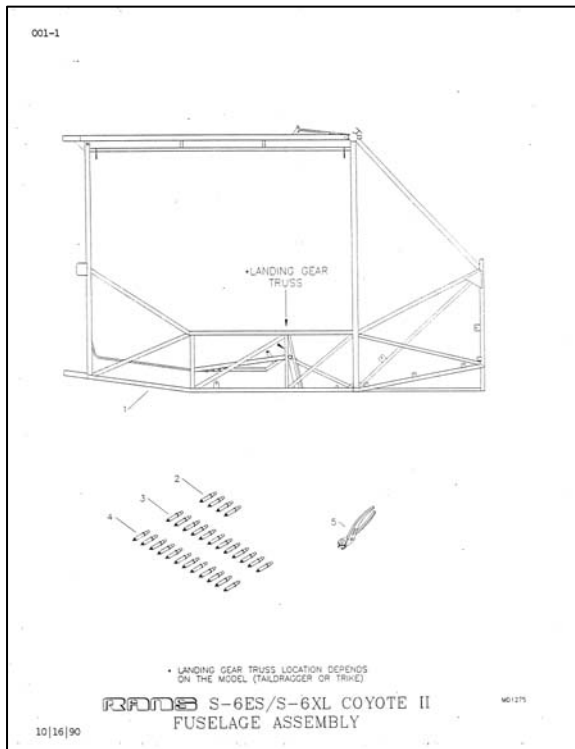


The RANS CD manual is designed to be printable on 3-hole punched paper on your home printer. If you have the pre-printed manual, follow the directions for rotation below.

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

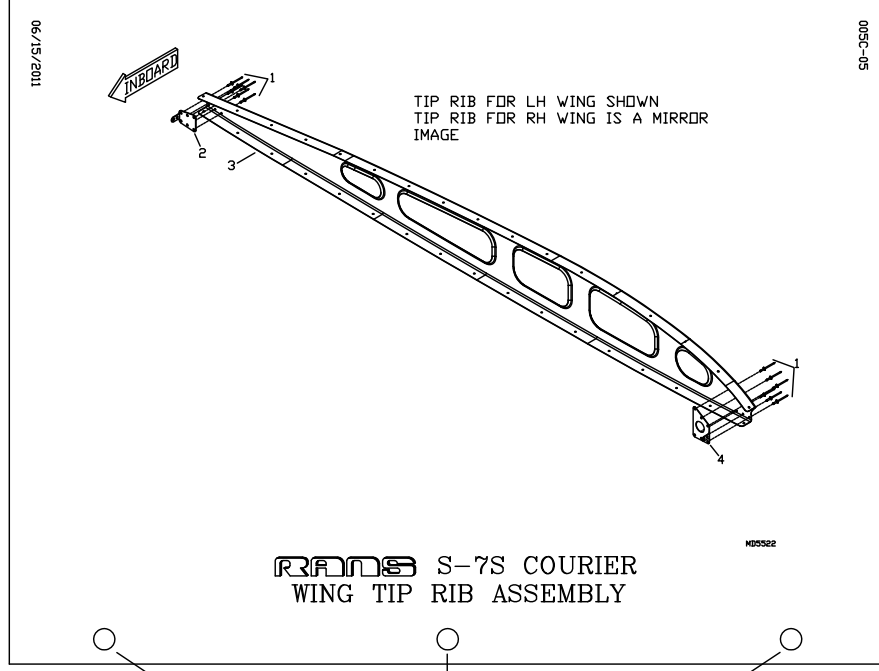
2/24/98

Parts List page

STEP 1:

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

PARTS DRAWING PAGE



3-HOLE PUNCH

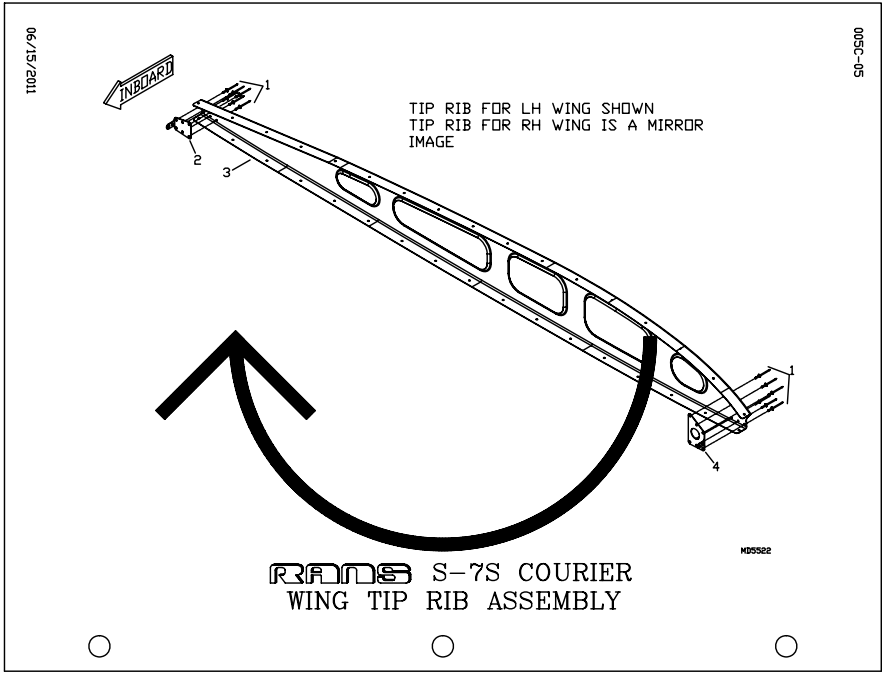
EXAMPLE ONLY.
MAY NOT REPRESENT ACTUAL PAGES
FROM YOUR MANUAL.

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

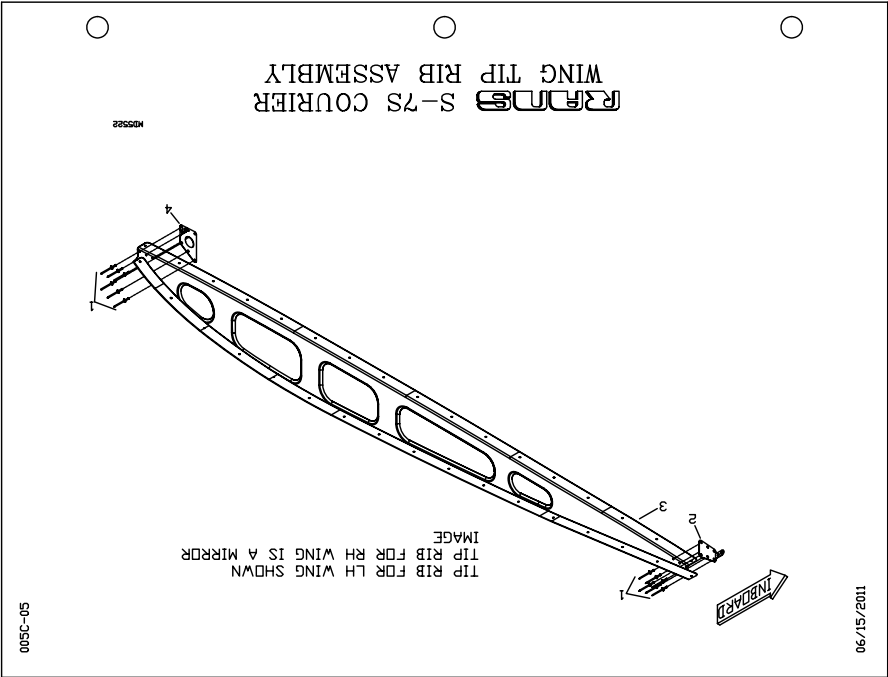
EXAMPLE ONLY.
MAY NOT REPRESENT ACTUAL PAGES
FROM YOUR MANUAL.

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	AAPO41	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.

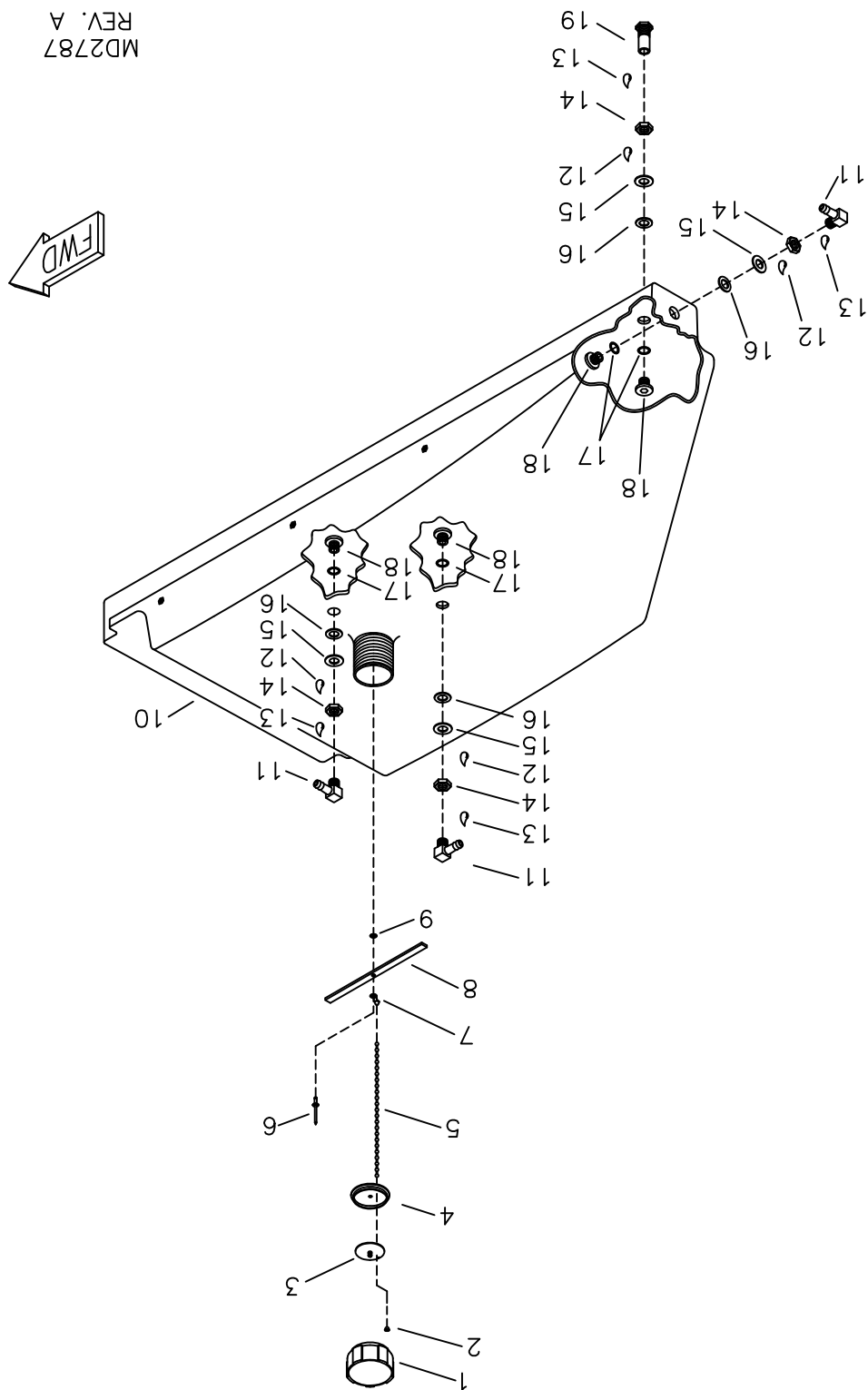
#	DESCRIPTION	PART NUMBER	QUANTITY
1.	Flight Log	FLIGHT LOG	1
2.	Maintenance Log Book	MAINTENANCE LOG	1
3.	RANS Decal - White **	RANS DECAL-W	0
3.	RANS Decal - Black **	RANS DECAL-B	0
4.	S-9 Decal - Black **	S-9-DECAL-B	0
4.	S-9 Decal - White **	S-9-DECAL-W	0
5.	Experimental Decal Sheets	EXPER-DECAL	1
6.	Range Decal	RANGE DECAL	1
7.	Assembly Manual	ASSEMBLY MANUAL	1
8.	Raw Stock Kit	RAW STOCK KIT	1
8.	1/4" Stainless Steel Rod	1/4 SS ROD	36 in
8.	3/32" Stainless Steel Rod	3/32 SS ROD	18 in
8.	5/8" x .058 Anodized Aluminum Tubing	5/8X058X6	6 in
8.	3/8" x .058 Anodized Aluminum Tubing	3/8X058X4	4 in
8.	1/4" x .028 Mill Aluminum Tubing	1/4X028X36 ALUM TUBE	36 in
8.	1/2" x .020 Alclad Aluminum Strip	1/2X020X12	12 in
8.	1/16" Brass Rod	1/16 BRASS ROD	12 in
8.	1" x .032 Aluminum Strip	1X032X24	24 in
8.	1/2" x .035 Anodized Aluminum Tubing	1/2X035X36 ALUM TUBE	36 in
9.	1/2" x .035 x 12' Anodized Aluminum Tubing	1/2X035 ALUM TUBE	4
10.	Warning Label	KPPL0001	1

*Supplied in Raw Stock Kit.

**May be purchased separately, call the Parts Dept for pricing.

4/28/2000

RMS S-9 CHAOS FUEL TANK FITTING INSTALLATION



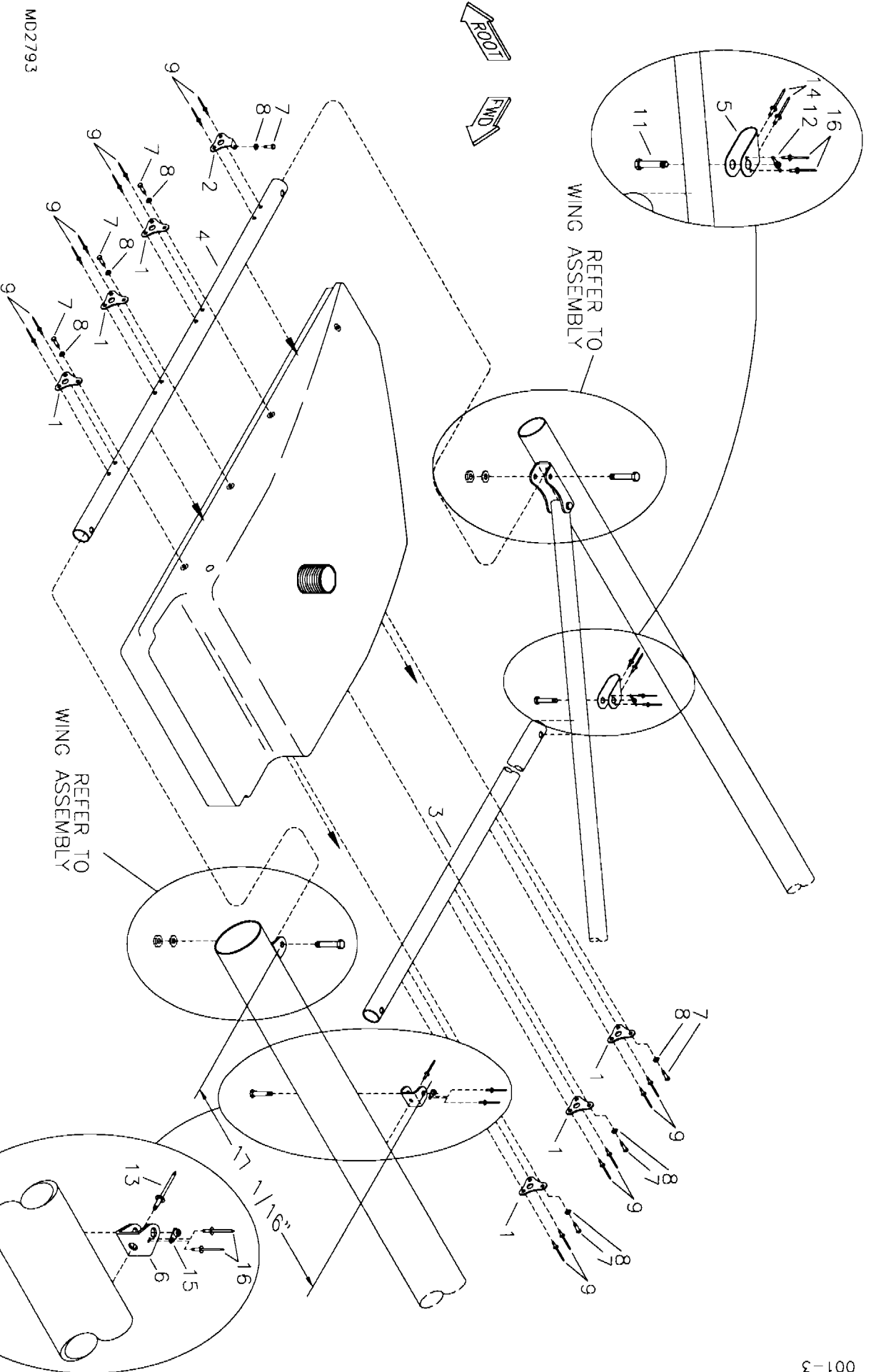
#	DESCRIPTION	PART NUMBER	QUANTITY
1.	Fuel Cap *	KSFS0007	1
2.	Bead Chain-Retainer Sleeve	KSHW0014	1
3.	Plastic Baffle ***	-----	0
4.	Rubber Gasket ***	-----	0
5.	#3 Bead Chain	KSHW0012	1
6.	1/8" Stainless Steel Pop Rivet - Cherry Q	CCPQ-44	1
7.	Bead Chain-End Coupling	KSHW0013	1
8.	Plastic Retainer	KPFS0012	1
9.	1/8" Small Brass Washer	AN960-B4	1
10.	Fuel Tank, LH	KPFS0005-L	1
11.	90 Withdrawal Fitting	8342	3
12.	Loctite Blue	LOC-TITE	0
13.	Thread Sealant **	KSAC0014	0
14.	Nut-Flared Tube Bulkhead	AN924-5D	4
15.	1/2" Thick Washer	AN960-816	4
16.	Rubber Washer	KSFS0010	4
17.	O-Ring	KSFS0009	4
18.	Tank Withdrawal Fitting	KPFS0017	4
19.	Flush Valve	KSFS0011	1

*Builder must modify, see manual for instructions.

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

***Supplied with Fuel Cap.

2/6/2013

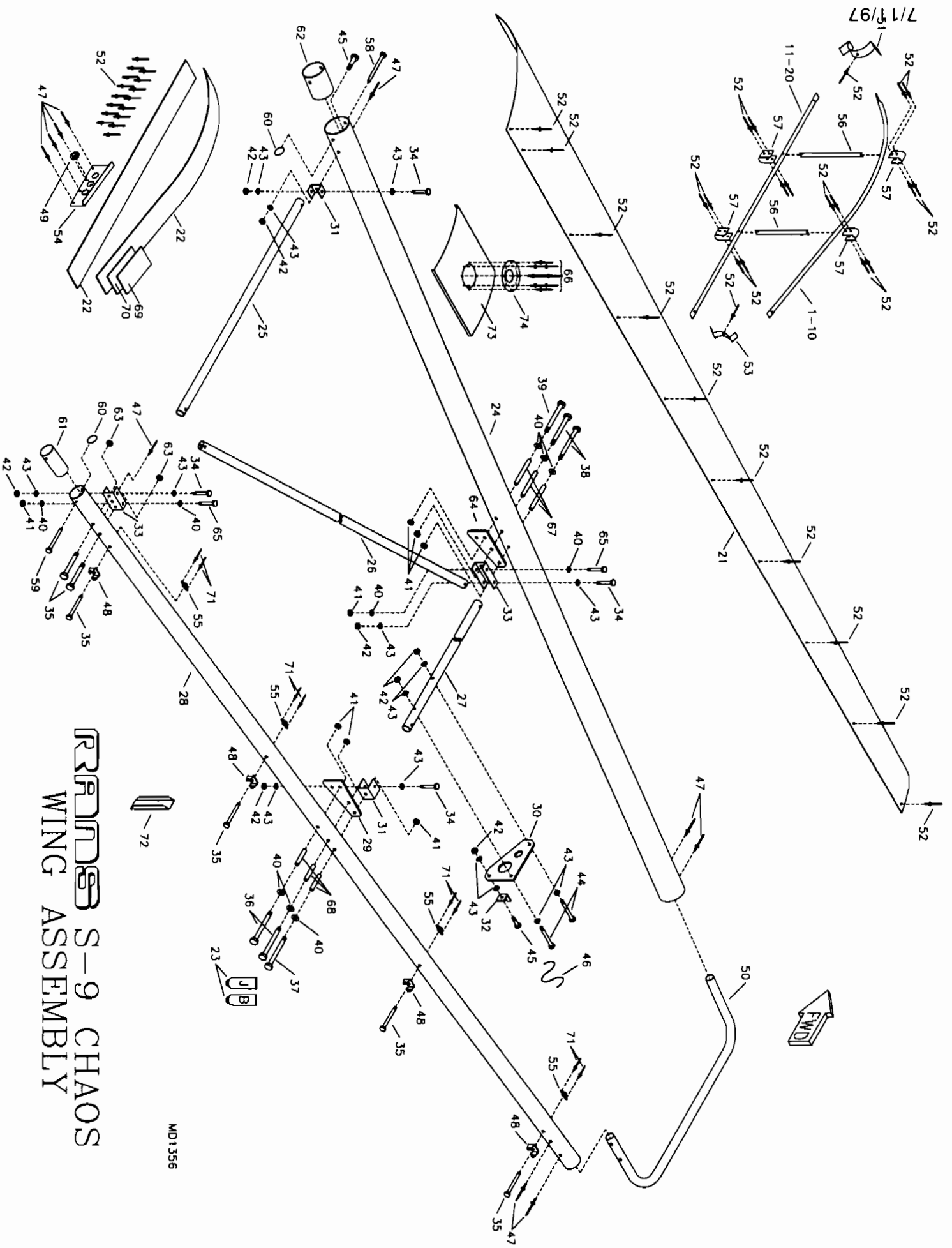


R3F0103 S-9 CHAOS FUEL TANK MOUNT

S-9 CHAOS - FUEL TANK MOUNT

#	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	KPFS0019	1
4.	Inner Compression Tube *	W-IO-151	0
5.	U-Bracket	KPAC0055	1
6.	Attach Bracket	S2-SAB	1
7.	3/16" Bolt	AN3-3A	7
8.	3/16" Thick Washer	AN960-10	7
9.	1/8" Stainless Steel Pop Rivet - Cherry Q	CCPQ-44	14
10.	3/16" Bolt	AN3-15A	1
11.	3/16" Bolt	AN3-14A	1
12.	3/16" Nut Plate	K-1000-3	1
13.	3/16" Stainless Steel Pop Rivet - Cherry Q	CCPQ-64	1
14.	1/8" Stainless Steel Pop Rivet - Cherry Q	CCPQ-42	2
15.	3/16" Single Ear Nut Plate	MS21051-L3	1

*Referenced from wing assembly.



