FE-BF-14	2
13.	3/16" Bolt	AN3-24A	1
14.	1/8" Joggle Gusset	FE-1/8TOG-GUS	2
15.	Forward Keel Support	SS-FKS	1
16.	3/16" Bolt	AN3-4A	1
17.	5/8" Belly Pan Former	FE-5/8BPF	1
18.	Frame Gusset	FE-DF-GUS	2



RPD S-14 AIRAIL
GLAZING & FULL ENCLOSURE

S-14 AIRAILE - GLAZING AND FULL ENCLOSURE

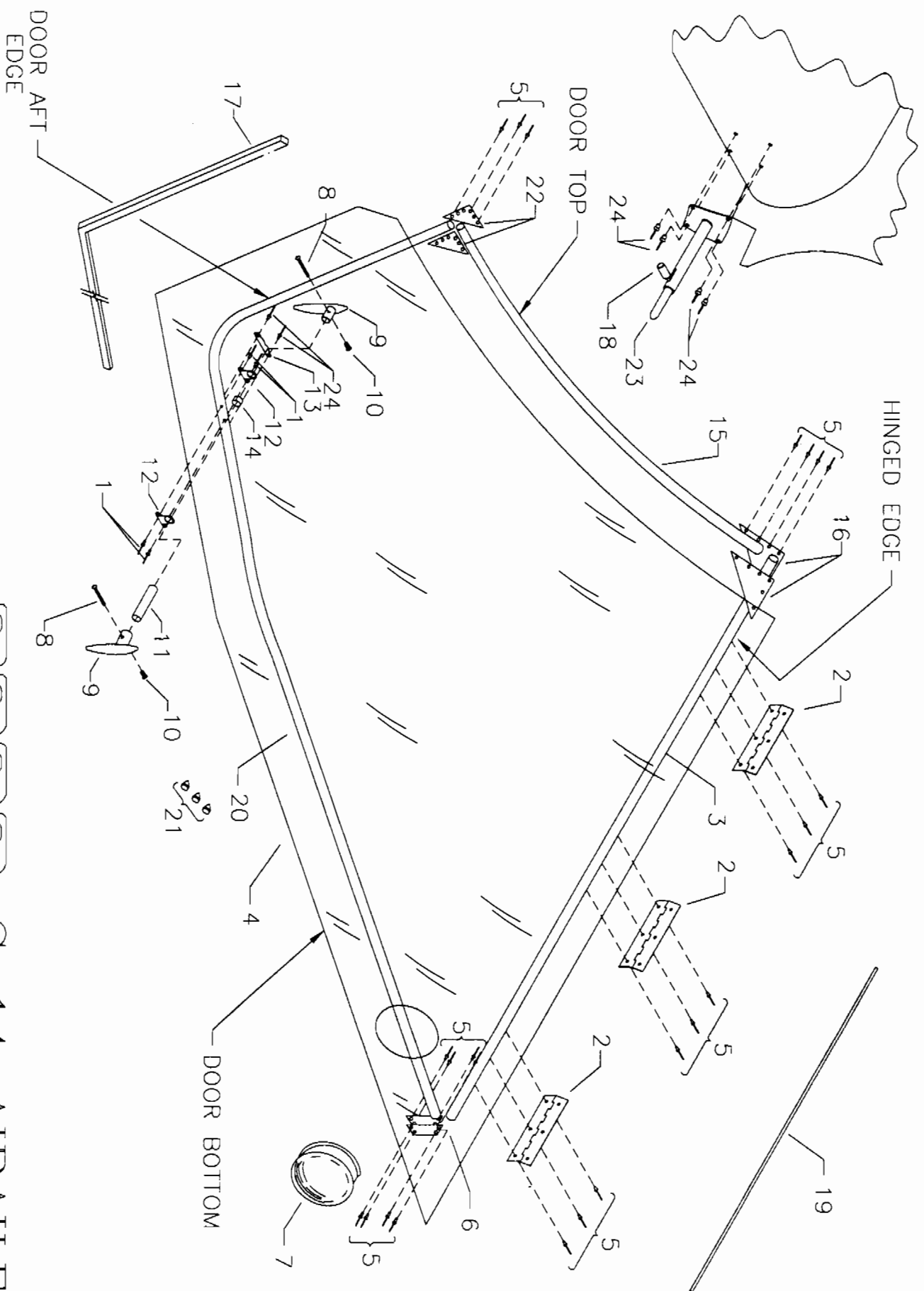
#	DESCRIPTION	PART NUMBER	QUANTITY
1.	1/8" Aluminum Pop Rivet - Cherry Q	AAPQ-42	435
2.	AFT Closure	FE-AC	1
3.	Upper Rear Panel	FE-URP	2
4.	Rubber Edging	X1011	18 in
5.	#4 Belly Pan	FE-BPAN4	1
6.	1/4" Seamstick Tape	1/4-SEAMSTICK TAPE	1 rls
7.	#3 Belly Pan	KPFU0007	1
8.	Nose Cone Top	FE-NCTOP	1
9.	#2 Belly Pan Top Channel	PP-#2TOPC	2
10.	Belly Pan Cuff	FE-CUFF	2
11.	#2 Belly Pan, LH	KPFU0006-L	1
12.	#1 Belly Pan Top Channel	PP-#1TOPC	2
13.	1/8" Small Brass Washer	AN960-B4	34
14.	Nose Cone Matting Strip	PP-NCMS	2
15.	#1 Belly Pan	KPFU0005	1
16.	Nose Cone Bottom	PP-NCBOT	1
17.	Windshield (Clear)(-1 Tinted)	FE-WSHLD (CLEAR)	1
18.	Windshield (Tinted)(-1 Clear)	FE-WSHLD (TINT)	1
19.	Window Lexan	FE-WLEXAN	1
20.	8" Z Strip	PP-8Z	4
21.	5" Z Strip	PP-5Z	2
22.	Upper Panel Stabilizer Tube	FE-UPST	2
23.	Upper Panel Soundproofing, LH	FE-UPSP-LH	1
24.	Upper Panel Soundproofing, RH	FE-UPSP-RH	1
25.	Belly Pan Cover	KPFU0009	1
26.	#8 Stainless Steel Pan Head Screw	8X1/2 PHS	2
27.	Pitot Mount Block	IP-PMB	1
28.	#30 Copper Clecos	#30CLECOS	12
29.	Cleco Pliers	CLECO PLIERS	1
30.	#2 Belly Pan, RH	KPFU0006-R	1



S-14 AIRRAIL CENTER COVER

S-14 AIRAILE - CENTER COVER

#	DESCRIPTION	PART NUMBER	QUANTITY
1.	1/8" Aluminum Pop Rivet - Cherry Q	AAPQ-42	44
2.	AFT Center Cover	CC-CC-AFT	1
3.	Forward Center Cover	CC-CC-FWD	1
4.	Rubber Edging	X1011	96 in
5.	AFT Angle, RH	CC-AA-RH	1
6.	Center Rib	CC-CR	1
7.	AFT Angle, LH	CC-AA-LH	1
8.	Forward Angle, RH	CC-FA-RH	1
9.	Forward Angle, LH	CC-FA-LH	1
10.	1/8" Stainless Steel Pop Rivet - Cherry Q	CCPQ-42	16
11.	1/8" Small Brass Washer	AN960-B4	7



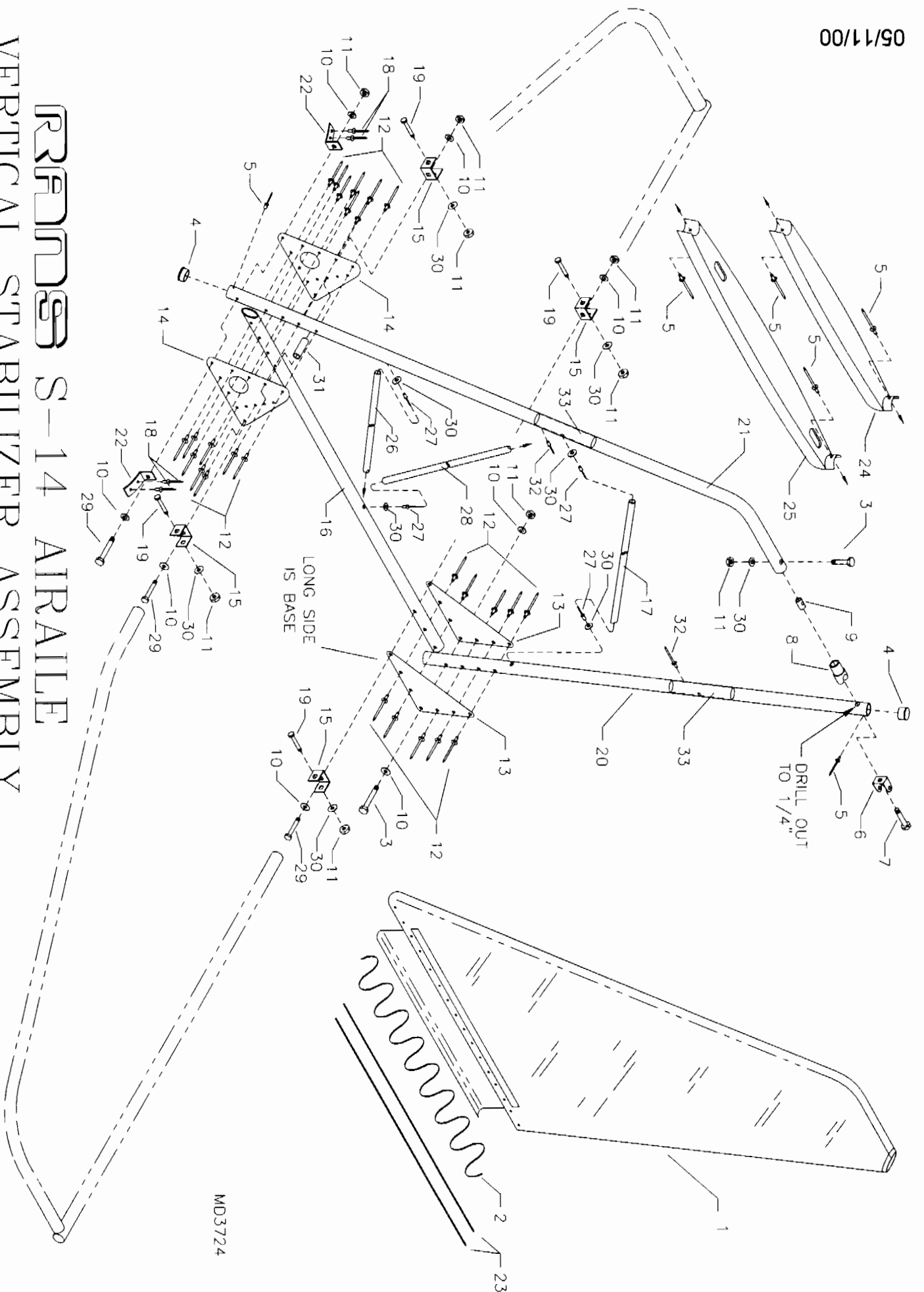
MD234

RRMD S-14 AIRAILLE DOOR ASSEMBLY

S-14 AIRAILE - DOOR

#	DESCRIPTION	PART NUMBER	QUANTITY
1.	1/8" Stainless Steel Pop Rivet - Cherry Q	CCPQ-42	22
2.	Piano Hinge	D-HINGE-18	18 in
3.	Door Frame Hinge Tube	D-HT	1
4.	Lexan	D-LEX-C	1
5.	1/8" Aluminum Pop Rivet - Cherry Q	AAPQ-42	50
6.	Forward Corner Gusset	D-FS	1
7.	Air Vent	AIR-VENT	2
8.	Button Head Screw	KSHW0024	2
9.	Door Handle	KPDR0026	2
10.	Flange Nut	KSHW0025	2
11.	Aluminum Bushing, 3/8" x .058 x 2" *	TD-ANTI-CB	1
12.	Door Handle Gusset	D-DHG	2
13.	Door Rub Block	D-RB	1
14.	Aluminum Bushing, 1/2" x .058 x 5/8"	SB-1/2X5/8	1
15.	Door Upper Frame Tube	D-UFT	1
16.	Gusset	D-CG	2
17.	Foam Strip, 3/16" x 3/8" x 8'	D-FS-3/16	8 ft
18.	Door Up Catch Knob	D-UCK	1
19.	1/8" Stainless Steel Wire Hinge Pin	D-HP	18 in
20.	Door Lower Frame Tube	D-LFT	1
21.	Door Bumper	9K13-DRBUMP	3
22.	Side Former Top Former Gusset	FE-SF-TF-GUS	2
23.	Door Up Catch	S-14-DUC	1
24.	1/8" Stainless Steel Pop Rivet - Cherry Q	CCPQ-45	4

*Builder must fabricate from raw stock.



S-14 AIRAILE - VERTICAL STABILIZER ASSEMBLY

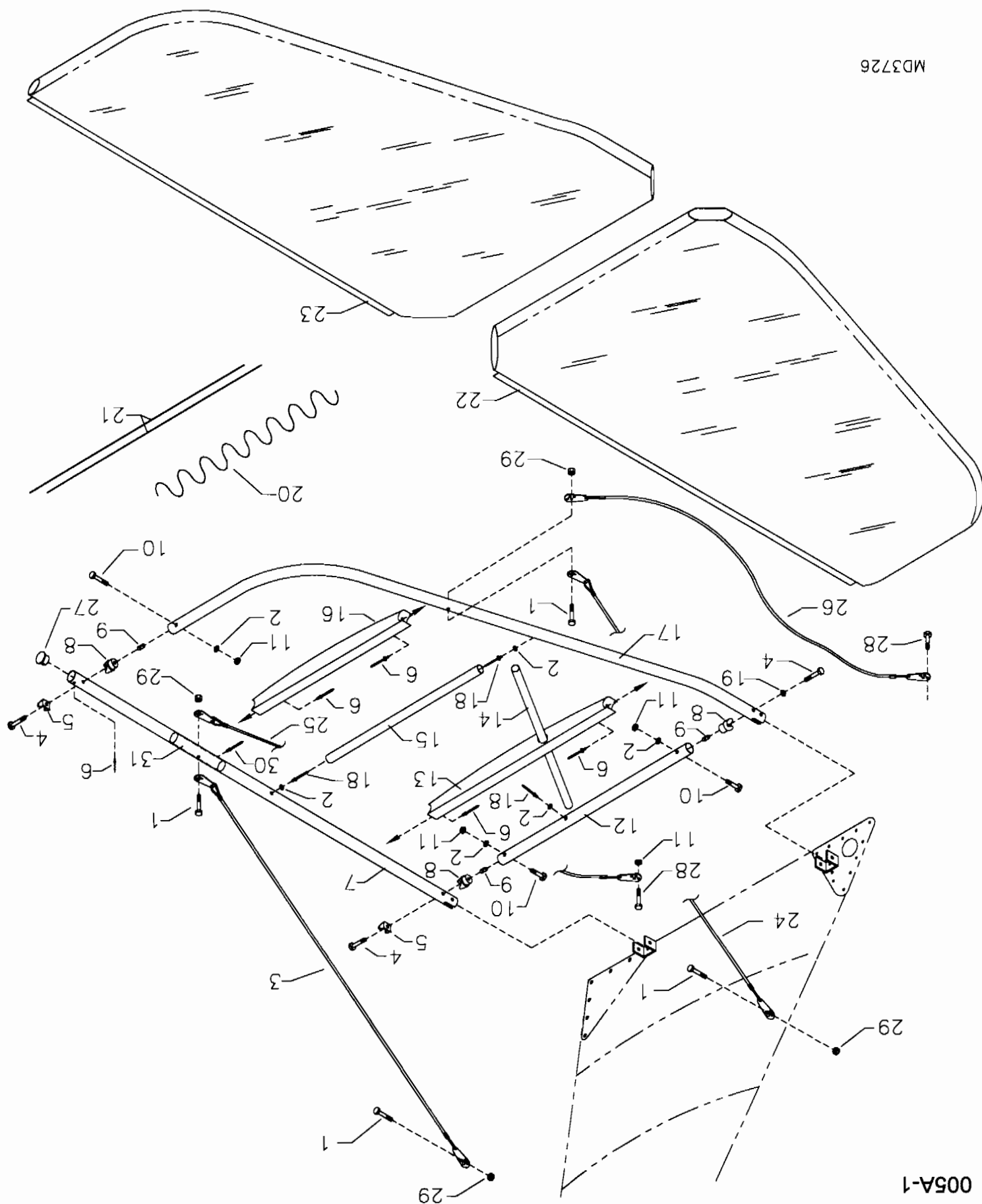
#	DESCRIPTION	PART NUMBER	QUANTITY
1.	Vertical Stabilizer Skin	KPCV0030	1
2.	1/8" Lacing Rope	TG-ROPE	1 ft
3.	3/16" Bolt	AN3-13A	2
4.	1" End Cap	1 CAP	2
5.	3/32" Aluminum Pop Rivet	40APR1/8	6
6.	Stainless Steel Hinge	W-HB	1
7.	1/4" Bolt	AN4-15A	1
8.	1" Compression Tube Fitting	TC-1	1
9.	3/16" Insert Nut	I-NUT	1
10.	3/16" Thin Washer	AN960-10L	8
11.	3/16" Shear Nut	AN364-1032A	9
12.	1/8" Stainless Steel Pop Rivet - Cherry Q	CCPQ-42	26
13.	AFT Gusset, Vertical Stabilizer	KPVS0045	2
14.	FWD Gusset, Vertical Stabilizer	KPVS0046	2
15.	Horizontal Stabilizer Attach Bracket	S2-SAB	4
16.	Vertical Stabilizer Spreader Tube	KPVS0047	1
17.	Upper Brace *	KAAC0018-1	0
18.	3/16" Stainless Steel Pop Rivet - Cherry Q	CCPQ-64	4
19.	3/16" Bolt	AN3-14A	4
20.	Vertical Stabilizer Spar	KPVS0049	1
21.	Vertical Stabilizer Leading Edge	KPVS0050	1
22.	Horizontal Stabilizer Boom Strap	TG-HSBS	2
23.	Lacing Wires, 36" x 1/8"	TG-LW	2
24.	Upper Rib	KPVS0009(14)	1
25.	Lower Rib	KPVS0010(14)	1
26.	Lower Brace *	KAAC0018-1	0
27.	3/16" Aluminum Pop Rivet - Cherry Q	AAPQ-62	4
28.	Vertical Brace *	KAAC0018-1	0
29.	3/16" Bolt	AN3-16A	3
30.	3/16" Thick Washer	AN960-10	9
31.	Aluminum Bushing, 1/4" x .028 x 1 3/16" *	KAAC0018-2	0
32.	3/32" Aluminum Pop Rivet	40APR1/4	2
33.	Aluminum Doubler, 7/8" x .058 x 5" *	KAAC0018-3	0

*Builder must fabricate from raw stock.

RRMS S-14 AIRAILE HORIZONTAL STABILIZER ASSEMBLY

05/11/00

MD3726



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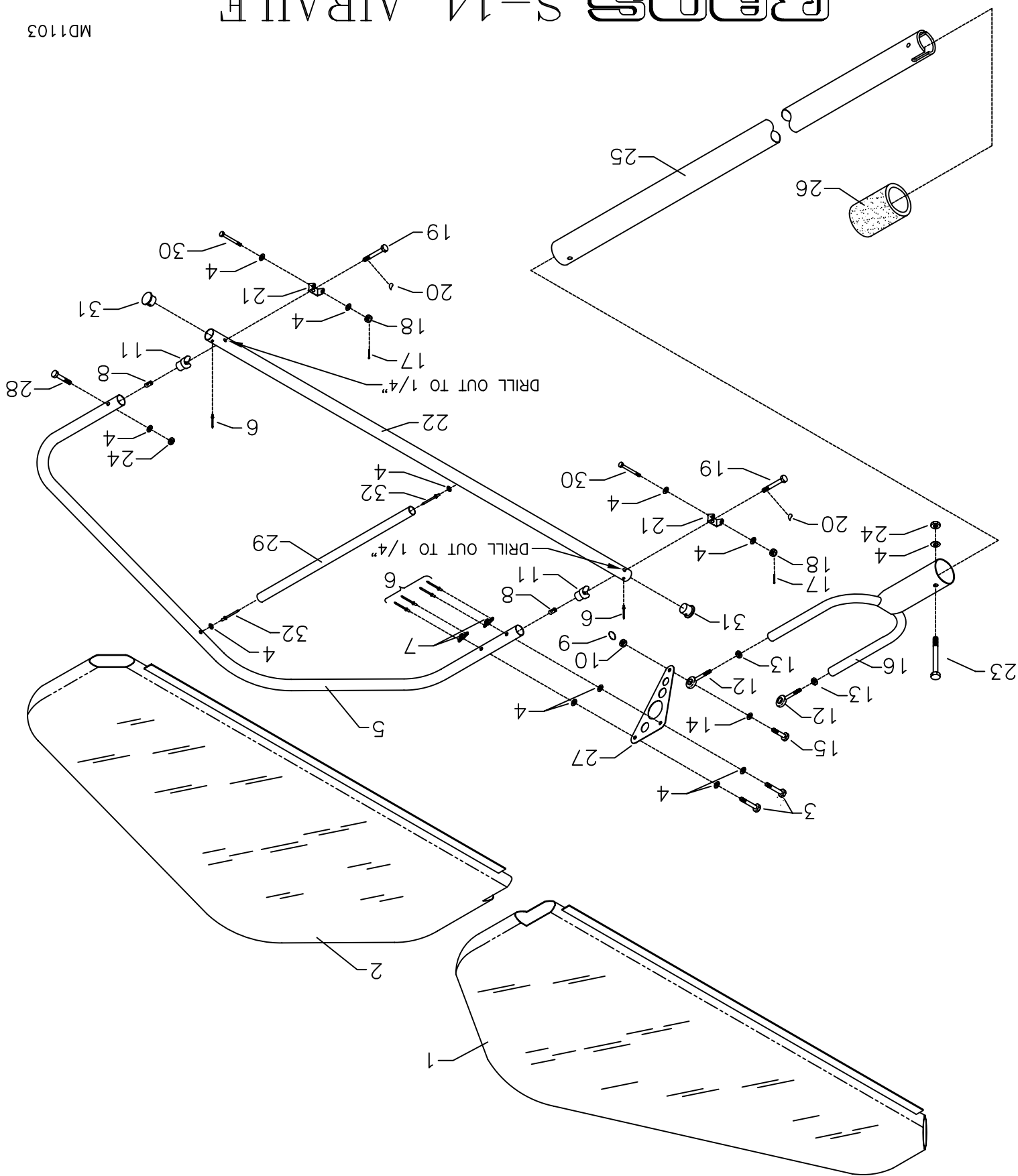
S-14 AIRAILE - HORIZONTAL STABILIZER ASSEMBLY

#	DESCRIPTION	PART NUMBER	QUANTITY
1.	3/16" Bolt	AN3-14A	6
2.	3/16" Thick Washer	AN960-10	12
3.	Top AFT Cable	TG-TAC(14)	2
4.	1/4" Bolt	AN4-15A	6
5.	Stainless Steel Hinge	W-HB	4
6.	3/32" Aluminum Pop Rivet	40APR1/8	10
7.	Horizontal Stabilizer Spar	KPHS0034	2
8.	1" Compression Tube Fitting	TC-1	6
9.	3/16" Insert Nut	I-NUT	6
10.	3/16" Bolt	AN3-13A	6
11.	3/16" Shear Nut	AN364-1032A	7
12.	Horizontal Stabilizer Spreader Tube	TG-HSST-15	2
13.	Inboard Rib, LH	KPHS0005-L(14)	1
13.	Inboard Rib, RH	KPHS0005-R(14)	1
14.	Diagonal Brace *	KAAC0018-1	0
15.	Outer Brace *	KAAC0018-1	0
16.	Outer Rib, LH	KPHS0006-L(14)	1
16.	Outer Rib, RH	KPHS0006-R(14)	1
17.	Horizontal Stabilizer Leading Edge	TG-HSLE-15	2
18.	3/16" Aluminum Pop Rivet - Cherry Q	AAPQ-62	6
19.	1/4" Thick Washer	AN960-416	2
20.	1/8" Lacing Rope	TG-ROPE	24 ft
21.	Lacing Wires, 36" x 1/8"	TG-LW	4
22.	Horizontal Stabilizer Skin, RH	TG-HSSKIN-R-15	1
23.	Horizontal Stabilizer Skin, LH	TG-HSSKIN-L-15	1
24.	Top Forward Cable	KAHS0023	2
25.	Lower AFT Cable	KAHS0021	2
26.	Lower Forward Cable	KAHS0022	2
27.	1" End Cap	1 CAP	2
28.	3/16" Bolt	AN3-4A	2
29.	3/16" Tensile Nut	AN365-1032A	6
30.	3/32" Aluminum Pop Rivet	40APR1/4	2
31.	Aluminum Doubler, 7/8" x .058 x 5" *	KAAC0018-3	0

*Builder must fabricate from raw stock.

RMS S-14 AIRAILE ELEVATOR ASSEMBLY

MD1103



S-14 AIRAILE - ELEVATOR

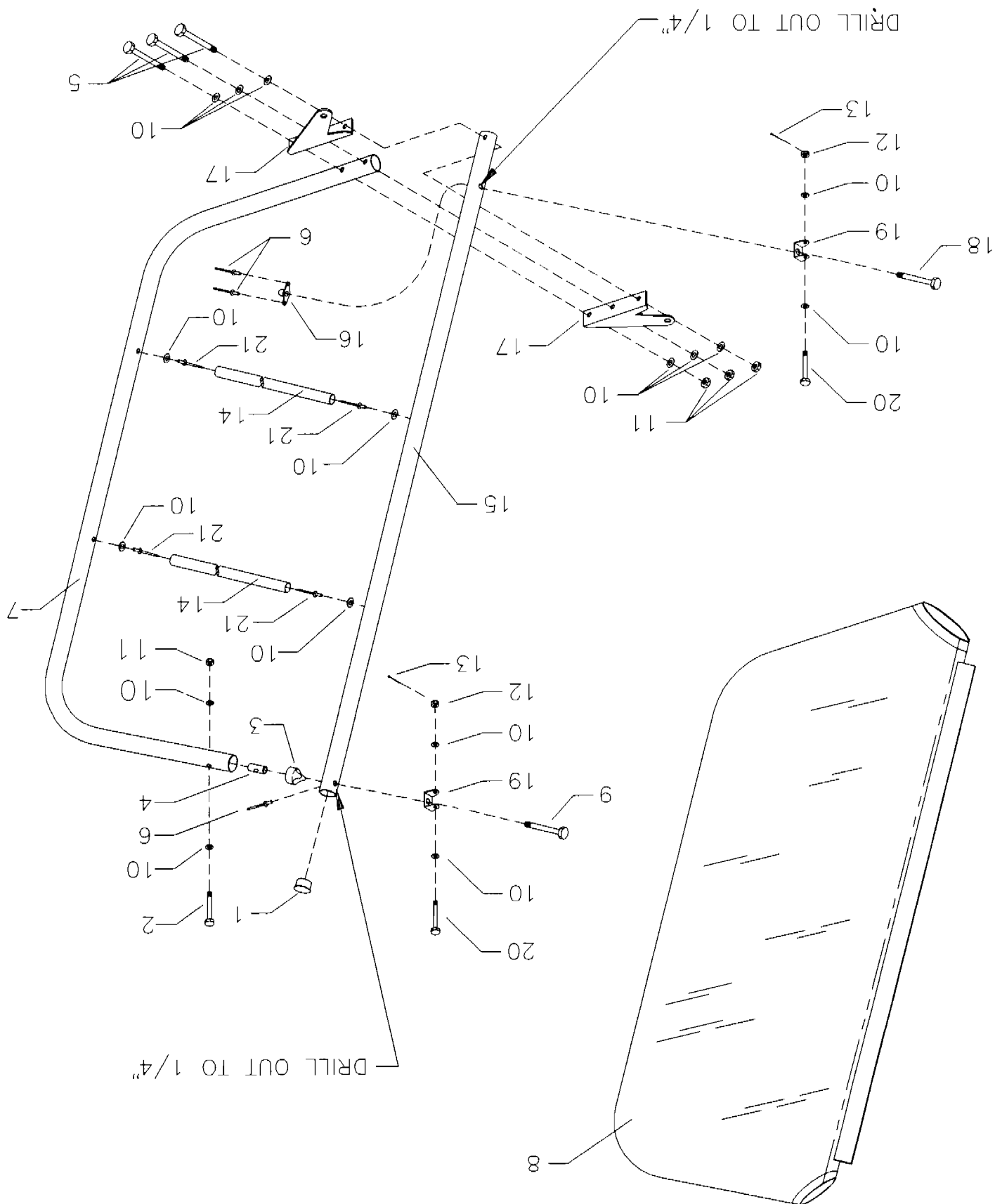
#	DESCRIPTION	PART NUMBER	QUANTITY
1.	Elevator Skin, LH	TG-ES-L	1
2.	Elevator Skin, RH	TG-ES-R	1
3.	3/16" Bolt	AN3-14A	4
4.	3/16" Thick Washer	AN960-10	11
5.	Elevator Trailing Edge	TG-ETE	2
6.	3/32" Aluminum Pop Rivet	40APR1/8	12
7.	3/16" Nut Plate	K-1000-3	4
8.	Insert Nut	I-NUT	4
9.	Loc Ring	RL 27 5/16	2
10.	1/4" Castle Nut	AN310-4	2
11.	1" Compression Tube Fitting	TC-1	4
12.	Male Rod End, 1/4" X 1/4"	NM-4	2
13.	1/4" Plain Nut	AN345-416	2
14.	1/4" Plastic Washer	PW-4	2
15.	1/4" Bolt	AN4-7	2
16.	Elevator Yoke	TG-EY	1
17.	Small Cotter Pin	MS24665-134	4
18.	3/16" Castle Nut	AN310-3	4
19.	1/4" Bolt	AN4-15A	4
20.	Loctite Blue	LOC-TITE	0
21.	Stainless Steel Hinge	W-HB	4
22.	Elevator Spar	TG-ESPAR	2
23.	3/16" Bolt	AN3-15A	1
24.	3/16" Shear Nut	AN364-1032A	2
25.	1 1/4" Push Pull Tube (STD)	TG-1 1/4PPT-125 3/4	1
25.	1 1/4" Push Pull Tube (139)	KPCS0052	1
26.	Foam Rubber Insulator	TG-FRI	1
27.	Elevator Horn	TG-EH-A	2
28.	3/16" Bolt	AN3-13A	2
29.	Elevator 1/2" Internal Brace, 13" **	TG-IB-E	2
30.	3/16" Bolt	AN3-15	4
31.	1" End Cap	1 CAP	2
32.	3/16" Aluminum Pop Rivet - Cherry Q	AAPQ-62	4