RPD S-9 CHAOS WING ASSEMBLY

MD1356

S-9 CHAOS - WING

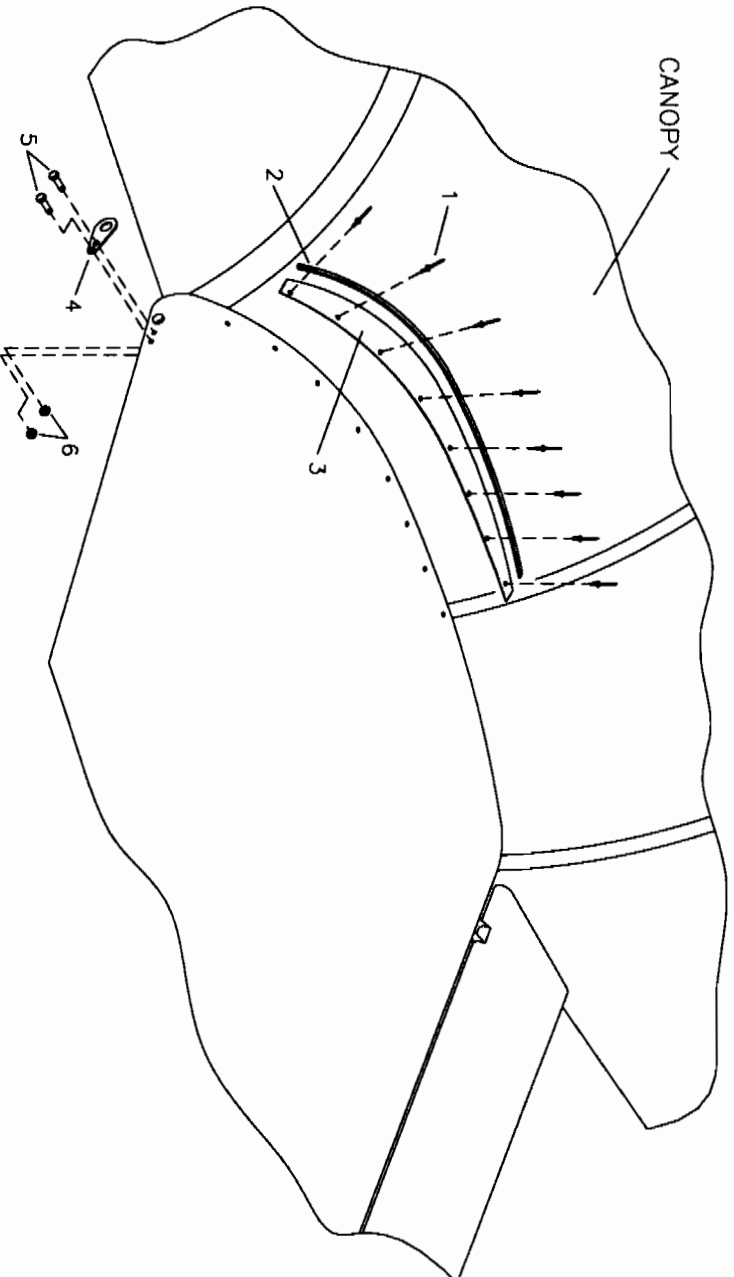
#	DESCRIPTION	PART NUMBER	QUANTITY
1.	Top Rib, #1	W-R-1	2
2.	Top Rib, #2	W-R-2	2
3.	Top Rib, #3	W-R-3	2
4.	Top Rib, #4	W-R-4	2
5.	Top Rib, #5	W-R-5	2
6.	Top Rib, #6	W-R-6	2
7.	Top Rib, #7	W-R-7	2
8.	Top Rib, #8	W-R-8	2
9.	Top Rib, #9	W-R-9	2
10.	Top Rib, #10	W-R-10	2
11.	Bottom Rib, #1	W-R-11	2
12.	Bottom Rib, #2	W-R-12	2
13.	Bottom Rib, #3	W-R-13	2
14.	Bottom Rib, #4	W-R-14	2
15.	Bottom Rib, #5	W-R-15	2
16.	Bottom Rib, #6	W-R-16	2
17.	Bottom Rib, #7	W-R-17	2
18.	Bottom Rib, #8	W-R-18	2
19.	Bottom Rib, #9	W-R-19	2
20.	Bottom Rib, #10	W-R-20	2
21.	Leading Edge Wrap	W-LE-W	2
22.	Root Strip	W-RS	4
23.	J&B Weld Epoxy	J & B	2
24.	Leading Edge Spar	W-LES	2
25.	Root Compression Tube	W-RCT	2
26.	Drag Brace	W-DB	2
27.	Outer Compression Tube	W-OC	2
28.	Trailing Edge Spar	W-TES(9/10)	2
29.	AFT Strut Plate	W-SAP-TE	2
30.	Elevator Horn	TG-EH	2
31.	Horizontal Stabilizer Attach Bracket	S2-SAB	4
32.	Teleflex Retainer	W-TEL-R	2
33.	Long Wing Channel	W-WCL	4
34.	3/16" Bolt	AN3-15A	8
35.	3/16" Bolt	AN3-23A	12
36.	1/4" Bolt	AN4-25A	4
37.	1/4" Bolt	AN4-26A	2
38.	1/4" Bolt	AN4-36A	4
39.	1/4" Bolt	AN4-35A	2
40.	1/4" Thin Washer	AN960-416L	20
41.	1/4" Shear Nut	AN364-428A	16
42.	3/16" Shear Nut	AN364-1032A	16
43.	3/16" Thin Washer	AN960-10L	30

S-9 CHAOS - WING CONTINUED

# DESCRIPTION	PART NUMBER	QUANTITY
44. 3/16" Bolt	AN3-14A	4
45. 3/16" Bolt	AN3-4A	4
46. Safety Wire	SAFETY WIRE	1
47. 3/16" Stainless Steel Pop Rivet - Cherry Q	CCPQ-64	20
48. Stainless Steel Hinge	W-HB	8
49. Rubber Grommet (Teleflex Exit)	MS35489-17	2
50. Tip Bow	W-TIP(9/10)	2
51. Rib Clip, Leading Edge	W-RIB-CLIP-LE	20
52. 1/8" Aluminum Pop Rivet - Cherry Q	AAPQ-42	412
53. Rib Clip, Trailing Edge	W-RIB-CLIP-TE	20
54. Foot Step Web	W-FSW	2
55. 3/16" Nut Plate	K-1000-3	8
56. Rib Compression Tubes **	W-RIB-CT	36
57. Rib Gussets	RT-CLIP	72
58. Clevis Pin	MS20392-5C101	2
59. 3/8" Clevis Pin	MS20392-5C71	2
60. Loc Ring	RL 27 1/4	4
61. TES Doubler	W-TES-D	2
62. Leading Edge Spar Doubler	W-LES-D	2
63. 3/16" Tensile Nut	AN365-1032A	4
64. Forward Strut Plate	W-SAP-LE	2
65. 1/4" Bolt	AN4-15A	4
66. 1/8" Aluminum Pop Rivet - Avex	1691-0410	16
67. Spacer Bushing, 3/8" X 2 31/32"	SB-3/8X3	6
68. Spacer Bushing, 3/8" X 1 31/32"	SB-3/8X2	6
69. Foot Step Wear Plate	W-FSWP	2
70. Foot Step Sub Plate	W-FSSP	2
71. 3/32" Aluminum Pop Rivet	40APR1/8	16
72. Wing Rib Channel *	KPWI0234	1
73. Upper Root Skin - LH	KPWI0235-L	1
73. Upper Root Skin - RH	KPWI0235-R	1
74. Upper Root Skin Scupper - Wing	KPWI0206	2

*Builder must modify.

**Fabricate, see manual.



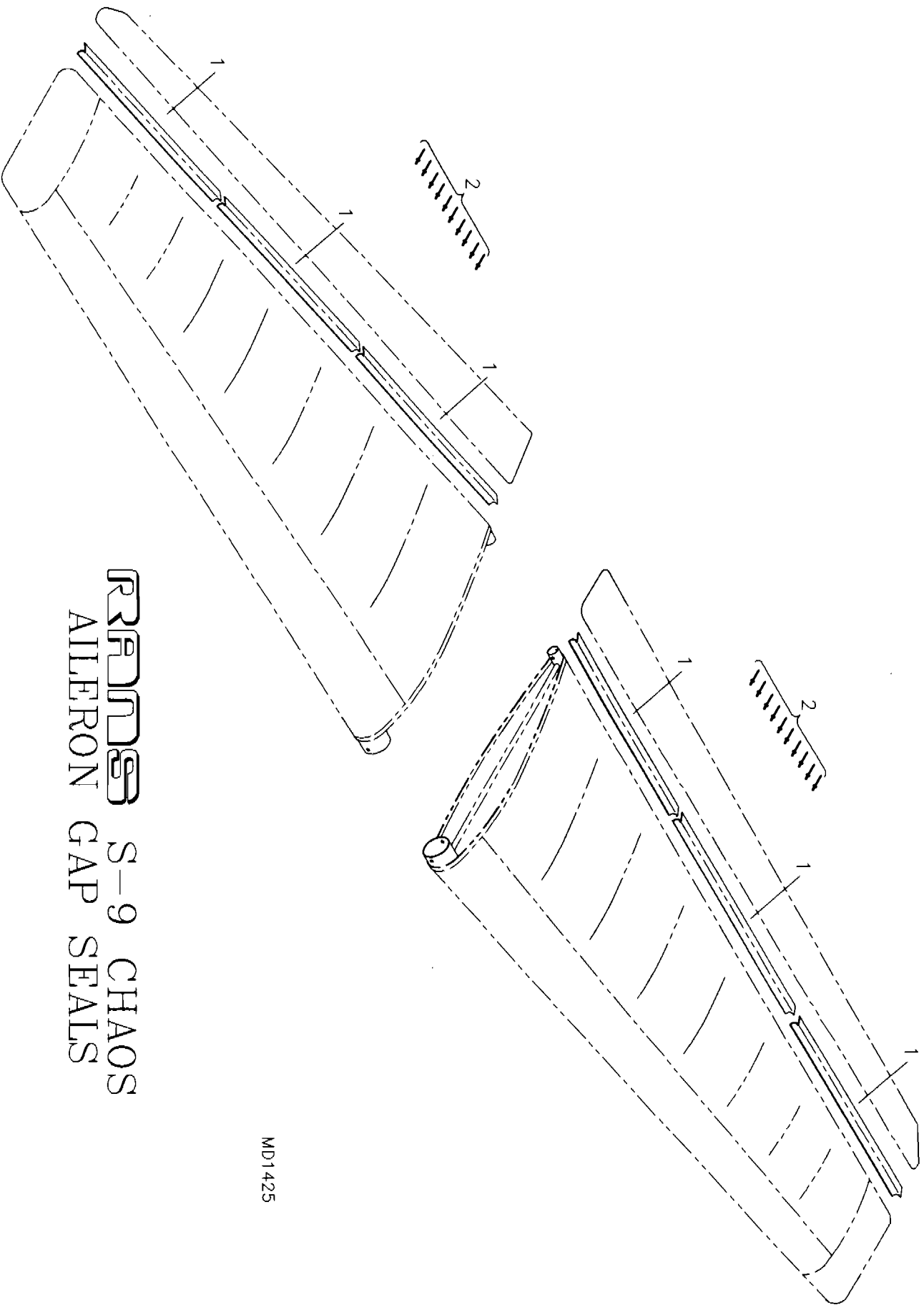
MD1575

RRR S-9 CHAOS WING TOP SIDE GAP SEAL AND ROOT TANG ASSEMBLY

S-9 CHAOS - WING TOP SIDE GAP SEAL & ROOT TANG ASSEMBLY

#	DESCRIPTION	PART NUMBER	QUANTITY
1.	1/8" Aluminum Pop Rivet - Cherry Q	AAPQ-42	18
2.	Trim Loc	TRIM-LOC	52 in
3.	Gap Seal, .020 X 1 1/2" X 26"	W-GAP-S	2
4.	Root Tang *	W-ROOT-T	2
5.	3/16" Bolt	AN3-4A	4
6.	3/16" Shear Nut	AN364-1032A	4

*Installed during final post covering and painting.

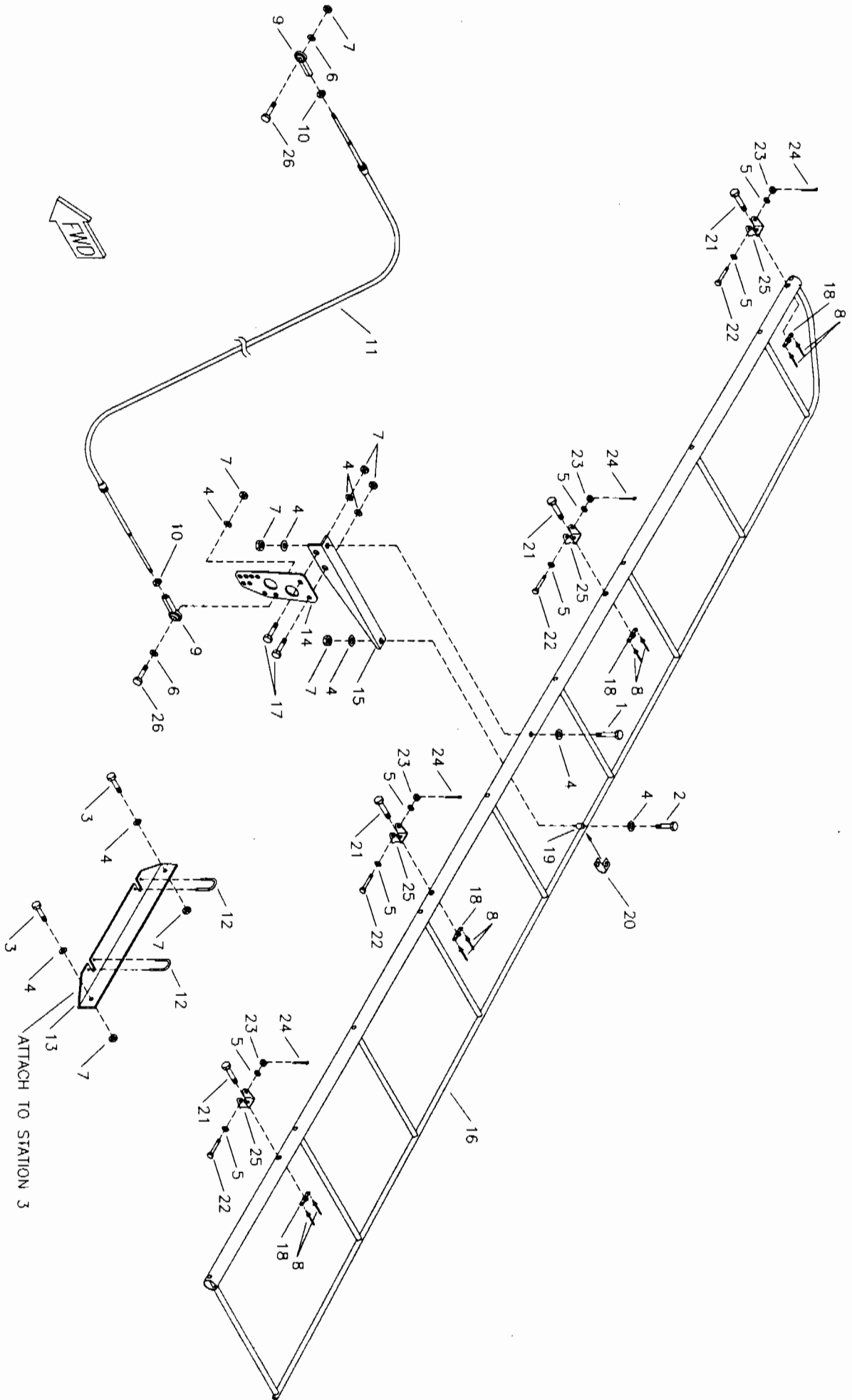


RRPMD S-9 CHAOS
AILERON GAP SEALS

MD1425

S-9 CHAOS - AILERON GAP SEALS

#	DESCRIPTION	PART NUMBER	QUANTITY
1.	Gap Seal	GAP-2	24 ft
2.	1/8" Aluminum Pop Rivet - Cherry Q	AAPQ-44	20



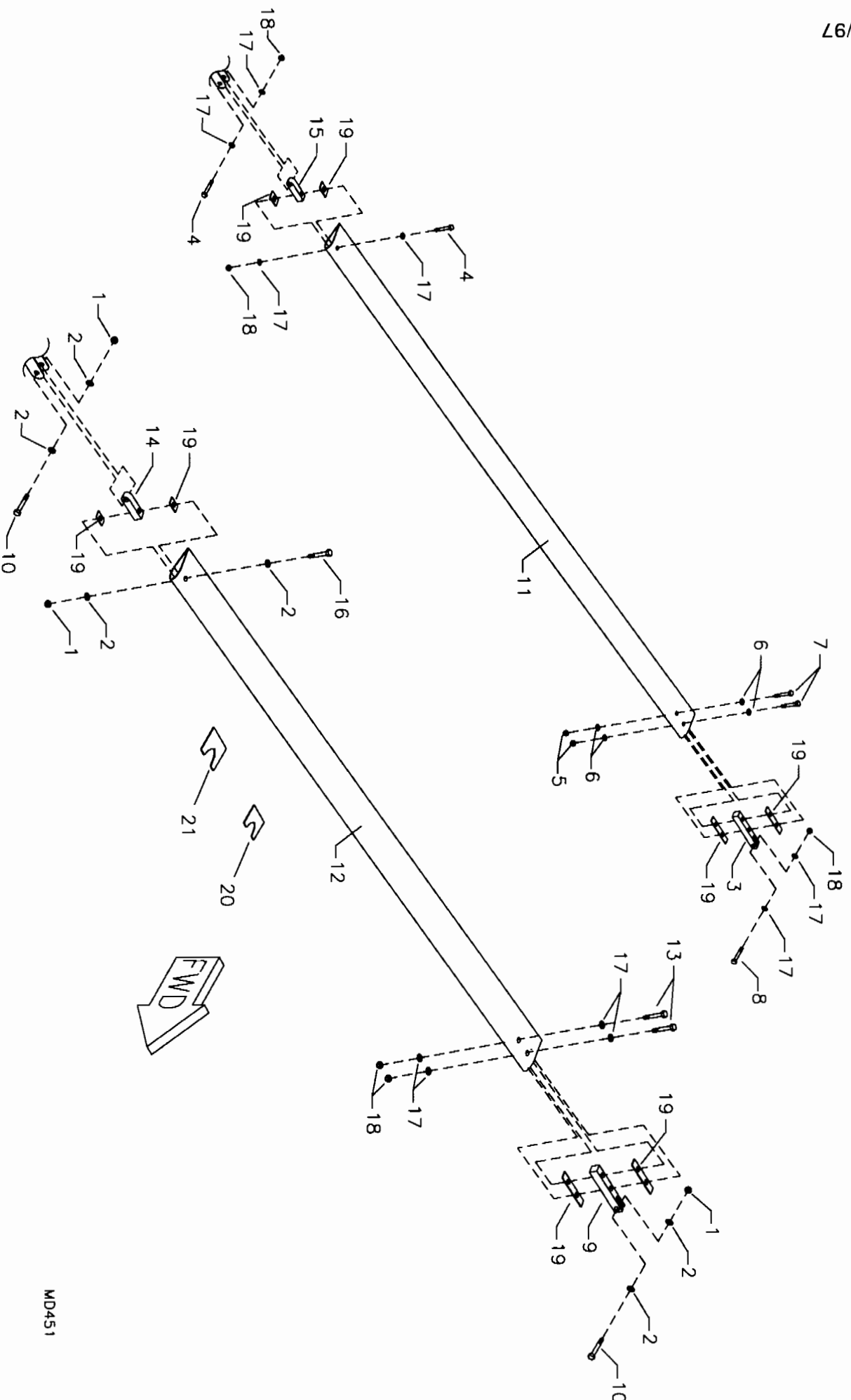
S-9 CHAOS AILERON ASSEMBLY

MD1355

#	DESCRIPTION	PART NUMBER	QUANTITY
1.	3/16" Bolt	AN3-14A	2
2.	3/16" Bolt	AN3-10A	2
3.	3/16" Bolt	AN3-5A	2
4.	3/16" Thin Washer	AN960-10L	18
5.	3/16" Thick Washer	AN960-10	16
6.	3/16" Plastic Washer	PW-3	4
7.	3/16" Shear Nut	AN364-1032A	14
8.	3/32" Aluminum Pop Rivet	40APR1/8	16
9.	Female Rod End	NF-3	4
10.	3/16" Stop Nut *	-----	0
11.	Aileron Teleflex, 10'	W-A-TELFEX-10	2
12.	Retainer Clip (Bend from Brass Wire) **	TEL-CLIP	2
13.	Teleflex Retainer Angle	W-AIL-TEL-R	1
14.	Unihorn	UNI-HORN	2
15.	Aileron Horn Attach Angle, LH	W-AHAA-L	1
15.	Aileron Horn Attach Angle, RH	W-AHAA-R	1
16.	Aileron Frame	W-AF	2
17.	3/16" Bolt	AN3-4A	4
18.	3/16" Nut Plate	K-1000-3	8
19.	Spacer Bushing, 1/4" x 1/2" **	SB-1/4X1/2	2
20.	Aileron Clip	W-A-CLIP	2
21.	3/16" Bolt	AN3-13A	8
22.	3/16" Bolt	AN3-15	8
23.	3/16" Castle Nut	AN310-3	8
24.	Small Cotter Pin	MS24665-134	8
25.	Stainless Steel Hinge	W-HB	8
26.	3/16" Bolt	AN3-7A	4

*On Teleflex.

**Fabricate, see bushing sheet in manual.



REFINED S-9 CHAOS LIFT STRUT ASSEMBLY

MD451

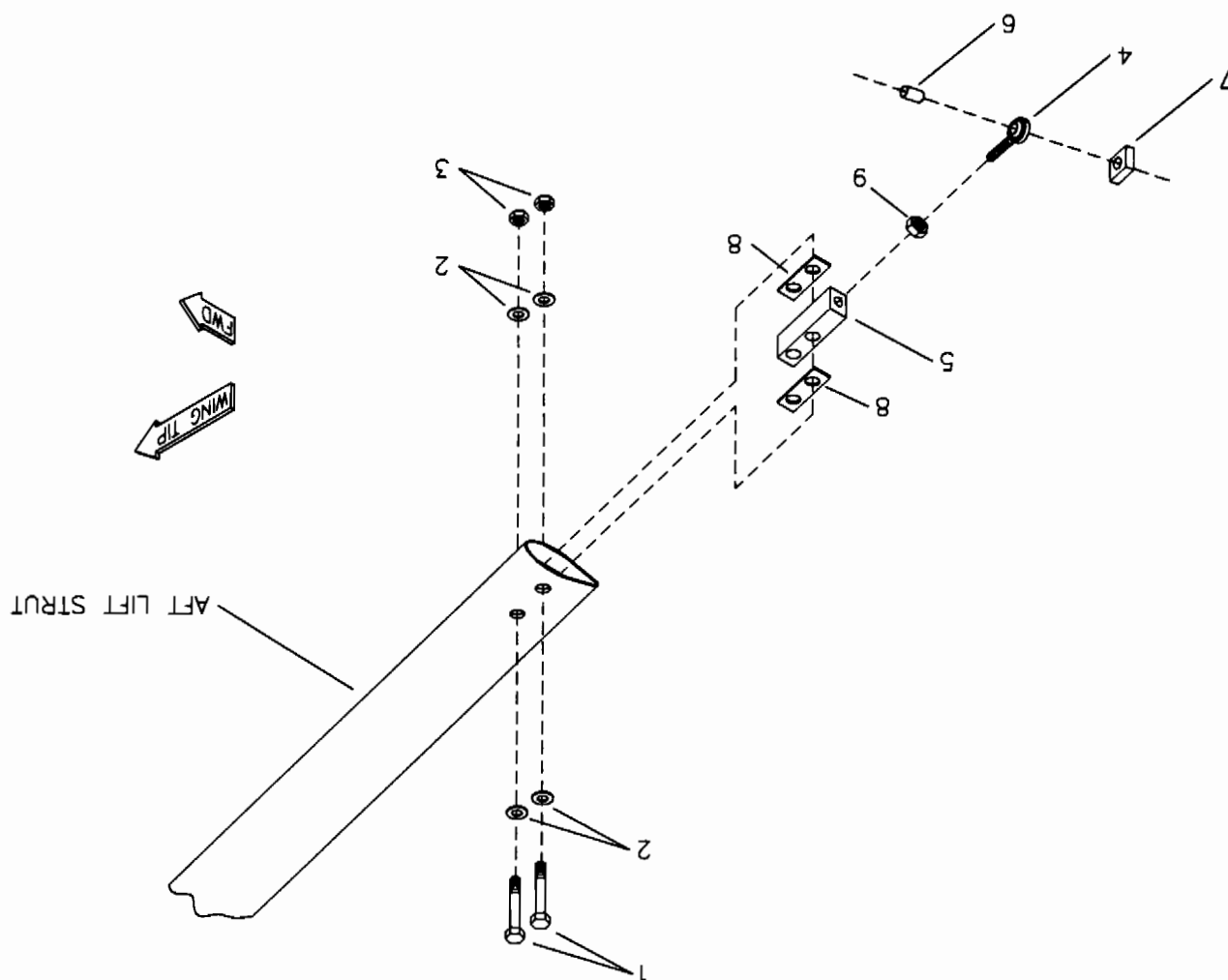
S-9 CHAOS - LIFT STRUT ASSEMBLY

#	DESCRIPTION	PART NUMBER	QUANTITY
1.	5/16" Shear Nut	AN364-524A	6
2.	5/16" Thick Washer	AN960-516	12
3.	AFT Lift Strut Connector, Upper	LS-ACU	2
4.	1/4" Bolt (-2 Ad Struts)	AN4-13A	4
5.	3/16" Shear Nut	AN364-1032A	4
6.	3/16" Thin Washer	AN960-10L	8
7.	3/16" Bolt	AN3-13A	4
8.	1/4" Bolt	AN4-11A	2
9.	FWD. Lift Strut Connector, Upper	LS-FCU	2
10.	5/16" Bolt	AN5-13A	4
11.	AFT Lift Strut	KPWI0065	2
12.	Forward Lift Strut	KPWI0064	2
13.	1/4" Bolt	AN4-15A	4
14.	Strut Connector, FWD Aluminum	LS-SC-F-ALUM	2
15.	Strut Connector, AFT Aluminum (-2 Ad Struts)	LS-SC-A-ALUM	2
16.	5/16" Bolt	AN5-15A	2
17.	1/4" Thin Washer (-4 Ad Struts)	AN960-416L	20
18.	1/4" Shear Nut (-2 Ad Struts)	AN364-428A	10
19.	Universal Shim *	UNV-SHIM	4
20.	Small Lift Strut Chord Template	KPLS0004	1
21.	Large Lift Strut Chord Template	KPLS0003	1

*Builder must fabricate from raw stock.

RRMS S-9 CHAOS OPTIONAL ADJUSTABLE LIFT STRUTS

MD1593
REV. A

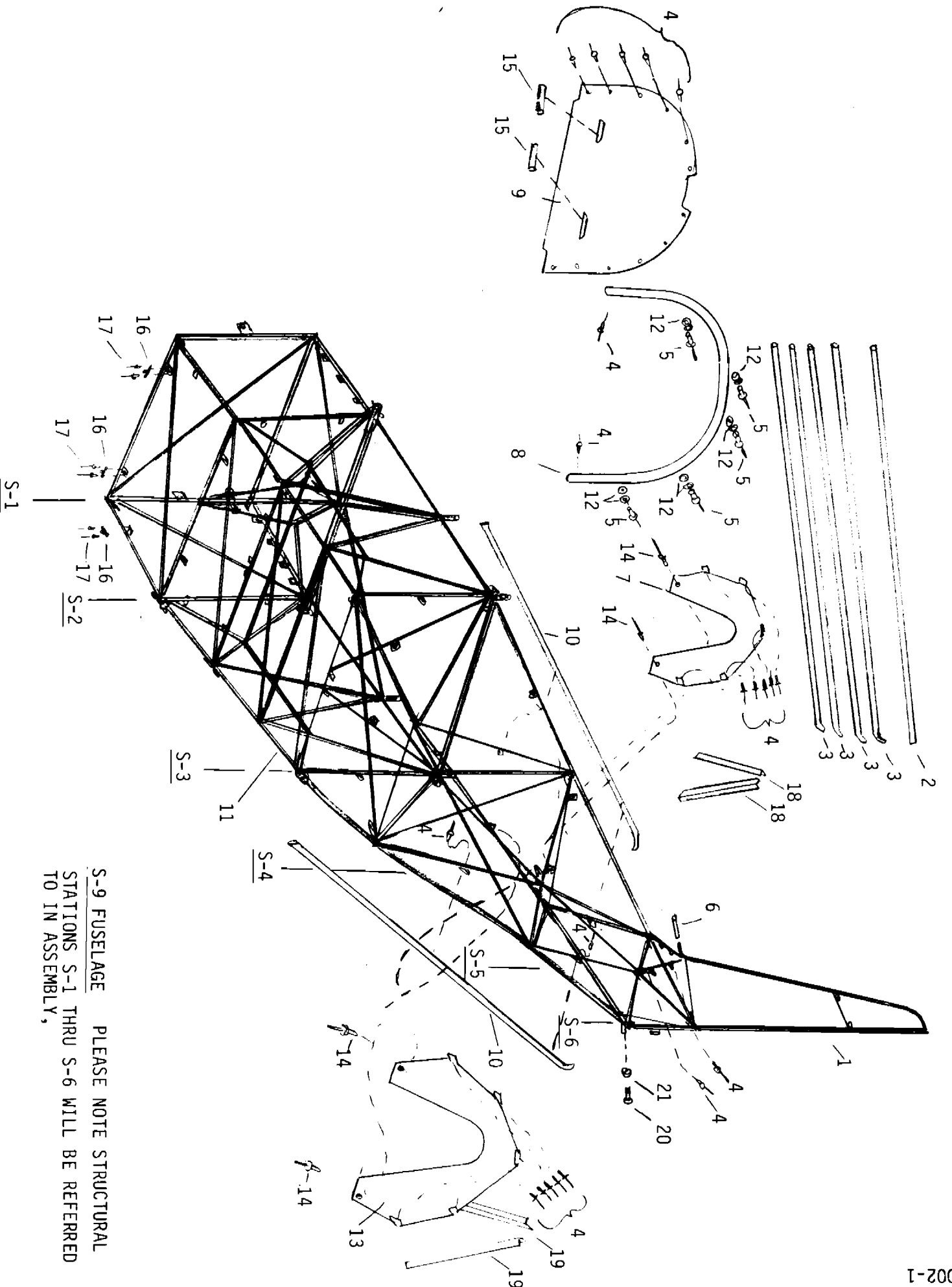


#	DESCRIPTION	PART NUMBER	QUANTITY
1.	3/16" Bolt	AN3-13A	4
2.	3/16" Thick Washer	AN960-10	8
3.	3/16" Shear Nut	AN364-1032A	4
4.	Rod End	3/8X24 ROD END	2
5.	Adjustor End	S-AE-3/4	2
6.	Spacer Bushing, 3/8" x .058 x 1/2" *	SB-3/8X1/2X058	2
7.	Square Spacer	KPAC0024	2
8.	Universal Hinge **	UNV-SHIM	0
9.	3/8" Plain Nut	MS35650-3382	2

*Builder must fabricate from raw stock.

**Make shim from .020 raw stock.

2/17/2006



S-9 FUSELAGE PLEASE NOTE STRUCTURAL STATIONS S-1 THRU S-6 WILL BE REFERRED TO IN ASSEMBLY,

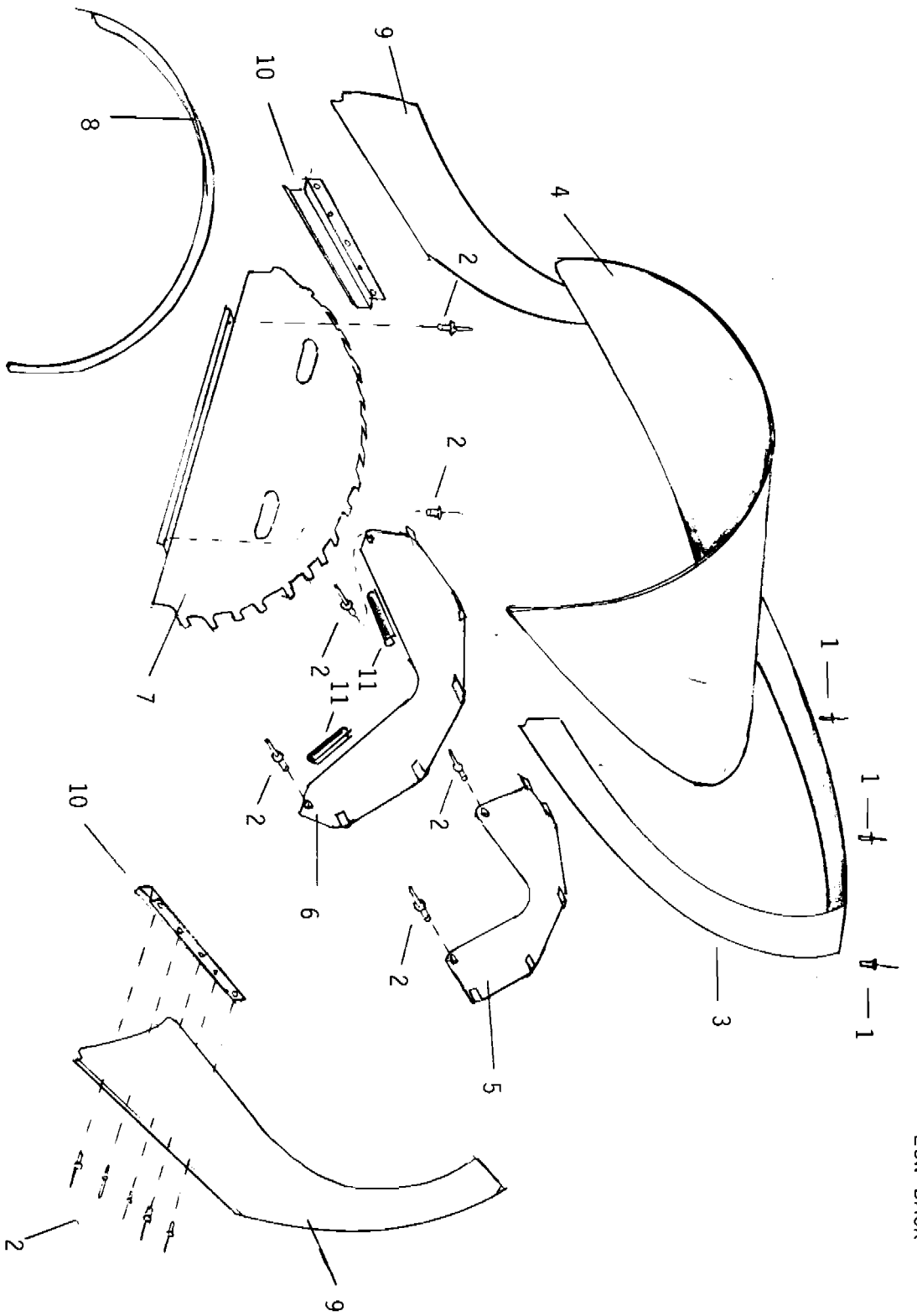
S-9 CHAOS - FUSELAGE

# DESCRIPTION	PART NUMBER	QUANTITY
1. Vertical Stabilizer *	F-VS	0
2. Top Former, 52 3/4" x 1/2" **	F-TF	1
3. Side Former, 58" x 1/2" **	F-SF	6
4. 1/8" Aluminum Pop Rivet - Cherry Q	AAPQ-42	46
5. 3/16" Aluminum Pop Rivet - Cherry Q (-8 Low Back)	AAPQ-62	8
6. Splice Tube	F-SPT	1
7. Former B (-1 Low Back)	F-TDF-B(9)	1
8. Canopy Former	WS-CF	1
9. Turtle Deck S-3 Cover (-1 Low Back)	F-COV-S3	1
10. See #3	-----	0
11. Fuselage	F-FUS	1
12. 3/16" Thick Washer (-10 Low Back)	AN960-10	10
13. Former A (-1 Low Back)	F-TDF-A(9)	1
14. 3/16" Stainless Steel Pop Rivet - Cherry Q	CCPQ-64	4
15. Trim Loc, 2 @ 2"	TRIM-LOC	4 in
16. 3/16" Nut Plate	K-1000-3	18
17. 3/32" Aluminum Pop Rivet	40APR1/8	36
18. Aluminum Angle, 3/4" x 3/4" x 14" x .032 (-2 LB)	F-AA-14	2
19. Aluminum Angle, 3/4" x 3/4" x 18" x .032 (-2 LB)	F-AA-18	2
20. 1/4" Bolt	AN4-5A	2
21. 1/4" Plain Nut	AN345-416	2

*Preassembled to the fuselage.

**Fabricate, see manual.

LOW BACK

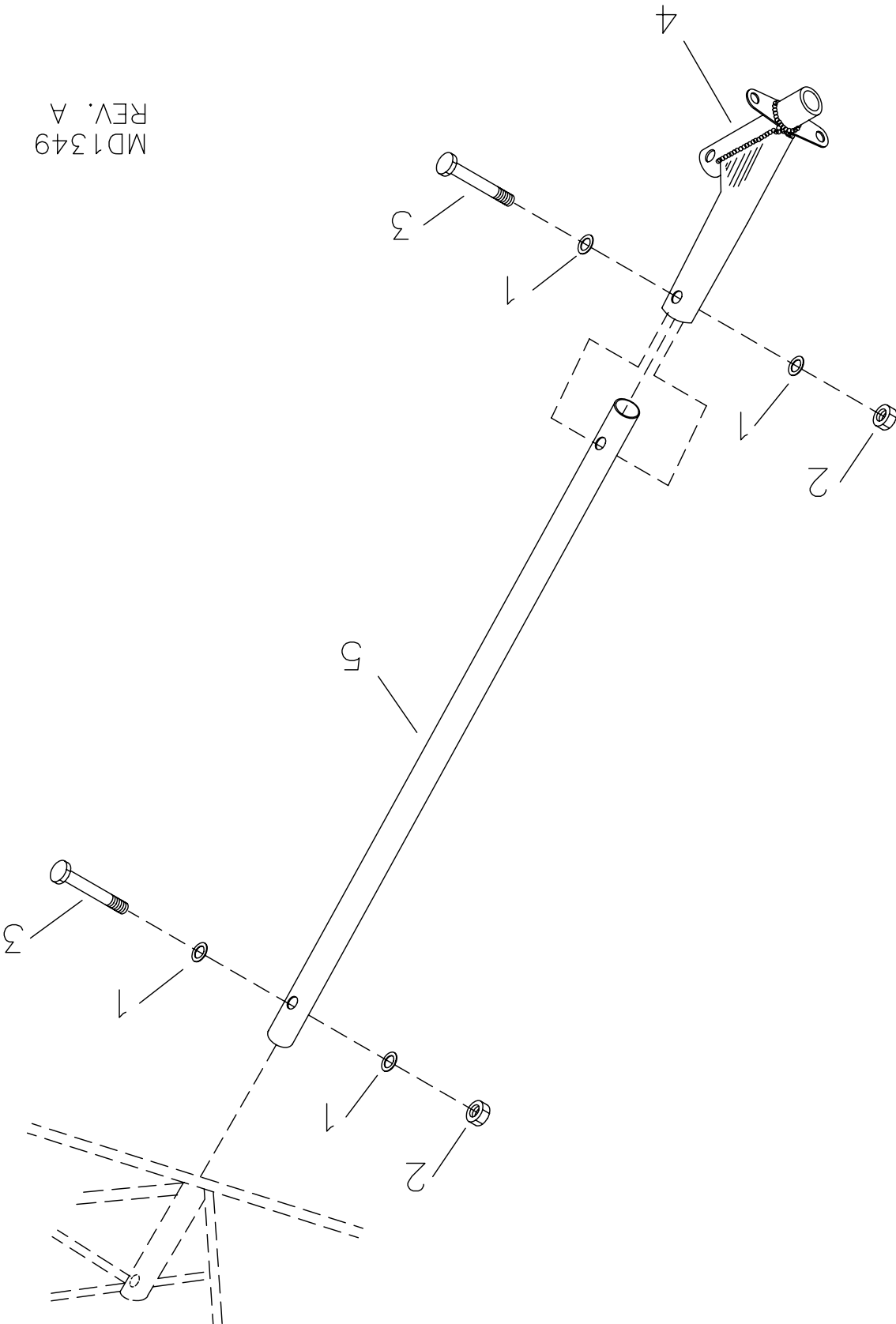


S-9 CHAOS - LOW BACK OPTION

#	DESCRIPTION	PART NUMBER	QUANTITY
1.	1/8" Aluminum Pop Rivet - Cherry Q	AAPQ-42	60
2.	3/16" Stainless Steel Pop Rivet - Cherry Q	CCPQ-64	6
3.	Molding Strip	LB-STRIP	2
4.	Back Window	LB-BW	1
5.	Former C	F-FC	1
6.	Former B	F-FB	1
7.	Former A (S-3)	F-S3FA	1
8.	Former A Wrap	F-S3F-WRAP	1
9.	Base Wrap	LB-B-WRAP	2
10.	Base Wrap "Z" Strip	LB-B-WRAP-Z	2
11.	Trim Loc, 2 @ 2"	TRIM-LOC	4 in