**Builder fabricates from raw stock.

RMS S-14 AIRAILE RUDDER ASSEMBLY

1/30/93

MD366



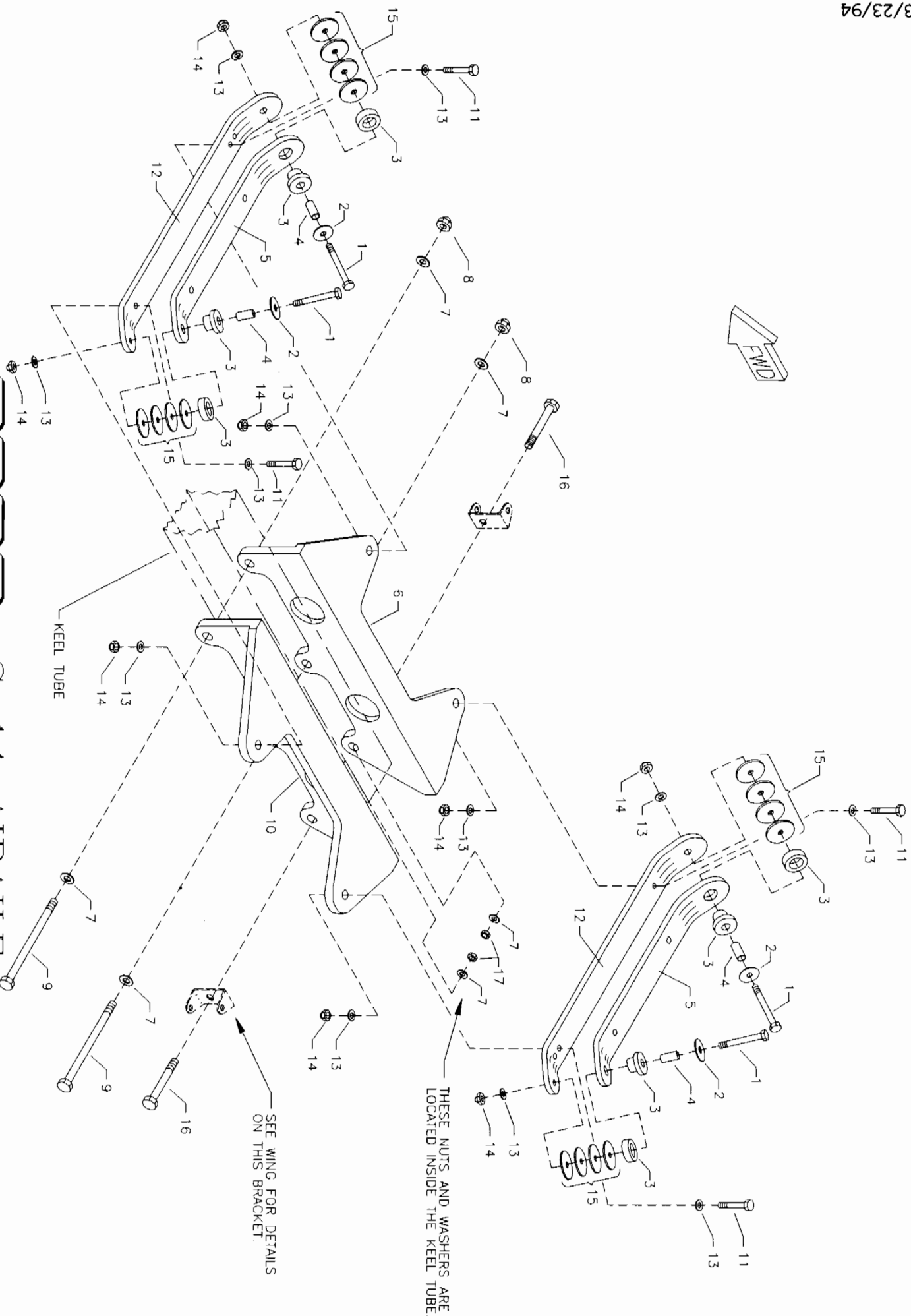
S-14 AIRAILE - RUDDER SYSTEM

#	DESCRIPTION	PART NUMBER	QUANTITY
1.	1" End Cap	1 CAP	1
2.	3/16" Bolt	AN3-13A	1
3.	1" Compression Tube Fitting	TC-1	1
4.	Insert Nut	I-NUT	1
5.	3/16" Bolt	AN3-15A	3
6.	3/32" Aluminum Pop Rivet	40APR1/8	3
7.	Rudder Trailing Edge	TG-RTE	1
8.	Rudder Skin	TG-RSKIN-14	1
9.	1/4" Bolt	AN4-15A	1
10.	3/16" Thick Washer	AN960-10	16
11.	3/16" Shear Nut	AN364-1032A	4
12.	3/16" Castle Nut	AN310-3	2
13.	Small Cotter Pin	MS24665-134	2
14.	Rudder 1/2" Internal Brace, 15" **	TG-IB-R	2
15.	Rudder Spar	TG-RS	1
16.	1/4" Nut Plate	MS21047-04	1
17.	Rudder Horn, LH	TG-RHL	1
17.	Rudder Horn, RH	TG-RHR	1
18.	1/4" Bolt	AN4-13A	1
19.	Stainless Steel Hinge	W-HB	2
20.	3/16" Bolt	AN3-15	2
21.	3/16" Aluminum Pop Rivet - Cherry Q	AAPQ-62	4

**Builder fabricates from raw stock.

RRR-111 S-14 AIRRAIL FOCALIZED ENGINE MOUNT

MD443

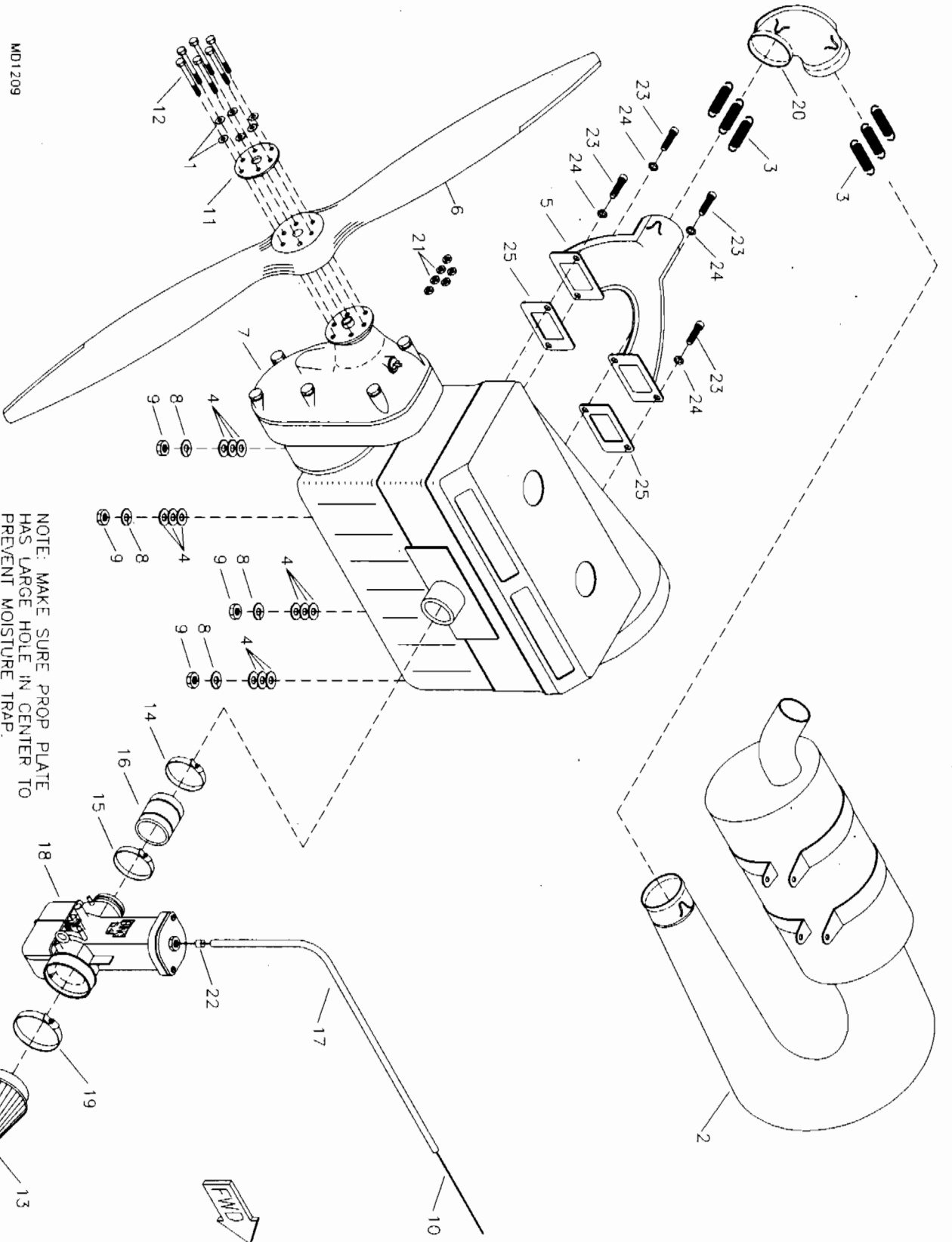


S-14 AIRAILE ENGINE MOUNT FOR THE 503/582

#	DESCRIPTION	PART NUMBER	QUANTITY
1.	1/4" Bolt	AN4-25A	4
2.	1/4" Large Diameter Washer	AN970-4	4
3.	Barry Mount	22001	4
4.	Spacer Bushing, 1 1/8" X 3/8" X .058	EG-B-3/8X1 1/8	4
5.	Engine Upper Mount Plate	KPPW0063	2
6.	Focalized Mount Angle, RH	EG-FMT-RH	1
7.	5/16" Thin Washer	AN960-516L	6
8.	5/16" Shear Nut	AN364-524A	2
9.	5/16" Bolt	AN5-31A	2
10.	Focalized Mount Angle, LH	EG-FMT-LH	1
11.	1/4" Bolt	AN4-12A	4
12.	Engine Lower Mount Plate	KPPW0064	2
13.	1/4" Thick Washer	AN960-416	12
14.	1/4" Tensile Nut	AN365-428A	8
15.	Aluminum Washer	EG-AW	16
16.	5/16" Bolt	AN5-10A	2
17.	5/16" Tensile Nut	AN365-524A	2

S-14 AIRAILE - ENGINE MOUNT FOR THE 447

#	DESCRIPTION	PART NUMBER	QUANTITY
1.	1/4" Bolt	AN4-25A	4
2.	1/4" Large Diameter Washer	AN970-4	4
3.	Barry Mount	22001	4
4.	Spacer Bushing, 1 1/8" X 3/8" X .058	EG-B-3/8X1 1/8	4
5.	Engine Upper Mount Plate	KPPW0063	2
6.	Focalized Mount Angle, RH	KPPW0040-RH	1
7.	5/16" Thin Washer	AN960-516L	6
8.	5/16" Shear Nut	AN364-524A	2
9.	5/16" Bolt	AN5-31A	2
10.	Focalized Mount Angle, LH	KPPW0040-LH	1
11.	1/4" Bolt	AN4-12A	4
12.	Engine Lower Mount Plate	KPPW0064	2
13.	1/4" Thick Washer	AN960-416	12
14.	1/4" Tensile Nut	AN365-428A	8
15.	1/8" Aluminum Washer	EG-AW	16
16.	5/16" Bolt	AN5-10A	2
17.	5/16" Tensile Nut	AN365-524A	2



MD1209

447/503 ENGINE/PROP/MUFFLER

S-14 AIRAILE - ENGINE (ROTAX 447, 503)

#	DESCRIPTION	PART NUMBER	QUANTITY
1.	1/4" Thick Washer	AN960-416	6
2.	Muffler, 447/503	KSEX0006	1
3.	Muffler Springs, 503	EG-MUFF-SPRINGS	6
4.	7/16" Thick Washer	AN960-716	12
5.	Exhaust Manifold, 503	KSEX0008	1
5.	Exhaust Manifold, 447	KSEX0014	1
6.	Propeller	EG-PROP	1
7.	Rotax 447 Engine	EG-EG-447	1
7.	Rotax 503 Engine	EG-EG-503	1
8.	Engine Loc Washer *	----	0
9.	Nut *	----	0
10.	Throttle Cable, 10', 447 & 503SC	EG-T-CAB	1
10.	Throttle Cable, 10', 503DC	EG-T-CAB	2
11.	Prop Plate *	----	0
12.	1/4" Bolt (STD)(-6 9" Spinner)	AN4-32A	6
13.	Air Filter, K & N, 447 & 503SC	EG-AF	1
13.	Air Filter, K & N, 503DC	EG-AF	2
14.	Carb Clamp *	----	0
15.	Carb Clamp *	----	0
16.	Carb Boot *	----	0
17.	Cable Housing, 9', 447 & 503SC	EG-T-CAB-H	1
17.	Cable Housing, 9', 503DC	EG-T-CAB-H	2
18.	Bing Carburetor *	----	0
19.	Air Filter Clamp **	----	0
20.	Muffler Elbow	KAEX0008	1
21.	1/4" Tensile Nut	AN365-428A	6
22.	Cable Ferrule Cap, 447 & 503SC	ENDCAP-12000	1
22.	Cable Ferrule Cap, 503DC	ENDCAP-12000	2
23.	10MM Shoulder Screw *	----	0
24.	10MM Loc Washer *	----	0
25.	Exhaust Gasket *	----	0

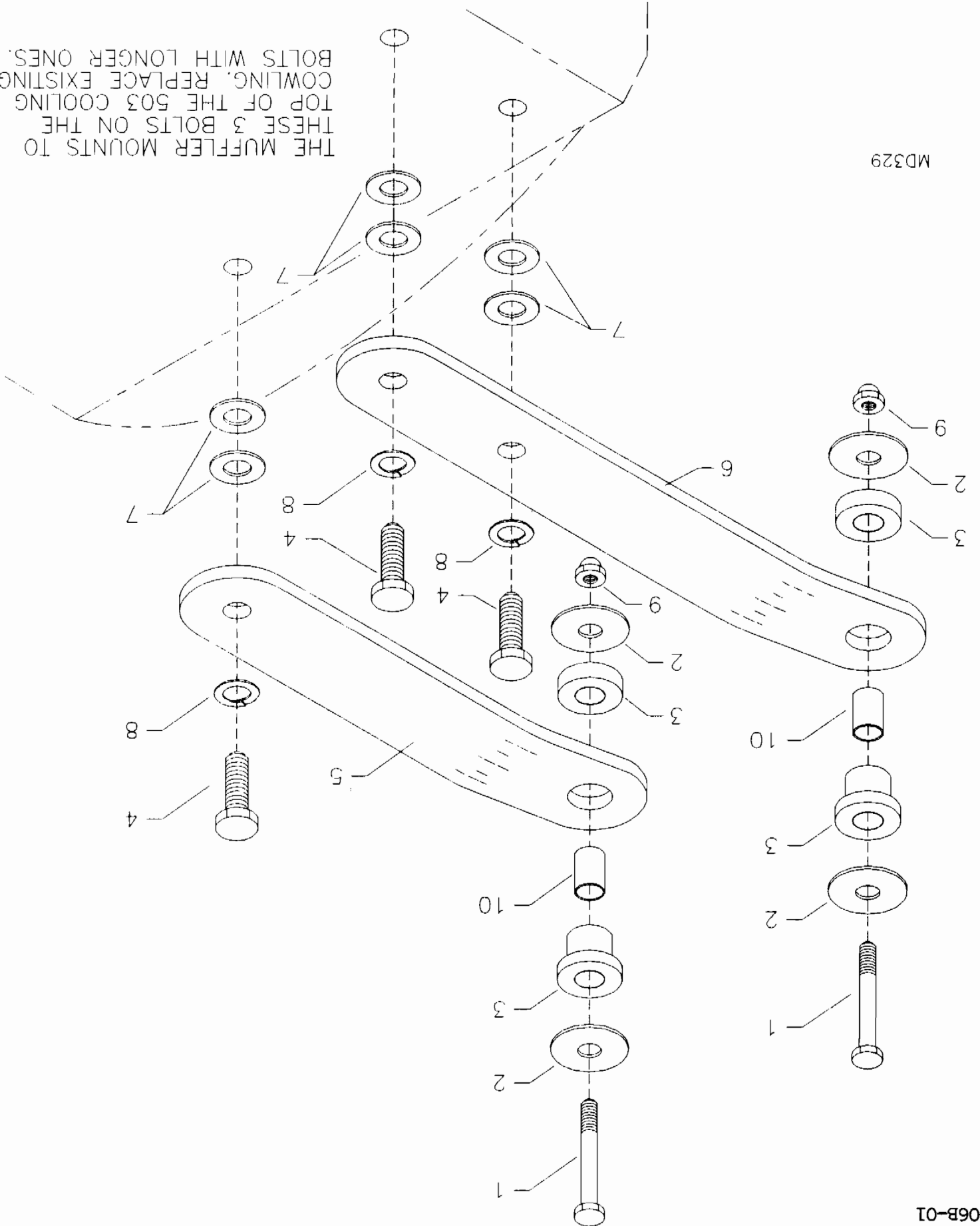
*Supplied with Engine.

**Supplied with Filter.

RRMS S-14 AIRAILE 503 MUFFLER MOUNT

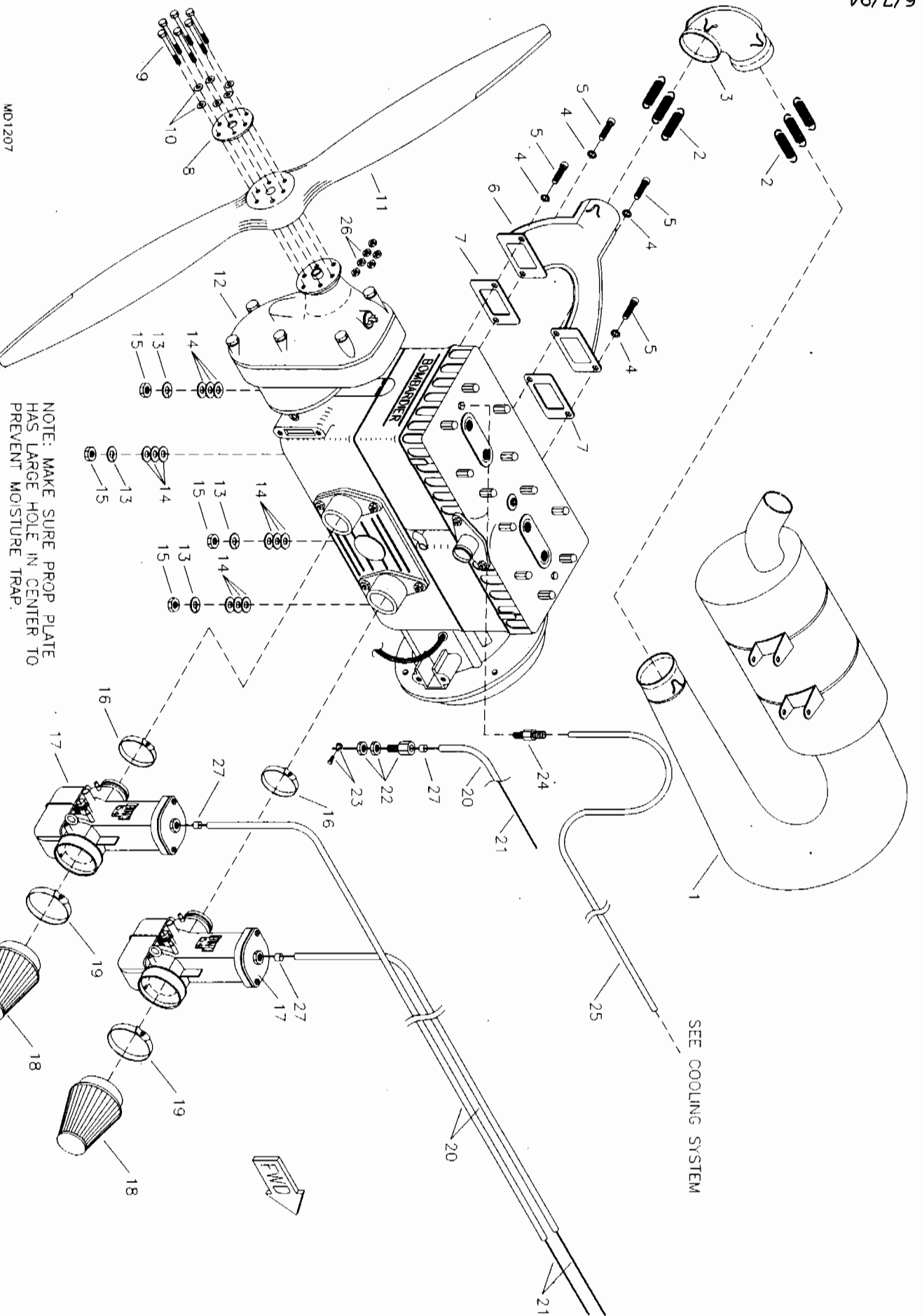
MD329

THE MUFFLER MOUNTS TO
TOP OF THE 503 COOLING
COWLING. REPLACE EXISTING
BOLTS WITH LONGER ONES.



S-14 AIRAILE - 503 MUFFLER MOUNT

#	DESCRIPTION	PART NUMBER	QUANTITY
1.	1/4" Bolt	AN4-20A	2
2.	1/8" Aluminum Washer	EG-AW	4
3.	Barry Mount	22001	2
4.	M8 X 30 MM Bolt	M8X30 BOLT	3
5.	FWD Mount Plate	EG-FMP	1
6.	AFT Mount Plate	EG-AMP	1
7.	5/16" Thick Washer	AN960-516	6
8.	5/16" Loc Washer	AN935-516	3
9.	1/4" Shear Nut	AN364-428A	2
10.	Spacer Bushing, 1 1/8" X 3/8" X .058	EG-B-3/8X1 1/8	2



MD1207

PRATT & WHITNEY S-12/14 AIRFRAME 582 ENGINE/PROP/MUFFLER

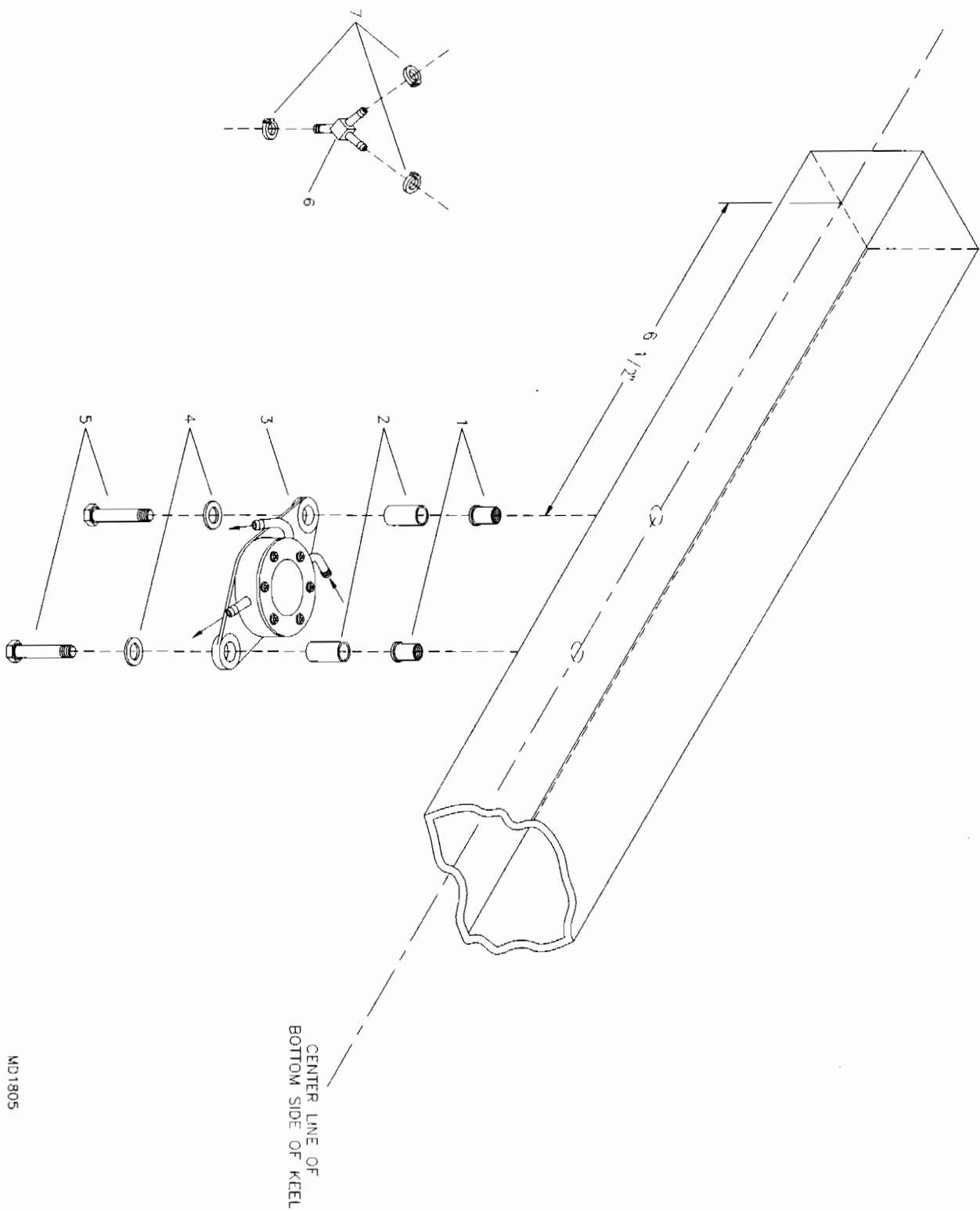
S-14 AIRAILE - 582 ENGINE

#	DESCRIPTION	PART NUMBER	QUANTITY
1.	Muffler	KAEX0006	1
2.	Muffler Springs, 582 *	KSEX0002	6
3.	Muffler Elbow, 582	KAEX0005	1
4.	10MM Loc Washer *	----	0
5.	10MM Shoulder Screw *	----	0
6.	Exhaust Manifold, 582	KSEX0007	1
7.	Exhaust Gasket *	----	0
8.	Prop Plate *	----	0
9.	1/4" Bolt (STD)(-6 9" Spinner)	AN4-32A	6
10.	1/4" Thick Washer	AN960-416	6
11.	Propeller	EG-PROP	1
12.	Rotax 582 Engine	EG-EG-582	1
13.	Engine Loc Washer *	----	0
14.	7/16" Thick Washer	AN960-716	12
15.	Engine Stud Nut *	----	0
16.	Carb Clamp *	----	0
17.	Bing Carburetor *	----	0
18.	Air Filter, K & N	EG-AF	2
19.	Air Filter Clamp **	----	0
20.	Throttle Cable Housing, 9'	EG-T-CAB-H	3
21.	Throttle Cable, 10'	EG-T-CAB	3
22.	Adjustable Cable Ferrule	2373	1
23.	Wire Swivel/Screw Stop	2361	1
24.	6MM Nipple *	----	0
25.	1/8" Black Fuel Coolant Pressure Line ***	KSFS0001	0 ft
26.	1/4" Tensile Nut	AN365-428A	6
27.	Cable Ferrule Cap	ENDCAP-12000	3

*Supplied with Engine

**Supplied with Filter.

***Referenced.



MD1805

503/582 FUEL PUMP ASSEMBLY

S-12/14 AIRRAIL

S-14 AIRAILE - 503/582 FUEL PUMP ASSEMBLY

#	DESCRIPTION	PART NUMBER	QUANTITY
1.	3/16" Rivet Nut	MS27130-A25K	2
2.	Spacer Bushing, 3/8" X .058 X 1" *	SB-3/8X1	2
3.	Fuel Pump ***	EG-FUEL-PUMP	0
4.	3/16" Thick Washer	AN960-10	2
5.	3/16" Bolt	AN3-15A	2
6.	Fuel Line "Y" Connector, 503 Single Carb Only **	8345	1
7.	Line Clamp, 3/8", 503 Single Carb Only **	FS-LCL 3/8	3

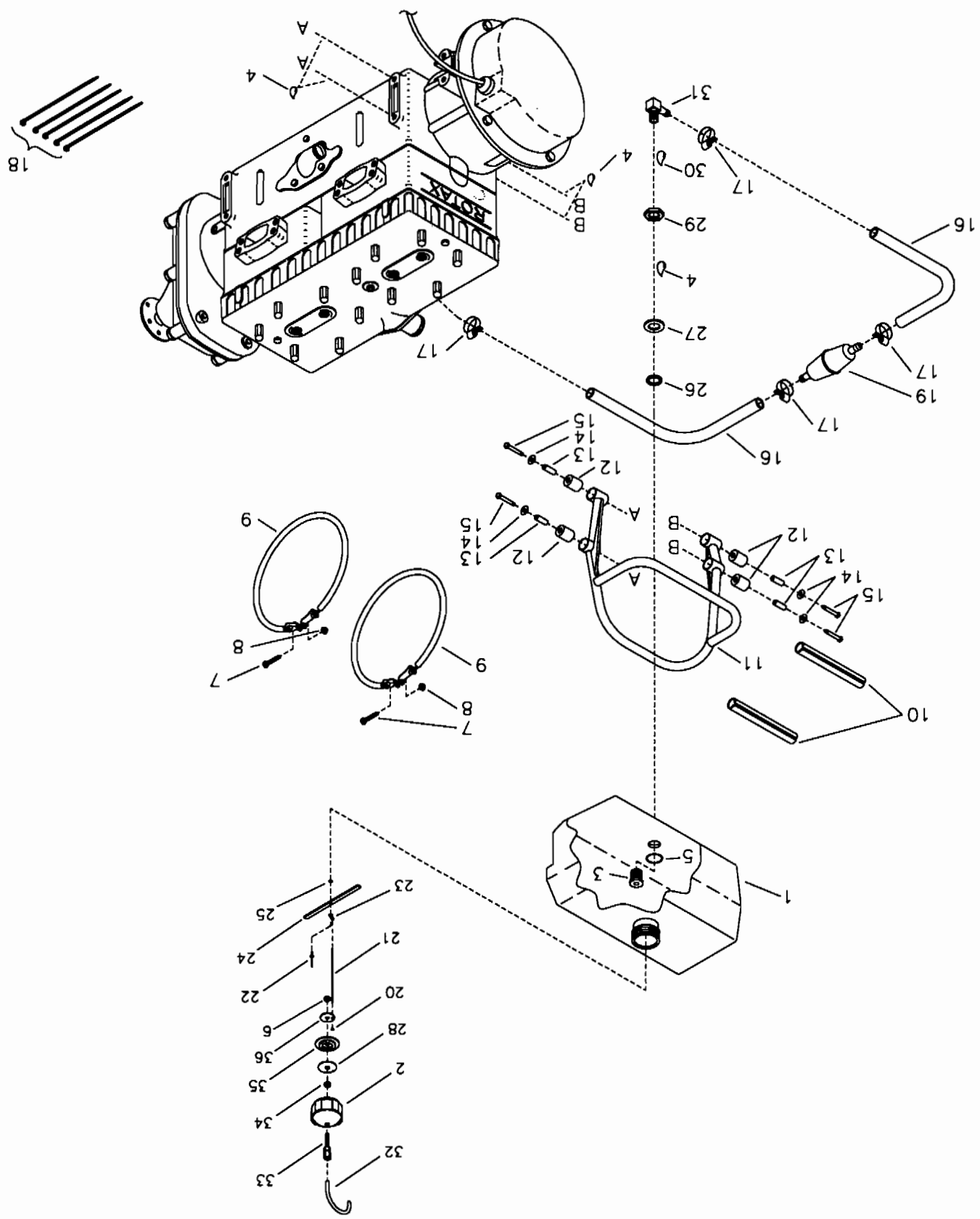
*Builder fabricates.

**Used on the 503 Single Carb to connect outputs on the pump.

***Comes with Engine

RRMS S-14 AIRRALE 582 OIL INJECTION TANK AND MOUNT ASSEMBLY

MD3687



S-14 AIRAILE - 582 OIL INJECTION TANK & MOUNT

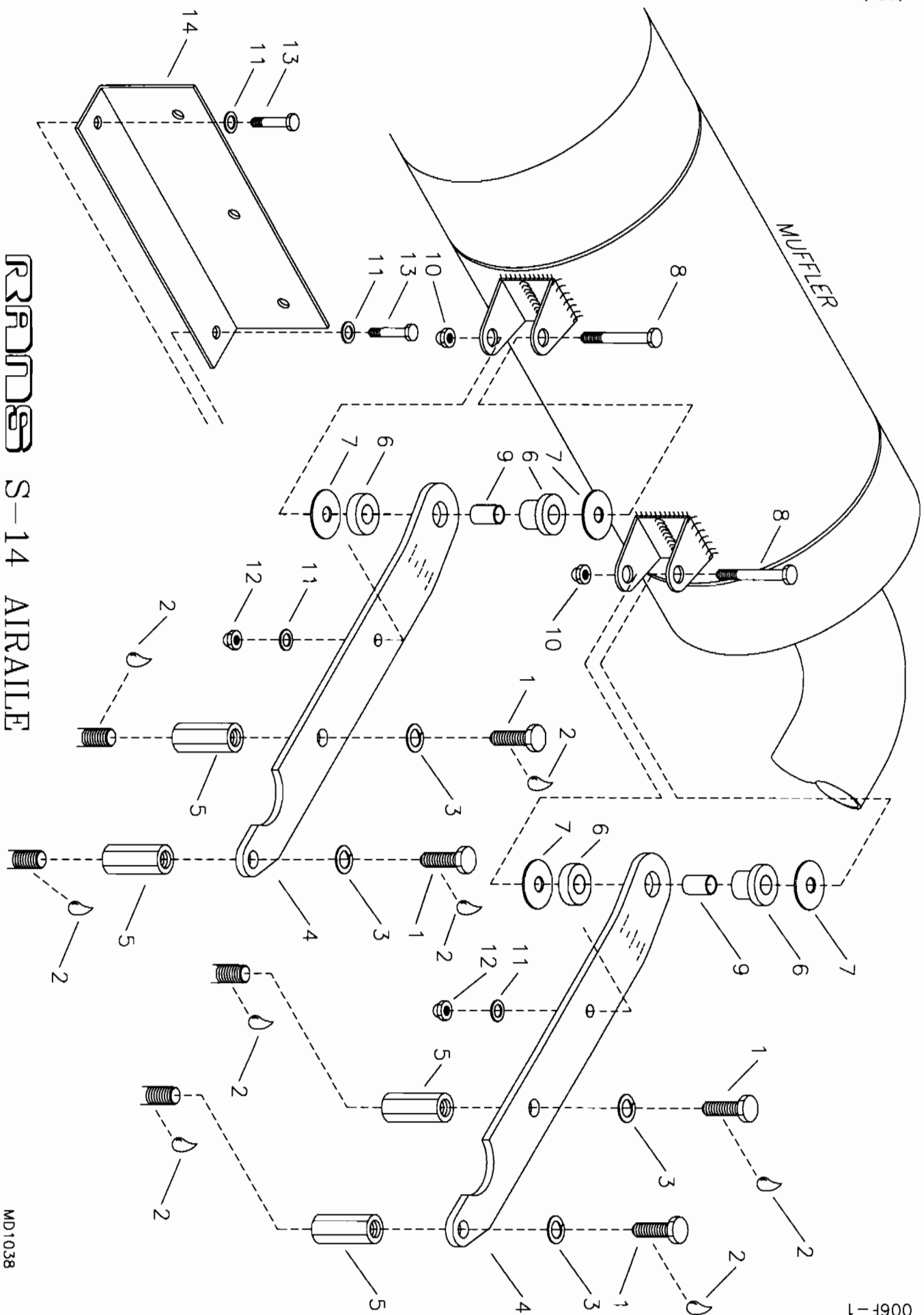
#	DESCRIPTION	PART NUMBER	QUANTITY
1.	Oil Tank	KPPW0021	1
2.	Fuel Cap	KSFS0007	1
3.	Tank Withdrawal Fitting	KPFS0017	1
4.	Loctite Blue	LOC-TITE	0
5.	O-Ring	KSFS0009	1
6.	1/4" Shear Nut	AN364-428C	1
7.	3/16" Truss Head Bolt	AN526-C1032R12	2
8.	3/16" Shear Nut	AN364-1032A	2
9.	Oil Injection Tank Clamp	KAPW0013	2
10.	7/16" Black Fuel Line	KSFS0005	16 in
11.	Oil Tank Mount	OI-OTMT	1
12.	Rubber Hose	OI-RH3/4	4
13.	Rubber Hose	OI-RH7/16	4
14.	3/16" Large Washer *	AN970-3	4
15.	8MM x 35MM Bolt	M8X35	4
16.	5/16" Black Fuel Line	KSFS0003	24 in
17.	Small Hose Clamp	5-6202	4
18.	Zip Ties	ZIP TIES	5
19.	Oil Filter	414-5365	1
20.	Bead Chain - Retainer Sleeve	KSHW0014	1
21.	#3 Bead Chain	KSHW0012	7 in
22.	1/8" Stainless Steel Pop Rivet - Cherry Q	CCPQ-44	1
23.	Bead Chain - End Coupling	KSHW0013	1
24.	Plastic Retainer	KPFS0012	1
25.	1/8" Small Brass Washer	AN960-B4	1
26.	Rubber Washer	KSFS0010	1
27.	1/2" Thick Washer	AN960-816	1
28.	Plastic Baffle ***	KSFS0012	0
29.	Nut-Flared Tube Bulkhead	AN924-5D	1
30.	Thread Sealant **	KSAC0014	0
31.	90 Withdrawal Fitting	3-83125	1
32.	Vent Tube	KPFS0020	1
33.	Conduit Adjuster Assembly	KSFS0014	1
34.	1/4" Plain Nut	AN345-416	1
35.	Rubber Gasket ***	KSFS0013	0
36.	1/4" Large Washer	AN970-4	1

*Will need to be drilled out to accept an 8mm bolt (5/16 bit drill is acceptable).

**Builder Supplied.

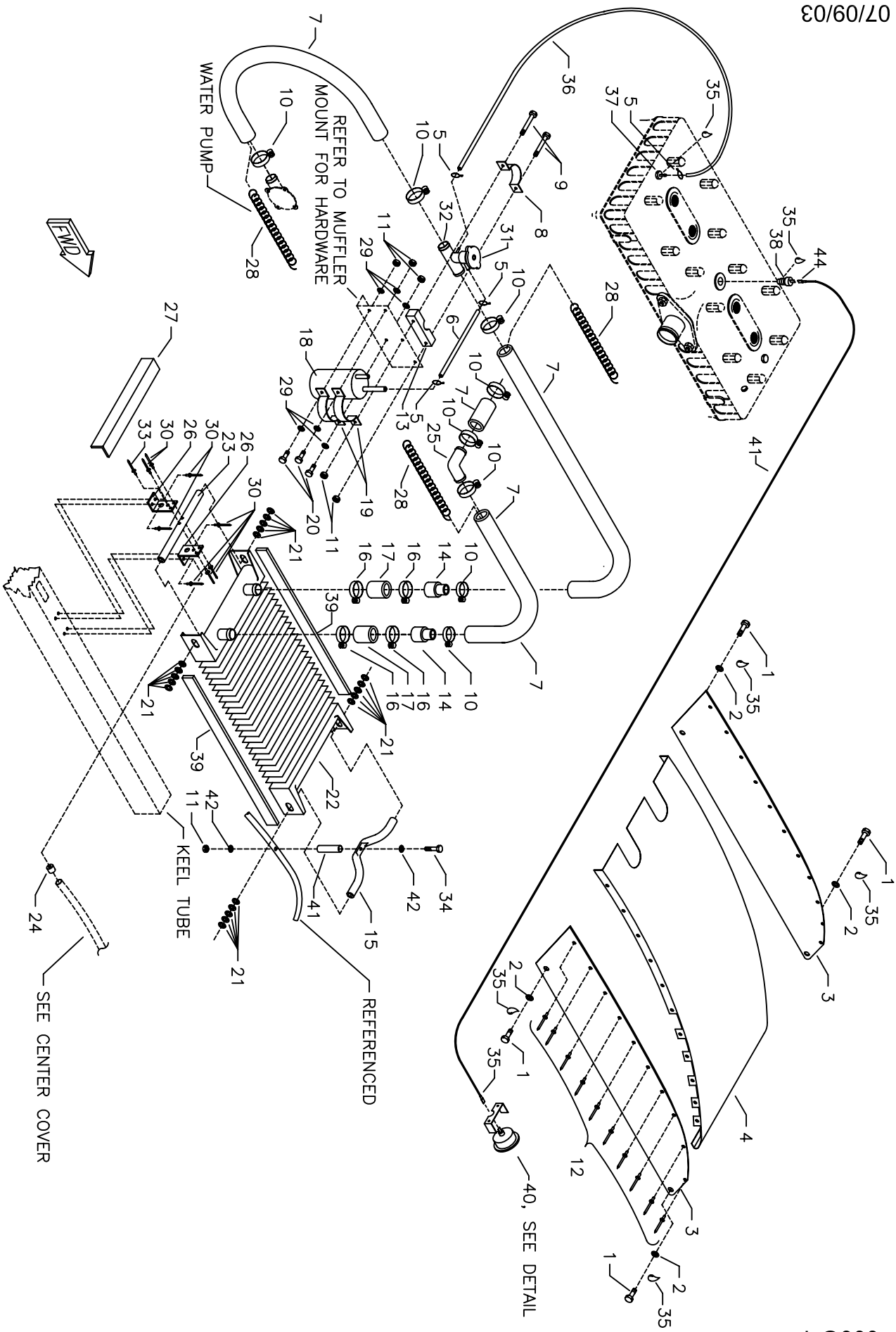
***Supplied with Fuel Cap.

RRR-111 S-14 AIRRAIL 582 MUFFLER MOUNT



S-14 AIRAILE - 582 MUFFLER MOUNT

#	DESCRIPTION	PART NUMBER	QUANTITY
1.	8MM X 20 Bolt	M8X20 BOLT	4
2.	Loctite Blue	LOC-TITE	0
3.	5/16" Loc Washer	AN935-516	4
4.	582 Muffler Mount Plate	EG-582MP	2
5.	8MM X 25 Stand Off	M8X25 SO	4
6.	Barry Mount	22001	2
7.	1/8" Aluminum Washer	EG-AW	4
8.	1/4" Bolt	AN4-22A	2
9.	Spacer Bushing, 1 1/8" X 3/8" X .058	EG-B-3/8X1 1/8	2
10.	1/4" Shear Nut	AN364-428A	2
11.	3/16" Thin Washer	AN960-10L	4
12.	3/16" Shear Nut	AN364-1032A	2
13.	3/16" Bolt	AN3-6A	2
14.	Filler Tee & Overflow Bottle Bracket	EG-FTOB	1



RRM S-14 AIRAILLE 582 COOLING SYSTEM

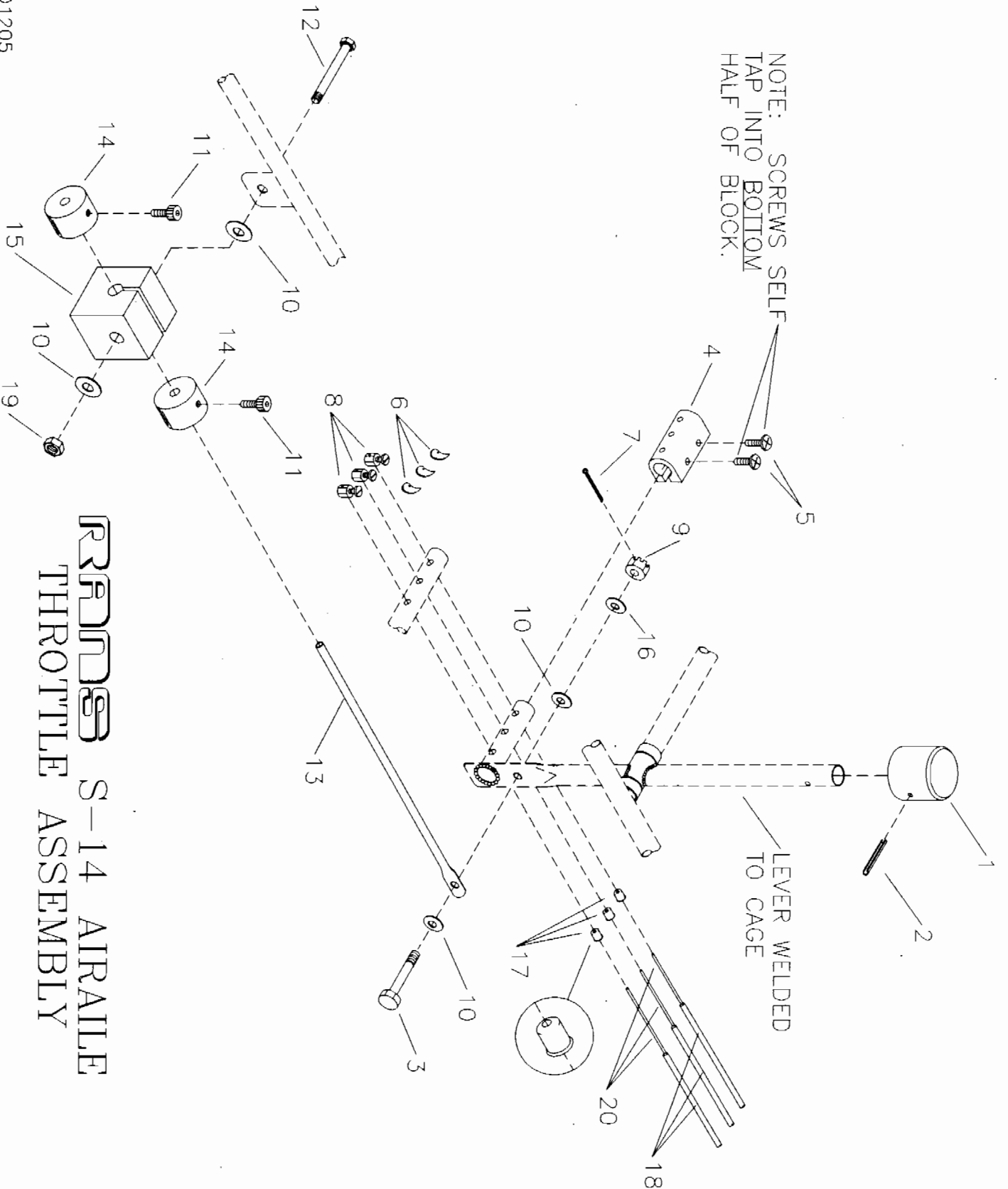
#	DESCRIPTION	PART NUMBER	QUANTITY
1.	1/4" Bolt	AN4-7A	4
2.	1/4" Thin Washer	AN960-416L	4
3.	Radiator, Cowling Side	EGCS-RCS	2
4.	Radiator, Cowling Top	EGCS-RCT	1
5.	Safety Wire	SAFETY WIRE	1
6.	5/16" Overflow Hose	EGCS-OFH	1 ft
7.	1" Radiator Hose	RADIATOR HOSE	4 ft
8.	Filler "T" Mount	EGCS-FNMSTRAP	1
9.	3/16" Bolt	AN3-14A	2
10.	Hose Clamp, 1 1/2"	5-5216	8
11.	3/16" Shear Nut	AN364-1032A	6
12.	1/8" Aluminum Pop Rivet - Cherry Q	AAPQ-41	30
13.	Mount Block	EGCS-FNMPVC	1
14.	Reducer Coupler	EGCS-RC	2
15.	Radiator Forward Mount	EGCS-RFM	1
16.	Hose Clamp, 1 3/4"	5-5220	4
17.	1 1/4" Radiator Hose	EGCS-RHOSE	4
18.	Coolant Recovery Bottle	EGCS-CRB	1
19.	Coolant Recovery Clamp	FS-HS	2
20.	3/16" Bolt	AN3-4A	3
21.	1/4" Plastic Washer	PW-4	20
22.	Radiator	EGCS-RAD	1
23.	Radiator AFT Mount	EGCS-RAM	1
24.	Center Cover Plastic Fitting	CC-PF	1
25.	90 Copper Fitting	EGCS-90CF1	1
26.	Radiator Mount Angle	EGCS-RMA	2
27.	Radiator Air Dam	EGCS-DAM	1
28.	Hose Spring	EGCS-HS	3
29.	3/16" Thick Washer	AN960-10	8
30.	1/8" Stainless Steel Pop Rivet - Cherry Q	CCPQ-42	8
31.	16 lb. Pressure Cap ***	EGCS-CAP16	1
32.	Filler Cap Tee with Nipple	EGCS-FCT-N	1
33.	1/8" Stainless Steel Pop Rivet - Cherry Q	CCPQ-46	1
34.	3/16" Bolt	AN3-25A	1
35.	Loctite Blue	LOC-TITE	0
36.	1/8" Black Fuel Coolant Pressure Line	KSFS0001	2 ft
37.	Cylinder Head Vent *	EG-CYLINDER-HEAD	0
38.	Coolant Temperature Probe ****	KSPW0016-1	0
39.	Foam Seal, 3/8 x 1/2"	3/8-FS	58 in
40.	Water Temperature Gauge, Electrical	KSPW0016	1
41.	Aluminum Bushing, 3/8" x .058 x 1 5/8" **	KAAC0018-4	0
42.	3/16" Thin Washer	AN960-10L	2
43.	Water Outlet Socket	922-025	1

*Supplied with Engine.

**Builder must fabricate from raw stock.

***Referenced.

7/4/2003



RADM S-14 AIRAILLE **THROTTLE ASSEMBLY**

MD1205

S-14 AIRAILE - THROTTLE 503/582

#	DESCRIPTION	PART NUMBER	QUANTITY
1.	Throttle Knob	T-KNOB-9/10	1
2.	1/8" Roll Pin, 1"	20032446	1
3.	3/16" Bolt	AN3-5	1
4.	Throttle Retension Block	T-RB	1
5.	Machine Screw	MS35206-218	2
6.	Loctite Blue	LOC-TITE	1
7.	Small Cotter Pin	MS24665-134	1
8.	Wire Stop/Screw	2360	3
9.	3/16" Castle Nut	AN310-3	1
10.	3/16" Thick Washer	AN960-10	4
11.	Set Screw	T-SC	2
12.	3/16" Bolt	AN3-14A	1
13.	Friction Rod	T-FR	1
14.	Throttle Stop	T-STOP	2
15.	Friction Block	T-FB	1
16.	3/16" Thin Washer	AN960-10L	1
17.	Cable Ferrule Cap	ENDCAP-12000	3
18.	Throttle Cable Housing	EG-T-CAB-H	0
19.	3/16" Shear Nut	AN364-1032A	1
20.	Throttle Cable	EG-T-CAB	0



RRANES S-14 AIRRAIE FUEL TANK INSTALLATION

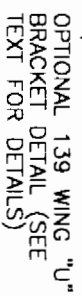
#	DESCRIPTION	PART NUMBER	QUANTITY
1.	Wing Tank - Mount Bracket	KPFS0007	6
2.	Wing Tank - AFT Mount Bracket, RH	KPFS0011-R	1
3.	Outer Tank Support - 116 Wing	KPFS0045	1
3.	Outer Tank Support - 139 Wing	KPFS0044	1
4.	Fuel Tank, RH	KPFS0005-R	1
5.	U Bracket	KPAC0055	1
6.	Tank Withdrawal Fitting	KPFS0017	3
7.	Attach Bracket	S2-SAB	1
8.	Inner Compression Tube *	W-IO-151	0
9.	3/16" Bolt	AN3-3A	7
10.	3/16" Thick Washer	AN960-10	7
11.	1/8" Stainless Steel Pop Rivet - Cherry Q	CCPQ-44	15
12.	90 Withdrawal Fitting	8342	2
13.	Straight Withdrawal Fitting	8330	1
14.	3/16" Bolt	AN3-15A	1
15.	3/16" Bolt	AN3-14A	1
16.	3/32" Aluminum Pop Rivet	40APR1/8	4
17.	3/16" Shear Nut *	AN364-1032A	0
18.	3/16" Bolt *	AN3-15A	0
19.	Fuel Cap	KSFS0007	1
20.	3/16" Stainless Steel Pop Rivet - Cherry Q	CCPQ-64	1
21.	1/8" Stainless Steel Pop Rivet - Cherry Q	CCPQ-42	2
22.	Bead Chain - Retainer Sleeve	KSHW0014	1
23.	#3 Bead Chain	KSHW0012	7 in
24.	Bead Chain - End Coupling	KSHW0013	1
25.	Plastic Retainer	KPFS0012	1
26.	1/8" Small Brass Washer	AN960-B4	1
27.	O-Ring	KSFS0009	3
28.	Rubber Washer	KSFS0010	3
29.	1/2" Thick Washer	AN960-816	2
30.	Nut-Flared Tube Bulkhead	AN924-5D	3
31.	Vent Tube	KPFS0020	1
32.	Plastic Baffle ***	KSFS0012	0
33.	Rubber Gasket ***	KSFS0013	0
34.	Conduit Adjuster Assembly	KSFS0014	1
35.	Loctite Blue	LOC-TITE	0
36.	Thread Sealant **	KSAC0014	0
37.	1/4" Plain Nut	AN345-416	1
38.	1/4" Large Washer	AN970-4	1
39.	1/4" Shear Nut	AN364-428C	1
40.	3/16" Nut Plate	K-1000-3	1
41.	3/16" Single Ear Nut Plate	MS21051-L3	1

*Referenced from wing frame assembly.

**Thread Sealant (builder provides) is recommended but Loctite Blue can also be used.

***Supplied with Fuel Cap.

12/24/2004



REFERENCES

MD2363

#	DESCRIPTION	PART NUMBER	QUANTITY
1.	Wing Tank - Mount Bracket	KPFS0007	6
2.	Wing Tank - AFT Mount Bracket, LH	KPFS0011-L	1
3.	Outer Tank Support - 116 Wing	KPFS0045	1
3.	Outer Tank Support - 139 Wing	KPFS0044	1
4.	Fuel Tank, LH	KPFS0005-L	1
5.	U Bracket	KPAC0055	1
6.	Tank Withdrawal Fitting	KPFS0017	3
7.	Attach Bracket	S2-SAB	1
8.	Inner Compression Tube *	W-IO-151	0
9.	3/16" Bolt	AN3-3A	7
10.	3/16" Thick Washer	AN960-10	7
11.	1/8" Stainless Steel Pop Rivet - Cherry Q	CCPQ-44	15
12.	90 Withdrawal Fitting	8342	2
13.	Straight Withdrawal Fitting	8330	1
14.	3/16" Bolt	AN3-15A	1
15.	3/16" Bolt	AN3-14A	1
16.	3/32" Aluminum Pop Rivet	40APR1/8	4
17.	3/16" Shear Nut *	AN364-1032A	0
18.	3/16" Bolt *	AN3-15A	0
19.	Fuel Cap	KSFS0007	1
20.	3/16" Stainless Steel Pop Rivet - Cherry Q	CCPQ-64	1
21.	1/8" Stainless Steel Pop Rivet - Cherry Q	CCPQ-42	2
22.	Bead Chain - Retainer Sleeve	KSHW0014	1
23.	#3 Bead Chain	KSHW0012	7 in
24.	Bead Chain - End Coupling	KSHW0013	1
25.	Plastic Retainer	KPFS0012	1
26.	1/8" Small Brass Washer	AN960-B4	1
27.	O-Ring	KSFS0009	3
28.	Rubber Washer	KSFS0010	3
29.	1/2" Thick Washer	AN960-816	3
30.	Nut-Flared Tube Bulkhead	AN924-5D	3
31.	Vent Tube	KPFS0020	1
32.	Plastic Baffle ***	KSFS0012	0
33.	Rubber Gasket ***	KSFS0013	0
34.	Conduit Adjuster Assembly	KSFS0014	1
35.	Loctite Blue	LOC-TITE	0
36.	Thread Sealant **	KSAC0014	0
37.	1/4" Plain Nut	AN345-416	1
38.	1/4" Large Washer	AN970-4	1
39.	1/4" Shear Nut	AN364-428C	1
40.	3/16" Nut Plate	K-1000-3	1
41.	3/16" Single Ear Nut Plate	MS21051-L3	1

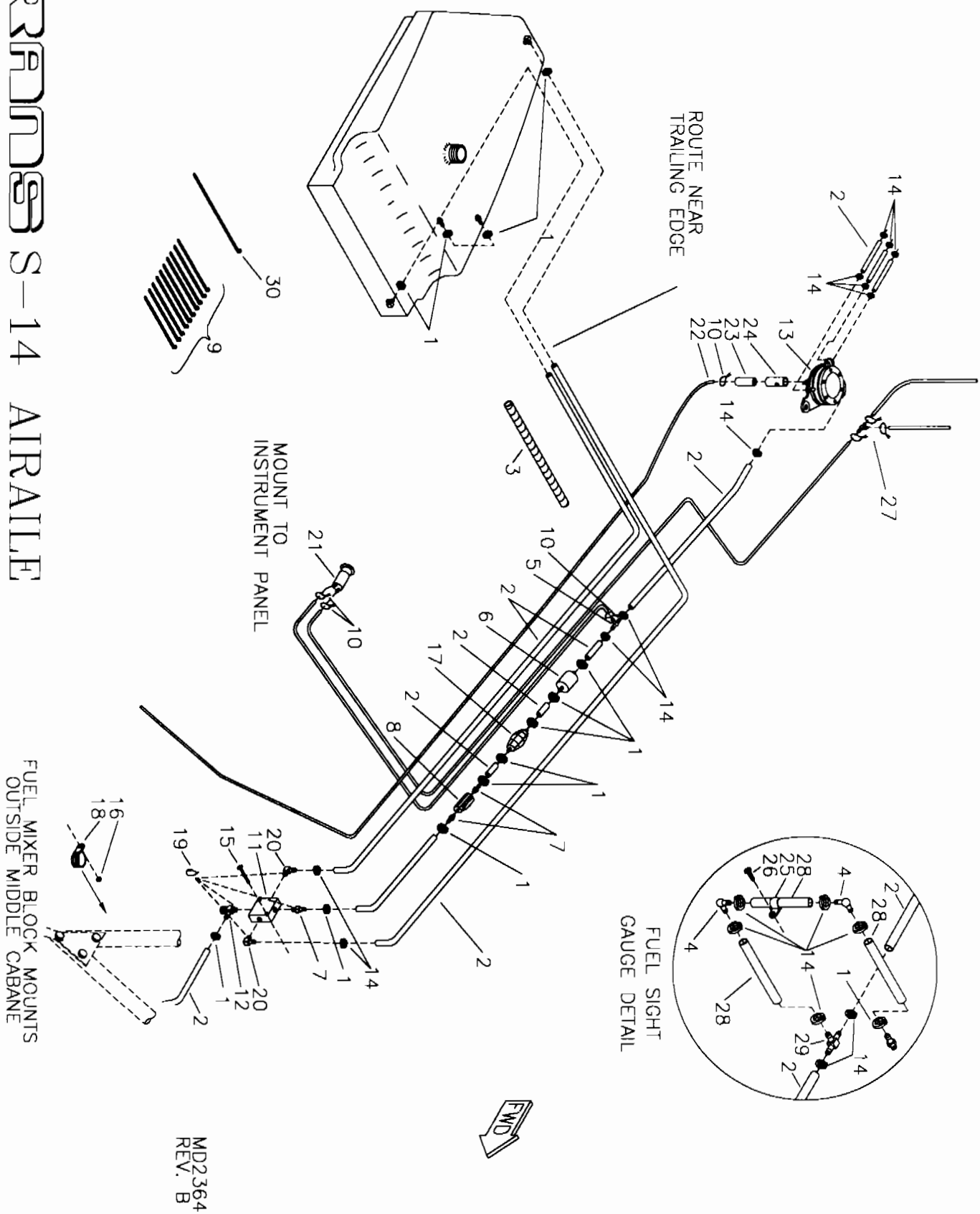
*Referenced from wing frame assembly.