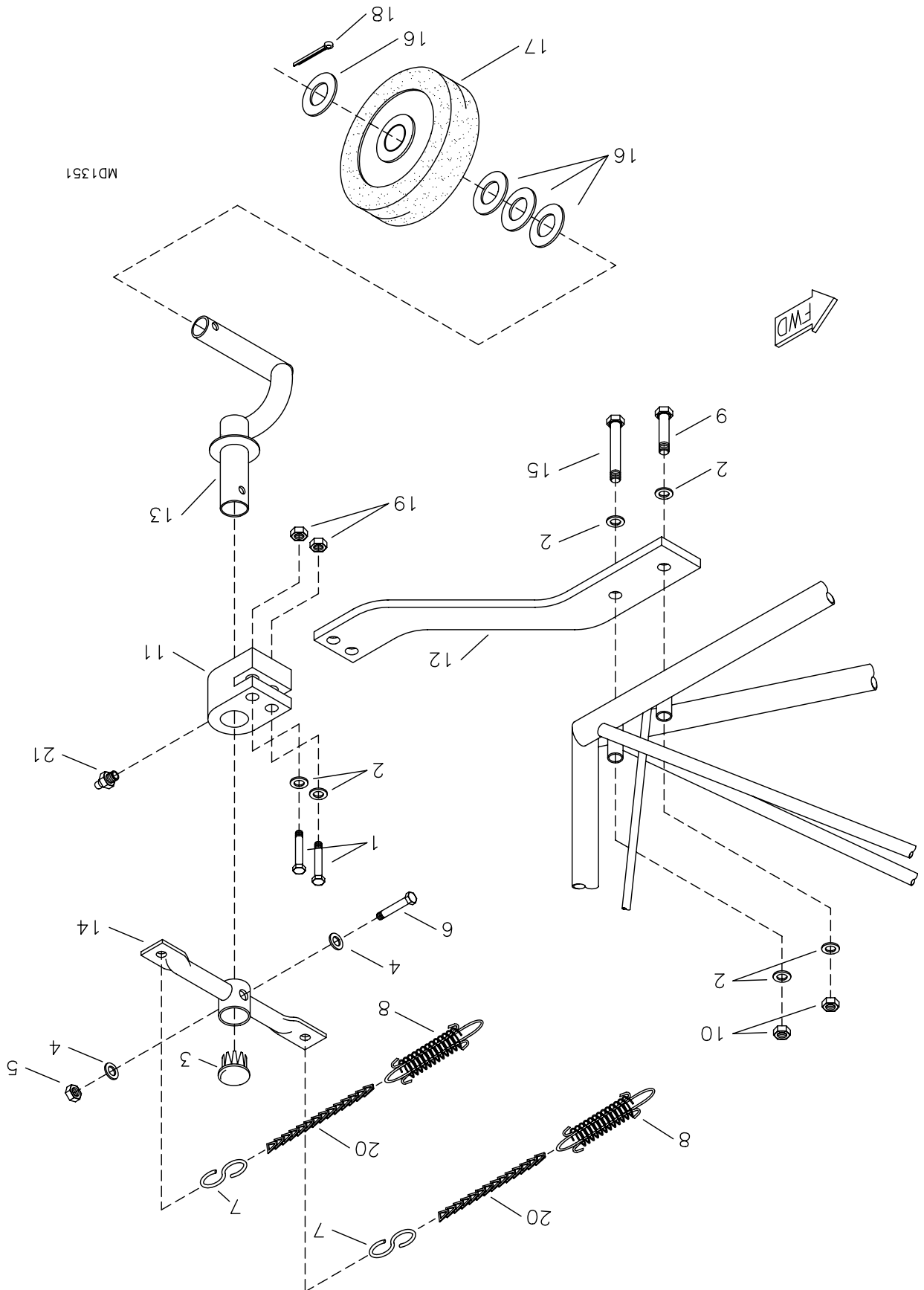
RPM S-9 CHAOS MAIN GEAR LEG INSTALLATION

MD1349
REV. A



#	DESCRIPTION	PART NUMBER	QUANTITY
1.	1/4" Thick Washer	AN960-416	8
2.	1/4" Shear Nut	AN364-428A	4
3.	1/4" Bolt	AN4-17A	4
4.	Main Gear Axle Socket	LG-A-SOC-9	2
5.	Gear Leg	LG-GL-9	2

RPM S-9 CHAOS TAILWHEEL ASSEMBLY



#	DESCRIPTION	PART NUMBER	QUANTITY
1.	1/4" Bolt	AN4-17A	2
2.	1/4" Thick Washer	AN960-416	6
3.	7/8" End Cap	CS-EC	1
4.	3/16" Thin Washer	AN960-10L	2
5.	3/16" Shear Nut	AN364-1032A	1
6.	3/16" Bolt	AN3-13A	1
7.	"S" Hook	TW-SHOOK	2
8.	Return Spring	TW-S-SPR	2
9.	1/4" Bolt	AN4-16A	1
10.	1/4" Tensile Nut	AN365-428A	2
11.	Tailwheel Swivel Stub	TW-SS	1
12.	Tail Spring	TW-TS(9)	1
13.	Fork	TW-F(10)	1
14.	Steer Horn	TW-SH(10)	1
15.	1/4" Bolt	AN4-23A	1
16.	5/8" Washer	TW-5/8W	4
17.	Tailwheel (Rubber with Precision Bearing)	TW-TW	1
18.	Large Cotter Pin	MS24665-285	1
19.	1/4" Shear Nut	AN364-428A	2
20.	Chain	TW-C	2
21.	Grease Fitting	GREASE FITTING	1

#	DESCRIPTION	PART NUMBER	QUANTITY
1.	Loc Nut *	KSBS0008-1	0
2.	Washer *	KSBS0008-2	0
3.	Wheel - Outside *	KSBS0008-3	0
4.	Wheel - Inside *	KSBS0008-4	0
5.	Short Hub Bolt *	KSBS0008-5	0
6.	Long Hub Bolt *	KSBS0008-6	0
7.	Bearing Hub *	KSBS0008-7	0
8.	Brake Disc *	KSBS0008-8	0
9.	Disc Attach Bolt *	KSBS0008-9	0
10.	Sleeve *	KSBS0008-10	0
11.	Loc Nut *	KSBS0008-11	0
12.	Washer *	KSBS0008-12	0
13.	Caliper Assembly *	KSBS0008-13	0
14.	Axle *	KSBS0008-14	0
15.	Spindle Bolt *	KSBS0008-15	0
16.	Washer *	KSBS0008-16	0
17.	5/8" Loc Nut	5/8 LOC NUT	2
18.	5" Axle Extender	KPMG0103	2
19.	Brake Line ***	-----	0 ft
20.	90 Fitting	KSBS0001	2
21.	1/4" Bolt	AN4-12A	2
22.	1/4" Bolt	AN4-4A	2
23.	1/4" Shear Nut	AN364-428A	6
24.	Loctite Blue **	-----	0
25.	1/4" Large Washer	AN970-4	2
26.	Hydraulic Brake Assembly, 5"	KSBS0008	1 pr
27.	1/4" Thin Washer	AN960-416L	4
28.	3/16" Bolt	AN3-4A	6
29.	3/16" Thin Washer	AN960-10L	4
30.	3/32" Aluminum Pop Rivet	40APR1/8	8
31.	Wheel Pants	LG-W-PANT	2
32.	Raw Stock Kit - Wheel Pants	KAAC0011	1
33.	3/16" Nut Plate	K-1000-3	4
34.	Tire, 5"	LG-T-9/10	2
35.	Inner Tube, 5"	LG-TUBE	2

* Supplied with Hydraulic Brake Assembly

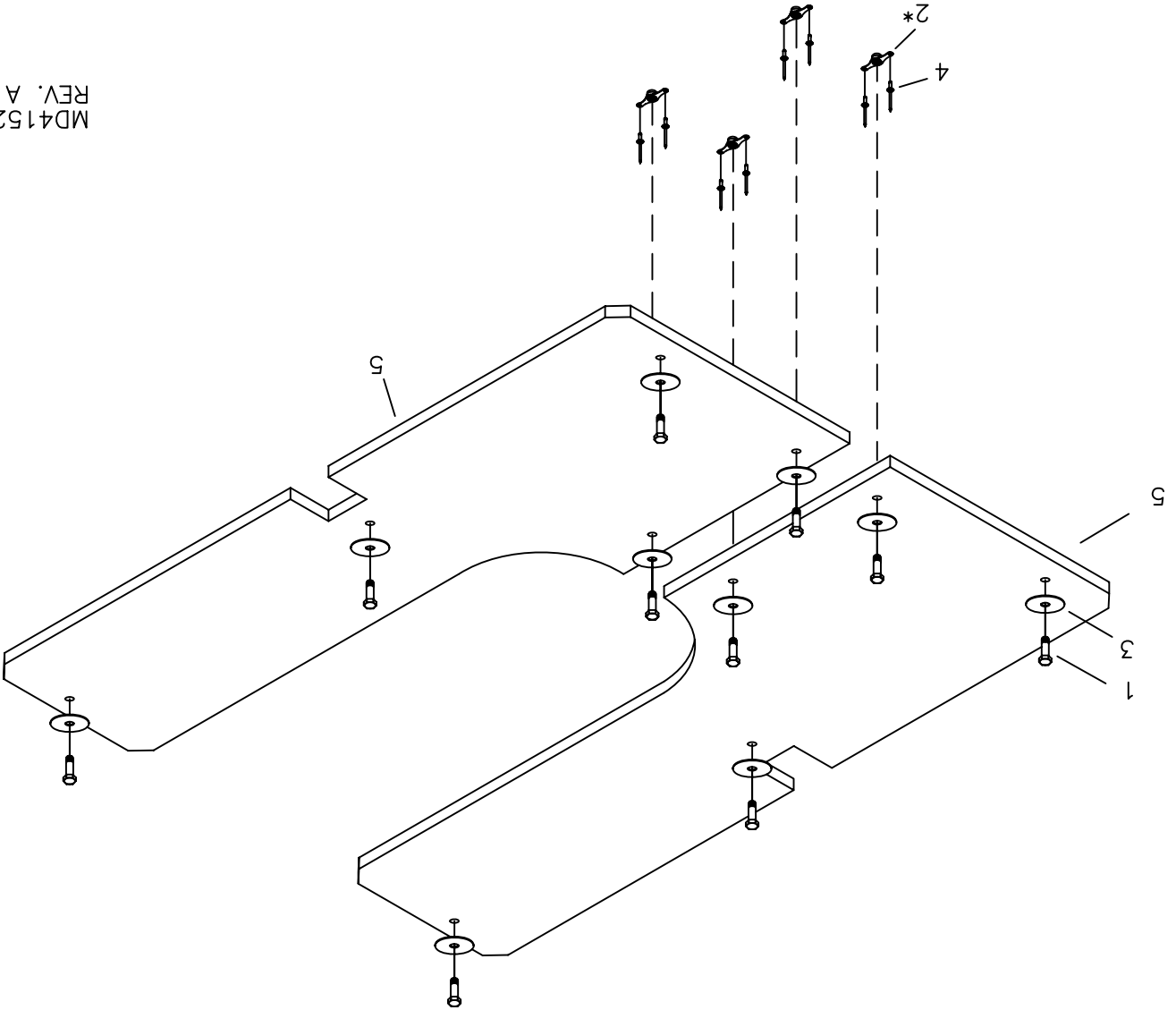
** Builder provides

*** Refer to Optional Hydraulic Brake Installation

1/3/2011

RMS S-9 CHAOS FLOORBOARD INSTALLATION

* INSTALLS UNDER FUSELAGE CHANNEL



MD4152
REV. A

#	DESCRIPTION	PART NUMBER	QUANTITY
1.	3/16" Bolt	AN3-6A	10
2.	3/32" Aluminum Pop Rivet	40APR1/8	8
3.	3/16" Large Washer	AN970-3	10
4.	3/16" Nut Plate	K-1000-3	4
5.	Floorboard - RH	KPFU0348-R	1
5.	Floorboard - LH	KPFU0348-L	1

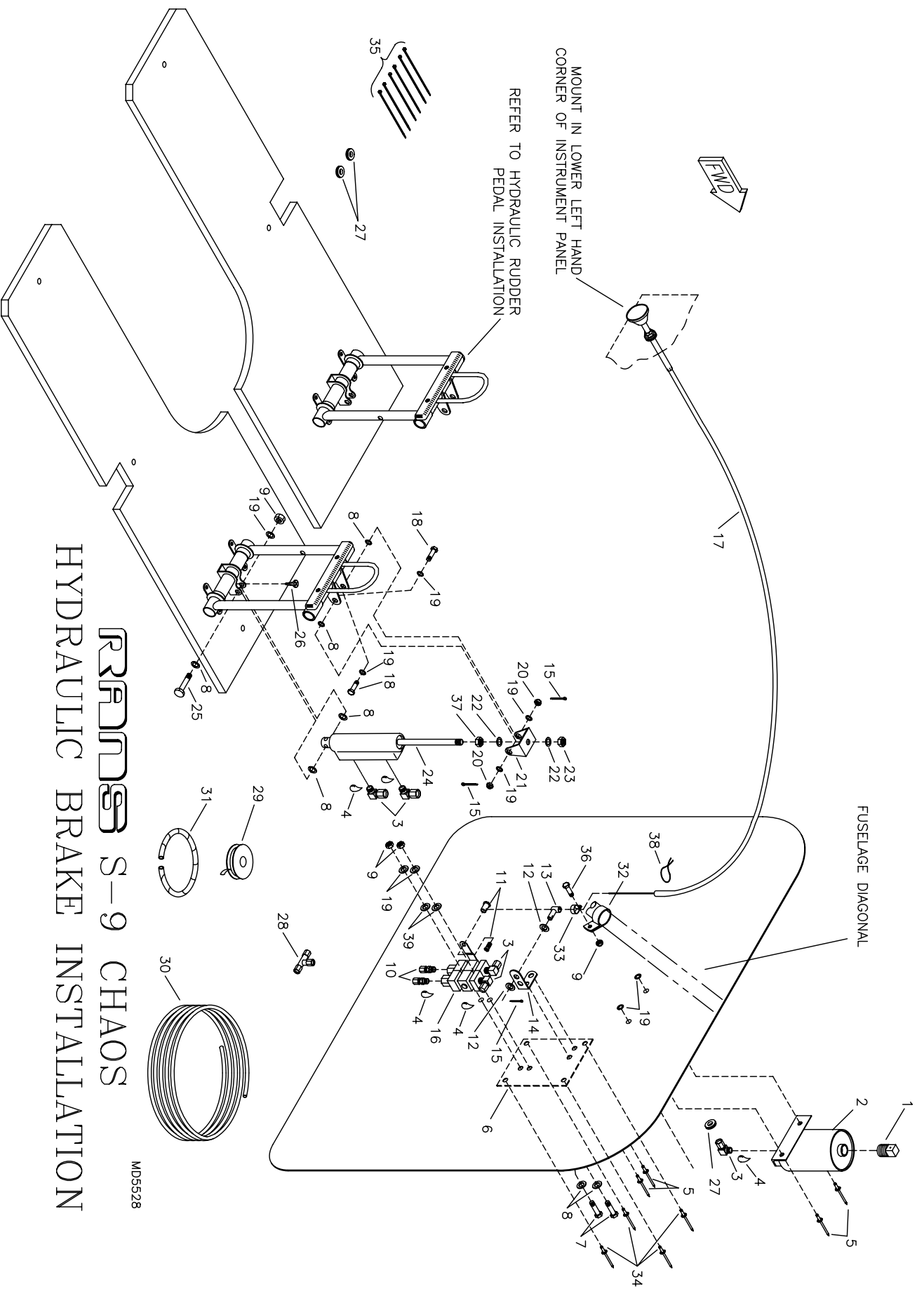
#	DESCRIPTION	PART NUMBER	QUANTITY
1.	3/16" Bolt	AN3-6A	8
2.	3/16" Thick Washer	AN960-10	8
3.	3/16" Large Washer	AN970-3	12
4.	3/16" Shear Nut	AN364-1032A	8
5.	Floorboard - RH **	KPFU0348-R	0
5.	Floorboard - LH **	KPFU0348-L	0
6.	Hyd Rudder Pedal Assy - LH	KPCS0260-L	1
6.	Hyd Rudder Pedal Assy - RH	KPCS0260-R	1
7.	Footbar - Rudder Pedals	KPRD0060	2
8.	3/16" Countersunk Screw	AN509-1032R14	4
9.	Loctite *	-----	0
10.	Rudder Return Bungee ***	FB-RRB	0
11.	Spacer Bushing, 1/4" x .028" x 1/4" ***	SB-1/4X1/4	0
12.	3/16" Bolt	AN3-13A	2
13.	3/16" Thick Washer	AN960-10	16
14.	Wear Plate	KPFU0019	2
15.	#4 Small Pan Head Screw	4X1/4 PHS	8
16.	#10 SS Washer	BSHW0022	2

* Builder provides

** Refer to Floorboard Installation

*** Refer to Rudder Installation

1/3/2011



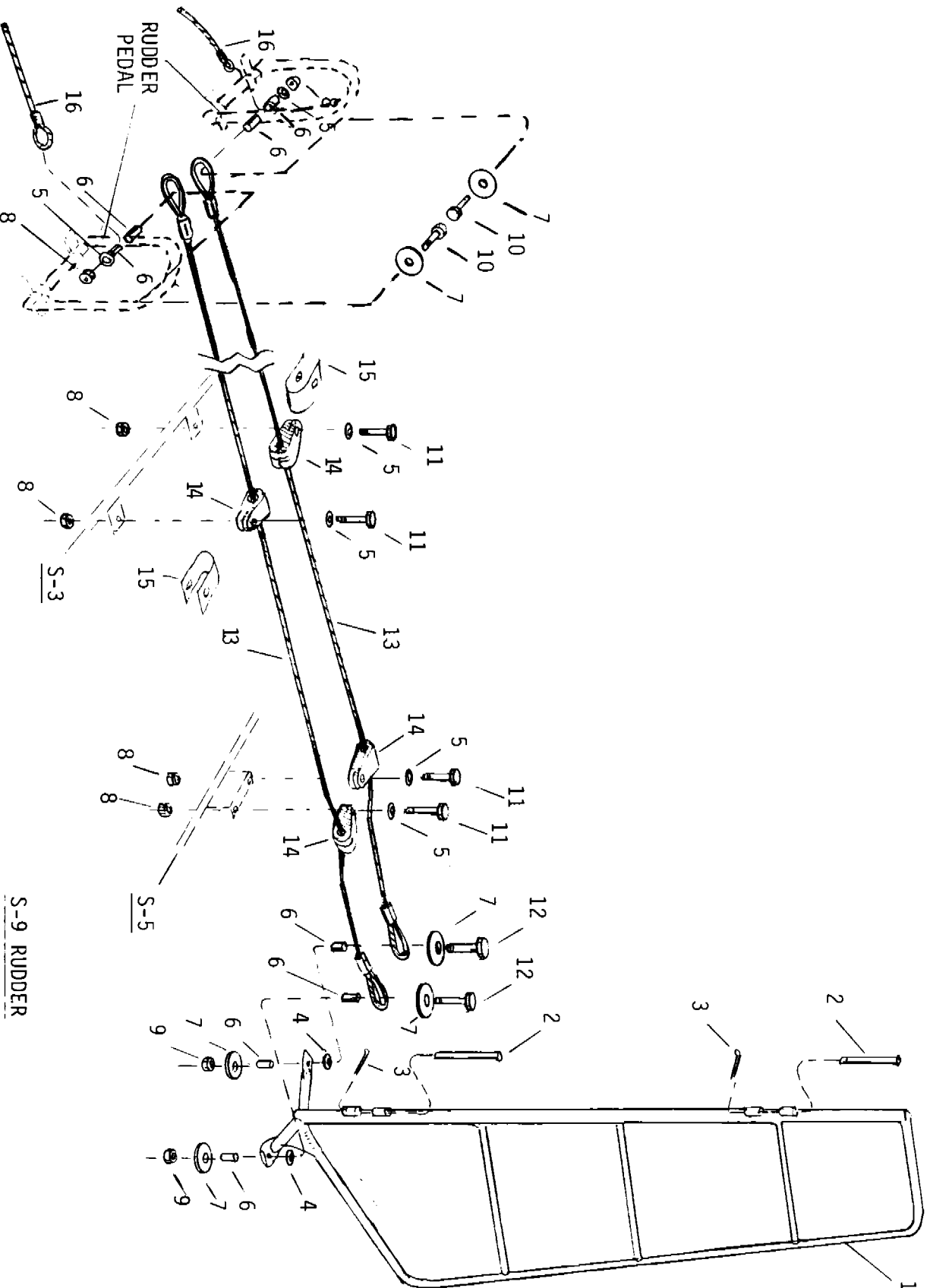
#	DESCRIPTION	PART NUMBER	QUANTITY
1.	Vented 1/8" Cap Plug ***	-----	0
2.	Hydraulic Brake Reservoir	KSBS0034	1
3.	90 Fitting	KSBS0001	7
4.	Thread Sealant *	-----	0
5.	3/16" Aluminum Pop Rivet - Cherry Q	AAPQ-62	4
6.	Park Brake Backing Plate	KPBS0008	1
7.	3/16" Bolt	AN3-12A	2
8.	3/16" Thin Washer	AN960-10L	12
9.	3/16" Shear Nut	AN364-1032A	5
10.	Straight Fitting	KSBS0002	2
11.	Wire Swivel/Screw Stop	2361	1
12.	1/4" Thick Washer	AN960-416	2
13.	Cable Housing Swivel Stop	KPBS0009	1
14.	Cable Housing Swivel Stop Bracket	KPBS0010	1
15.	Small Cotter Pin	MS24665-134	5
16.	Parking Brake	KSBS0007	1
17.	Control Cable	4-336	1
18.	3/16" Bolt	AN3-5	4
19.	3/16" Thick Washer	AN960-10	14
20.	3/16" Castle Nut	AN310-3	4
21.	U-Bracket	KPAC0017	2
22.	5/16" Thin Washer	AN960-516L	4
23.	5/16" Shear Nut	AN364-524A	2
24.	Master Cylinder - Brake	KSBS0031	2
25.	3/16" Bolt	AN3-10A	2
26.	#6 Small Pan Head Screw	6RX1/2 PHS	2
27.	Rubber Grommet	MS35489-6	3
28.	Tee Fitting	KSBS0003	1
29.	Teflon Tape *	-----	0
30.	Hydraulic Brake Line	KSBS0004	16 ft
31.	Small Anti-Chafe Loom	KPAC0113	1 ft
32.	1/2" Non Cushioned Clamp	AN742-D8	1
33.	Conduit Clamp	S1-CC	1
34.	3/32" Aluminum Pop Rivet	40APR1/8	4
35.	Zip Ties	ZIP TIES	6
36.	3/16" Bolt	AN3-3A	1
37.	Jam Nut **	-----	0
38.	Safety Wire *	-----	0
39.	MATCO Washers ****	-----	0