**Thread Sealant (builder provides) is recommended but Loctite Blue can also be used.

***Supplied with Fuel Cap. NOTE: Qtys shown are in addition to single wing tank setup.

12/24/2004

RAH-66 S-14 AIRLIFT WING TANK FUEL SYSTEM



#	DESCRIPTION	PART NUMBER	QUANTITY
1.	Line Clamp, 3/8"	FS-LCL 3/8	12
2.	1/4" Blue Fuel Line	FS-FL	25 ft
3.	Coil Wrap	1/2 SPIRAL LOOM	1 ft
4.	1/4" x 1/4" 90 Fitting	7-11044	2
5.	Primer Fuel Line T *	PRIME-LINE-T	0
6.	Fuel Filter	FS-FIL	1
7.	Straight Withdrawal Fitting	8330	3
8.	Fuel Shut Off Valve	FS-S-OFF	1
9.	Zip Ties	ZIP TIES	10
10.	Safety Wire	SAFETY WIRE	0
11.	Fuel Mixer Block	FS-FMB	1
12.	Sump Drain Valve	8336	1
13.	Fuel Pump **	EG-EG-503-3	0
14.	Line Clamp, 5/16" I.D.	FS-LCL 5/16ID	18
15.	8 x 32 Bolt	AN526-832R16	1
16.	8 x 32 Nut	AN364-832A	1
17.	Primer Bulb	FS-PB	1
18.	1" Cushioned Tube Clamp	MS21919-DG16	1
19.	Loctite Blue	LOC-TITE	0
20.	90 Withdrawal Fitting	8342	2
21.	Primer Pump *	PRIME-PUMP	0
22.	1/8" Primer Line	PRIMER LINE	6 ft
23.	5/16" Overflow Hose	EGCS-OFH	1 ft
24.	Shrink Wrap	KSAC0006	5 in
25.	3/8" Loop Clamp	KSHW0015	1
26.	#6 Small Pan Head Screw	6RX1/2 PHS	1
27.	Primer Kit	SINGLE PRIMER(12/14)	1
27.	Primer Pump Kit	DUAL PRIMER	1
28.	1/4" Clear Fuel Line	KSFS0008	2 ft
29.	1/4" Tee	8338	1
30.	Long Black Nylon Ties	LG-N-TIE	1

*Supplied with Primer Kit.

**Supplied with Engine.

12/30/2004

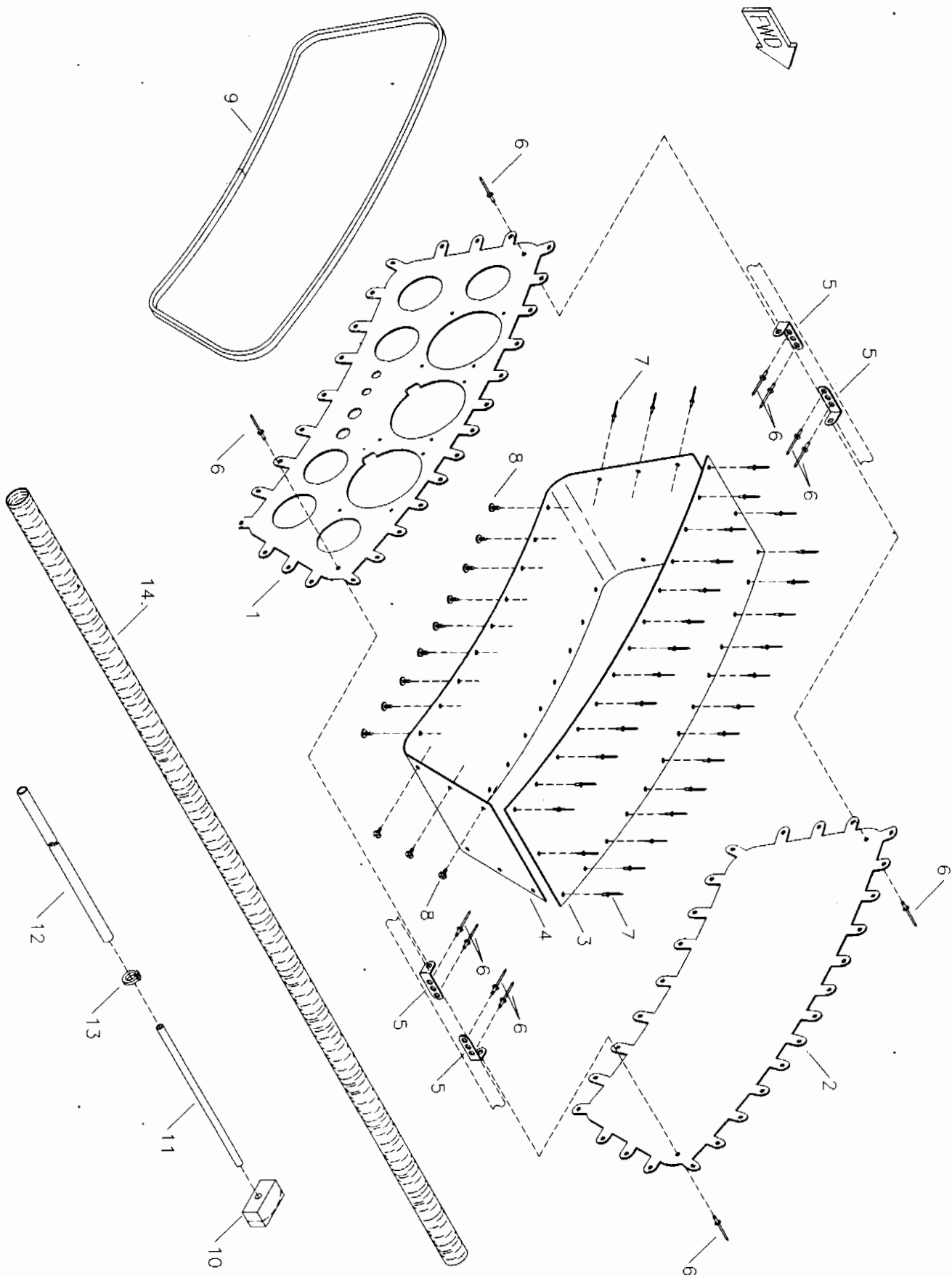
#	DESCRIPTION	PART NUMBER	QUANTITY
1.	Line Clamp, 3/8"	FS-LCL 3/8	5
2.	1/4" Blue Fuel Line	FS-FL	20 ft
3.	Coil Wrap	1/2 SPIRAL LOOM	1 ft
4.	Fuel Line "Y" Connector	8345	2
5.	Primer Fuel Line T *	PRIME-LINE-T	0
6.	Fuel Filter	FS-FIL	0
7.	Straight Withdrawal Fitting	8330	0
8.	Fuel Shut Off Valve	FS-S-OFF	0
9.	Zip Ties	ZIP TIES	10
10.	Safety Wire	SAFETY WIRE	0
11.	Fuel Mixer Block	FS-FMB	0
12.	Sump Drain Valve	8336	0
13.	Fuel Pump **	EG-EG-503-3	0
14.	Line Clamp, 5/16" I.D.	FS-LCL 5/16ID	10
15.	8 x 32 Bolt	AN526-832R16	0
16.	8 x 32 Nut	AN364-832A	0
17.	Primer Bulb	FS-PB	0
18.	90 Withdrawal Fitting	8342	0
19.	Loctite Blue	LOC-TITE	0
20.	1" Cushioned Tube Clamp	MS21919-DG16	0
21.	Primer Pump *	PRIME-PUMP	0
22.	1/8" Primer Line	PRIMER LINE	0
23.	5/16" Overflow Hose	EGCS-OFH	0
24.	Shrink Wrap	KSAC0006	0
25.	1/4" x 1/4" 90 Fitting	7-11044	2
26.	3/8" Loop Clamp	KSHW0015	1
27.	#6 Small Pan Head Screw	6RX1/2 PHS	1
28.	Primer Kit	SINGLE PRIMER(12/14)	0
28.	Primer Pump Kit	DUAL PRIMER	0
29.	1/4" Clear Fuel Line	KSFS0008	2 ft
30.	1/4" Tee	8338	1
31.	Long Black Nylon Ties	LG-N-TIE	1

*Supplied with Primer Kit.

**Supplied with Engine.

NOTE: Quantities shown are in addition to single wing tank setup.

12/24/2004



RRR S-14 AIRRAIL **INSTRUMENT PANEL ASSEMBLY**

MD1313

S-14 AIRAILE - INSTRUMENT PANEL

#	DESCRIPTION	PART NUMBER	QUANTITY
1.	Instrument Panel	IP-IP	1
1.	Instrument Panel	S14-IP-IP	1
2.	Front Panel	IP-FP	1
3.	Upper Panel	IP-UP	1
4.	Lower Panel	IP-LP	1
5.	Mount Angle	ST-16-BENT	4
6.	3/16" Aluminum Pop Rivet - Cherry Q	AAPQ-62	12
7.	3/32" Aluminum Pop Rivet	40APR1/8	34
8.	#8 Stainless Steel Pan Head Screw	8X1/2 PHS	24
9.	Trim Loc	TRIM-LOC	48 in
10.	Pitot Mount Block (See Full Enclosure)	IP-PMB	0
11.	Pitot Tube	PITOT TUBE	1
12.	1/4" Fuel Line, Blue	FS-FL	6 ft
13.	Line Clamp, 3/8"	FS-LCL 3/8	1
14.	Wire Casing	IP-WCASE	13 ft



S-14 AIRAILE - 447 INSTRUMENTS & ELECTRICAL - WITHOUT ELECTRIC START

NOTE: Gauges may vary, consult directions provided with gauge for wiring diagram.

#	DESCRIPTION	PART NUMBER	QUANTITY
1.	14 Gauge Black Wire	14 GA WIRE/BLACK	18 ft
2.	14 Gauge Yellow Wire	14 GA WIRE/YELLOW	4 ft
3.	14 Gauge White Wire	14 GA WIRE/WHITE	12 ft
4.	14 Gauge Red Wire	14 GA WIRE/RED	18 ft
5.	14 Gauge Eye Terminal, Blue 3/16"	IP-7102	10
6.	CHT Lead	CHT-LEAD	0
7.	Regulator/Rectifier	KSES0005	1
8.	Female Connector *	-----	0
9.	14 Gauge Female Spade Terminal, Blue	IP-7128	5
10.	Hour Meter	KSPW0022	1
11.	Vertical Speed Indicator-Feet per Minute(Optional)	KSAV0008	1
11.	Vertical Speed Indic-Meters per Second(Optional)	KSAV0009	1
12.	Altimeter (Optional)	KSAV0001	1
12.	Altimeter with Window (Optional)	KSAV0002	1
12.	Altimeter - Metric (Optional)	KSAV0003	1
13.	Air Speed Indicator, 0-120	KSAV0004	1
14.	Ignition Switch	MS35058-22	1
15.	Cylinder Head Temperature Gauge	KSPW0010	1
16.	RPM Gauge	KSPW0007	1
17.	Male Terminal *	-----	0
18.	Straight Withdrawal Fitting	8330	3
19.	Line Clamp, 3/8"	FS-LCL 3/8	8
20.	Line Tee	8338	1
21.	14 Gauge Splice, Butt Connector	IP-7132	6
22.	Gray 4 Plex	538260	10 ft
23.	Female Bullet Terminal	02-09-1103	8
24.	14 Gauge, In Line Fuse Holder	KSES0019	1
25.	25 AMP Fuse	KSES0020-25	1
26.	14 Gauge Eye Terminal, Blue 1/4"	1/4 EYE 14 GA	1

*Supplied with Engine.



S-14 AIRAILE - 503 INSTRUMENTS & ELECTRICAL - WITHOUT ELECTRIC START

NOTE: Gauges may vary, consult directions provided with gauge for wiring diagram.

#	DESCRIPTION	PART NUMBER	QUANTITY
1.	Hour Meter	KSPW0022	1
2.	Vertical Speed Indicator (Feet per Minute) *	KSAV0008	1
2.	Vertical Speed Indicator (Meters per Second) *	KSAV0009	1
3.	Altimeter *	KSAV0001	1
3.	Altimeter with Window *	KSAV0002	1
3.	Altimeter with Millibar - Metric *	KSAV0003	1
4.	Air Speed Indicator, 0-120	KSAV0004	1
5.	Ignition Switch	MS35058-22	2
6.	Exhaust Gas Temperature Gauge *	KSPW0008	1
7.	Cylinder Head Temperature Gauge	KSPW0010	1
7.	Dual Cylinder Head Temperature Gauge *	KSPW0012	1
8.	RPM Gauge	KSPW0028	1
9.	14 Gauge Female Spade Terminal, Blue	IP-7128	7
10.	3/16" Shear Nut	AN364-1032A	2
11.	Line Clamp, 3/8"	FS-LCL 3/8	7
12.	Straight Withdrawal Fitting	8330	2
13.	Line Tee	8338	1
14.	14 Gauge Black Wire	14 GA WIRE/BLACK	20 ft
15.	14 Gauge Eye Terminal, Blue 3/16"	IP-7102	6
16.	14 Gauge Eye Terminal, Blue 5/32"	KSES0003	4
17.	EGT End Plug **	KSPW0008-1	0
18.	Female Terminal ***	KSPW0010-1	0
19.	14 Gauge Red Wire	14 GA WIRE/RED	14 ft
20.	Terminal Y Connector, Brass	IP-YC	1
21.	CHT Wire, Red ***	KSPW0010-2	0
22.	14 Gauge Splice, Butt Connector	IP-7132	2
23.	25 AMP Fuse	KSES0020-25	1
24.	14 Gauge White Wire	14 GA WIRE/WHITE	6 ft
25.	Regulator/Rectifier	KSES0005	1
26.	14 Gauge, In Line Fuse Holder	KSES0019	1
27.	CHT Wire, Black ***	KSPW0010-4	0
28.	Pan Head Phillips Bolt (10-32)	KSHW0006	2
29.	EGT Wires **	KSPW0008-2	0
30.	1/4" Fuel/Pitot/Static Line, Blue	FS-FL	25 ft
31.	14 Gauge Male Spade Terminal, Blue	IP-7126	7
32.	EGT Probe **	KSPW0008-3	0
33.	Shrink Wrap	KSAC0009	1 ft
34.	CHT Probe ***	KSPW0010-3	0
35.	14 Gauge Yellow Wire	14 GA WIRE/YELLOW	6 ft
36.	3/16" Large Washer	AN970-3	2
37.	Female Bullet Terminal	02-09-1103	4

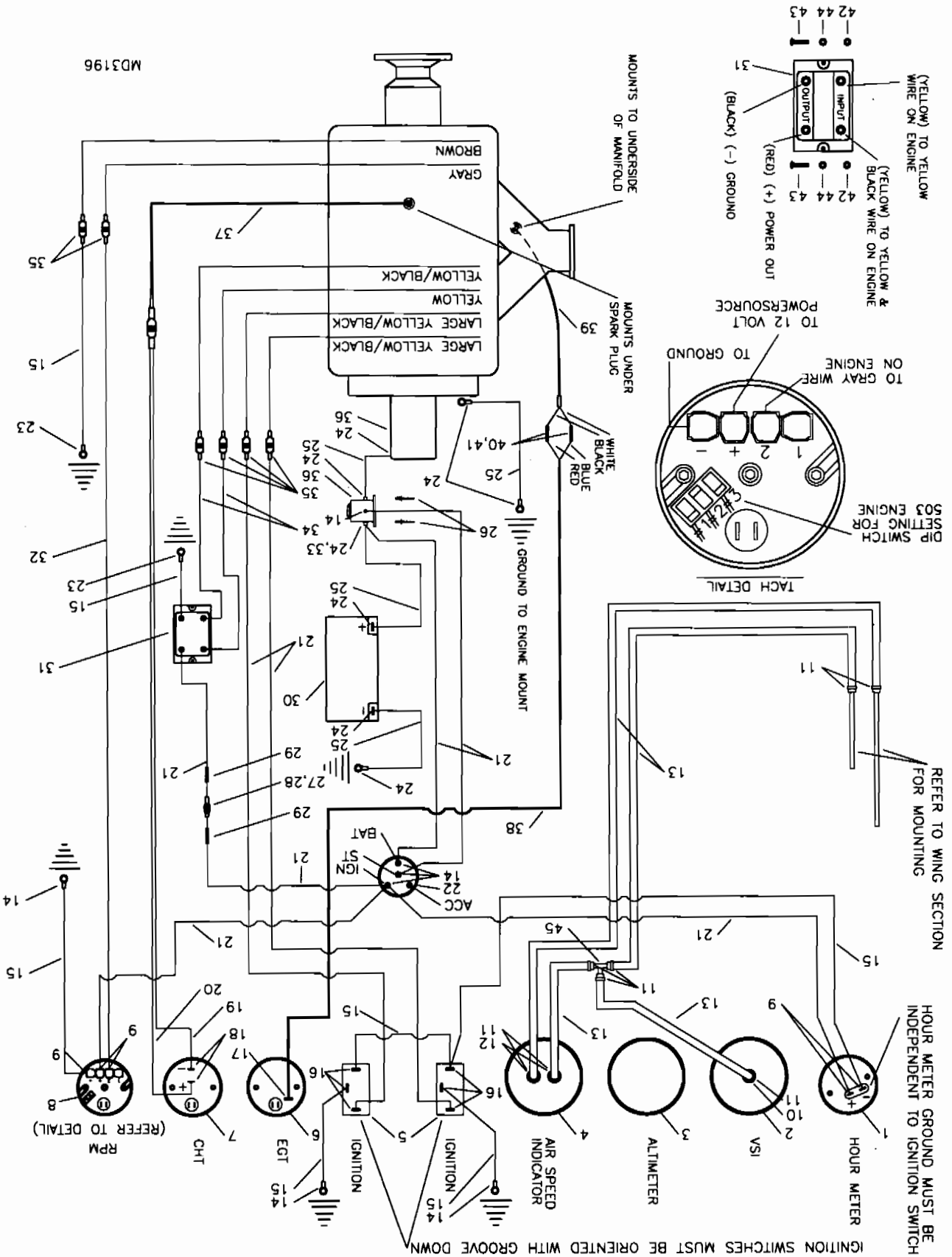
*Optional gauge.

**Supplied with EGT.

***Supplied with CHT.

RRMS S-14 AIRALE 503 INSTRUMENTS AND ELECTRICAL WITH OPTIONAL ELECTRIC START

MD3196



S-14 AIRAILE - 503 INSTRUMENTS & ELECTRICAL - WITH OPTIONAL ELECTRIC START

NOTE: Gauges may vary, consult directions provided with gauge for wiring diagram.

#	DESCRIPTION	PART NUMBER	QUANTITY
1.	Hour Meter	KSPW0022	1
2.	Vertical Speed Indicator (Feet per Minute) *	KSAV0008	1
2.	Vertical Speed Indicator (Meters per Second) *	KSAV0009	1
3.	Altimeter *	KSAV0001	1
3.	Altimeter with Window *	KSAV0002	1
3.	Altimeter with Millibar - Metric *	KSAV0003	1
4.	Air Speed Indicator, 0-120	KSAV0004	1
5.	Ignition Switch	MS35058-23	2
6.	Exhaust Gas Temperature Gauge *	KSPW0008	1
7.	Cylinder Head Temperature Gauge	KSPW0010	1
7.	Dual Cylinder Head Temperature Gauge *	KSPW0012	1
8.	RPM Gauge	KSPW0028	1
9.	14 Gauge Female Spade Terminal, Blue	IP-7128	5
10.	90 Withdrawal Fitting	8342	1
11.	Line Clamp, 3/8"	FS-LCL 3/8	8
12.	Straight Withdrawal Fitting	8330	2
13.	1/4" Fuel/Pitot/Static Line, Blue	FS-FL	25 ft
14.	14 Gauge Eye Terminal, Blue 3/16"	IP-7102	7
15.	14 Gauge Black Wire	14 GA WIRE/BLACK	20 ft
16.	14 Gauge Eye Terminal, Blue 5/32"	KSES0003	6
17.	EGT End Plug **	KSPW0008-1	0
18.	Female Terminal ***	KSPW0010-1	0
19.	CHT Wire, Black ***	KSPW0010-4	0
20.	CHT Wire, Red ***	KSPW0010-2	0
21.	14 Gauge Red Wire	14 GA WIRE/RED	18 ft
22.	Key Start Switch	25-6	1
23.	14 Gauge Eye Terminal, Blue 1/4"	1/4 EYE 14 GA	2
24.	4 Gauge Eye Cable Terminal	4 GA CABLE LUG	8
25.	4 Gauge Battery Cable, Black Wire	4 GA WIRE/BLACK	20 ft
26.	3/16" Aluminum Pop Rivet - Cherry Q	AAPQ-64	2
27.	14 Gauge, In Line Fuse Holder	KSES0019	1
28.	25 AMP Fuse	KSES0020-25	1
29.	14 Gauge Splice, Butt Connector	IP-7132	2
30.	Battery ****	PS12150-NB	0
31.	Regulator/Rectifier	KSES0005	1
32.	14 Gauge White Wire	14 GA WIRE/WHITE	7 ft
33.	14 Gauge Eye Terminal, Blue 5/16"	5/16 I TERM	1
34.	14 Gauge Yellow Wire	14 GA WIRE/YELLOW	6 ft
35.	14 Gauge Male Spade Terminal, Blue	IP-7126	6
36.	Electric Starter Kit (503)	MESK-1-503	1
37.	CHT Probe ***	KSPW0010-3	0
38.	EGT Wires **	KSPW0008-2	0
39.	EGT Probe **	KSPW0008-3	0
40.	Female Bullet Terminal	02-09-1103	4

*Optional gauge.

**Supplied with EGT.

***Supplied with CHT.

****Referenced from battery box installation.

S-14 AIRAILE - 503 INSTRUMENTS & ELECTRICAL - WITH OPTIONAL ELECTRIC START-continued

NOTE: Gauges may vary, consult directions provided with gauge for wiring diagram.

#	DESCRIPTION	PART NUMBER	QUANTITY
41.	Shrink Wrap	KSAC0009	1 ft
42.	3/16" Shear Nut	AN364-1032A	2
43.	Pan Head Phillips Bolt (10-32)	KSHW0006	2
44.	3/16" Large Washer	AN970-3	2
45.	Line Tee	8338	1

*Optional gauge.

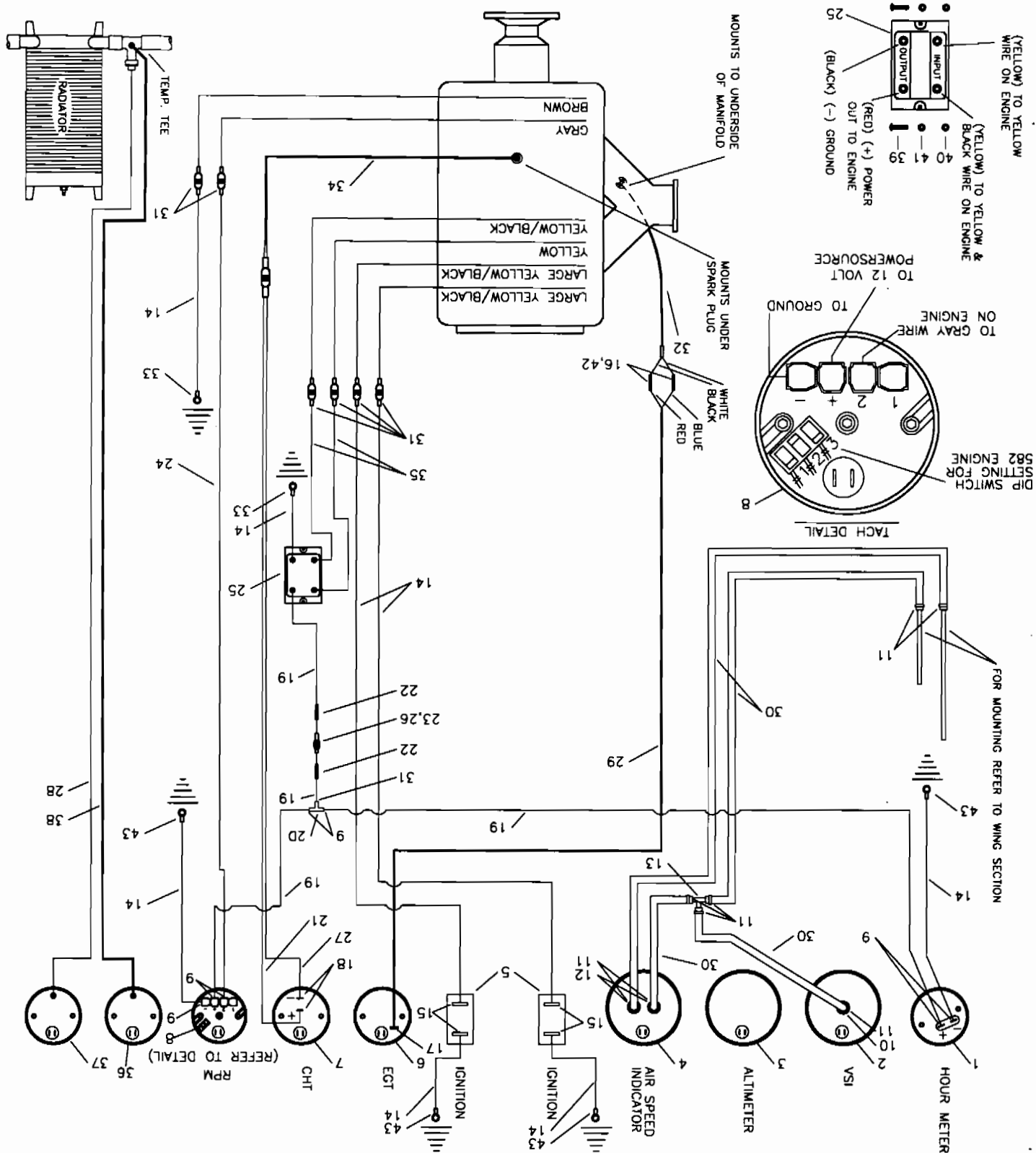
**Supplied with EGT.

***Supplied with CHT.

****Referenced from battery box installation.

582 INSTRUMENTS AND ELECTRICAL RPM S-14 AIRALE WITHOUT ELECTRIC START

MD3203



S-14 AIRAILE - 582 INSTRUMENTS & ELECTRICAL - WITHOUT ELECTRIC START

NOTE: Gauges may vary, consult directions provided with gauge for wiring diagram.

#	DESCRIPTION	PART NUMBER	QUANTITY
1.	Hour Meter	KSPW0022	1
2.	Vertical Speed Indicator (Feet per Minute) *	KSAV0008	1
2.	Vertical Speed Indicator (Meters per Second) *	KSAV0009	1
3.	Altimeter *	KSAV0001	1
3.	Altimeter with Window *	KSAV0002	1
3.	Altimeter with Millibar - Metric *	KSAV0003	1
4.	Air Speed Indicator, 0-120	KSAV0004	1
5.	Ignition Switch	MS35058-22	2
6.	Exhaust Gas Temperature Gauge	KSPW0008	1
7.	Cylinder Head Temperature Gauge *	KSPW0010	1
7.	Dual Cylinder Head Temperature Gauge *	KSPW0012	1
8.	RPM Gauge	KSPW0028	1
9.	14 Gauge Female Spade Terminal, Blue	IP-7128	7
10.	90 Withdrawal Fitting	8342	1
11.	Line Clamp, 3/8"	FS-LCL 3/8	8
12.	Straight Withdrawal Fitting	8330	2
13.	Line Tee	8338	1
14.	14 Gauge Black Wire	14 GA WIRE/BLACK	20 ft
15.	14 Gauge Eye Terminal, Blue 5/32"	KSES0003	4
16.	Female Bullet Terminal	02-09-1103	4
17.	EGT End Plug **	KSPW0008-1	0
18.	Female Terminal ***	KSPW0010-1	0
19.	14 Gauge Red Wire	14 GA WIRE/RED	18 ft
20.	Terminal Y Connector, Brass	IP-YC	1
21.	CHT Wire, Red ***	KSPW0010-2	0
22.	14 Gauge Splice, Butt Connector	IP-7132	2
23.	25 AMP Fuse	KSES0020-25	1
24.	14 Gauge White Wire	14 GA WIRE/WHITE	6 ft
25.	Regulator/Rectifier	KSES0005	1
26.	14 Gauge, In Line Fuse Holder	KSES0019	1
27.	CHT Wire, Black ***	KSPW0010-4	0
28.	Coolant Temperature Probe *****	KSPW0014-1	0
29.	EGT Wires **	KSPW0008-2	0
30.	1/4" Fuel/Pitot/Static Line, Blue	FS-FL	25 ft
31.	14 Gauge Male Spade Terminal, Blue	IP-7126	7
32.	EGT Probe **	KSPW0008-3	0
33.	14 Gauge Eye Terminal, Blue 1/4"	1/4 EYE 14 GA	2
34.	CHT Probe ***	KSPW0010-3	0
35.	14 Gauge Yellow Wire	14 GA WIRE/YELLOW	6 ft
36.	Coolant Pressure Gauge	KSPW0021	1
37.	Water Temperature Gauge, Electrical *****	KSPW0016	0
38.	1/8" Black Coolant Pressure Line *****	KSFS0001	0 ft
39.	Pan Head Phillips Bolt (10-32)	KSHW0006	2
40.	3/16" Shear Nut	AN364-1032A	2
41.	3/16" Large Washer	AN970-3	2
42.	Shrink Wrap	KSAC0009	1 ft
43.	14 Gauge Eye Terminal, Blue 3/16"	IP-7102	4

*Optional gauge.

**Supplied with EGT.

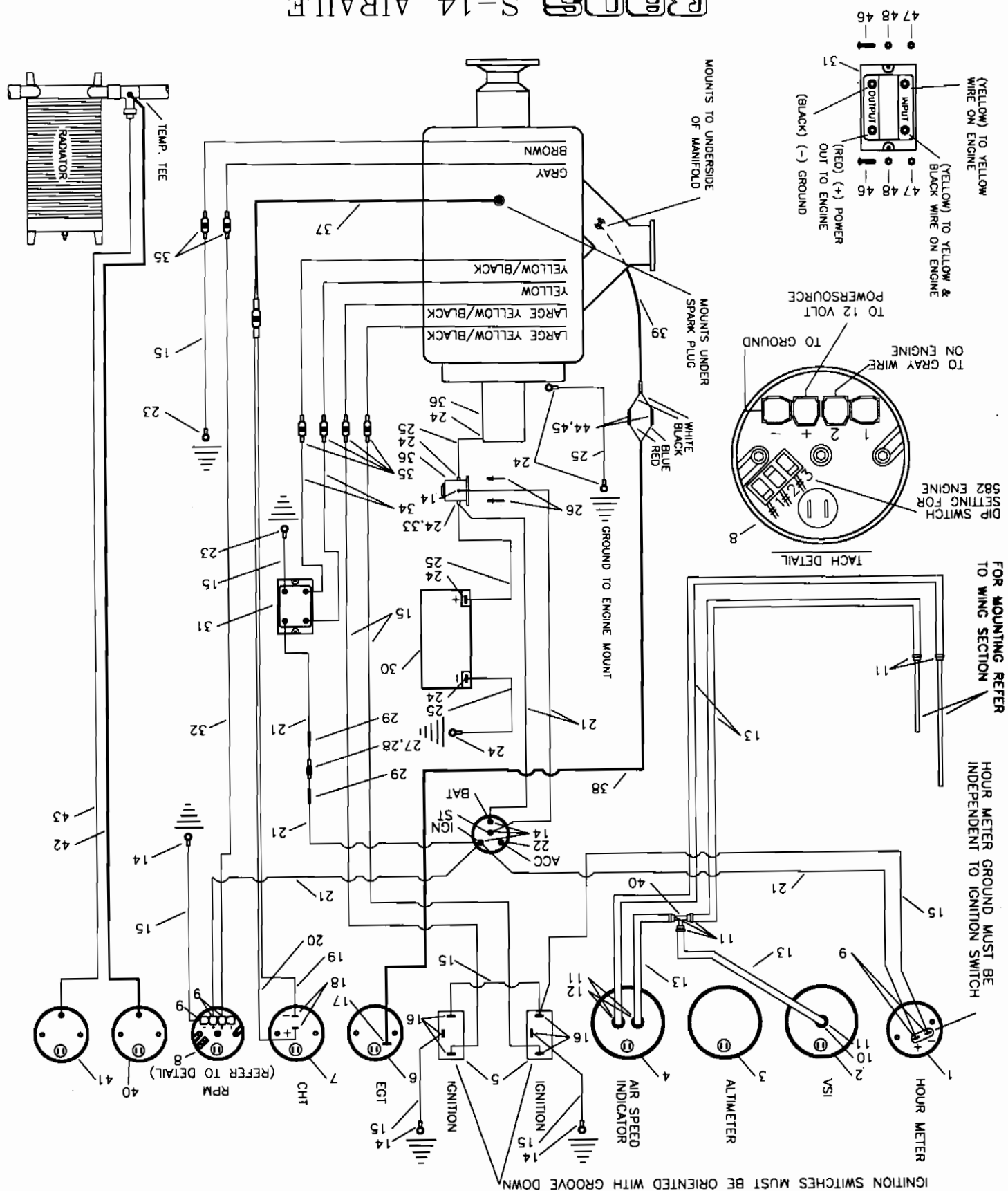
***Supplied with CHT.

*****Referenced from cooling system.

*****Supplied with coolant temperature gauge.

RRMS S-14 AIRALE 582 INSTRUMENTS AND ELECTRICAL WITH OPTIONAL ELECTRIC START

MD3200



S-14 AIRAILE - 582 INSTRUMENTS & ELECTRICAL - WITH OPTIONAL ELECTRIC START

NOTE: Gauges may vary, consult directions provided with gauge for wiring diagram.

#	DESCRIPTION	PART NUMBER	QUANTITY
1.	Hour Meter	KSPW0022	1
2.	Vertical Speed Indicator (Feet per Minute) *	KSAV0008	1
2.	Vertical Speed Indicator (Meters per Second) *	KSAV0009	1
3.	Altimeter *	KSAV0001	1
3.	Altimeter with Window *	KSAV0002	1
3.	Altimeter with Millibar - Metric *	KSAV0003	1
4.	Air Speed Indicator, 0-120	KSAV0004	1
5.	Ignition Switch	MS35058-23	2
6.	Exhaust Gas Temperature Gauge	KSPW0008	1
7.	Cylinder Head Temperature Gauge *	KSPW0010	1
7.	Dual Cylinder Head Temperature Gauge *	KSPW0012	1
8.	RPM Gauge	KSPW0028	1
9.	14 Gauge Female Spade Terminal, Blue	IP-7128	5
10.	90 Withdrawal Fitting	8342	1
11.	Line Clamp, 3/8"	FS-LCL 3/8	8
12.	Straight Withdrawal Fitting	8330	2
13.	1/4" Fuel/Pitot/Static Line, Blue	FS-FL	25 ft
14.	14 Gauge Eye Terminal, Blue 3/16"	IP-7102	7
15.	14 Gauge Black Wire	14 GA WIRE/BLACK	20 ft
16.	14 Gauge Eye Terminal, Blue 5/32"	KSES0003	6
17.	EGT End Plug **	KSPW0008-1	0
18.	Female Terminal ***	KSPW0010-1	0
19.	CHT Wire, Black ***	KSPW0010-4	0
20.	CHT Wire, Red ***	KSPW0010-2	0
21.	14 Gauge Red Wire	14 GA WIRE/RED	18 ft
22.	Key Start Switch	25-6	1
23.	14 Gauge Eye Terminal, Blue 1/4"	1/4 EYE 14 GA	2
24.	4 Gauge Eye Cable Terminal	4 GA CABLE LUG	8
25.	4 Gauge Battery Cable, Black Wire	4 GA WIRE/BLACK	20 ft
26.	3/16" Aluminum Pop Rivet - Cherry Q	AAPQ-64	2
27.	14 Gauge, In Line Fuse Holder	KSES0019	1
28.	25 AMP Fuse	KSES0020-25	1
29.	14 Gauge Splice, Butt Connector	IP-7132	2
30.	Battery ****	PS12150-NB	0
31.	Regulator/Rectifier	KSES0005	1
32.	14 Gauge White Wire	14 GA WIRE/WHITE	7 ft
33.	14 Gauge Eye Terminal, Blue 5/16"	5/16 I TERM	1
34.	14 Gauge Yellow Wire	14 GA WIRE/YELLOW	6 ft
35.	14 Gauge Male Spade Terminal, Blue	IP-7126	6
36.	Electric Starter Kit - 582	MESK-3-582	1
37.	CHT Probe ***	KSPW0010-3	0
38.	EGT Wires **	KSPW0008-2	0
39.	EGT Probe **	KSPW0008-3	0
40.	Coolant Pressure Gauge	KSPW0021	1

*Optional gauge.

**Supplied with EGT.

***Supplied with CHT.

****Referenced from battery box installation.

*****Referenced from 582 cooling system.

*****Supplied with coolant temperature gauge.

S-14 AIRAILE - 582 INSTRUMENTS & ELECTRICAL - WITH OPTIONAL ELECTRIC START-continued

NOTE: Gauges may vary, consult directions provided with gauge for wiring diagram.

#	DESCRIPTION	PART NUMBER	QUANTITY
41.	Water Temperature Gauge, Electrical *****	KSPW0016	0
42.	Coolant Pressure Line *****	1/8 FUEL LINE	0 ft
43.	Coolant Temperature Probe *****	KSPW0014-1	0
44.	Female Bullet Terminal	02-09-1103	4
45.	Shrink Wrap	KSAC0009	1 ft
46.	Pan Head Phillips Bolt (10-32)	KSHW0006	2
47.	3/16" Shear Nut	AN364-1032A	2
48.	3/16" Large Washer	AN970-3	2

*Optional gauge.

**Supplied with EGT.

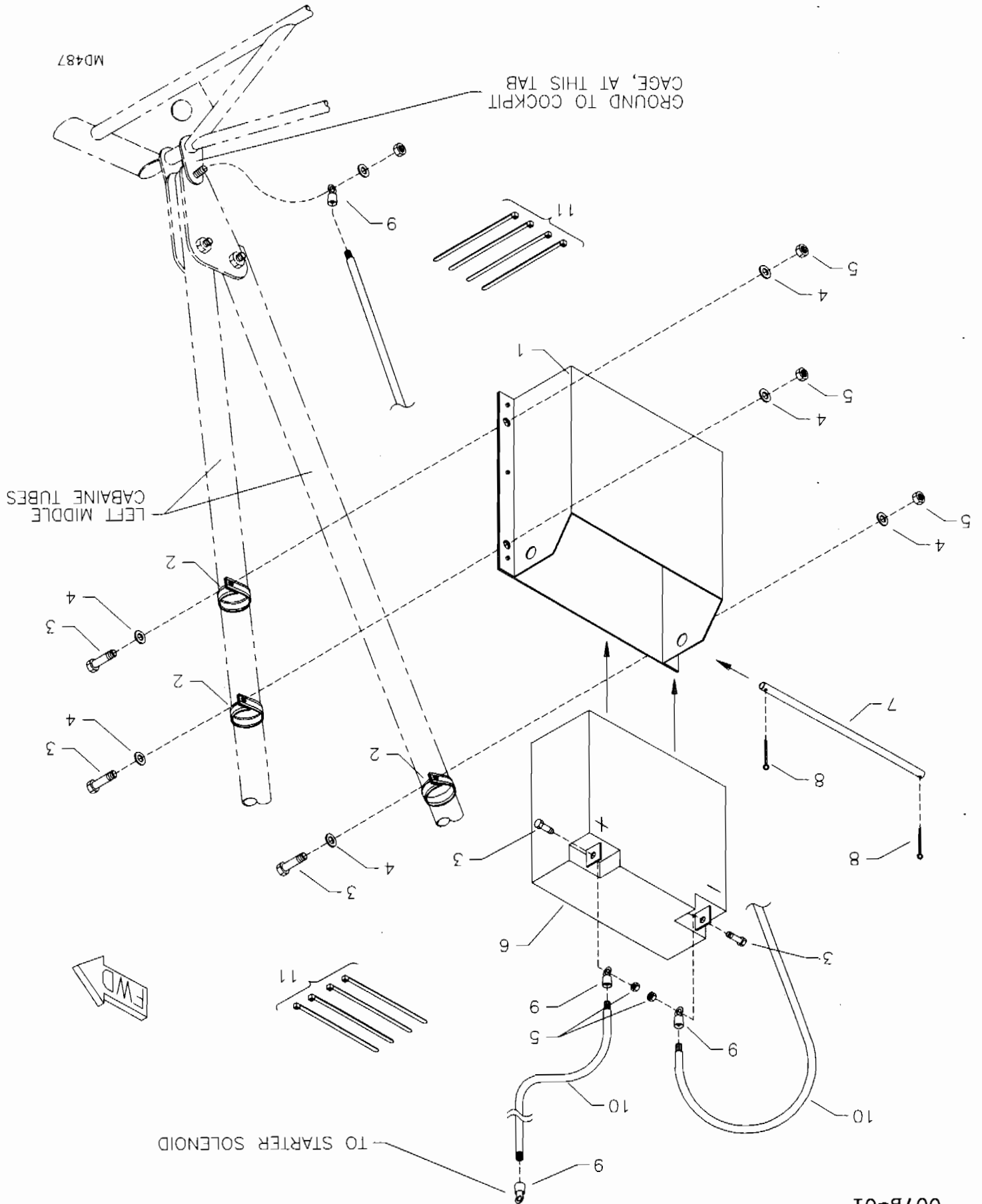
***Supplied with CHT.

****Referenced from battery box installation.

*****Referenced from 582 cooling system.

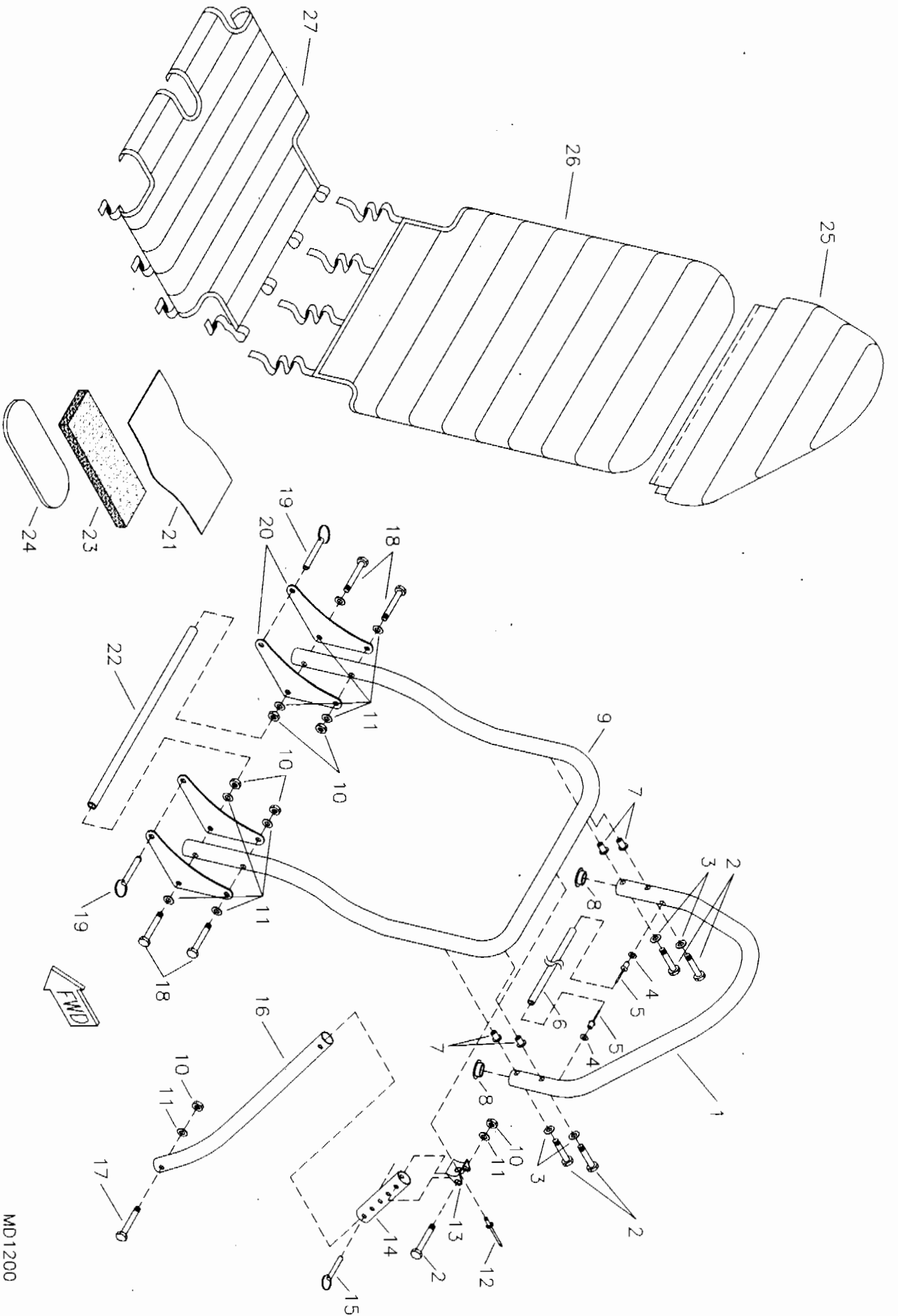
*****Supplied with coolant temperature gauge.

RMS S-14 AIRAILE BATTERY BOX ASSEMBLY



S-14 AIRAILE BATTERY BOX INSTALLATION

#	DESCRIPTION	PART NUMBER	QUANTITY
1.	Battery Box	BAT-BOX	1
2.	1" Cushioned Clamp	MS21919-DG16	3
3.	3/16" Bolt	AN3-4A	5
4.	3/16" Thin Washer	AN960-10L	6
5.	3/16" Shear Nut	AN364-1032A	5
6.	Battery, 582	PS-12150-NB	1
7.	Battery Bar	BAT-BAR	1
8.	Small Cotter Pin	MS24665-134	2
9.	4 Gauge Eye Terminal	REFERENCE ONLY	0
10.	Battery Cable	REFERENCE ONLY	0
11.	Zip Ties	ZIP TIES	8



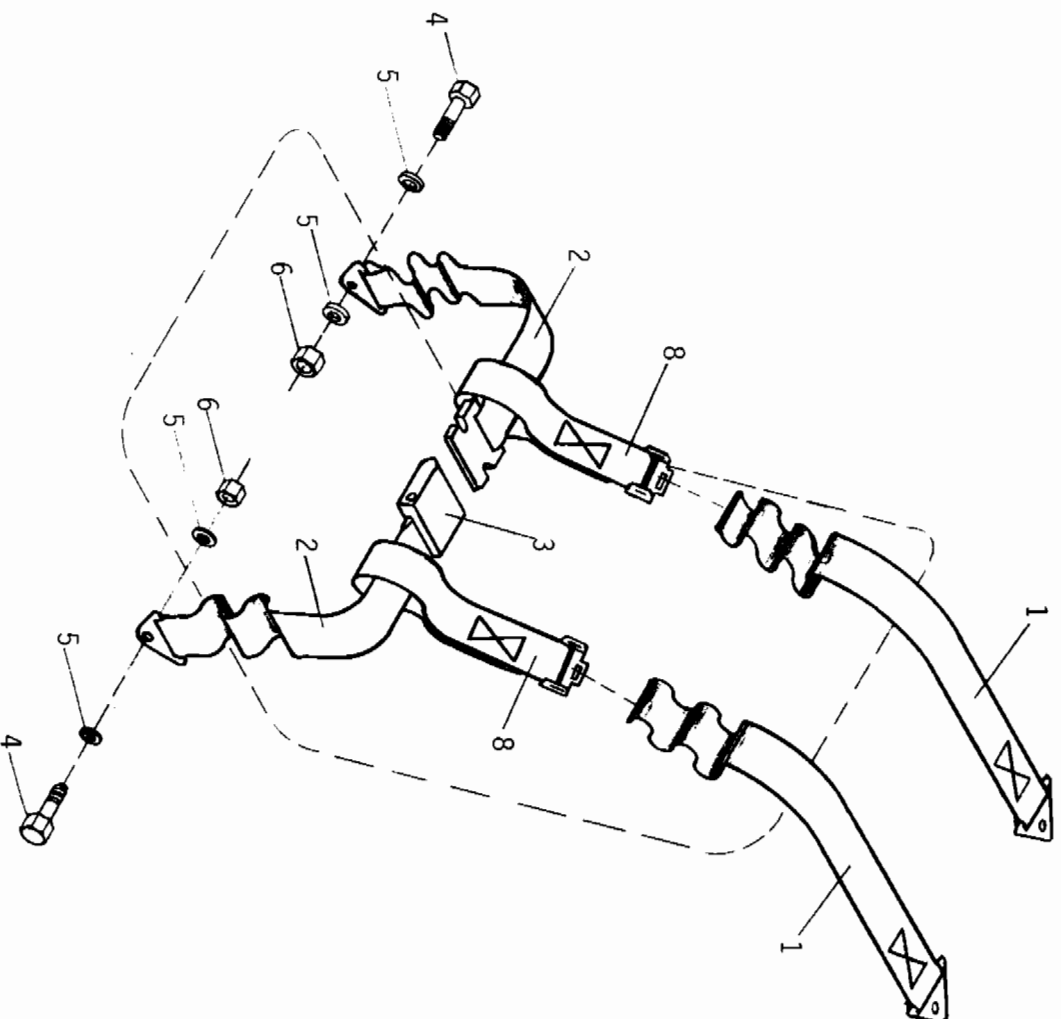
RA-119 S-14 AIRFRAME SEAT & HEADREST ASSEMBLY

MD1200

S-14 AIRAILE - SEAT/HEADREST

#	DESCRIPTION	PART NUMBER	QUANTITY
1.	Headrest Frame	ST-HRF	1
2.	3/16" Bolt	AN3-13A	5
3.	3/16" Thin Washer	AN960-10L	4
4.	3/16" Thick Washer	AN960-10	2
5.	3/16" Aluminum Pop Rivet - Cherry Q	AAPQ-64	2
6.	Headrest Internal Brace *	ST-HRIB	1
7.	3/16" Rivet Nut	MS27130-A25K	4
8.	1" End Cap	1 CAP	2
9.	Seat Back Frame	ST-SBF	1
10.	3/16" Shear Nut	AN364-1032A	6
11.	3/16" Thin Washer	AN960-10L	10
12.	3/16" Stainless Steel Pop Rivet - Cherry Q	CCPQ-64	1
13.	Stainless Steel Hinge	W-HB	1
14.	Seat Support Flute Tube	KPST0017	1
15.	3/16" Quick Pin	PIN-3/16X.9	1
16.	Seat Support Tube	KPST0018	1
17.	3/16" Bolt	AN3-11A	1
18.	3/16" Bolt	AN3-14A	4
19.	1/4" Quick Pin	PIN 1/4X1.2	2
20.	Seat Back Gusset	ST-GUS	4
21.	Armrest Cover	ST-ARC	1
22.	Seat Back Lower Tube *	ST-SBLT	1
23.	Armrest Foam	ST-ARF	1
24.	Armrest Frame	ST-ARFR	1
25.	Headrest Cover	ST-HRC	1
26.	Seat Back Cover	ST-SBC	1
27.	Seat Bottom Cover	ST-SBOT	1

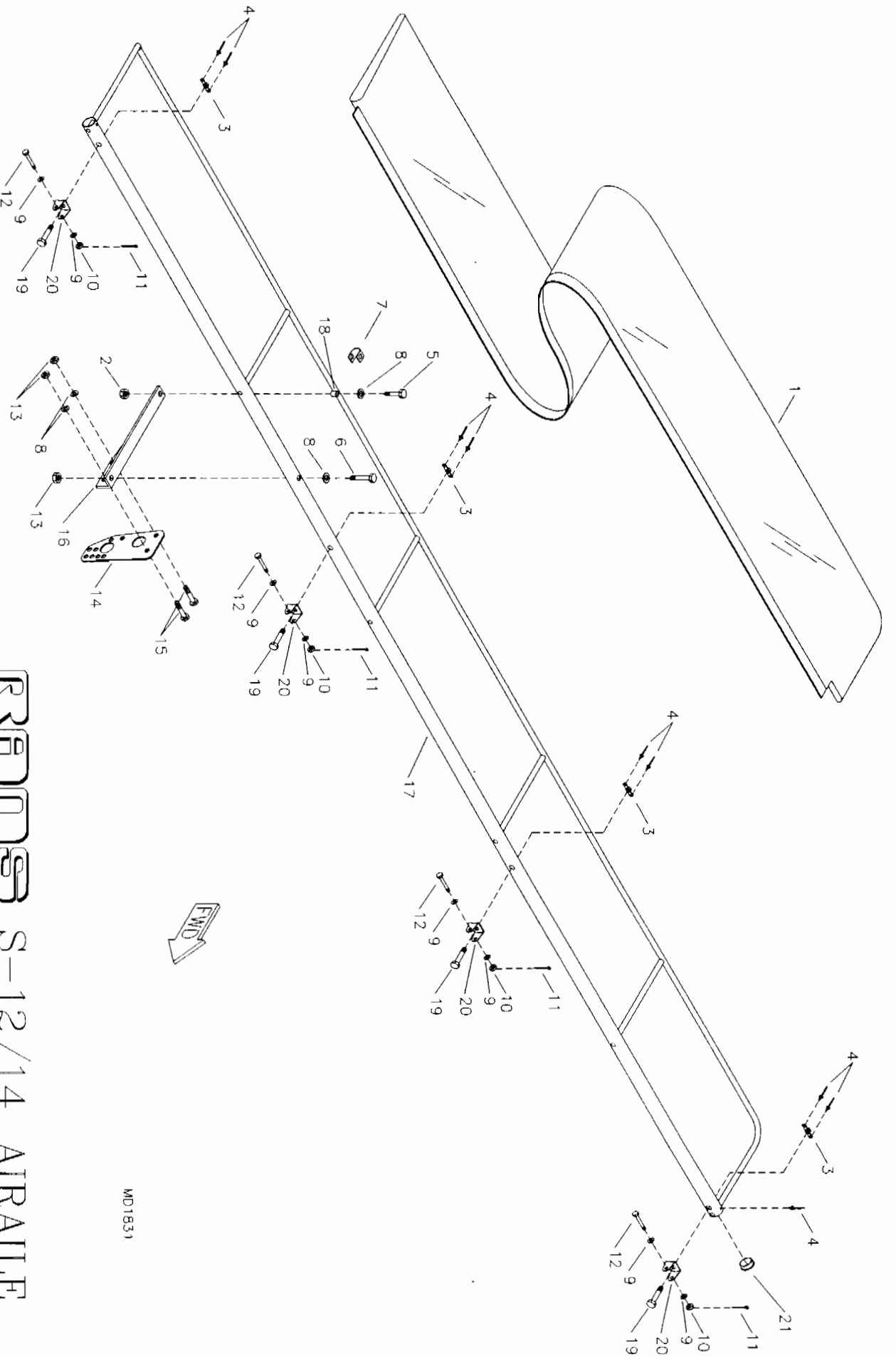
*Fabricate from 1/2" aluminum tube.



S-14 AIRRAIL SEAT BELT SYSTEM

#	DESCRIPTION	PART NUMBER	QUANTITY
1.	Seat Shoulder Strap *	ST-SHLD	2
2.	Seat Lap Belt, Clip Side	ST-CLIP(14)	1
3.	Lap Belt Buckle	ST-BUC(4/5/14)	1
4.	1/4" Bolt	AN4-5A	2
5.	1/4" Thin Washer	AN960-416L	4
6.	1/4" Shear Nut	AN364-428A	2
7.	Lap Belt Adjust Side	ST-LB-ADJ(14)	1
8.	Shoulder Strap Adjustor	ST-SHLD-ADJ(4/5/14)	2

*Assembled with super structure.



RRMDS S-12/14 AIRAILE
AILERON ASSEMBLY

MD1831

S-14 AIRAILE - AILERON

#	DESCRIPTION	PART NUMBER	QUANTITY
1.	Aileron Cover, 14 **	-----	0
2.	3/16" Shear Acorn Nut	22NKM02	2
3.	3/16" Nut Plate	K-1000-3	8
4.	3/32" Aluminum Pop Rivet	40APR1/8	18
5.	3/16" Bolt	AN3-10A	2
6.	3/16" Bolt	AN3-14A	2
7.	Aileron Clip	W-A-CLIP	2
8.	3/16" Thin Washer	AN960-10L	8
9.	3/16" Thick Washer	AN960-10	16
10.	3/16" Castle Nut	AN310-3	8
11.	Small Cotter Pin	MS24665-134	8
12.	3/16" Bolt	AN3-15	8
13.	3/16" Shear Nut	AN364-1032A	6
14.	Unihorn	UNI-HORN	2
15.	3/16" Bolt	AN3-4A	4
16.	Flap/Aileron Horn Attach Angle, LH	S14-W-AHAA-L	1
16.	Flap/Aileron Horn Attach Angle, RH	S14-W-AHAA-R	1
17.	Aileron Frame, (STD)	S-14/116 W-AF-T2	2
17.	Aileron Frame (139 Wing)	S6-W-AF	2
18.	Spacer Bushing, 1/4" X 1/2" *	SB-1/4X1/2	2
19.	3/16" Bolt	AN3-13A	8
20.	Stainless Steel Hinge	W-HB	8
21.	1" End Cap	1 CAP	2

*Fabricate, see sheet in manual.