* Builder provides

** Supplied with Brake Cylinder

*** Supplied with Reservoir **** Supplied with Parking Brake

1/3/2011



S-9 CHAOS - RUDDER

#	DESCRIPTION	PART NUMBER	QUANTITY
1.	Rudder Frame	R-RF	1
2.	1/4" Clevis Pin	MS20392-3C65	2
3.	Small Cotter Pin	MS24665-134	2
4.	3/16" Plastic Washer	PW-3	2
5.	3/16" Thin Washer	AN960-10L	6
6.	Spacer Bushing, 1/4" x 1/4" **	SB-1/4X1/4	8
7.	3/16" Large Wood Washer	AN970-3	6
8.	3/16" Shear Nut	AN364-1032A	6
9.	3/16" Tensile Nut	AN365-1032A	2
10.	3/16" Bolt	AN3-12A	2
11.	3/16" Bolt	AN3-6A	4
12.	3/16" Bolt	AN3-11A	2
13.	Rudder Cable	S9-R-CAB	2
14.	Cable Guide	HA-144	4
15.	Guide Keeper **	R-GK	2
16.	Rudder Return Bungee	FB-RRB	2

**Fabricate, see bushing sheet in manual.

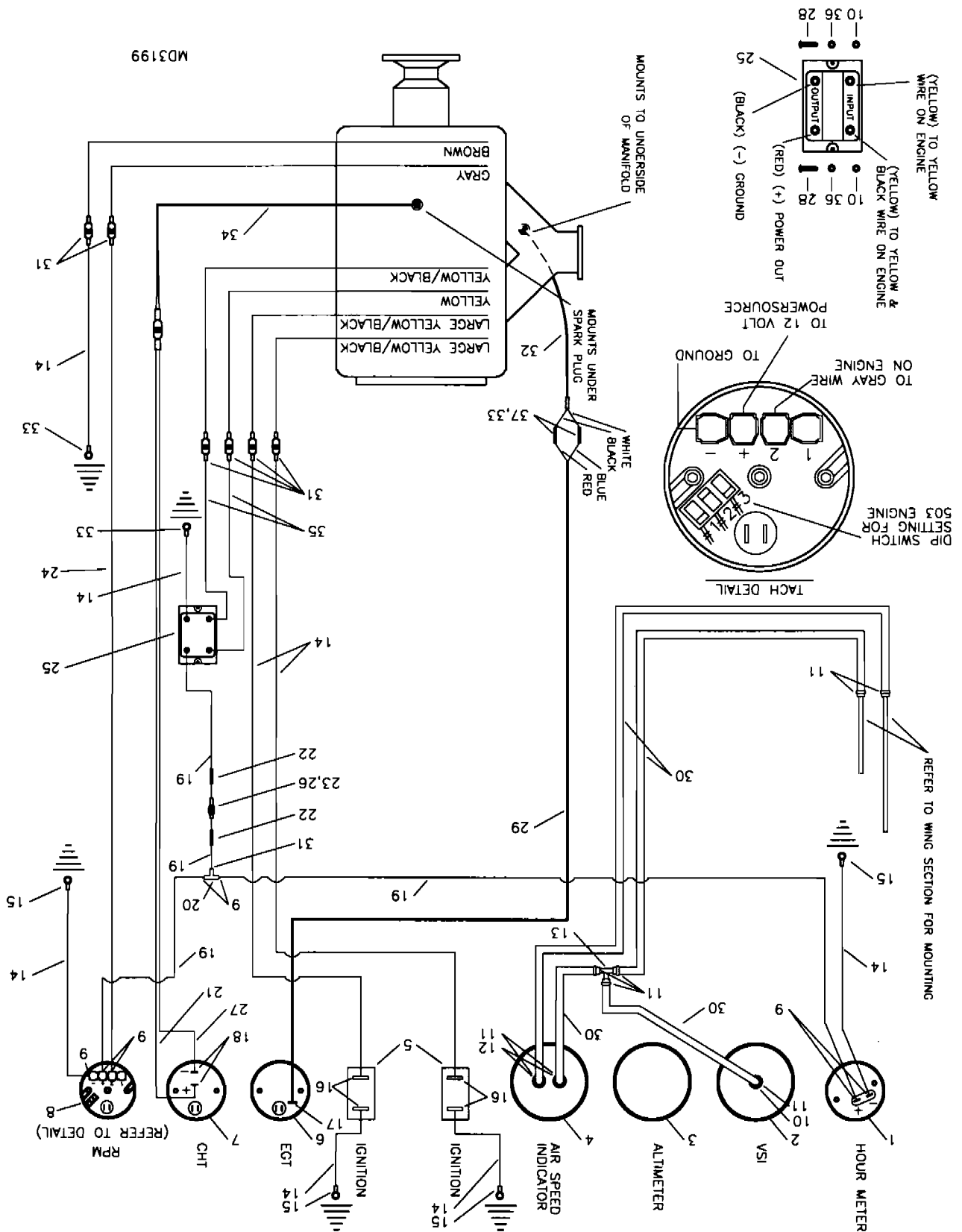
S-9 CHAOS FIREWALL & INSTRUMENT PANEL

# DESCRIPTION	PART NUMBER	QUANTITY
1. FWD Section Top Wrap	FW-TW(9)	1
2. 3/16" Aluminum Pop Rivet - Cherry Q	AAPQ-62	2
3. 1/8" Aluminum Pop Rivet - Cherry Q	AAPQ-42	68
4. 3/16" Aluminum Pop Rivet-Cherry Q (-2 Elct Strt) *	AAPQ-64	2
5. Firewall Pulley (-1 Elect Start) *	106	1
6. Instrument Panel	IP-IP	1
7. Firewall	FW-FW(9)	1
8. Foam Strip, 1/4" X 3/8"	FW-FS	36 in
9. Pitot**	IP-ASI-P	1
10. 1/4" Plastic Washer	PW-4	2
11. Zip Ties	ZIP TIES	2
12. Connector**	IP-ASIC	1
13. Firewall Soundproofing, 27" X 27"	FW-SP	1
14. ASI Line	FS-FL	12 ft
15. Rubber Grommet	MS35489-17	3
16. 90 Withdrawal Fitting	8342	1
17. Reinforcing Plate (-1 Elect Start) *	S1-FPP	1

*Delete with electric starter option.

**Fabricate, see manual.

503 INSTRUMENTS AND ELECTRICAL WITHOUT ELECTRIC START



S-9 CHAOS - 503 INSTRUMENTS & ELECTRICAL - WITHOUT ELECTRIC START

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

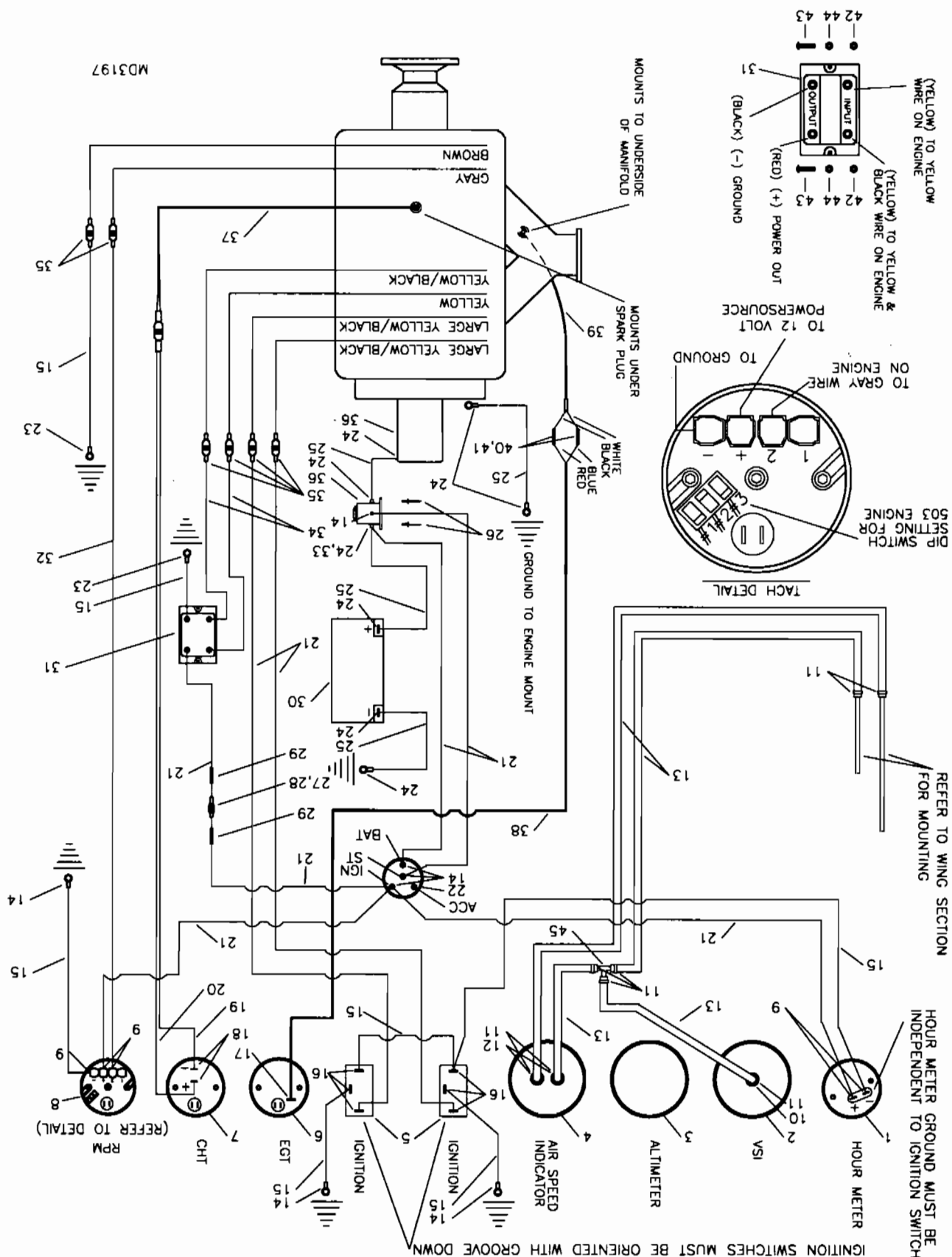
#	DESCRIPTION	PART NUMBER	QUANTITY
1.	Hour Meter	KSPW0022	1
2.	Vertical Speed Indicator (Feet per Minute) *	KSAV0008	1
2.	Vertical Speed Indicator (Meters per Second) *	KSAV0009	1
3.	Altimeter *	KSAV0001	1
3.	Altimeter with Window *	KSAV0002	1
3.	Altimeter with Millibar - Metric *	KSAV0003	1
4.	Air Speed Indicator, 0-150 *	KSAV0005	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.

503 INSTRUMENTS AND ELECTRICAL WITH OPTIONAL ELECTRIC START



MD3197

S-9 CHAOS - 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, 0-150 *	KSAV0005	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-9 CHAOS - 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.

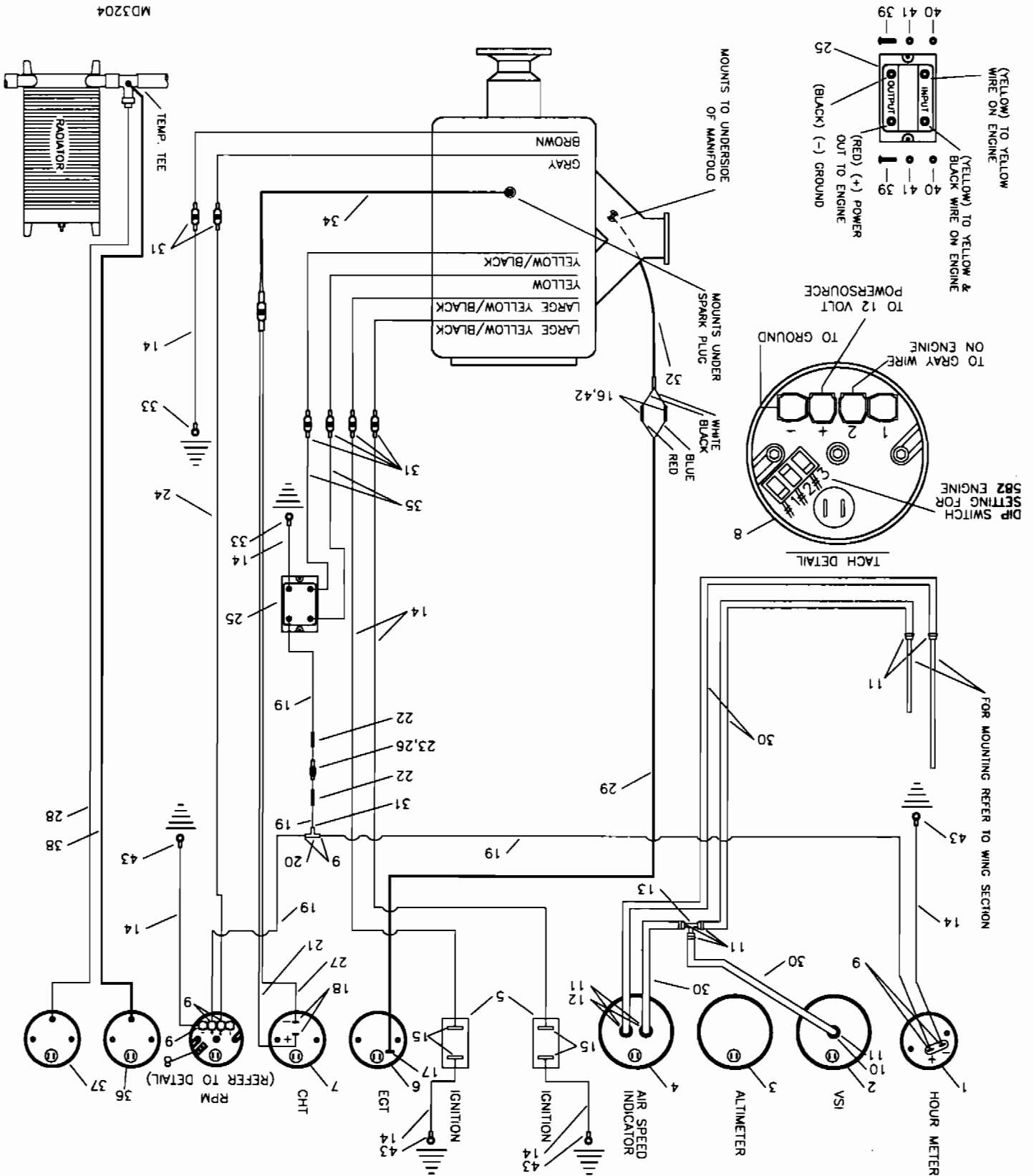
**Supplied with EGT.

***Supplied with CHT.

****Referenced from battery box installation.

582 INSTRUMENTS AND ELECTRICAL CHASSIS S-9 CHAOS WITHOUT ELECTRIC START

MD3204



S-9 CHAOS - 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, 0-150 *	KSAV0005	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.	Coolant Temperature Gauge	KSPW0014	1
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.

S-9 CHAOS - 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, 0-150 *	KSAV0005	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

*Optional gauge.

**Supplied with EGT.

***Supplied with CHT.

****Referenced from battery box installation.

*****Referenced from 582 cooling system.

*****Supplied with coolant temperature gauge.

S-9 CHAOS - 582 INSTRUMENTS & ELECTRICAL - WITH OPTIONAL ELECTRIC START-continued

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

#	DESCRIPTION	PART NUMBER	QUANTITY
39.	EGT Probe **	KSPW0008-3	0
40.	Coolant Pressure Gauge	KSPW0021	1
41.	Coolant Temperature Gauge	KSPW0014	1
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.

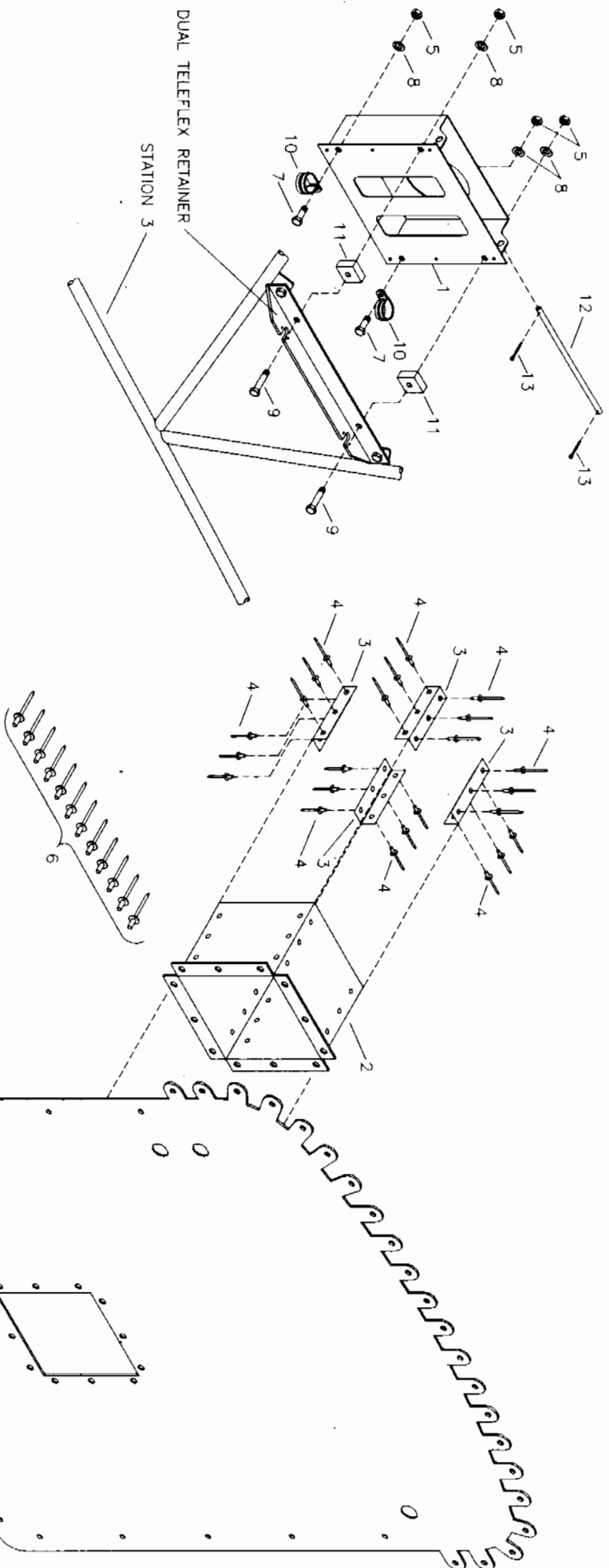
**Supplied with EGT.

***Supplied with CHT.

****Referenced from battery box installation.

*****Referenced from 582 cooling system.

*****Supplied with coolant temperature gauge.



DUAL TELEFLEX RETAINER
STATION 3

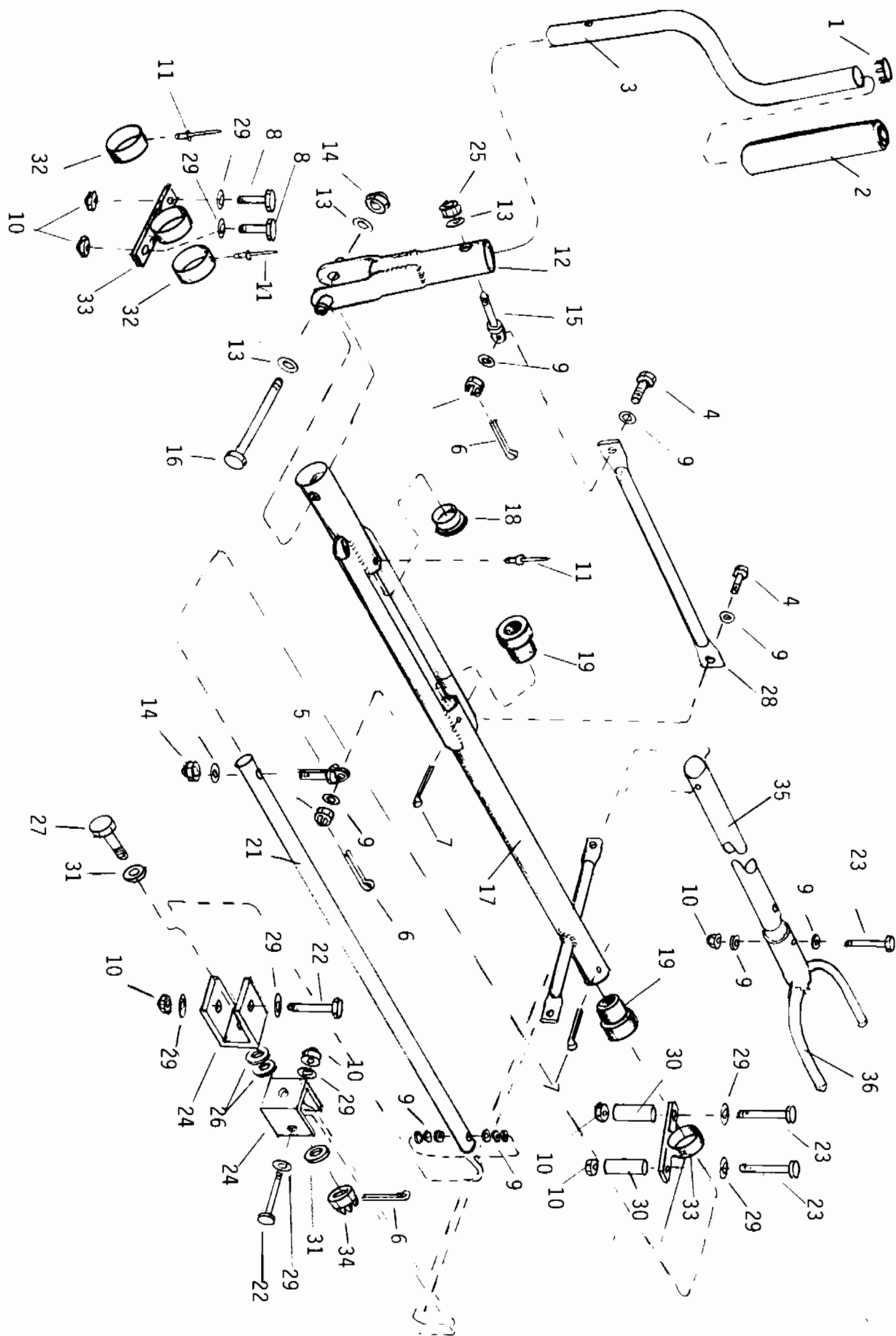
MD1292

REFORM S-9 CHAOS 503 BATTERY BOX INSTALLATION

S-9 CHAOS - 503/582 BATTERY BOX INSTALLATION
WITH OPTIONAL ELECTRIC START

#	DESCRIPTION	PART NUMBER	QUANTITY
1.	Battery Box Side Plate	BAT-BOX-1	1
1.	Battery Box Mount Plate	BAT-BOX-2	1
1.	Battery Box Support Angle	BAT-BOX-3	2
1.	1/8" Aluminum Pop Rivet - Cherry Q	AAPQ-42	12
2.	Starter Cover	S-SC	1
3.	Starter Cover Angle	S-SCA	4
4.	3/32" Aluminum Pop Rivet	40APR1/8	24
5.	3/16" Shear Nut	AN364-1032A	4
6.	3/16" Aluminum Pop Rivet - Cherry Q	AAPQ-62	12
7.	3/16" Bolt	AN3-4A	2
8.	3/16" Thin Washer	AN960-10L	4
9.	3/16" Bolt	AN3-10A	2
10.	1/2" Cushioned Tube Clamp	MS21919-DG8	2
11.	Spacer Bushing, 1" x 1" x 1/2" *	KPES0002	1
12.	Battery Bar	BAT-BAR-503/582	1
13.	Small Cotter Pin	MS24665-134	2

NOTE: Battery location depends on C.G. specifications you require.
 Battery could be mounted on the firewall or behind the seat at S-3.
 *Builder must fabricate from raw stock. Cut two pieces 1/2" long.