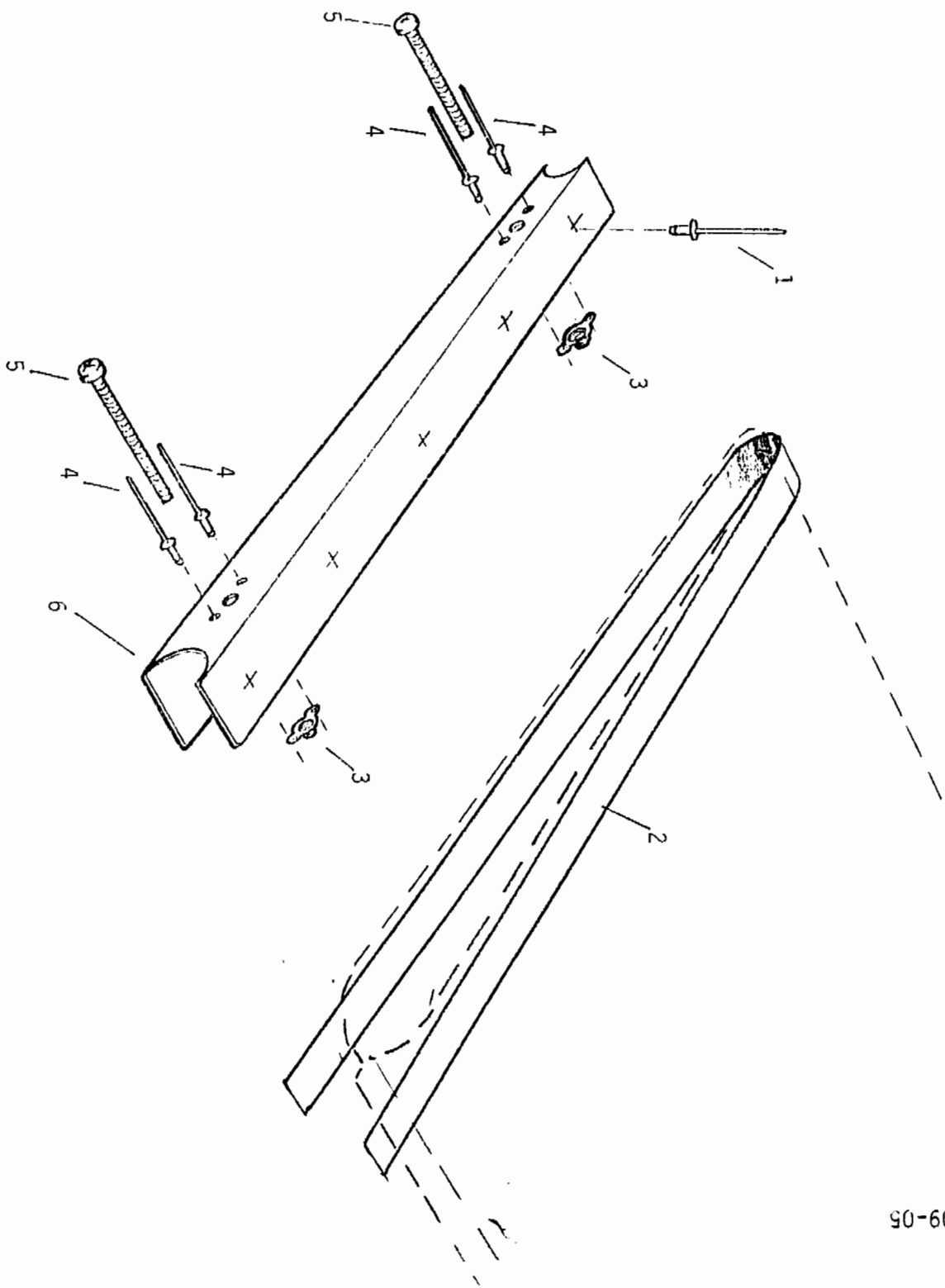
**See Wing Covering.



RRAN-8 S-14 AIRAILE FLAP SYSTEM ASSEMBLY

#	DESCRIPTION	PART NUMBER	QUANTITY
1.	3/16" Thin Washer	AN960-10L	20
2.	3/16" Bolt	AN3-10A	2
3.	3/16" Bolt	AN3-14A	2
4.	Aileron Clip	W-A-CLIP	2
5.	Spacer Bushing, 1/4" x .028 x 1/2" *	KAAC0018-2	0
6.	Small Cotter Pin	MS24665-134	6
7.	3/16" Bolt	AN3-13A	9
8.	3/16" Bolt	AN3-15	8
9.	3/16" Thick Washer	AN960-10	20
10.	Flap Dual Teleflex Retainer Forward (S-12 Style)	FL-DTR-FWD	1
11.	#10 SS Washer	BSHW0022	2
12.	Female Rod End	NF-3	2
13.	3/16" Castle Nut	AN310-3	6
14.	Flap/Aileron Horn Attach Angle, LH	S14-W-AHAA-L	1
14.	Flap/Aileron Horn Attach Angle, RH	S14-W-AHAA-R	1
15.	3/16" Shear Nut	AN364-1032A	9
16.	Flap Lever Assembly, 7' Teleflex	FL-FLAP-M	1
17.	Flap Frame (STD)	S14-W-FF-14	2
17.	Flap Frame (139)	S12-W-FF-151-T2	2
18.	3/16" Bolt	AN3-4A	6
19.	Unihorn	UNI-HORN	2
20.	Flap Dual Teleflex Retainer AFT	FL-DTR-AFT	1
21.	Shackle	RL-205-T	2
22.	Flap Return Spring	FL-FLAP-SPR	2
23.	Flap Lever Cover	FL-COV	1
24.	Flap Teleflex Clip	FL-CLIP	2
25.	Teleflex Retainer	W-TEL-R	1
26.	Safety Wire	SAFETY WIRE	1
27.	Flap Teleflex, 8', LH	W-F-TELFEX-8	1
28.	3/16" Tensile Nut	AN365-1032A	2
29.	Insert Nut	KPAC0012	2
30.	3/16" Nut Plate	K-1000-3	8
31.	3/32" Aluminum Pop Rivet	40APR1/8	18
32.	1" End Cap	1 CAP	2
33.	3/16" Bolt	AN3-7A	3
34.	3/16" Shear Acorn Nut	22NKM02	4
35.	Flap Teleflex, 8', RH	W-F-TELFEX-8	1
36.	Stainless Steel Hinge	W-HB	8
37.	3/16" Stainless Steel Pop Rivet - Cherry Q	CCPQ-64	3
38.	Aluminum Bushing, 1/4 X .028 X 1/8" *	KAAC0018-2	0
39.	3/16" Bolt	AN3-3A	2
40.	Loctite Blue	LOC-TITE	0

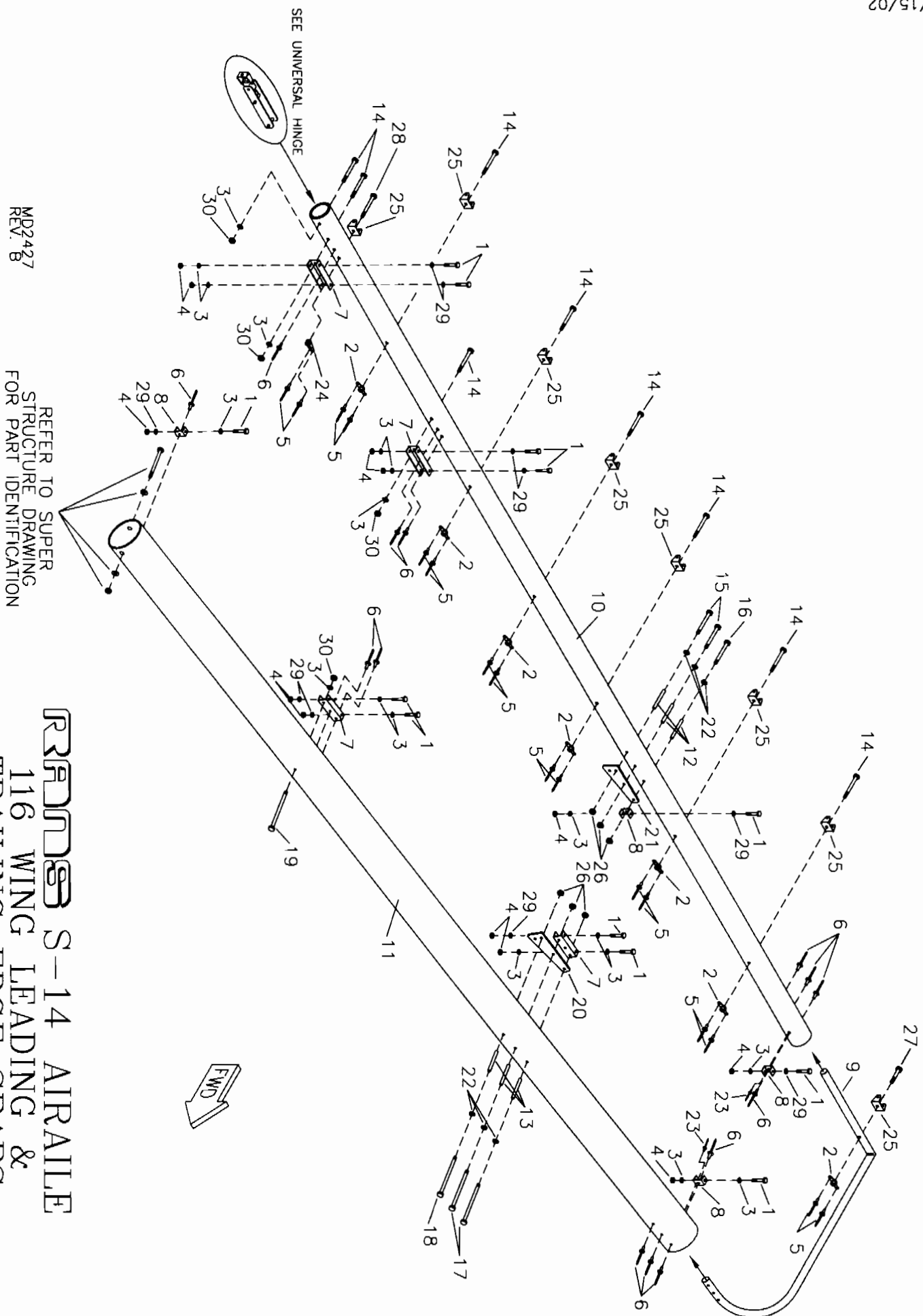
*Builder must fabricate from raw stock.



AILERON AND FLAP TENSION RIB **MODELS: S-6ES, S-12, AND S-14**

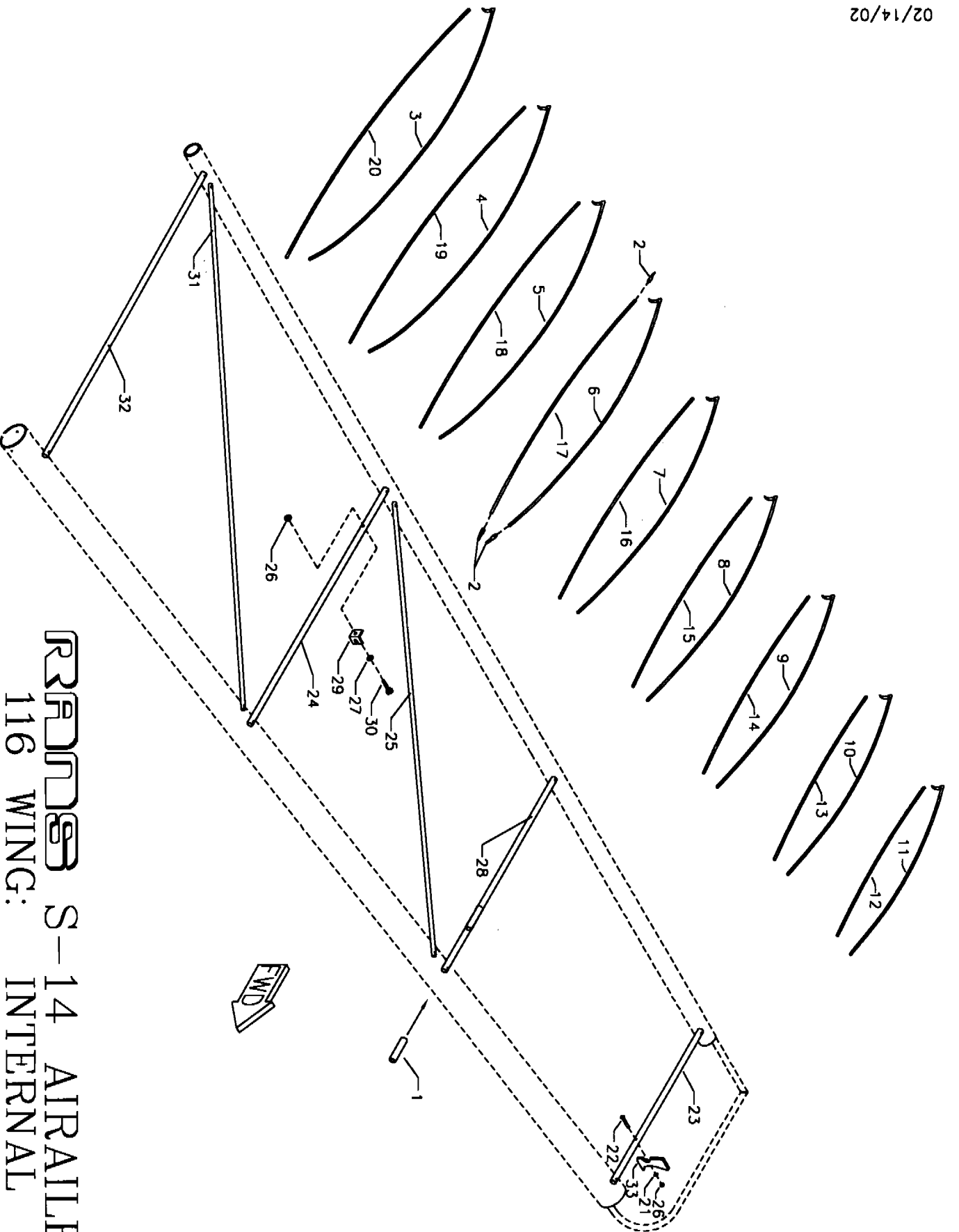
S-14 AIRAILE - AILERON AND FLAP TENSION RIB

#	DESCRIPTION	PART NUMBER	QUANTITY
1.	1/8" Aluminum Pop Rivet - Cherry Q	AAPQ-42	40
2.	Aluminum Strip, 18" X 5/8" X .020	AF-TRS	4
3.	3/16" Nut Plate	K-1000-3	8
4.	3/32" Aluminum Pop Rivet	40APR1/8	16
5.	Aileron Flap Tension Screw	10/32 X 2 1/2SSPAN	8
6.	Aileron Flap Tension Rib	AF-TR	4



S-14 AIRAILLE
116 WING LEADING & TRAILING EDGE SPARS

#	DESCRIPTION	PART NUMBER	QUANTITY
1.	3/16" Bolt	AN3-15A	24
2.	3/16" Nut Plate	K-1000-3	14
3.	3/16" Thin Washer	AN960-10L	36
4.	3/16" Shear Nut	AN364-1032A	24
5.	3/32" Aluminum Pop Rivet	40APR1/8	32
6.	3/16" Stainless Steel Pop Rivet - Cherry Q	CCPQ-64	28
7.	Long Wing Channel	W-WCL	8
8.	Horizontal Stabilizer Attach Bracket	S2-SAB	8
9.	Wing Tip	W-TB-116	2
10.	Trailing Edge Spar	W-TES-116	2
11.	Leading Edge Spar	W-LES-116	2
12.	Spacer Bushing, 3/8" x .058 x 2"	SB-3/8X2	6
13.	Spacer Bushing, 3/8" x .058 x 3"	SB-3/8X3	6
14.	3/16" Bolt	AN3-23A	18
15.	1/4" Bolt	AN4-25ALP	4
16.	1/4" Bolt	AN4-26ALP	2
17.	1/4" Bolt	AN4-36ALP	4
18.	1/4" Bolt	AN4-35ALP	2
19.	3/16" Bolt	AN3-34ALP	2
20.	FWD Strut Plate	W-SAP-LE	2
21.	AFT Strut Plate	W-SAP-TE	2
22.	1/4" Thin Washer	AN960-416L	12
23.	1/8" Stainless Steel Pop Rivet - Cherry Q	CCPQ-42	4
24.	3/16" Single Ear Nut Plate	MS21051-L3	2
25.	Stainless Steel Hinge	W-HB	16
26.	1/4" Shear Nut	AN364-428A	12
27.	3/16" Bolt	AN3-13A	2
28.	3/16" Bolt	AN3-24A	2
29.	3/16" Thick Washer	AN960-10	24
30.	3/16" Tensile Nut	AN365-1032A	8



MP372
REV. A

REFUND S-14 AIRAILLE
116 WING: INTERNAL
BRACING TUBES & RIBS

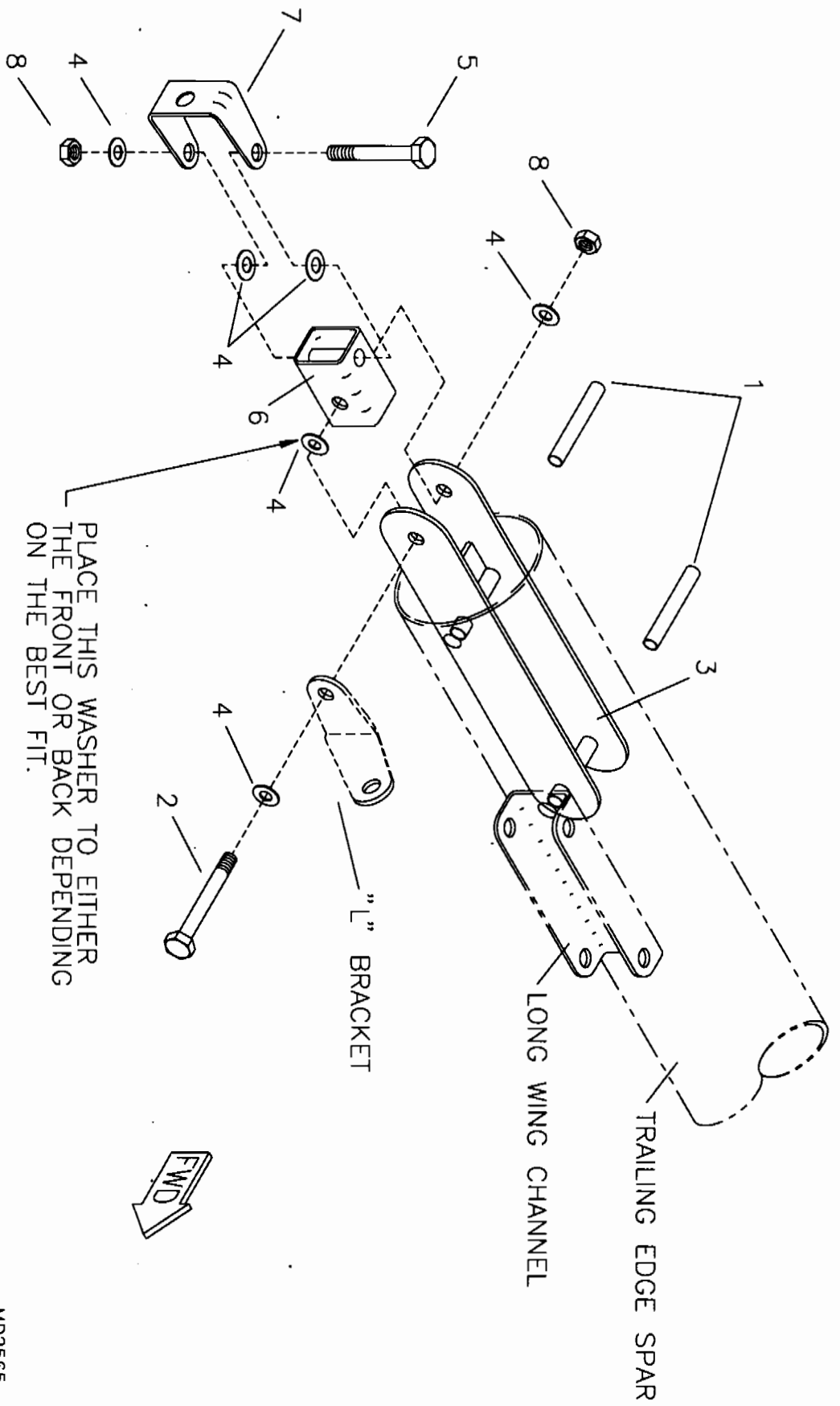
#	DESCRIPTION	PART NUMBER	QUANTITY
1.	Compression Tube Doubler *	CS-CTD	0
2.	Rib Tip	RIB-TIP	54
3.	Top Rib #1	W-TRIB11601	2
4.	Top Rib #2	W-TRIB11602	2
5.	Top Rib #3	W-TRIB11603	2
6.	Top Rib #4	W-TRIB11604	2
7.	Top Rib #5	W-TRIB11605	2
8.	Top Rib #6	W-TRIB11606	2
9.	Top Rib #7	W-TRIB11607	2
10.	Top Rib #8	W-TRIB11608	2
11.	Top Rib #9	W-TRIB11609	2
12.	Bottom Rib #18	W-BRIB116018	2
13.	Bottom Rib #17	W-BRIB116017	2
14.	Bottom Rib #16	W-BRIB116016	2
15.	Bottom Rib #15	W-BRIB116015	2
16.	Bottom Rib #14	W-BRIB116014	2
17.	Bottom Rib #13	W-BRIB116013	2
18.	Bottom Rib #12	W-BRIB116012	2
19.	Bottom Rib #11	W-BRIB116011	2
20.	Bottom Rib #10	W-BRIB116010	2
21.	3/16" Thick Washer	AN960-10	2
22.	Aileron/Flap Tension Bolt	10/32 X 2 1/2SSPAN	2
23.	Outer Compression Tube	W-OCT-116	2
24.	Flap Compression Tube	W-FCT-116	2
25.	Drag Brace	W-DB-116	2
26.	3/16" Shear Nut	AN364-1032A	4
27.	3/16" Thin Washer	AN960-10L	2
28.	Middle Compression Tube	W-MC-116	2
29.	Teleflex Retainer	W-TEL-R	2
30.	3/16" Bolt	AN3-14A	2
31.	Drag Brace Root	W-DBR-116	2
32.	Root Compression Tube	W-CT-116	2
33.	Outboard Rib Spacer	KPWI0352	2

NOTE: If top ribs are "F" type, the contour fittings are not needed.

"F" type ribs have the fitting formed in the rib tube itself.

*See Control Stick

02/18/2002



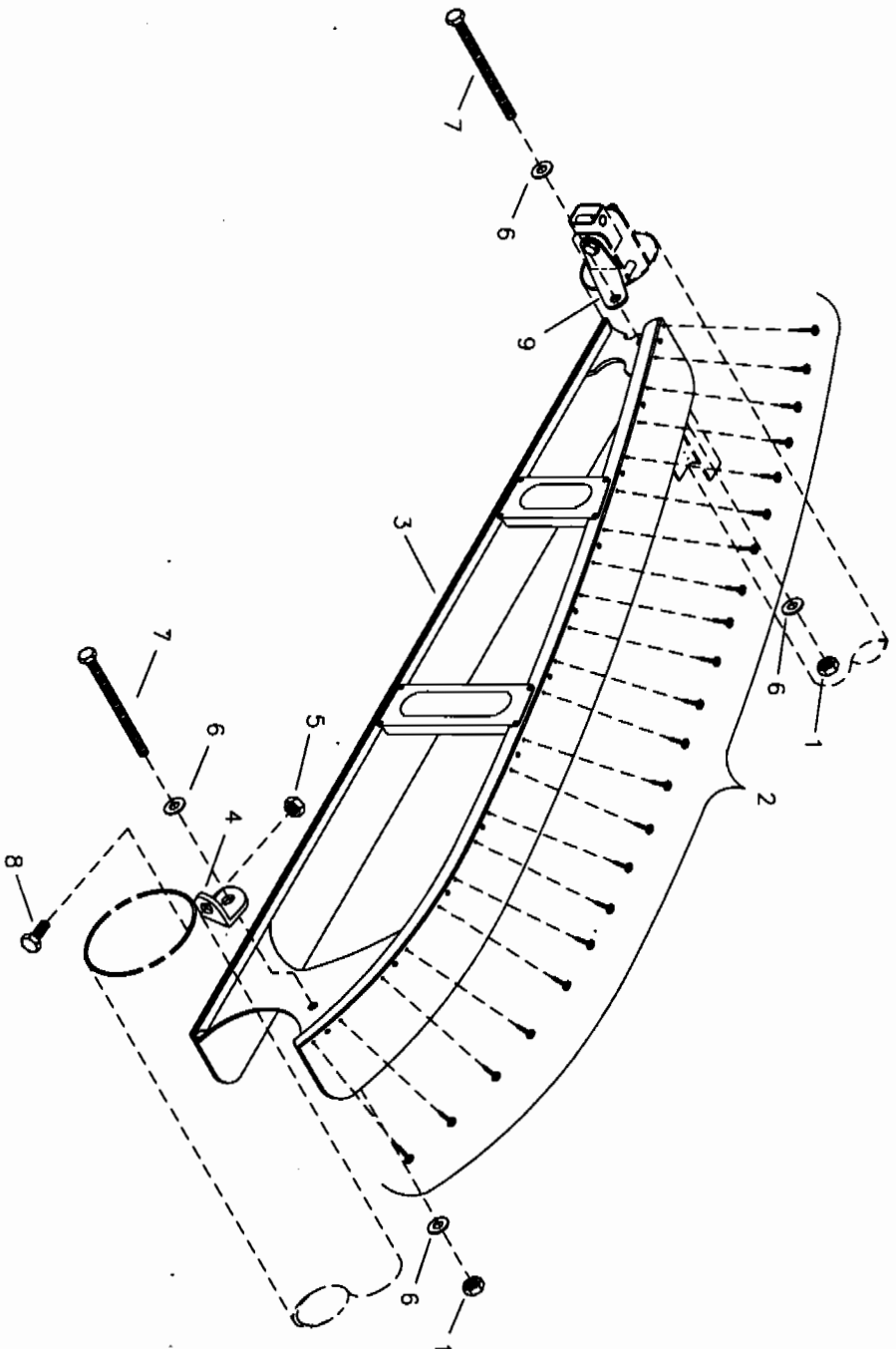
RRR S-14 AIRAIL **WING: UNIVERSAL HINGE**

MD2565

S-14 AIRAILE - UNIVERSAL HINGE

#	DESCRIPTION	PART NUMBER	QUANTITY
1.	Spacer Bushing **	SB-1/4X1 7/8	4
2.	1/4" Bolt	AN4-17A	2
3.	Trailing Edge Spar Root Fitting	W-TES-RF	2
4.	1/4" Thick Washer	AN960-416	12
5.	1/4" Bolt	AN4-16A	2
6.	Hinge Cube	W-H-CUBE	2
7.	Stainless Steel U Bracket	SU-118	2
8.	1/4" Shear Nut	AN364-428A	4

**Fabricate (2) bushings 1/4" X 1 7/8" X .028.



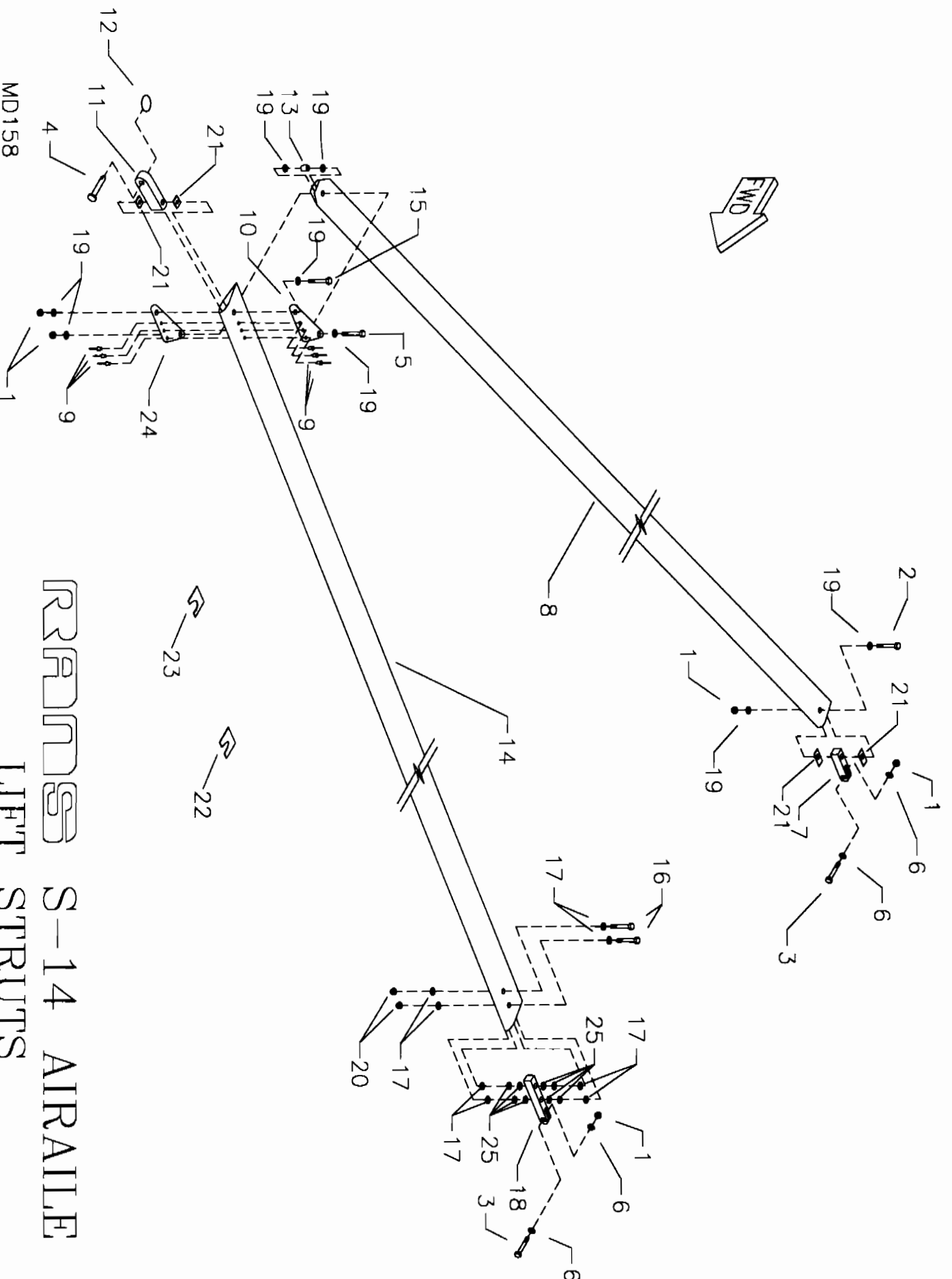
R3P1111 S-14 AIRAILLE ROOT RIB TENSION SYSTEM

MD2563

S-14 AIRAILE - ROOT RIB TENSION SYSTEM

#	DESCRIPTION	PART NUMBER	QUANTITY
1.	1/4" Tensile Nut	AN365-428A	4
2.	#8 Stainless Steel Pan Head Screw	8X1/2 PHS	92
3.	Root Rib, LH (STD)	KAWI0010-L	1
3.	Root Rib, RH (STD)	KAWI0010-R	1
3.	Root Rib, LH (139)	KAWI0009-L	1
3.	Root Rib, RH (139)	KAWI0009-R	1
4.	"L" Bracket	KPWI0170	2
5.	3/16" Shear Nut	AN364-1032A	2
6.	1/4" Thin Washer	AN960-416L	8
7.	1/4" Bolt *	KSHW0049	4
8.	3/16" Bolt	AN3-5A	2
9.	"L" Bracket -116 (STD)	KPWI0190-L	1
9.	"L" Bracket -116 (STD)	KPWI0190-R	1
9.	"L" Bracket -139	KPWI0169-L	1
9.	"L" Bracket -139	KPWI0169-R	1

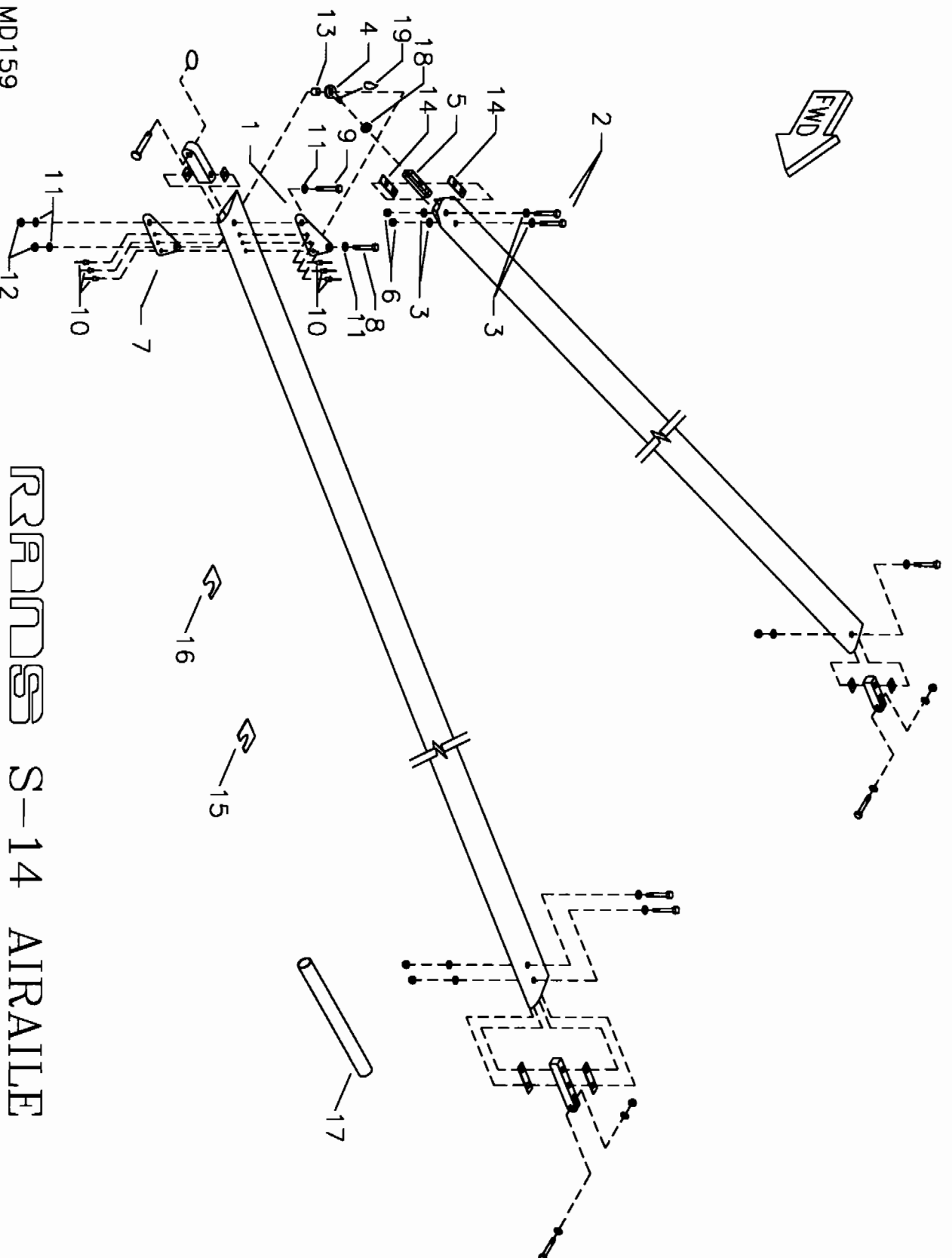
*This bolt is nearly threaded it's whole length.



S-14 AIRFRAME LIFT STRUTS

#	DESCRIPTION	PART NUMBER	QUANTITY
1.	5/16" Shear Nut	AN364-524A	10
2.	5/16" Bolt	AN5-13A	2
3.	5/16" Bolt	AN5-12A	4
4.	5/16" Clevis Pin	MS20392-4C33	2
5.	5/16" Bolt	AN5-15A	2
6.	5/16" Thick Washer	AN960-516	8
7.	Lift Strut Connector	LS-ACU-2	2
8.	AFT Lift Struts	KPWI0073	2
9.	3/16" Stainless Steel Pop Rivet - Cherry Q	CCPQ-64	12
10.	AFT Lift Strut Gusset	W-ALS-G-2A	2
11.	Lower Strut Fitting - FWD - RH	KPLS0013-R	1
11.	Lower Strut Fitting - FWD - LH	KPLS0013-L	1
12.	Loc Ring	RL 27 5/16	2
13.	Anti-Crush Bushing	W-ANTI-CB	2
14.	FWD Lift Strut	KPWI0072	2
15.	5/16" Bolt	AN5-17A	2
16.	1/4" Bolt	AN4-15A	4
17.	1/4" Thin Washer	AN960-416L	16
18.	Lift Strut Connector	LS-ACU	2
19.	5/16" Thin Washer	AN960-516L	16
20.	1/4" Shear Nut	AN364-428A	4
21.	Shim *	UNV-SHIM	4
22.	Small Lift Strut Chord Template	KPLS0004	1
23.	Large Lift Strut Chord Template	KPLS0003	1
24.	AFT Lift Strut Gusset	W-ALS-G-2B	2
25.	1/4" Thick Washer	AN960-416	16

*Fabricate shim from .020 stock provided if necessary.



MD159
REV. A

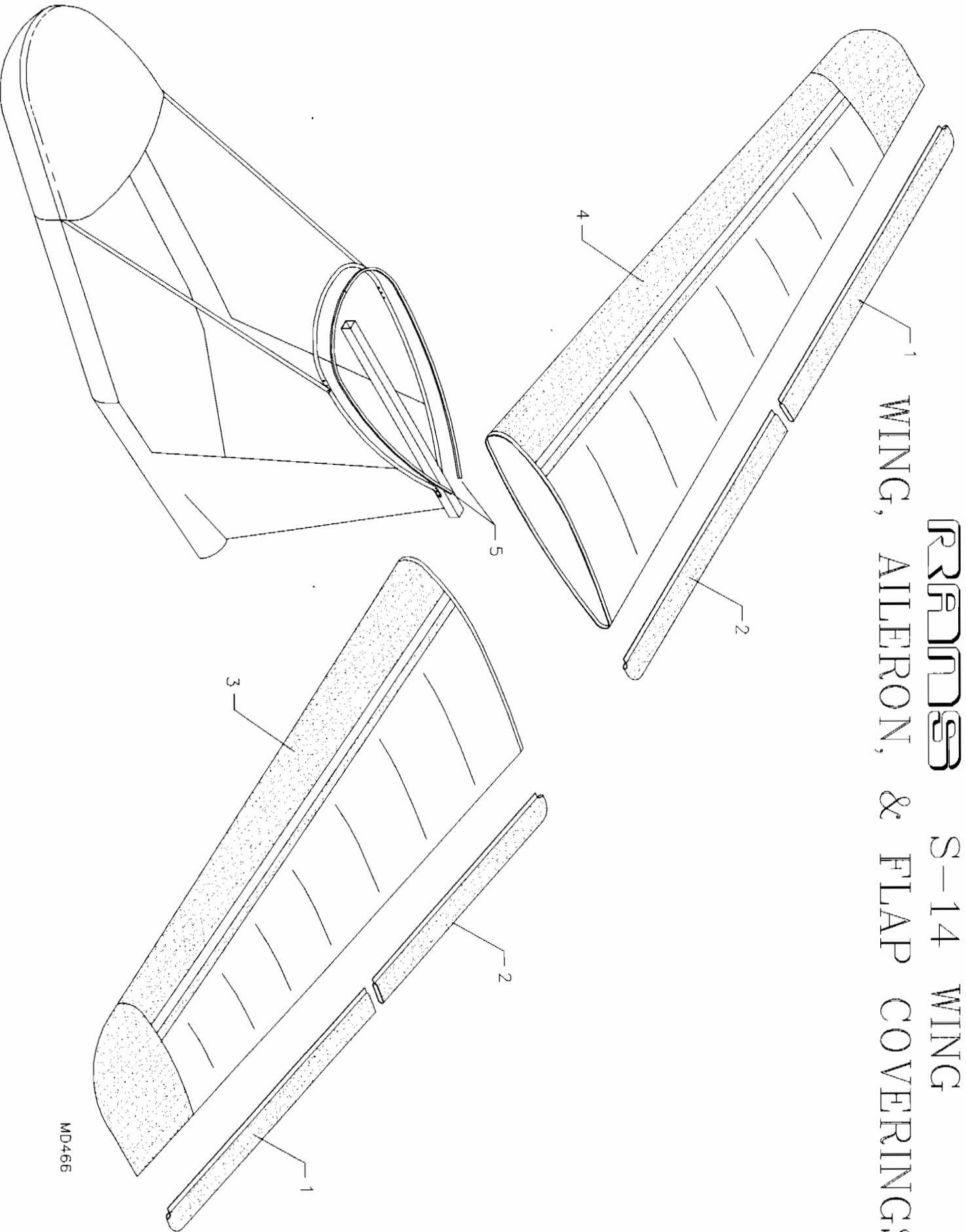
OPTIONAL ADJUSTABLE LIFT STRUT KIT

#	DESCRIPTION	PART NUMBER	QUANTITY
1.	Gusset Plate	116-S-GUSS-A	2
2.	3/16" Bolt	AN3-13A	4
3.	3/16" Thick Washer	AN960-10	8
4.	Rod End	3/8X24 ROD END	2
5.	Adjustor End	S-AE-3/4	2
6.	3/16" Shear Acorn Nut	22NKM02	4
7.	Gusset Plate	116-S-GUSS-B	2
8.	5/16" Bolt	AN5-11A	2
9.	5/16" Bolt (Reference)	AN5-17A	0
10.	3/16" Stainless Steel Pop Rivet - Cherry Q	CCPQ-64	12
11.	5/16" Thick Washer	AN960-516	8
12.	5/16" Shear Nut	AN364-524A	4
13.	Aluminum Bushing, 3/8" x .035 x 1/2" *	KAAC0020-1	0
14.	Shim **	UNV-SHIM	0
15.	Small Lift Strut Chord Template ***	KPLS0004	0
16.	Large Lift Strut Chord Template ***	KPLS0003	0
17.	Adjustable Lift Strut - Raw Stock Kit	KAAC0020	1
18.	3/8" Plain Nut	MS35650-3382	2
19.	Loctite Blue	LOC-TITE	0

*Builder must fabricate from raw stock.

**Builder must fabricate from .020 raw stock.

REFUGEE S-14 WING WING, AILERON, & FLAP COVERINGS



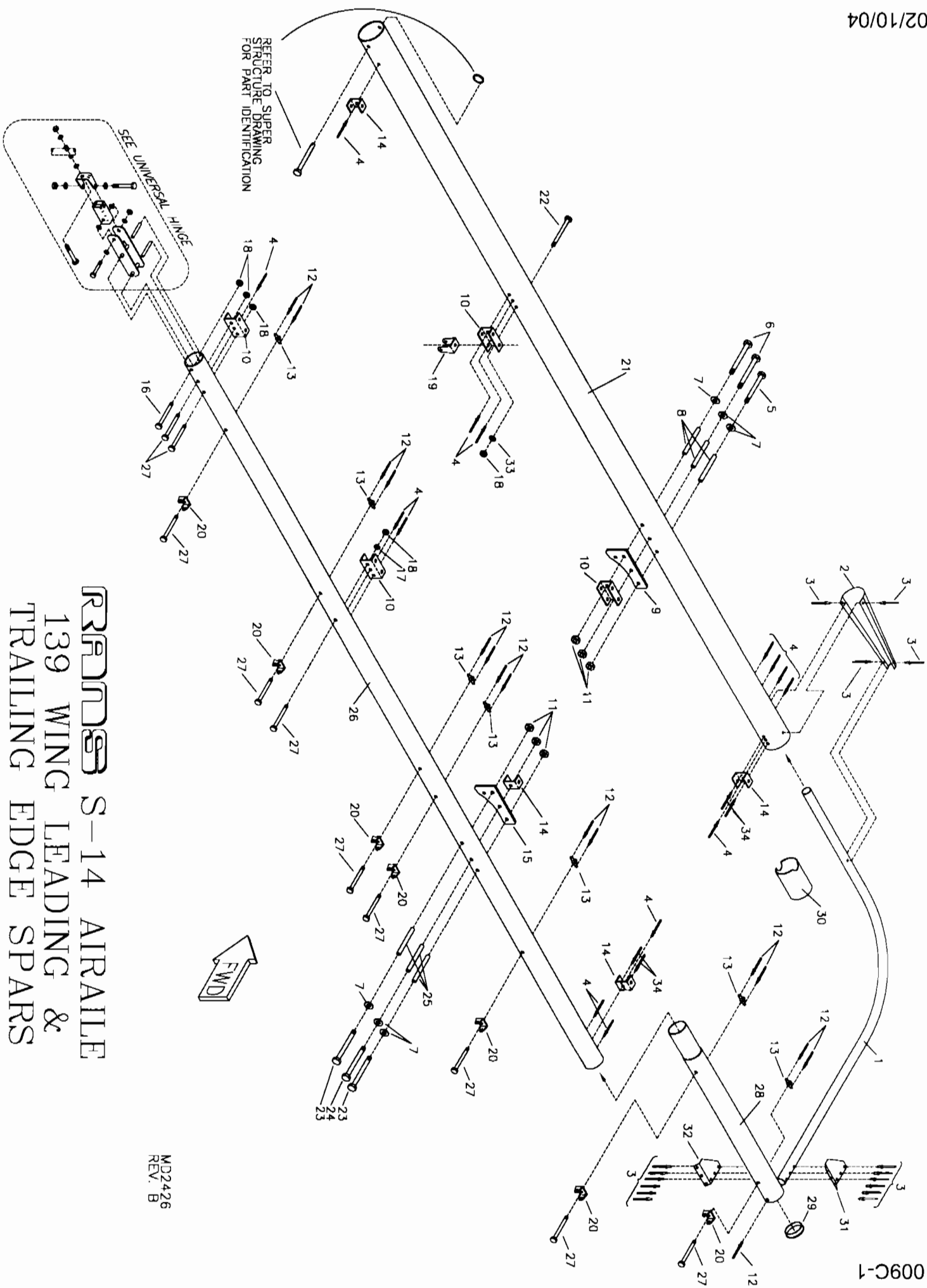
MD466

S-14 AIRAILE WING, AILERONS, & FLAPS

#	DESCRIPTION	PART NUMBER	QUANTITY
1.	Aileron Skin, LH	WC-AS-151-LH	1
1.	Aileron Skin, RH	WC-AS-151-RH	1
2.	Flap Skin, LH*	WC-FS-151-LH-14	1
2.	Flap Skin, RH*	WC-FS-151-RH-14	1
3.	Left Wing Cover 116	WC-LHWC-116	1
3.	Left Wing Cover, 139	WC-LHWC-139	1
4.	Right Wing Cover 116	WC-RHWC-116	1
4.	Right Wing Cover, 139	WC-RHWC-139	1
5.	Foam Rubber, 3/8" X 1/2"	WS-FS-1/2	8 ft

PLEASE NOTE: Tail skins shown with frame.

*The skins on the S-14 flaps are slightly shorter than aileron skins.



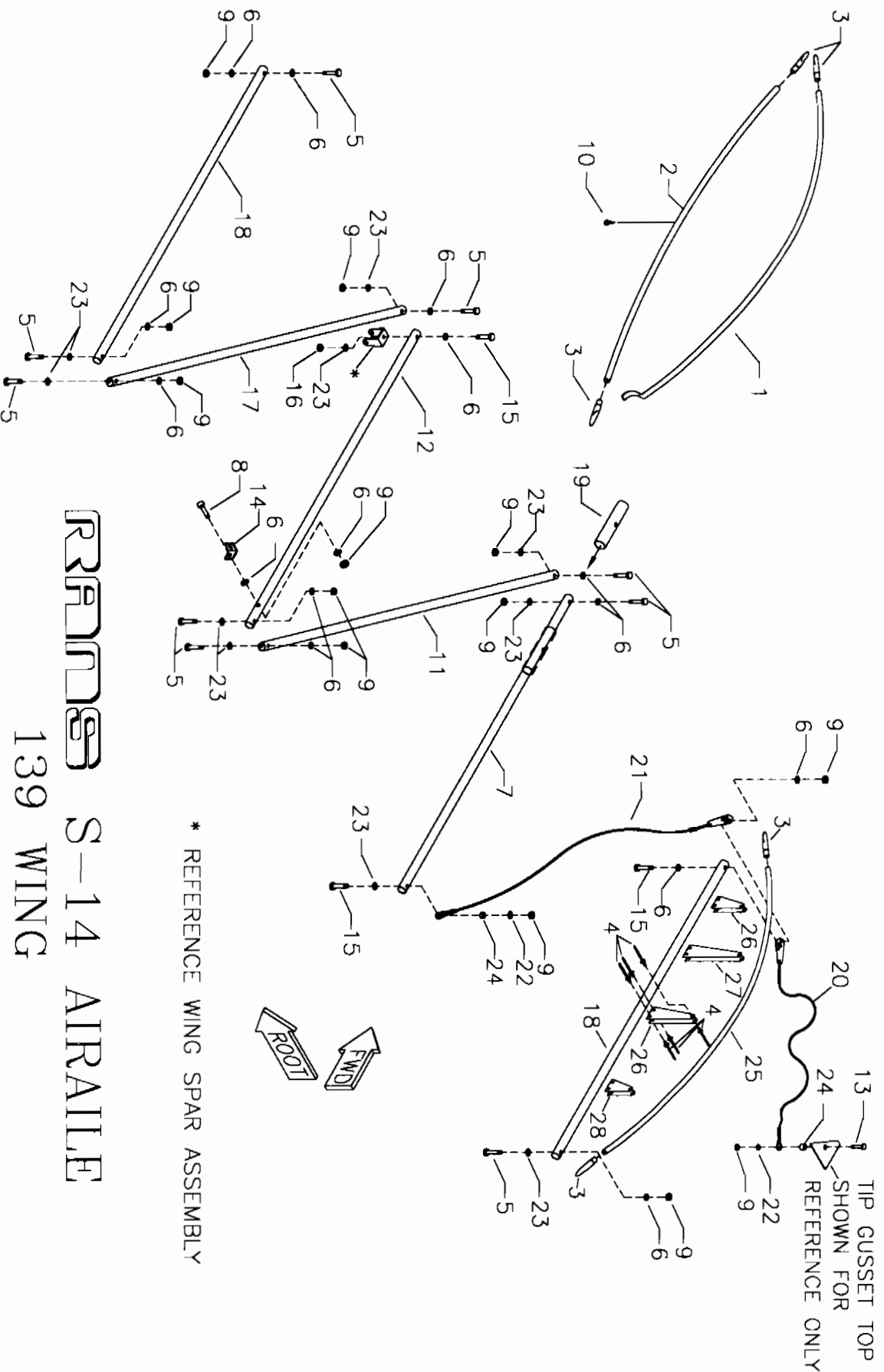
RF-14 AIRAILE

139 WING LEADING & TRAILING EDGE SPARS

MD2426
REV. B

#	DESCRIPTION	PART NUMBER	QUANTITY
1.	Tip Bow (S-6ES Style)	W-TIP-ES	2
2.	Tip Wrap	W-TW-F	2
3.	1/8" Stainless Steel Pop Rivet - Cherry Q	CCPQ-42	32
4.	3/16" Stainless Steel Pop Rivet - Cherry Q	CCPQ-64	24
5.	1/4" Bolt *	AN4-35ALP	2
6.	1/4" Bolt *	AN4-36ALP	4
7.	1/4" Thin Washer	AN960-416L	12
8.	Spacer Bushing, 3/8" x .058 x 3"	SB-3/8X3	6
9.	FWD Strut Plate	W-SAP-LE	2
10.	Long Wing Channel	W-WCL	8
11.	1/4" Shear Nut	AN364-428A	12
12.	3/32" Aluminum Pop Rivet	40APR1/8	30
13.	3/16" Nut Plate	K-1000-3	14
14.	Horizontal Stabilizer Attach Bracket	S2-SAB	8
15.	AFT Strut Plate	W-SAP-TE	2
16.	3/16" Bolt	AN3-22A	2
17.	3/16" Thin Washer	AN960-10L	2
18.	3/16" Tensile Nut	AN365-1032A	10
19.	Jury Strut Bracket	JS-BK	2
20.	Stainless Steel Hinge	W-HB	14
21.	Leading Edge Spar	W-LES/S6ES,S12	2
22.	3/16" Bolt	AN3-34ALP	2
23.	1/4" Bolt *	AN4-25ALP	4
24.	1/4" Bolt *	AN4-26ALP	2
25.	Spacer Bushing, 3/8" x .058 x 2"	SB-3/8X2	6
26.	Trailing Edge Spar	W-TES-ES/6/12	2
27.	3/16" Bolt	AN3-23A	20
28.	Trailing Edge Spar Tip	W-TES-TIP	2
29.	2" End Cap	EC-10	2
30.	Tip Bow Marking Tool	W-T-MT	1
31.	Tip Gusset Top	W-TG-T	2
32.	Tip Gusset Bottom	W-TG-B	2
33.	3/16" Thick Washer	AN960-10	2
34.	1/8" Stainless Steel Pop Rivet - Cherry Q	CCPQ-44	8

*These bolts have a special thin head painted flat black.



MD1107
REV. B

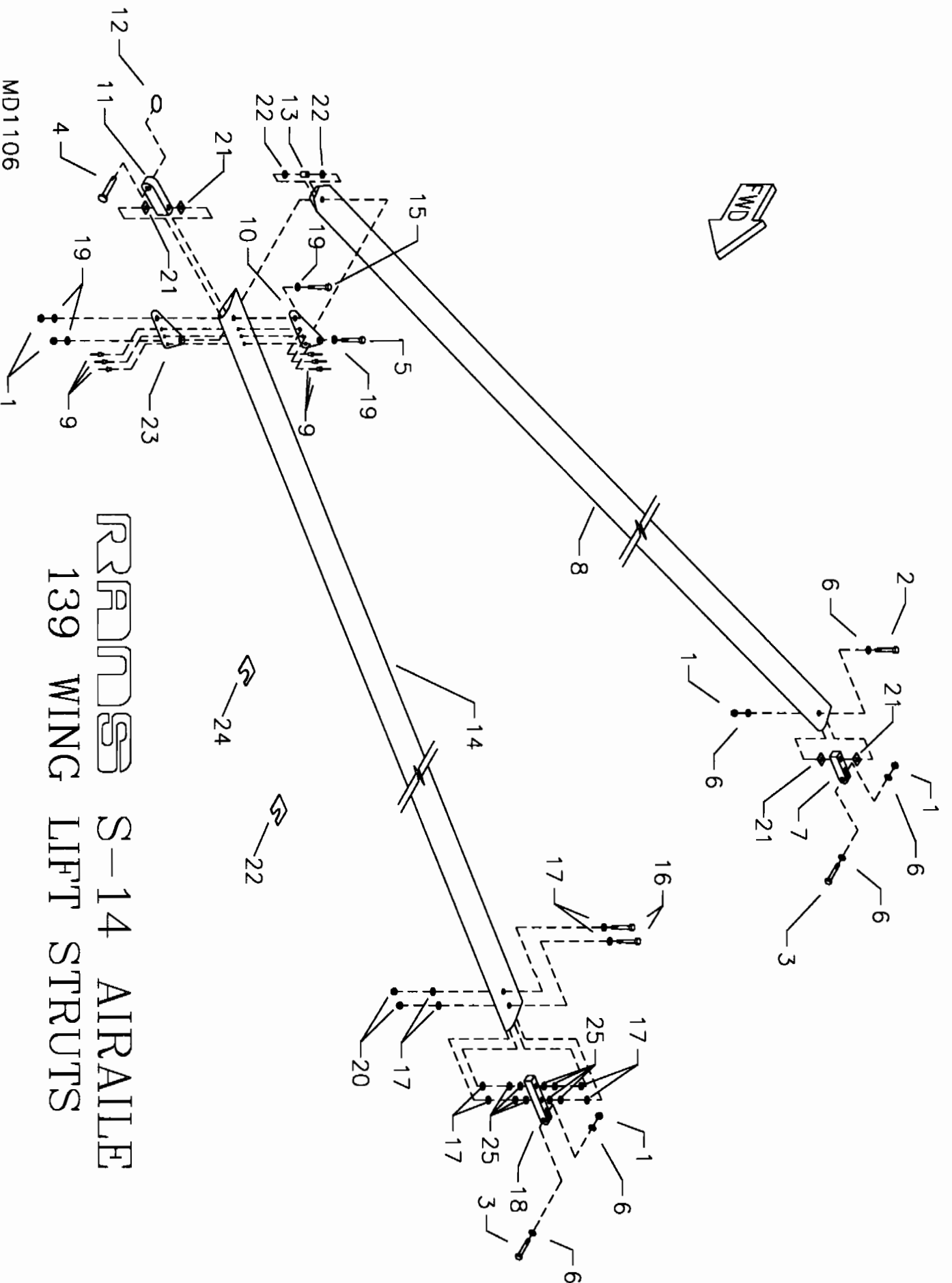
139 WING **INTERNAL BRACING TUBES**

#	DESCRIPTION	PART NUMBER	QUANTITY
1.	Top Rib	KPWI0454	16
2.	Bottom Rib	W-B-RIB/S6ES	18
3.	Rib Tip	RIB-TIP	56
4.	1/8" Stainless Steel Pop Rivet - Cherry Q	CCPQ-41	48
5.	3/16" Bolt	AN3-15A	18
6.	3/16" Thin Washer	AN960-10L	30
7.	Middle Compression Tube	W-MC/S6ES	2
8.	3/16" Bolt	AN3-14A	2
9.	3/16" Shear Nut	AN364-1032A	26
10.	Small Pan Head Screw	4X1/4 PHS	18
11.	Drag Brace	W-DB/S6ES	2
12.	Flap Compression Tube	W-FCT/S6ES	2
13.	3/16" Bolt	AN3-4A	2
14.	Teleflex Retainer	W-TEL-R	2
15.	3/16" Bolt	AN3-16A	6
16.	3/16" Tensile Nut	AN365-1032A	2
17.	Drag Brace Root	W-DBR/S6ES	2
18.	Outer Inner Compression Tube	W-IO/S6ES	4
19.	Compression Tube Doubler **	-----	0
20.	Wing Tip Cable Brace, Long	W-WC-58	2
21.	Wing Tip Cable Brace, Short	W-WC-50	2
22.	#10 SS Washer	BSHW0022	4
23.	3/16" Thick Washer	AN960-10	20
24.	Spacer Bushing, 1/4" x .028 x 3/16" *	SB-1/4X028	4
25.	Top Rib - Tension	W-T-RIB	2
26.	Rib #1 - Tip Rib	KPWI0250	4
27.	Rib # 5 - Tip Rib	KPWI0382	2
28.	Rib #4 - Tip Rib	KPWI0253	2

*Builder must fabricate from raw stock.