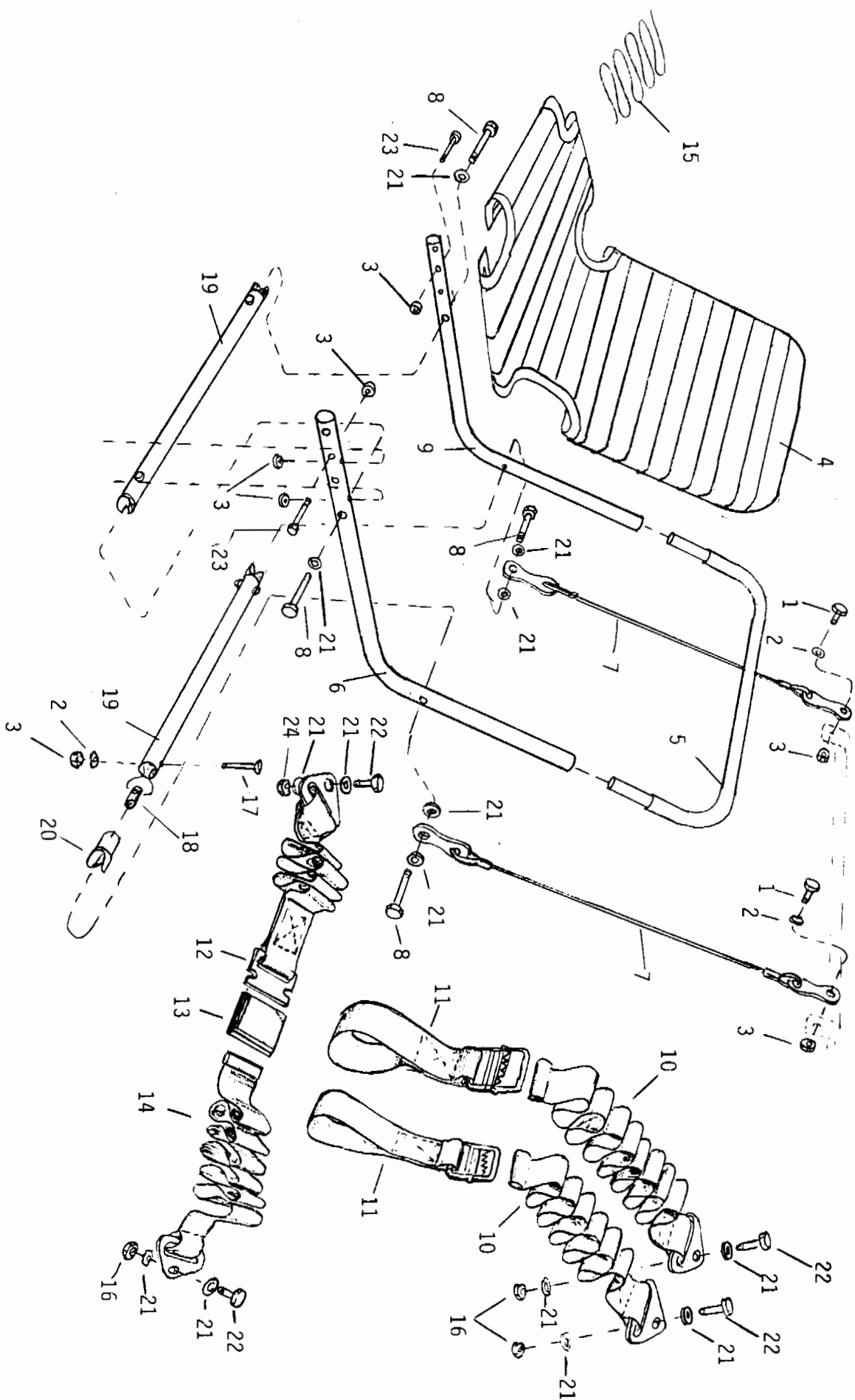


S-9 CONTROL STICK

S-9 CHAOS - 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-CS	1
4.	3/16" Bolt	AN3-5	2
5.	1/4" Eyebolt	AN43B-10A	1
6.	Small Cotter Pin	MS24665-134	3
7.	Large Cotter Pin	MS24665-285	2
8.	3/16" Bolt	AN3-4A	4
9.	3/16" Thick Washer	AN960-10	10
10.	3/16" Shear Nut	AN364-1032A	7
11.	1/8" Aluminum Pop Rivet - Cherry Q	AAPQ-42	3
12.	Control Connect Tube	CS-CCT	1
13.	1/4" Thin Washer	AN960-416L	3
14.	1/4" Shear Nut	AN364-428A	1
15.	1/4" Eyebolt	AN43B-13A	1
16.	5/16" Bolt	AN5-23A	1
17.	Torque Tube	CS-TT	1
18.	1" End Cap	1 CAP	1
19.	Glide	CS-GL	2
20.	3/16" Castle Nut	AN310-3	2
21.	5/8" Push Pull Tube	CS-5/8PPT	1
22.	3/16" Bolt	AN3-15A	2
23.	3/16" Bolt	AN3-14A	1
24.	Horizontal Stabilizer Attach Bracket	S2-SAB	2
25.	1/4" Tensile Nut	AN365-428A	1
26.	1/4" Plastic Washer	PW-4	2
27.	1/4" Bolt	AN4-7	1
28.	1/2" Linkage Tube	CS-LT	1
29.	3/16" Thin Washer	AN960-10L	8
30.	Spacer Bushing, 3/8" x 1" **	SB-3/8X1	2
31.	1/4" Thick Washer	AN960-416	3
32.	Stop Ring	CS-SR	2
33.	Pillow Block	CS-PB	2
34.	1/4" Castle Nut	AN310-4	1
35.	1 1/4" Push Pull Tube	CS-1 1/4-PPTS9	1
36.	Elevator Yoke	TG-EY	1
37.	5/16" Thick Washer	AN960-516	2
38.	5/16" Shear Nut	AN364-524A	1

**Fabricate, see bushing sheet in manual.

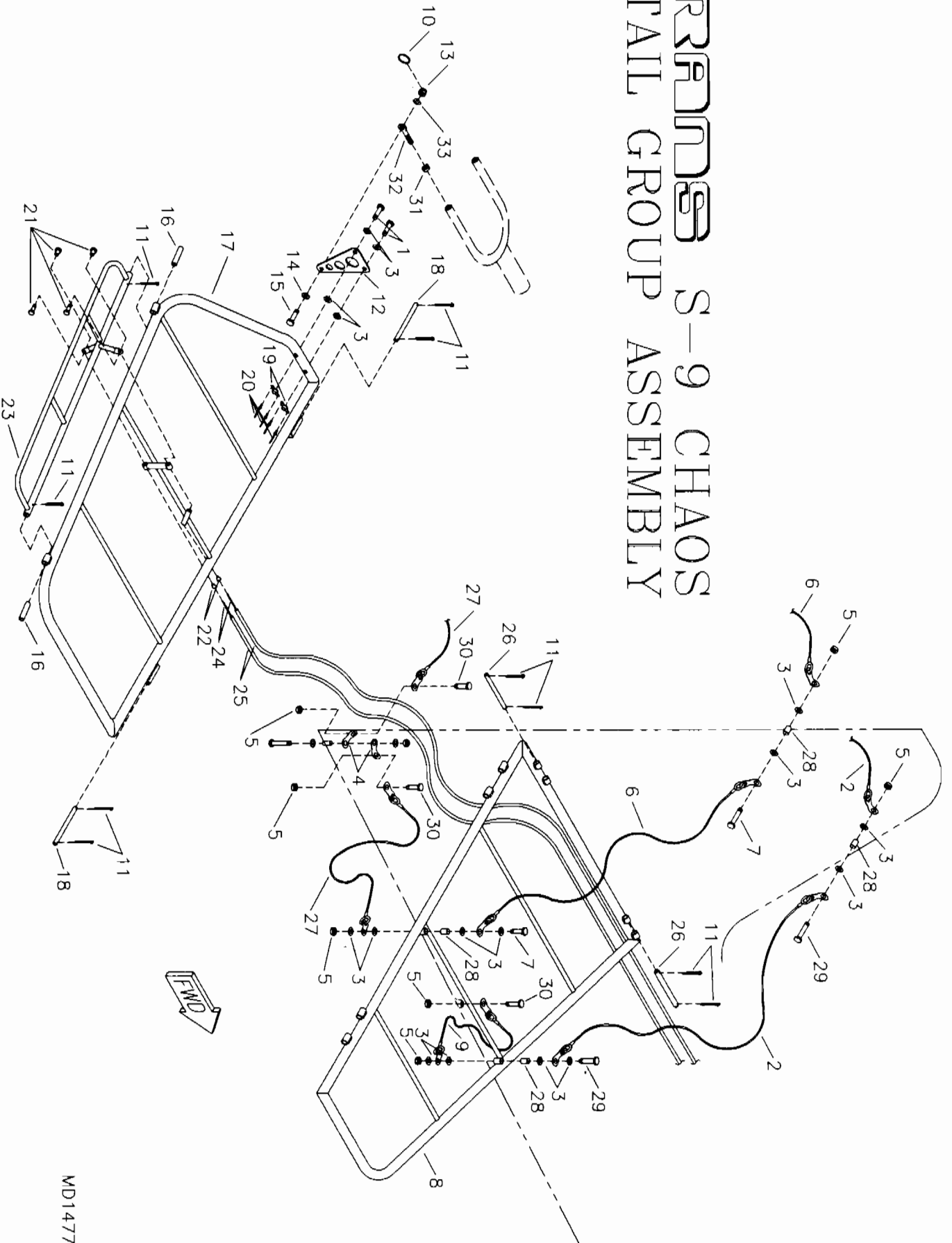


S-9 CHAOS SEAT

#	DESCRIPTION	PART NUMBER	QUANTITY
1.	3/16" Bolt	AN3-5A	2
2.	3/16" Thick Washer	AN960-10	6
3.	3/16" Shear Nut	AN364-1032A	6
4.	Seat Sling	ST-SLING(9)	1
5.	Seat Top	ST-TOP	1
6.	Seat Side Tube, LH	ST-SS-LH	1
7.	Seat Hang Cable	ST-HANG-CAB	2
8.	1/4" Bolt	AN4-16A	4
9.	Seat Side, RH	ST-SS-RH	1
10.	Shoulder Belt *	-----	2
11.	Shoulder Belt Adjustor *	-----	2
12.	Lap Belt, Clip Side *	-----	1
13.	Belt Buckle *	-----	1
14.	Lap Belt, Adjust Side *	-----	1
15.	Rope Kit	ST-ROPE-14	14 ft
16.	1/4" Shear Nut	AN364-428A	4
17.	3/16" Bolt	AN3-13A	4
18.	3/16" Insert Nut	I-NUT	4
19.	Seat Spreader Tube	ST-SPT	2
20.	1" Compression Tube Fitting	TC-1	4
21.	1/4" Thick Washer	AN960-416	12
22.	1/4" Bolt	AN4-5A	4
23.	3/16" Bolt	AN3-14A	2
24.	3/16" Shear Acorn Nut	22NKM02	1
25.	S-9 Seat Belt Kit	KAST0029	1

* Included in Seat Belt Kit

RRR S-9 CHAOS TAIL GROUP ASSEMBLY



MD1477

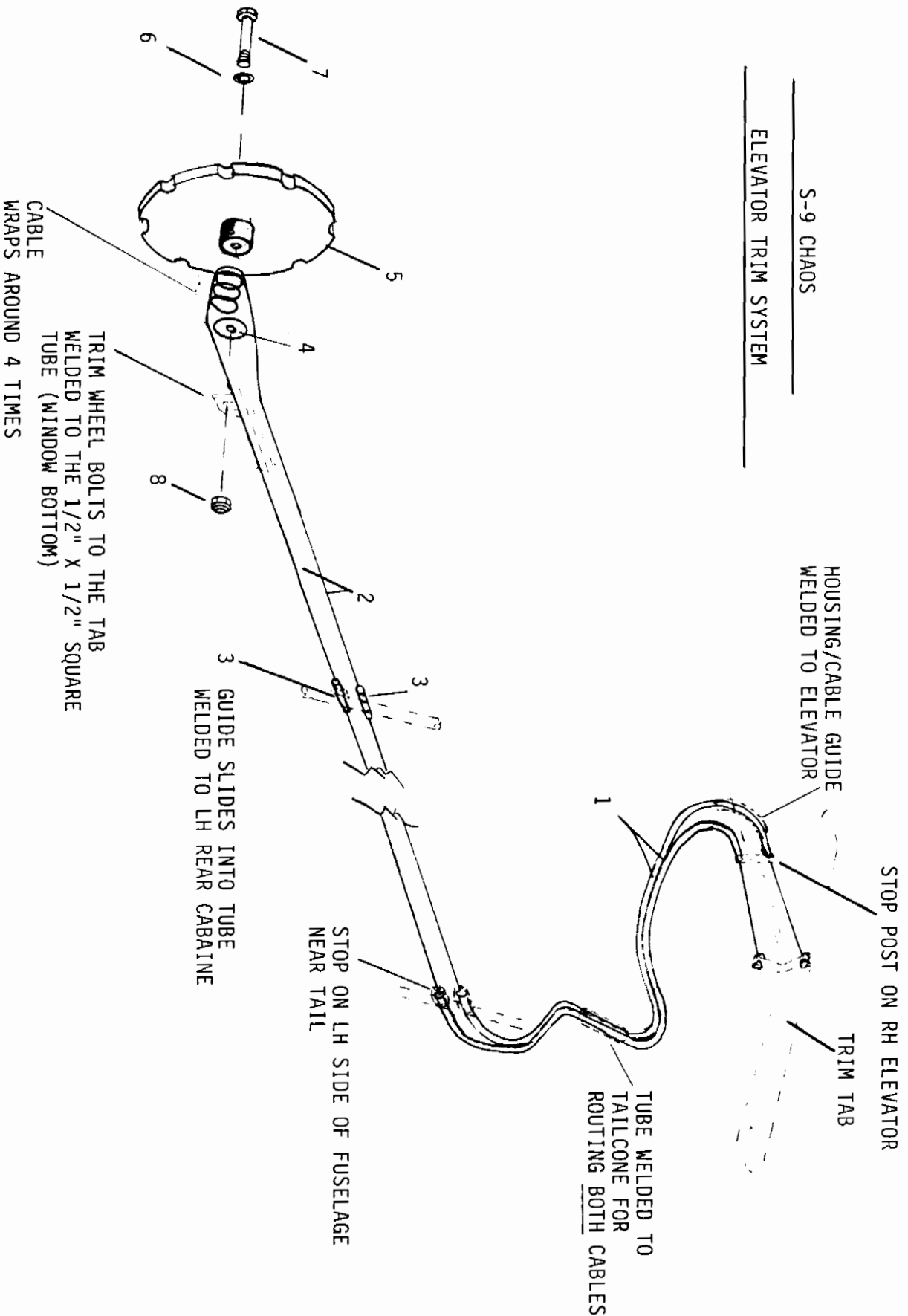
S-9 CHAOS - TAIL

#	DESCRIPTION	PART NUMBER	QUANTITY
1.	3/16" Bolt	AN3-10A	4
2.	Top Forward Cable	TG-TFC(9)	2
3.	3/16" Thin Washer	AN960-10L	28
4.	Hummertang	T12-HT6	2
5.	3/16" Tensile Nut	AN365-1032A	10
6.	Top AFT Cable	TG-TAC(9)	2
7.	3/16" Bolt	AN3-13A	3
8.	Horizontal Stabilizer, RH	TG-H-STAB-RH	1
8.	Horizontal Stabilizer, LH	TG-H-STAB-LH	1
9.	Lower Forward Cable	TG-LFC-IA	2
10.	Loc Ring	RL 27 1/4	2
11.	Small Cotter Pin	MS24665-134	18
12.	Elevator Horn	TG-EH	2
13.	1/4" Castle Nut	AN310-4	2
14.	1/4" Thin Washer	AN960-416L	2
15.	1/4" Bolt	AN4-7	2
16.	1 1/2" X 1/4" Pin (Steel Tube) **	TG-1 1/2X1/4 PIN	2
17.	Elevator, RH	TG-EL-RH	1
17.	Elevator, LH	TG-EL-LH	1
18.	2 3/8" X 1/4" Steel Rod Pin **	TG-2 3/8X1/4 PIN	4
19.	3/16" Nut Plate	K-1000-3	4
20.	3/32" Aluminum Pop Rivet	40APR1/8	8
21.	Wire Swivel/Screw Stop	2361	2
22.	Cable Ferrule Cap	ENDCAP-12000	2
23.	Trim Tab	TG-TRIM-TAB	1
24.	Trim Cable ***	TRIM-CAB(9)	0
25.	Trim Cable Housing ***	KSAC0008	0
26.	3" X 1/4" Steel Rod Pin **	TG-3X1/4 PIN	4
27.	Lower AFT Cable	TG-LAC-IA	2
28.	Spacer Bushing, 1/4" X 1/2" **	SB-1/4X1/2	6
29.	3/16" Bolt	AN3-11A	3
30.	3/16" Bolt	AN3-4A	4
31.	1/4" Plain Nut	AN345-416	2
32.	Male Rod End, 1/4" X 1/4"	NM-4	2
33.	1/4" Plastic Washer	PW-4	2

**Fabricate, see bushing sheet.

***For cable lengths, please see trim system.

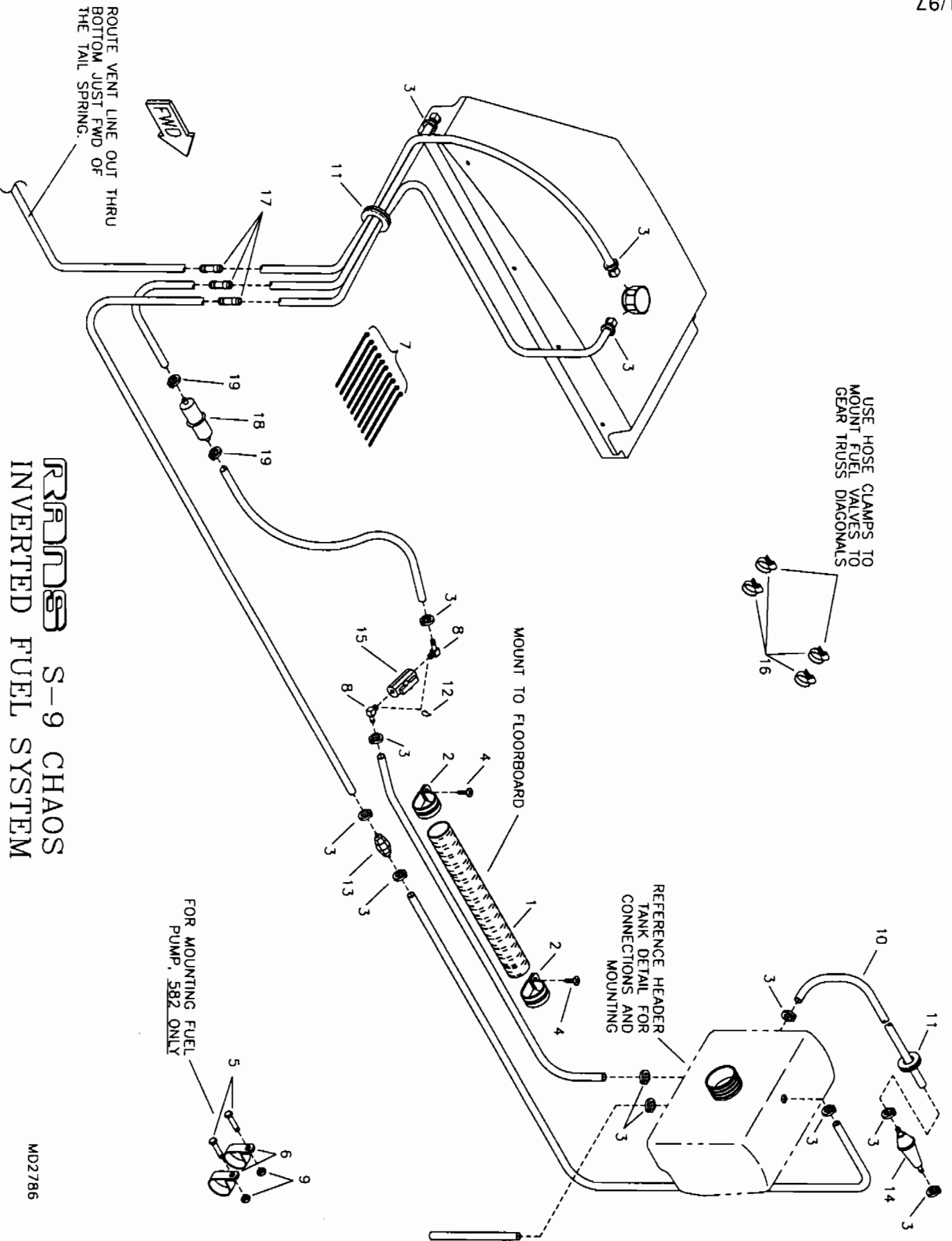
S-9 CHAOS
ELEVATOR TRIM SYSTEM



S-9 CHAOS - ELEVATOR TRIM SYSTEM

#	DESCRIPTION	PART NUMBER	QUANTITY
1.	Trim Cable Housing	KSAC0008	120 in
2.	Trim Cable Wheel Type	TG-CAB-WT-300	300 in
3.	Cable Guide*	TG-GUIDE	2 in
4.	1/4" Large Wood Washer	AN970-4	1
5.	Trim Wheel	PT-WHEEL	1
6.	1/4" Thin Washer	AN960-416L	1
7.	1/4" Bolt	AN4-14A	1

*Cut 4" piece in half.



S-9 CHAOS INVERTED FUEL SYSTEM

MD2786

#	DESCRIPTION	PART NUMBER	QUANTITY
1.	Fuel Line Casing	IP-WCASE	16 in
2.	1 1/4" Cushioned Tube Clamp	MS21919-DG20	2
3.	Fuel Line Clamp, 5/16" I.D.	FS-LCL 5/16	13
4.	#8 Pan Head Screw	8X1/2 PHS	2
5.	3/16" Bolt	AN3-6A	2
6.	5/8" Cushioned Tube Clamp	MS21919-DG10	2
7.	Zip Ties	ZIP TIES	10
8.	90 Withdrawal Fitting	8342	2
9.	3/16" Shear Nut	AN364-1032A	2
10.	1/4" ASI Fuel Line, Blue	FS-FL	30 ft
11.	Rubber Grommet	MS35489-17	2
12.	Thread Sealant *	KSAC0014	0
13.	Primer Bulb	FS-PB	1
14.	Fuel Filter **	FS-FIL	0
15.	Fuel Shut Off Valve	FS-S-OFF	1
16.	Hose Clamp, 1 1/4"	5-5212	4
17.	Straight 1/4" Barb Fitting	KSHW0048	3
18.	Electric Fuel Pump **	----	0
19.	Line Clamp ***	----	0

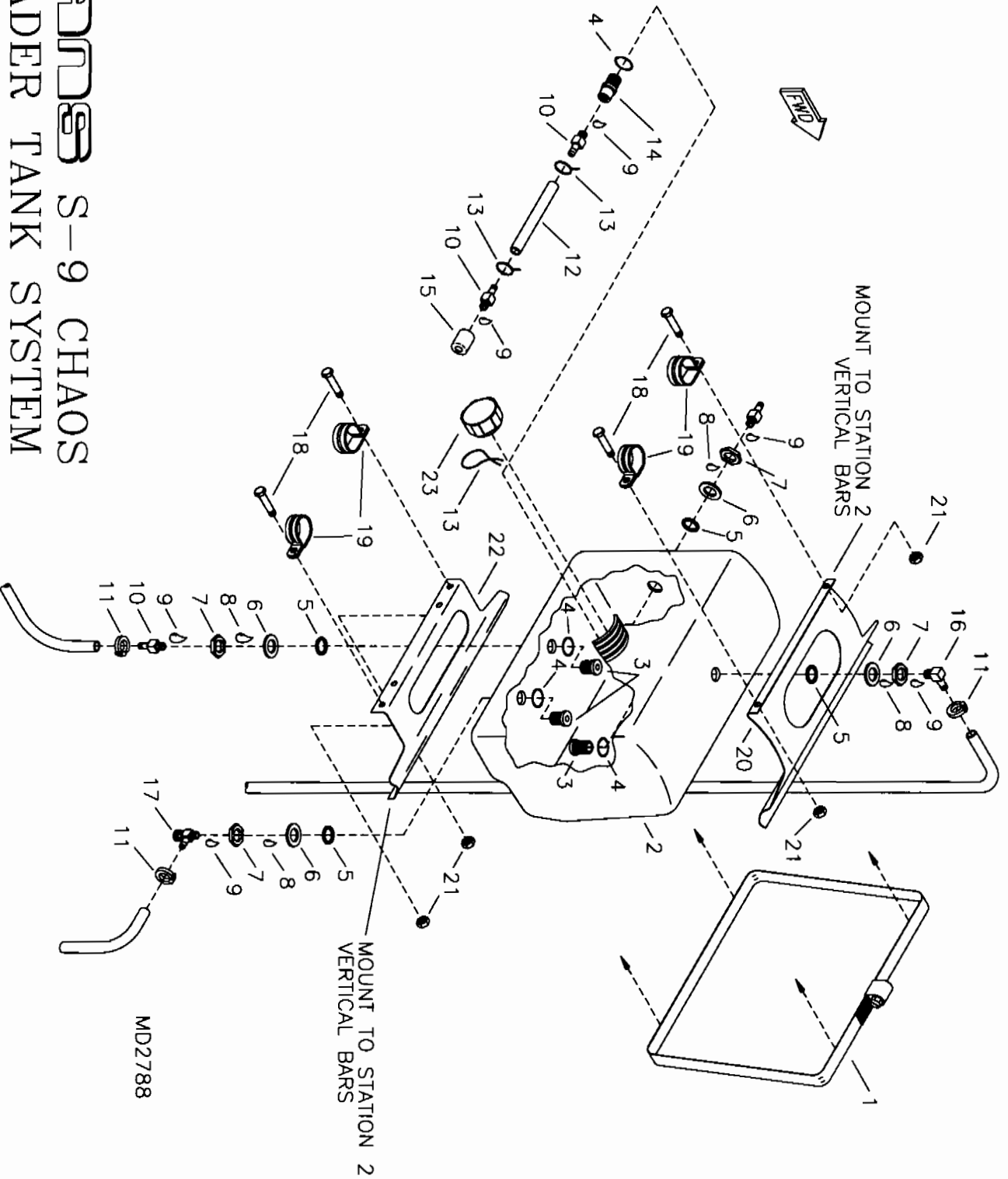
*Thread Sealant (builder provides) is recommended but Loctite Blue can be used.

**Builder provides.

***Builder provides (clamp size depends on size of fuel pump).

1/1/2013

RRR S-9 CHAOS HEADER TANK SYSTEM



MD2788

S-9 CHAOS - HEADER TANK SYSTEM

#	DESCRIPTION	PART NUMBER	QUANTITY
1.	10" Hose Clamp	KSHW0047	1
2.	Header Tank	KPPW0021	1
3.	Tank Withdrawal Fitting	KPFS0017	3
4.	O-Ring	KSFS0009	4
5.	Rubber Washer	KSFS0010	4
6.	1/2" Thick Washer	AN960-816	4
7.	Nut-Flared Tube Bulkhead	AN924-5D	4
8.	Loctite Blue	LOC-TITE	0
9.	Thread Sealant **	KSAC0014	0
10.	Straight Withdrawal Fitting	8330	3
11.	Line Clamp, 3/8"	FS-LCL 3/8	3
12.	1/4" Fuel Line	FS-FL	1 ft
13.	Safety Wire *	SAFETY WIRE	0
14.	Header Tank Withdrawal Fitting	KPFS0018	1
15.	Klunker	FS-FLOP	1
16.	90 Withdrawal Fitting	8342	1
17.	Sump Drain Valve	8336	1
18.	3/16" Bolt	AN3-4A	4
19.	1/2" Cushioned Tube Clamp	MS21919-DG8	4
20.	Upper Header Tank Mount	KPFU0190	1
21.	3/16" Shear Nut	AN364-1032A	4
22.	Lower Header Tank Mount	KPFU0191	1
23.	Fuel Cap	KSFS0007	1

*Double wrapped for security purposes.

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

S-9 CHAOS - 503 ENGINE

#	DESCRIPTION	PART NUMBER	QUANTITY
1.	Throttle Cable Housing - 72" *****	EG-T-CAB-H	0
2.	Throttle Cable, 105" *****	EG-T-CAB	0
3.	1/8" Primer Line ***	PRIMER LINE	1 ft
4.	Single Primer Pump Kit ***	SINGLE PRIMER	1
4.	Dual Primer Pump Kit ***	DUAL PRIMER	1
5.	Main Line Tee ***	EG-ML-T	1
6.	Primer Nipple ***	EG-PRIME-NIP	1
7.	Air Filter, K & N, 503SC	EG-AF	1
7.	Air Filter, K & N, 503DC	EG-AF	2
8.	Air Filter Clamp, 503SC ****	----	0
8.	Air Filter Clamp, 503DC ****	----	0
9.	Bing Carburetor *	----	0
10.	Carb Clamp *	----	0
11.	Carb Boot *	----	0
12.	Engine Stud Nut *	----	0
13.	Engine Loc Washer *	----	0
14.	Propeller	EG-PROP	1
15.	Prop Plate *	----	0
16.	3/16" Bolt	AN3-10A	2
17.	1/4" Bolt	AN4-27A	6
18.	Rotax 503 Engine	EG-EG-503	1
19.	Exhaust Gasket *	----	0
20.	Exhaust Manifold, 503	KSEX0008	1
21.	10MM Loc Washer *	----	0
22.	10MM Shoulder Screw *	----	0
23.	Muffler Spring, 503	EG-MUFF-SPRINGS	6
24.	Muffler, 503	EG-MUFF	1
25.	3/16" Tensile Nut	AN365-1032A	2
26.	1/2" Tube **	EG-1/2T	2
27.	3/16" Thick Washer	AN960-10	2
28.	3/16" Large Wood Washer	AN970-3	4
29.	3/16" Bolt	AN3-16A	2
30.	Rubber Strap, 2" x 7" x 3/8"	EG-RS-582	2
31.	3/16" Shear Acorn Nut	22NKM02	2
32.	Gear Box Breather Line	1/8 FUEL LINE	36 in
33.	Muffler Elbow	EG-MUFF-ELBOW-503/582	1

*Supplied with engine.

**Fabricate, see bushing sheet in manual.

***Supplied with Primer Kit.

****Supplied with Air Filter.

*****Referenced.

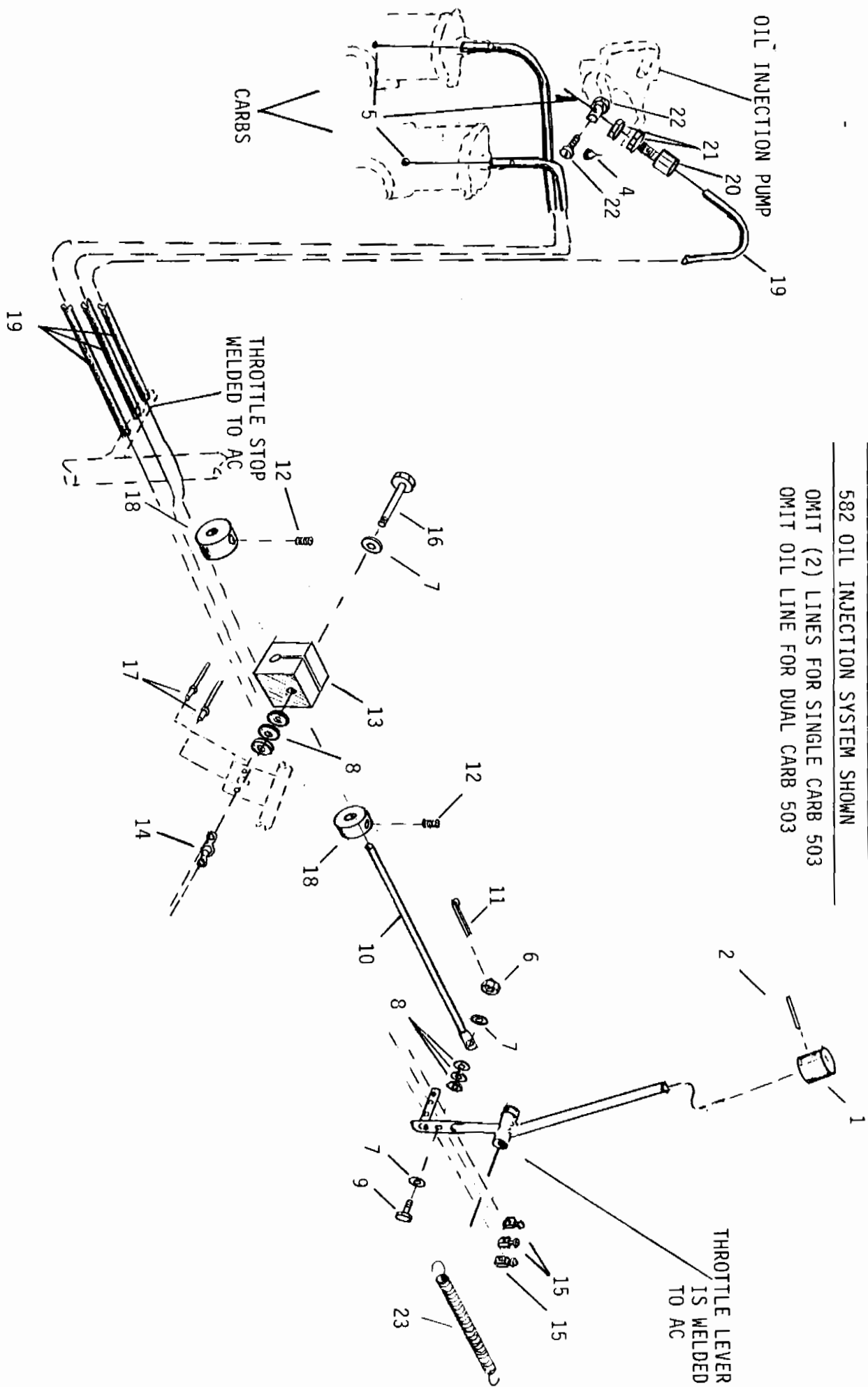
S-9 CHAOS - OPTIONAL AEROBATIC PACKAGE FOR THE 503 ENGINE
(ITEMS NOT PICTURED)

#	DESCRIPTION	PART NUMBER	QUANTITY
1.	Intake Manifold	867570	1
2.	Pumper Carb	EG-PUMP-C503	1

582 OIL INJECTION SYSTEM SHOWN

OMIT (2) LINES FOR SINGLE CARB 503

OMIT OIL LINE FOR DUAL CARB 503



S-9 CHAOS - 503/582 THROTTLE

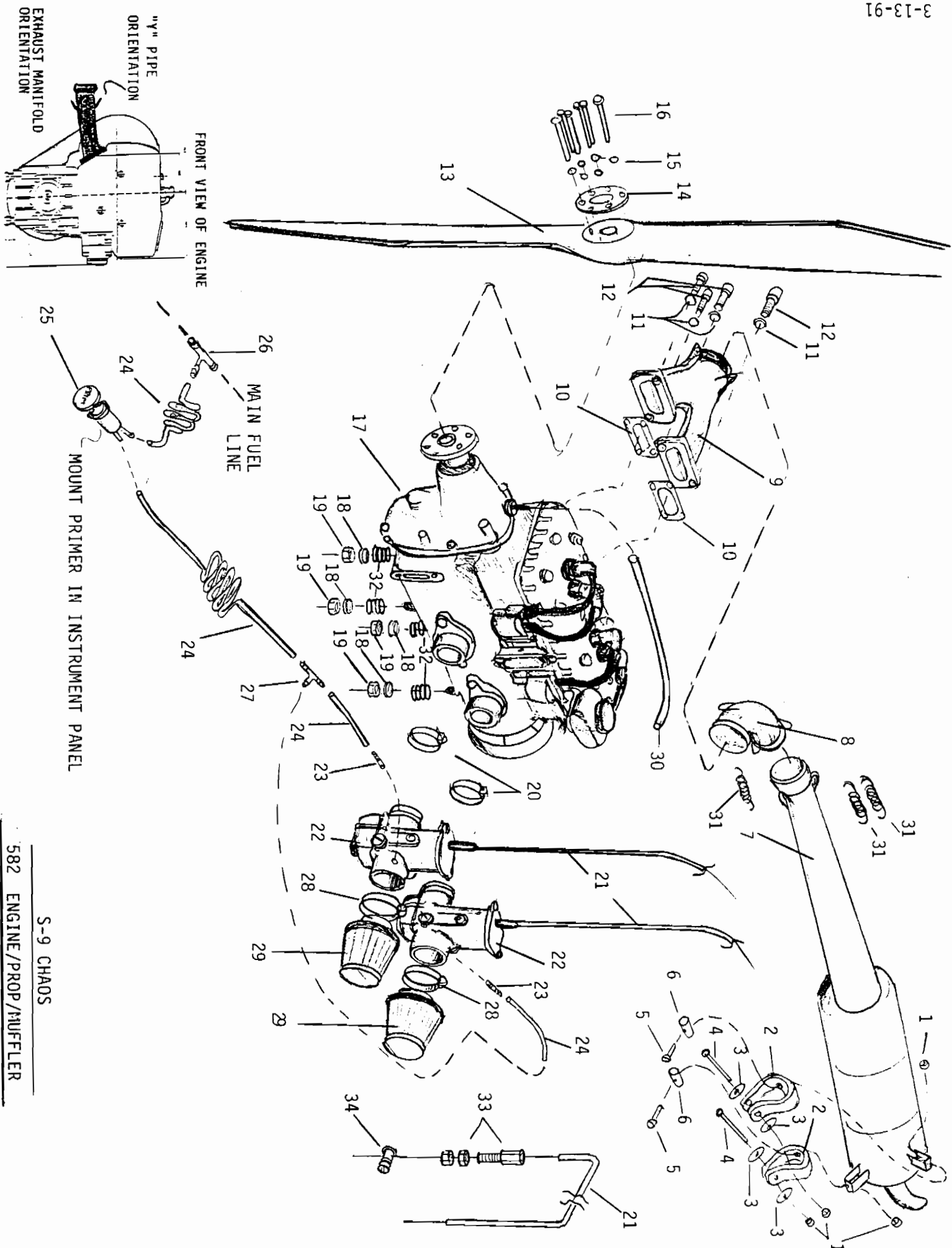
#	DESCRIPTION	PART NUMBER	QUANTITY
1.	Throttle Knob	T-KNOB	1
2.	1/8" Roll Pin, 1"	20032446	1
3.	Throttle Lever *	-----	1
4.	Loctite Blue	LOC-TITE	1
5.	Throttle Cable, 105" - 503SC	EG-T-CAB	1
5.	Throttle Cable, 105" - 503DC	EG-T-CAB	2
5.	Throttle Cable, 105" - 582	EG-T-CAB	3
6.	3/16" Castle Nut	AN310-3	1
7.	3/16" Thin Washer	AN960-10L	3
8.	3/16" Thick Washer	AN960-10	6
9.	3/16" Bolt	AN3-6	1
10.	Friction Rod	T-FR	1
11.	Small Cotter Pin	MS24665-134	1
12.	Set Screw	T-SC	2
13.	Friction Block	T-FB	1
14.	3/16" Nut Plate	K-1000-3	1
15.	Wire Stop/Screw, 503SC	2360	1
15.	Wire Stop/Screw, 503DC	2360	2
15.	Wire Stop/ Screw, 582	2360	3
16.	3/16" Bolt	AN3-14A	1
17.	3/32" Aluminum Pop Rivet	40APR1/8	2
18.	Throttle Stop	T-STOP	2
19.	Throttle Cable Housing, 72" - 503SC	EG-T-CAB-H	1
19.	Throttle Cable Housing, 72" - 503DC	EG-T-CAB-H	2
19.	Throttle Cable Housing, 72" - 582	EG-T-CAB-H	3
20.	Adjustable Cable Ferrule, 503SC	2373	0
20.	Adjustable Cable Ferrule, 503DC	2373	0
20.	Adjustable Cable Ferrule, 582	2373	1
21.	1/4" Plain Nut	AN345-416	2
22.	Wire Swivel/Screw Stop, 503SC	2361	0
22.	Wire Swivel/Screw Stop, 503DC	2361	0
22.	Wire Swivel/Screw Stop, 582	2361	1
23.	Spring	C-5125	1

*On Aircraft.