**Reference Control Stick.

10/15/2004



RRMS S-14 AIRAILLE 139 WING LIFT STRUTS

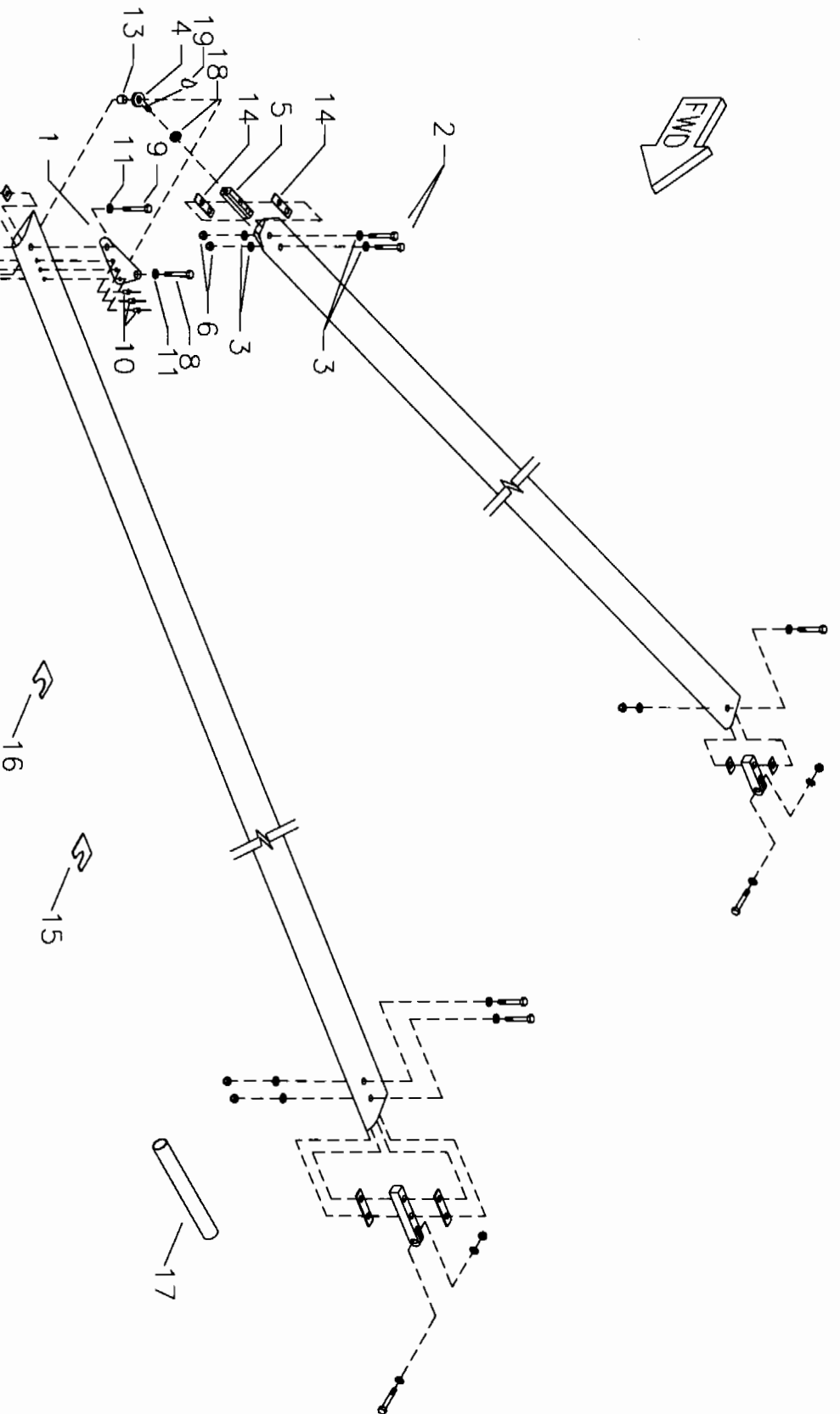
MD1106

#	DESCRIPTION	PART NUMBER	QUANTITY
1.	5/16" Shear Nut	AN364-524A	10
2.	5/16" Bolt	AN5-13A	2
3.	5/16" Bolt	AN5-12A	4
4.	5/16" Clevis Pin	MS20392-4C33	2
5.	5/16" Bolt	AN5-15A	2
6.	5/16" Thick Washer	AN960-516	12
7.	Lift Strut Connector	LS-ACU-2	2
8.	AFT Lift Strut, 101 1/2"	KPWI0075	2
9.	3/16" Stainless Steel Pop Rivet - Cherry Q	CCPQ-64	12
10.	AFT Lift Strut Gusset	W-ALS-G-2A	2
11.	Round Connector, RH	KPLS0013-R	1
11.	Round Connector, LH	KPLS0013-L	1
12.	Loc Ring	RL 27 5/16	2
13.	Anti-Crush Bushing	W-ANTI-CB	2
14.	FWD Lift Strut, 97 7/8"	KPWI0074	2
15.	5/16" Bolt	AN5-17A	2
16.	1/4" Bolt	AN4-15A	4
17.	1/4" Thin Washer	AN960-416L	16
18.	Lift Strut Connector	LS-ACU	2
19.	5/16" Thin Washer	AN960-516L	12
20.	1/4" Shear Nut	AN364-428A	4
21.	Shim *	UNV-SHIM	4
22.	Small Lift Strut Chord Template	KPLS0004	1
23.	AFT Lift Strut Gusset	W-ALS-G-2B	2
24.	Large Lift Strut Chord Template	KPLS0003	1
25.	1/4" Thick Washer	AN960-416	16

*Make shim from .020 stock provided if necessary.

MD1105
REV. A

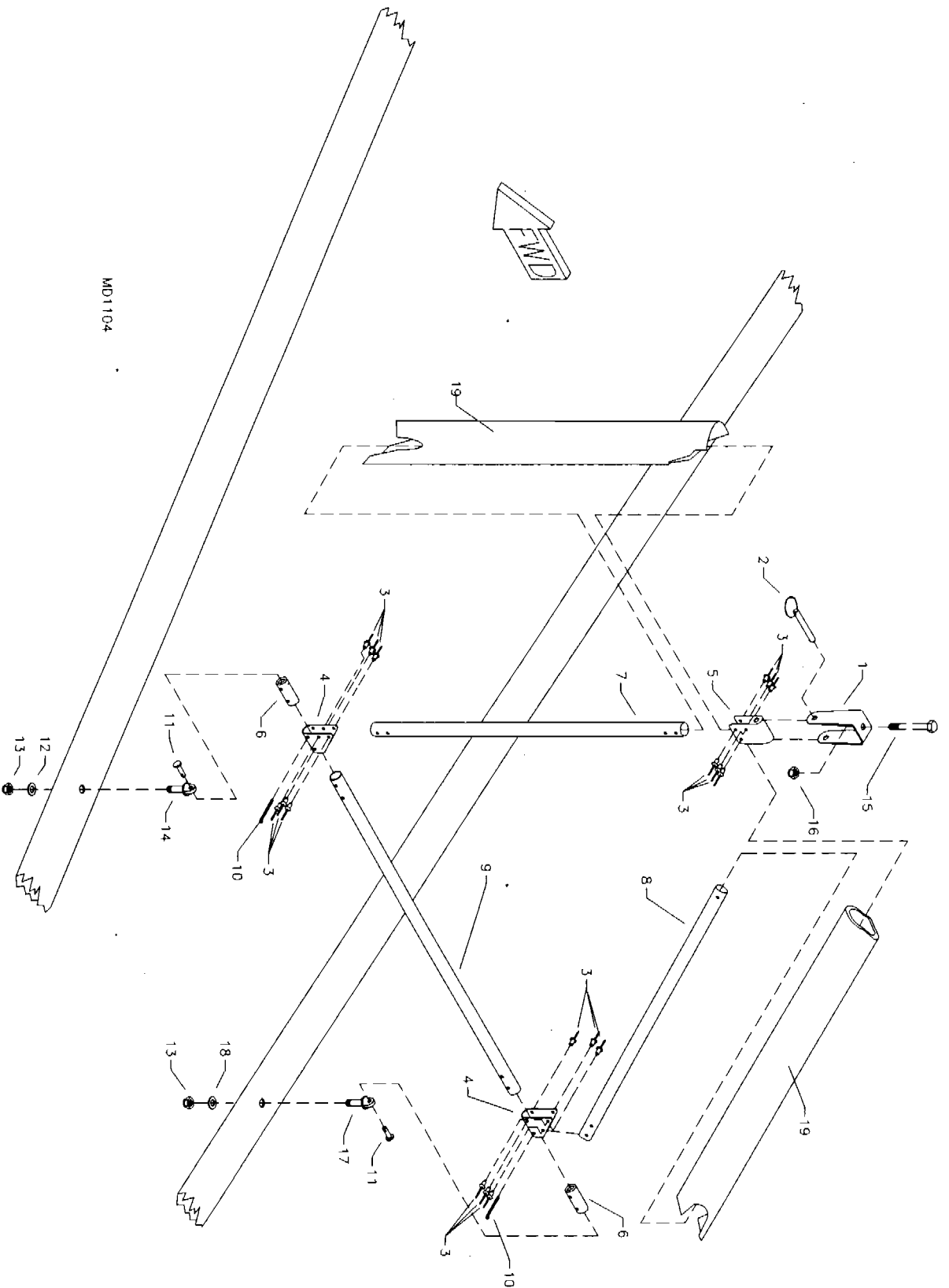
REFUGEE S-14 AIRAILE 139 WING OPTIONAL, ADJUSTABLE LIFT STRUT KIT



#	DESCRIPTION	PART NUMBER	QUANTITY
1.	Gusset Plate	116-S-GUSS-A	2
2.	3/16" Bolt	AN3-13A	4
3.	3/16" Thick Washer	AN960-10	8
4.	Rod End	3/8X24 ROD END	2
5.	Adjustor End	S-AE-3/4	2
6.	3/16" Shear Acorn Nut	22NKM02	4
7.	Gusset Plate	116-S-GUSS-B	2
8.	5/16" Bolt	AN5-11A	2
9.	5/16" Bolt (Reference)	AN5-17A	0
10.	3/16" Stainless Steel Pop Rivet - Cherry Q	CCPQ-64	12
11.	5/16" Thick Washer	AN960-516	8
12.	5/16" Shear Nut	AN364-524A	4
13.	Aluminum Bushing, 3/8" x .035 x 1/2" *	KAAC0020-1	0
14.	Shim **	UNV-SHIM	0
15.	Small Lift Strut Chord Template	KPLS0004	0
16.	Large Lift Strut Chord Template	KPLS0003	0
17.	Adjustable Lift Strut - Raw Stock Kit	KAAC0020	1
18.	3/8" Plain Nut	MS35650-3382	2
19.	Loctite Blue	LOC-TITE	0

*Builder must fabricate from raw stock.

**Builder must fabricate from .020 raw stock.



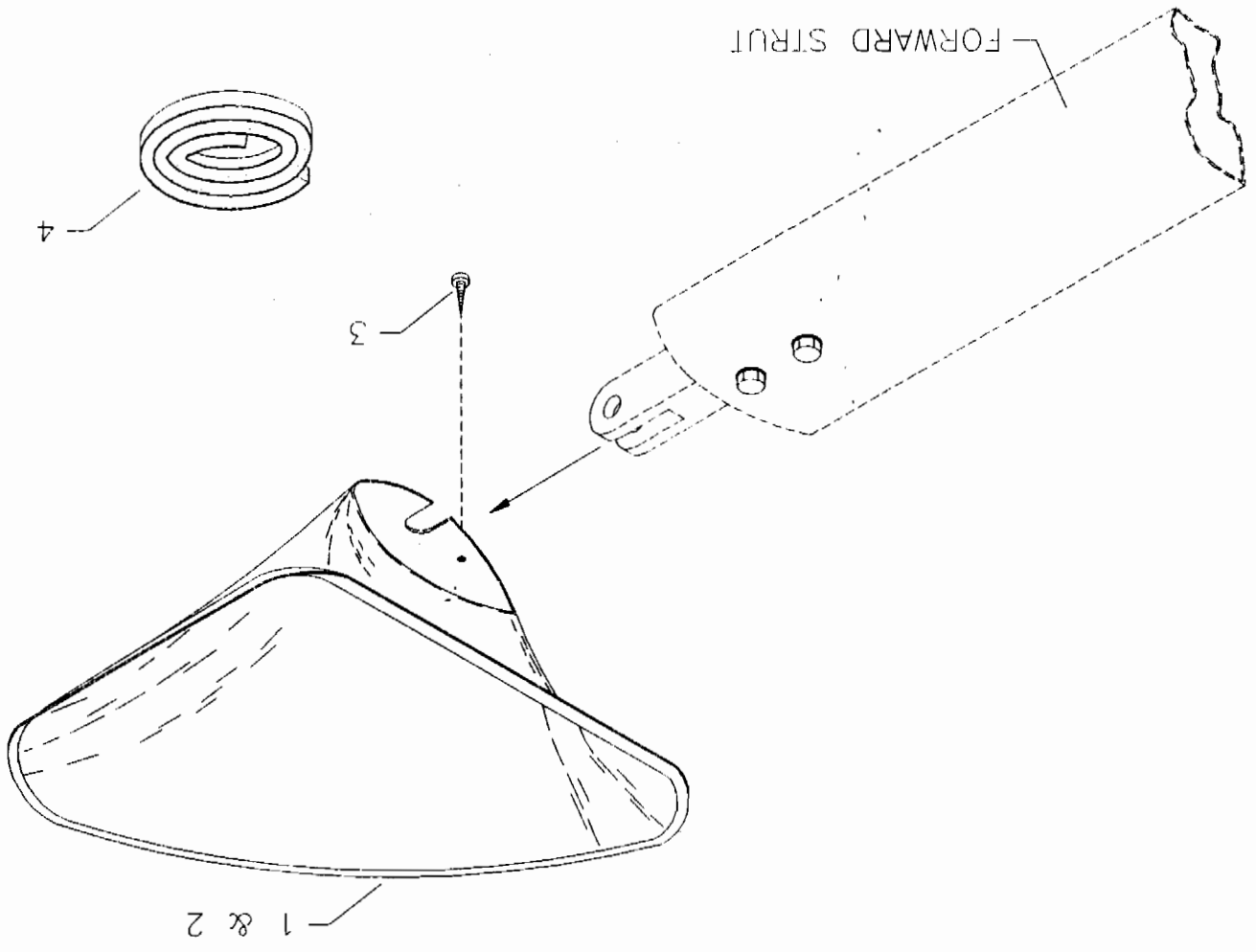
MD1104

REMOVED S-14 AIRPLANE 139 WING JURY STRUTS

S-14 AIRAILE - 139 WING JURY STRUT

#	DESCRIPTION	PART NUMBER	QUANTITY
1.	Jury Strut Bracket (Reference)	JS-BK	0
2.	Retaining Pin	3/16X1.2SSBP	2
3.	1/8" Stainless Steel Pop Rivet - Cherry Q	CCPQ-42	36
4.	Notched Gusset	JS-JGN	4
5.	Gusset	JS-JGW	2
6.	Drilled Bushing Insert	JS-BUC-B	4
7.	Forward Jury Strut *	JS-FWD-2	2
8.	Diagonal Jury Strut *	JS-DIA-2	2
9.	Cross Strut *	JS-C-2	2
10.	Small Cotter Pin	MS24665-134	4
11.	3/16" Clevis Pin	MS20392-2C17	4
12.	1/4" Thin Washer	AN960-416L	2
13.	1/4" Tensile Acorn Nut	42NKE-048	4
14.	1/4" Eyebolt	AN43B-15A	2
15.	3/16" Bolt (Reference)	AN3-16A	0
16.	3/16" Tensile Nut (Reference)	AN365-1032A	0
17.	1/4" Eyebolt	AN43B-14A	2
18.	1/4" Thick Washer	AN960-416	2

*Builder must fabricate these from 1/2" X .035 X 144 stock provided.



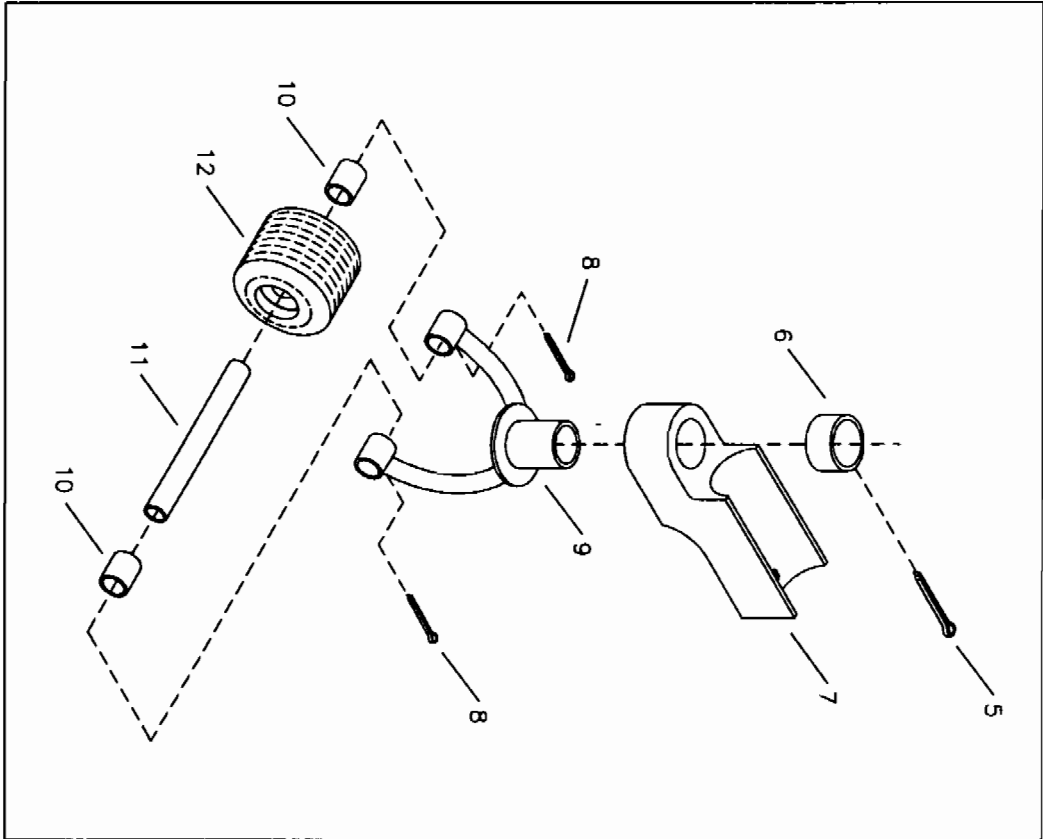
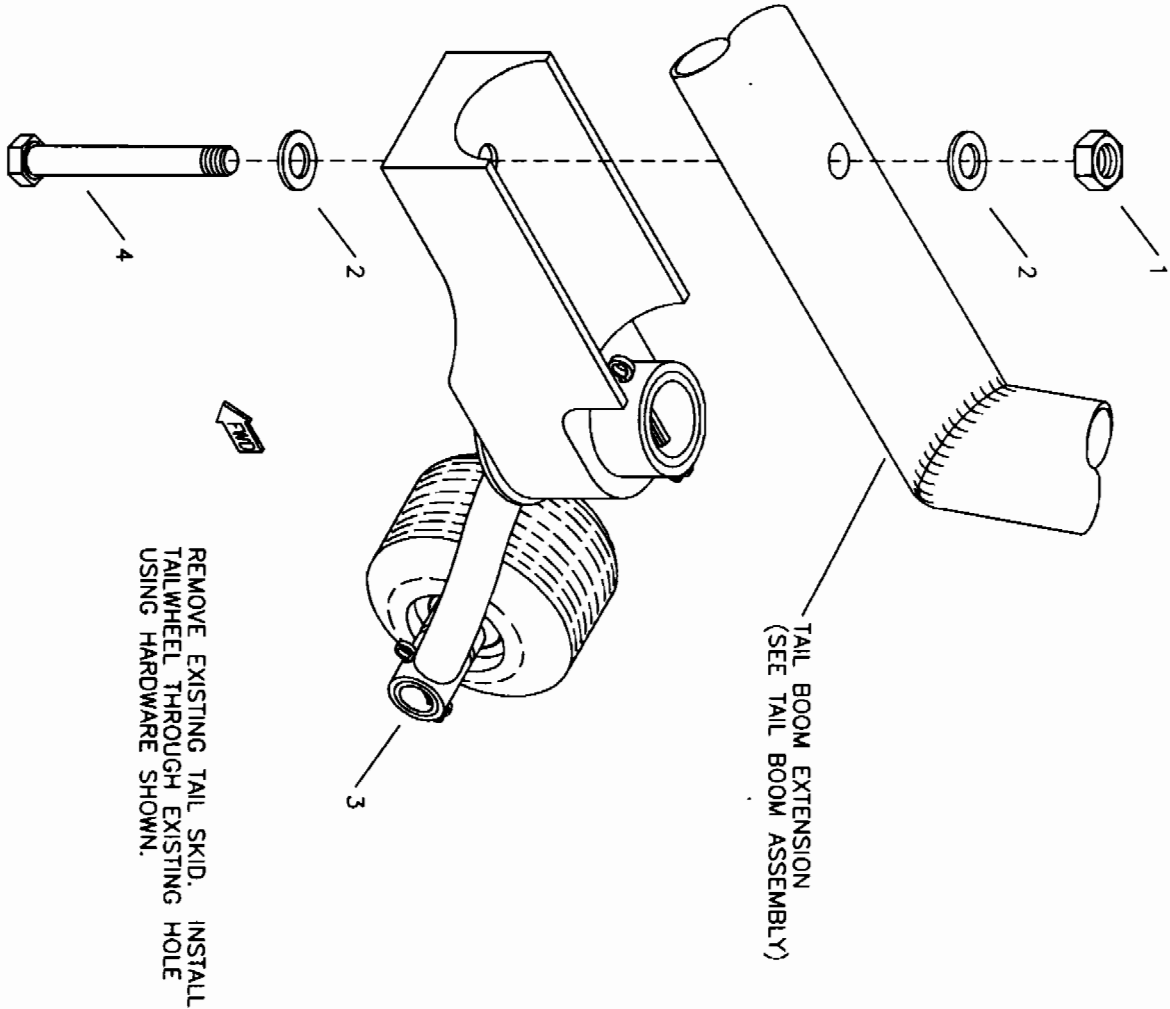
NOTE: LEFT SIDE SHOWN

MD314

RMS FORWARD STRUT FILLET FAIRING

S-14 AIRAILE - FILLET FAIRING

#	DESCRIPTION	PART NUMBER	QUANTITY
1.	Forward Strut Fairing, RH	W-FSFF-RH	1
2.	Forward Strut Fairing, LH	W-FSFF-LH	1
3.	#6 Small Pan Head Screw	6RX1/2 PHS	2
4.	High Density Foam Tape, 1/8" X 1/4" X 40"	1/8-FS	40 in



TAILWHEEL ASSEMBLY DETAIL

RR-12/14 AIRRAIL
OPTIONAL TAILWHEEL ASSEMBLY

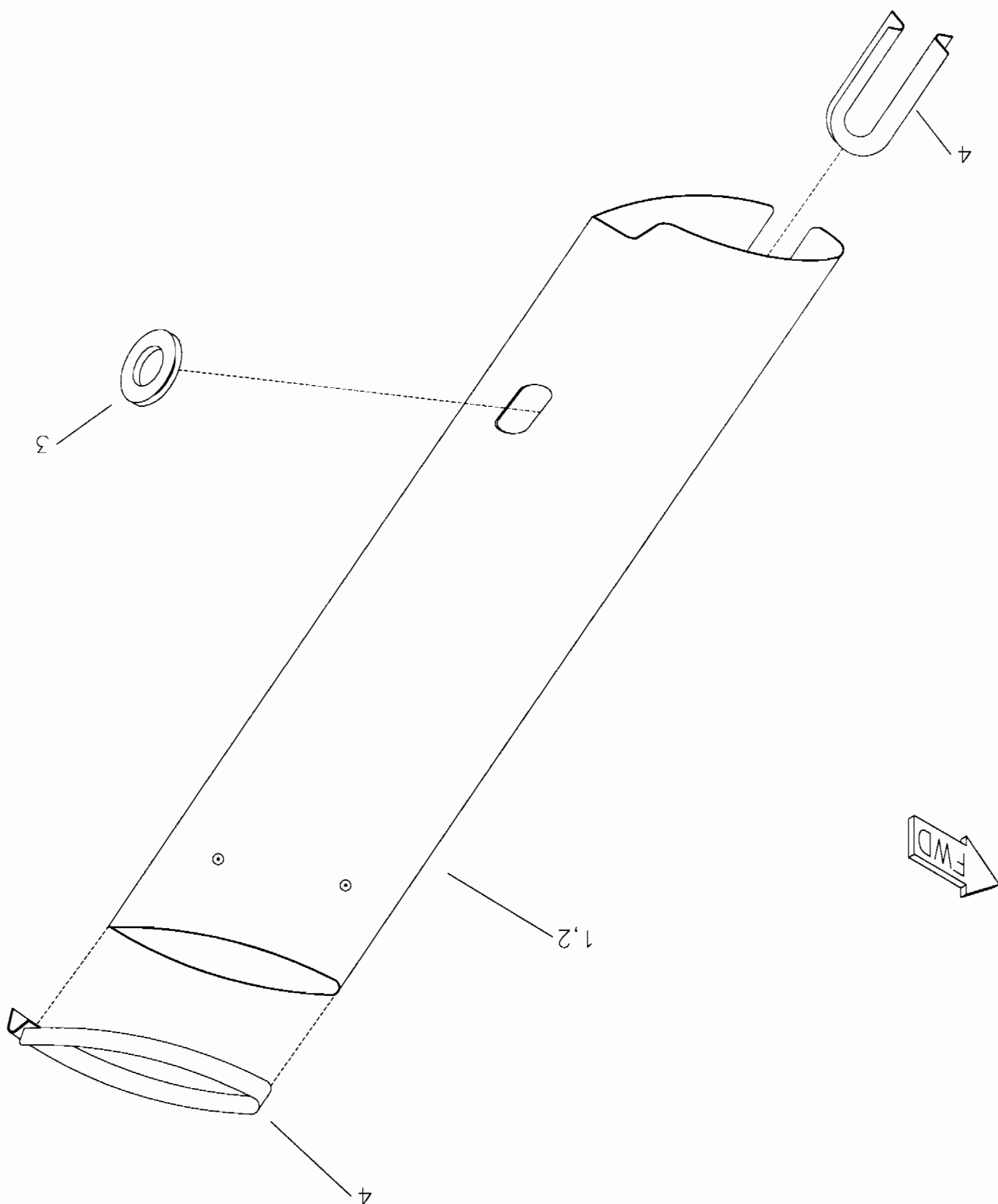
S-14 AIRAILE OPTIONAL TAILWHEEL ASSEMBLY

#	DESCRIPTION	PART NUMBER	QUANTITY
1.	3/16" Shear Nut	AN364-1032A	1
2.	3/16" Thin Washer	AN960-10L	2
3.	Tailwheel Assembly	KATG0003	1
4.	3/16" Bolt	AN3-17A	1
5.	Large Cotter Pin*	MS24665-287	1
6.	Bushing*	KPAC0035	1
7.	Tailwheel Swivel Block*	KPTG0002	1
8.	Small Cotter Pin*	MS24665-134	2
9.	Tailwheel Fork*	KPTG0001	1
10.	Bushing*	KPAC0034	2
11.	Tailwheel-Axle*	KPTG0008	1
12.	Tailwheel*	KSTG0001	1

*Included in the tailwheel assembly.

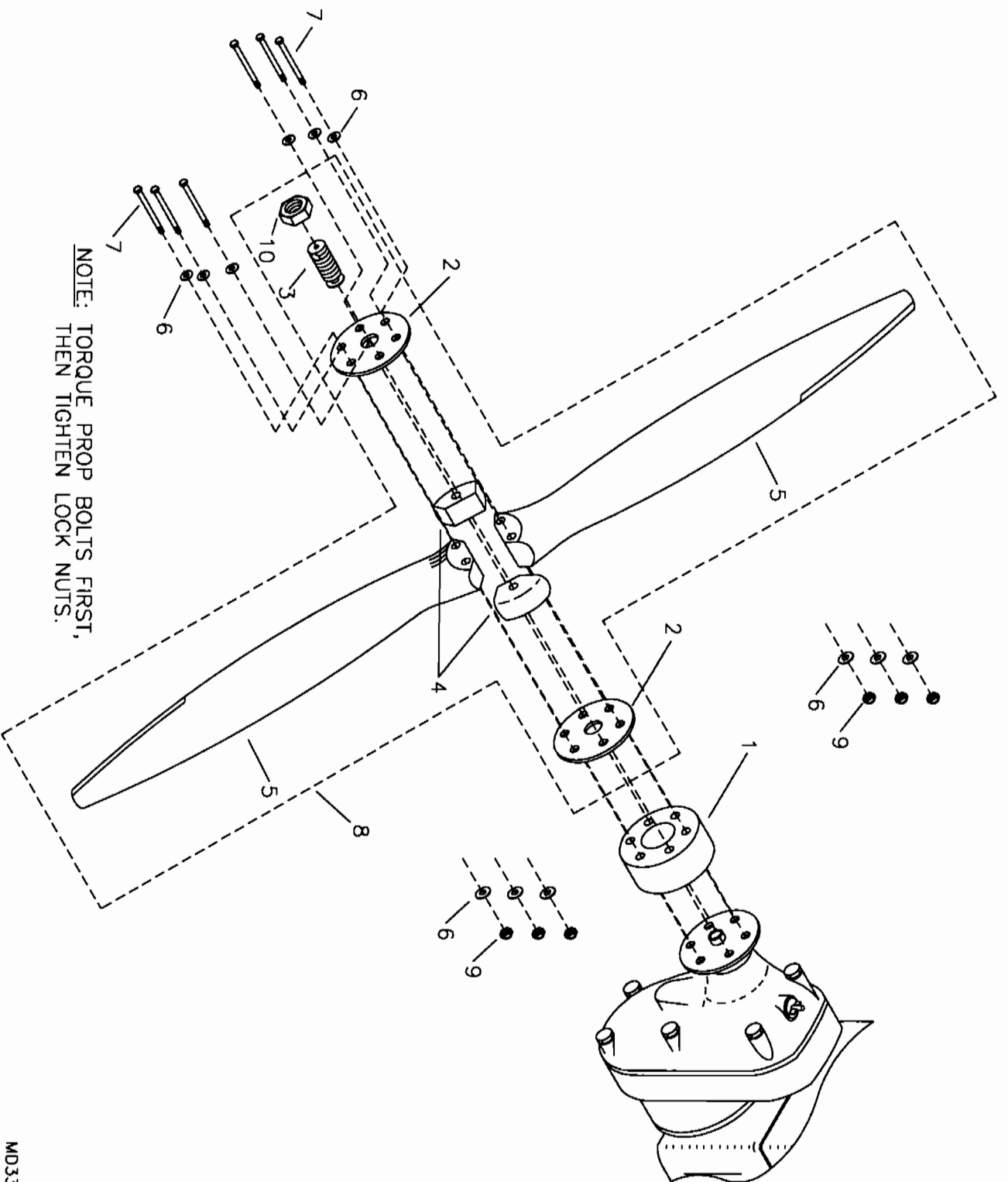
RMS S-14 AIRAILE OPTIONAL GEAR LEG FAIRING INSTALLATION

MD3313



S-14 AIRAILE - MAIN GEAR LEG FAIRING INSTALLATION

#	DESCRIPTION	PART NUMBER	QUANTITY
1.	Gear Leg Fairing, LH	GL-FAIR-LH(14)	1
2.	Gear Leg Fairing, RH	GL-FAIR-RH(14)	1
3.	Rubber Grommet	MS35489-17	2
4.	Rubber Edging	X1011	40 in



OPTIONAL IVO PROP INSTALLATION

S-14 AIRAILE - OPTIONAL IVO PROP INSTALLATION

#	DESCRIPTION	PART NUMBER	QUANTITY
1.	2" IVO Prop Spacer	2-IVO-SP	1
2.	Cam Crush Plate *	-----	0
3.	Prop Pitch Adjustment Screw *	-----	0
4.	Prop Blade Fillet *	-----	0
5.	IVO Prop Blade *	-----	0
6.	1/4" Thick Washer	AN960-416	12
7.	8MM x 120MM Bolt	M8X120 BOLT	6
8.	IVO Prop Assembly	KIPR0010	1
9.	8MM Nut	8MMX1.25 NUT	6
10.	Loc Nut *	-----	0

*Supplied with propeller.