S-9 CHAOS - ENGINE COOLING SYSTEM:**BELLY MOUNT RADIATOR - 24" FIREWALL - 582 ENGINE**

#	DESCRIPTION	PART NUMBER	QUANTITY
1.	Filler Tank Cap*	EGCS-CAP	1
2.	Foam Tape, 3/8" X 1/2"	FOAM TAPE	6 ft
3.	Filler Cap Tee	EGCS-FCT	1
4.	3/16" Bolt	AN3-4A	11
5.	5/16" Overflow Hose	EGCS-OFH	1
6.	Coolant Recovery Bottle	EGCS-CRB	1
7.	3/16" Thick Washer	AN960-10	28
8.	3/16" Shear Nut	AN364-1032A	17
9.	3/16" Aluminum Pop Rivet - Cherry Q	AAPQ-62	2
10.	Hose Clamp, 1 1/2"	5-5216	8
11.	Radiator Hose	RADIATOR HOSE	16 ft
12.	Hose Clamp, 1 1/4"	5-5212	8
13.	1/2" Cushioned Tube Clamp	MS21919-DG8	4
14.	Reducer Coupler	EGCS-RC	2
15.	1 1/4" Cushioned Tube Clamp	MS21919-DG20	8
16.	Brass Nipple (Optional)	EGCS-BN	1
17.	Brass Coupler (Optional)	EGCS-BC	1
18.	Brass Probe Nipple (with/Gauge, Optional)	EGCS-PN	1
19.	Probe Coupler (with/Gauge, Optional)	EGCS-PC	1
20.	Probe/Temperature Gauge (Optional)	EGCS-PTMP	1
21.	3/16" Bolt	AN3-30A	2
22.	Spacer Bushing, 3/8" X 2"	SB-3/8X2	2
23.	Radiator Scoop	EGCS-SCOOP	1
24.	1 1/4" Radiator Hose	EGCS-RHOSE	2
25.	Radiator	EGCS-RAD	1
26.	3/16" Bolt	AN3-6A	4
27.	Mount Block	EGCS-FNMPVC	1
28.	Filler Cap Retainer Strap	EGCS-FNSTRAP	1
29.	Temperature Probe Tee (Optional)	EGCS-TEMP-T	1
30.	Hose Spring	EGCS-HS	4
31.	3/32" Aluminum Pop Rivet	40APR1/8	12
32.	3/16" Nut Plate	K-1000-3	6
33.	3/16" Large Wood Washer	AN970-3	2
34.	Coolant Recovery Clamp	S-4/5-FS-HS	2
35.	3/16" Bolt	AN3-14A	2

*Supplied with #3 filler tank.



S-9 CHAOS - 582 ENGINE OPTION

#	DESCRIPTION	PART NUMBER	QUANTITY
1.	3/16" Tensile Nut	AN365-1032A	4
2.	Rubber Strap, 2" x 7" x 3/8"	EG-RS-582	2
3.	3/16" Large Washer	AN970-3	4
4.	3/16" Bolt	AN3-16A	2
5.	3/16" Bolt	AN3-10A	2
6.	1/2" Tube **	EG-1/2T	2
7.	Muffler (582)	EG-MUFF	1
8.	Muffler Elbow	EG-MUFF-ELBOW-503/582	1
9.	Exhaust Manifold, 582	KSEX0007	1
10.	Exhaust Gasket *	----	0
11.	10MM Loc Washer *	----	0
12.	10MM Shoulder Screw *	----	0
13.	Propeller	EG-PROP	1
14.	Prop Plate *	----	0
15.	1/4" Loc Washer	AN935-416L	6
16.	1/4" Bolt	AN4-35A	6
17.	Rotax 582 Engine (On Request)	EG-EG-582	1
18.	Engine Loc Washer *	----	0
19.	Engine Stud Nut *	----	0
20.	Carb Clamp *	----	0
21.	Throttle Cable ****	EG-T-CAB	0
21.	Throttle Cable Housing ****	EG-T-CAB-H	0
22.	Bing Carburetor *	----	0
23.	Primer Nipple *	----	0
24.	1/8" Primer Line ***	PRIMER LINE	6 ft
25.	Primer Pump Kit ***	DUAL PRIMER	1
26.	Main Line Tee ***	EG-ML-T	1
27.	Prime Line Tee ***	EG-PL-T	1
28.	Air Filter Clamp *****	----	0
29.	Air Filter, K & N	EG-AF	2
30.	Gear Box Breather Line	1/8 FUEL LINE	36 in
31.	Muffler Spring, 582	KSEX0002	6
32.	7/16" Washer	AN960-716	16
33.	Adjustable Cable Ferrule	2373	1
34.	Wire Swivel/Screw Stop	2361	1

*Supplied with engine.

**Fabricate, see manual.

***Supplied with Primer Kit.

*****Referenced.

*****Supplied with Air Filter.

S-9 CHAOS - OPTIONAL AEROBATIC PACKAGE FOR THE 582 ENGINE

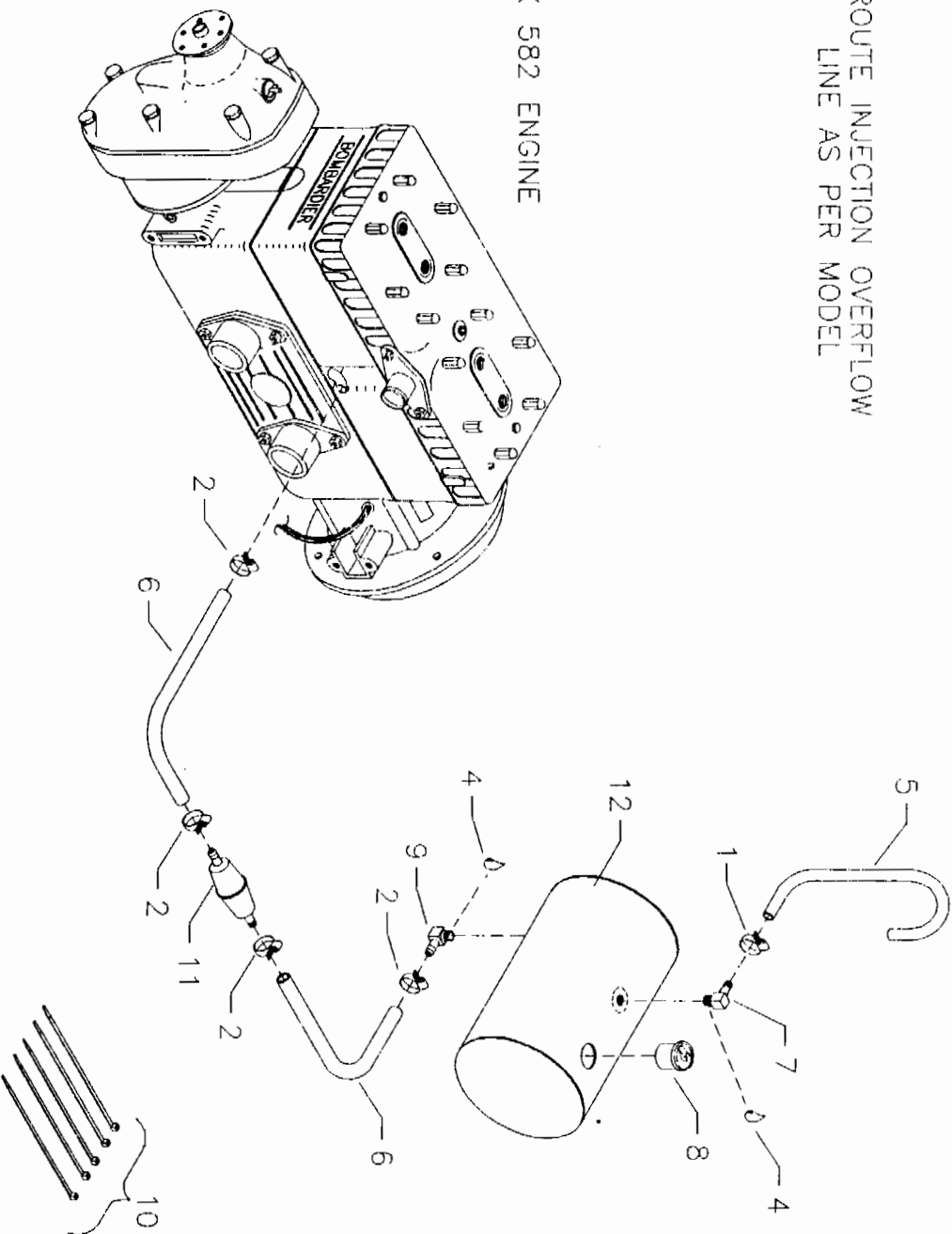
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(ITEMS NOT PICTURED)

#	DESCRIPTION	PART NUMBER	QUANTITY
1.	RV-Cover Intake Manifold	912-495	1
2.	Pumper Carb	EG-PUMP-C532	1
3.	Seat Belts & Lap Pads for Aerobatic	-----	1
4.	Tank Withdrawal Fitting	KPFS0017	1
5.	O-Ring	KSFS0009	1
6.	Rubber Washer	KSFS0010	1
7.	Nut-Flared Tube Bulkhead	AN924-5D	1
8.	1/2" Thick Washer	AN960-816	1
9.	Straight Withdrawal Fitting	8330	1
10.	90 Withdrawal Fitting	8342	1

ROUTE INJECTION OVERFLOW
LINE AS PER MODEL

ROTAX 582 ENGINE



MD845

RRMDS S-7, S-9, S-10, S-12, & S-14
OIL INJECTION TANK ASSEMBLY

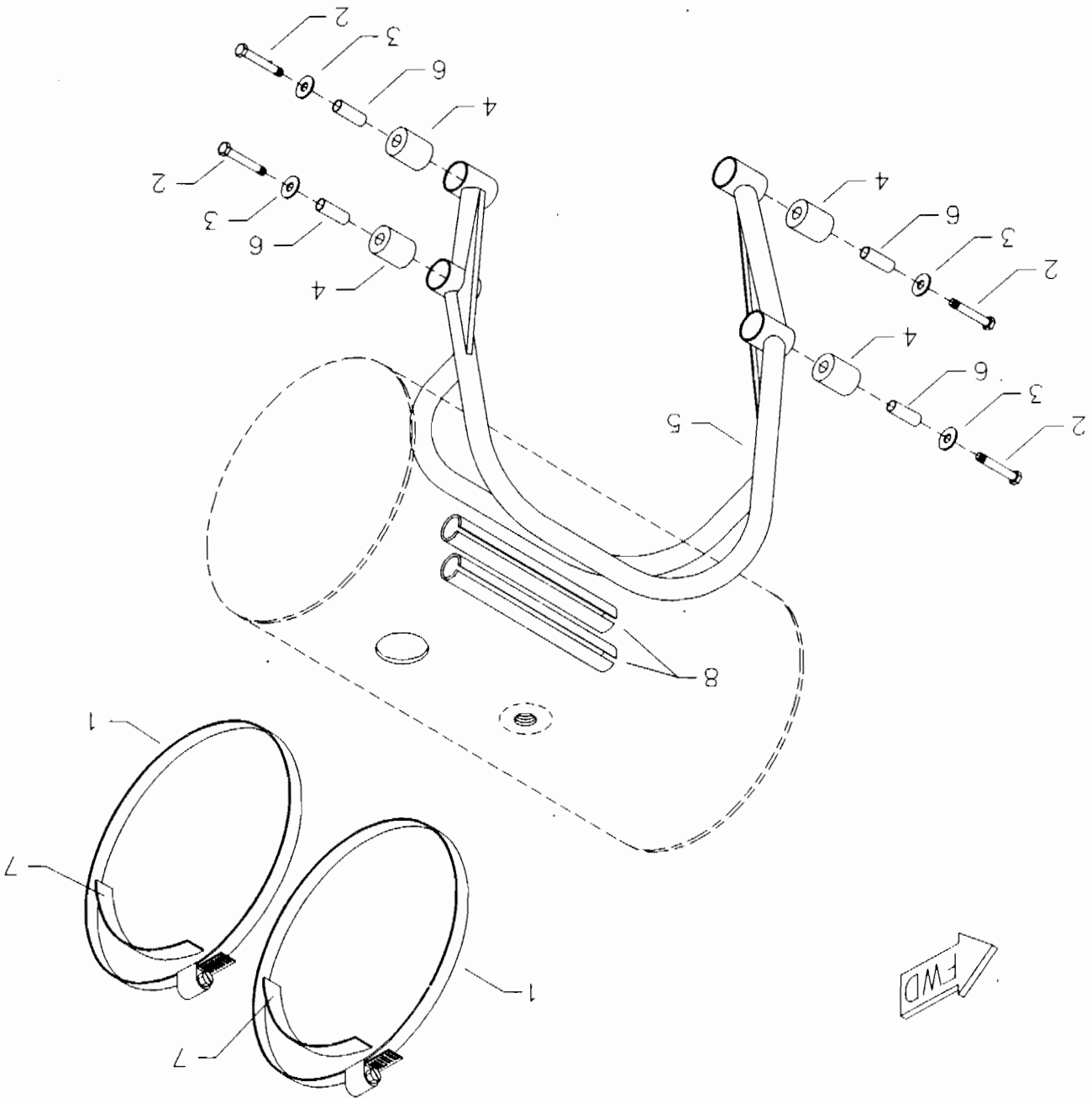
#	DESCRIPTION	PART NUMBER	QUANTITY
1.	Line Clamp, 5/16" I.D. *	FS-LCL 5/16	1
2.	Line Clamp, 3/8" *	FS-LCL 3/8	2
3.	Line Clamp, 1/2" *	FS-LCL 1/2	2
4.	Loctite Blue	LOC-TITE	0
5.	1/4" Clear Fuel Line	KSFS0008	3 ft
6.	5/16" Fuel Line	5/16 FUEL LINE	1 ft
7.	90 Withdrawal Fitting	8342	1
8.	7/8" Expansion Cap	2598K29	1
9.	90 Fitting	3-83125	1
10.	Zip Ties	ZIP TIES	5
11.	Oil Filter	414-5365	1
12.	Oil Tank	OI-TANK-A	1

*Two sizes of fuel line clamps are used, please pay close attention to location used.
To tell what size a clamp is, close clamp completely & measure across inside diameter.
They should be 5/16" or 3/8" depending on the clamp.

1/1/2013

RRMS S-7, S-9, & S-10 OIL INJECTION TANK MOUNT

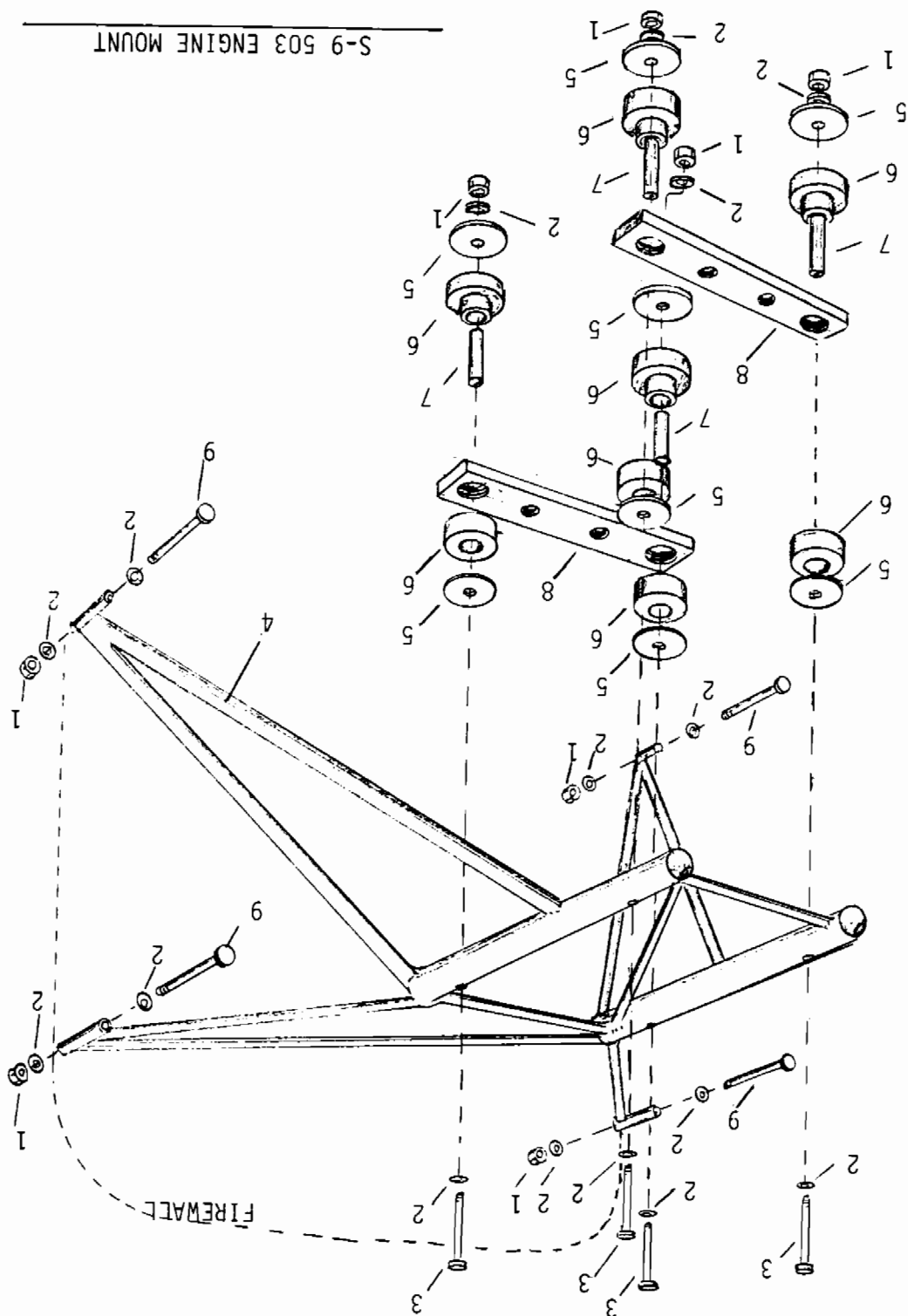
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S-9 CHAOS - OIL INJECTION TANK MOUNT

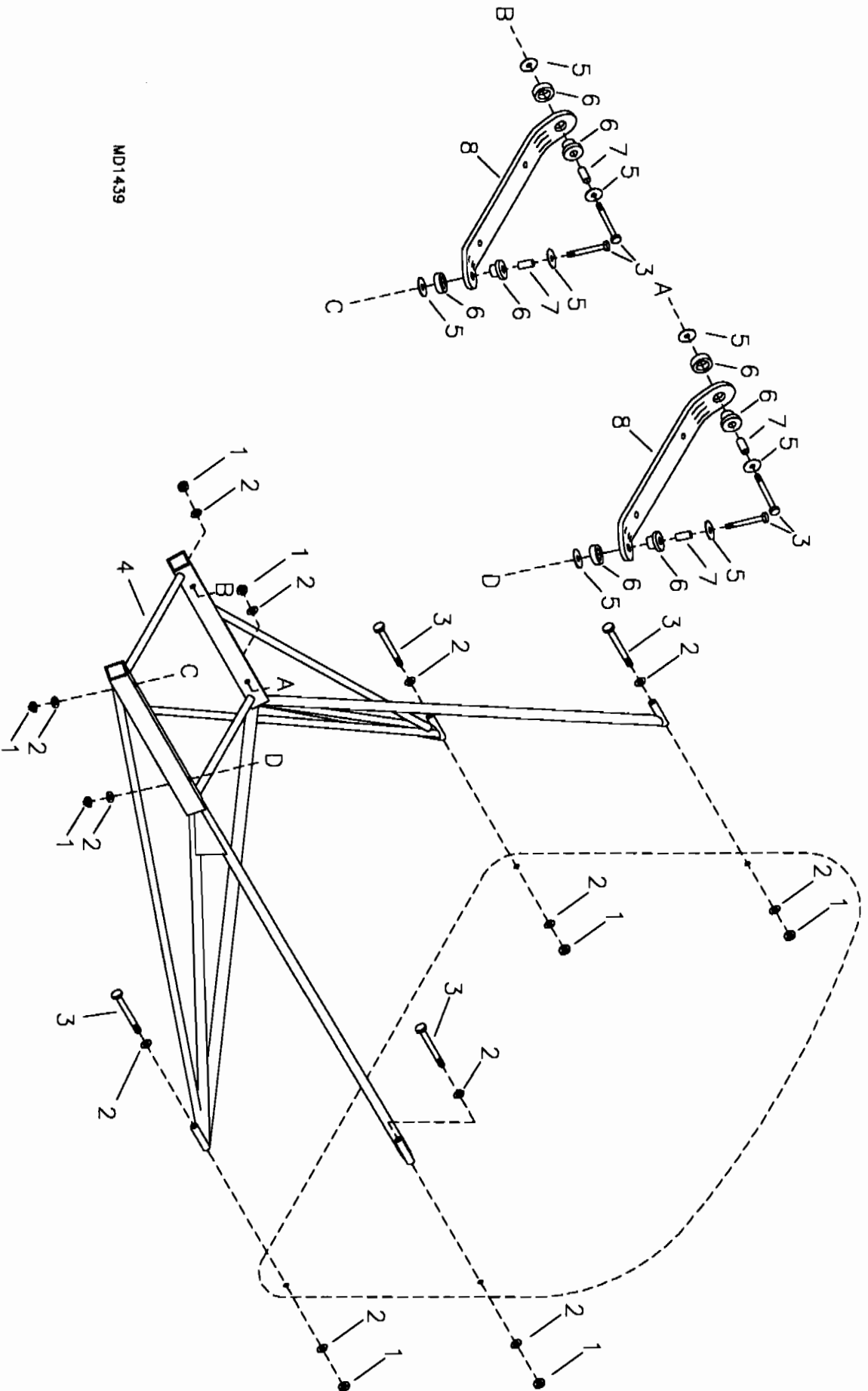
#	DESCRIPTION	PART NUMBER	QUANTITY
1.	SST-Clamp	SST-CLAMP-550	2
2.	8MM X 35MM Bolt	M8X35	4
3.	3/16" Wood Washer	OI-OTMW	4
4.	Rubber Hose	OI-RH3/4	4
5.	Oil Tank Mount	OI-OTMT	1
6.	Rubber Hose	OI-RH7/16	4
7.	Neoprene Strip, 2" X 6"	2GS-6	1

S-9 503 ENGINE MOUNT



S-9 CHAOS - 503 ENGINE MOUNT

#	DESCRIPTION	PART NUMBER	QUANTITY
1.	1/4" Tensile Nut	AN365-428A	8
2.	1/4" Thin Washer	AN960-416L	16
3.	1/4" Bolt	AN4-27A	8
4.	Engine Mount	EG-MT-503-24	1
5.	1/8" Aluminum Washer	EG-AW	8
6.	Barry Mount	22001	4
7.	Spacer Bushing, 1 1/8" x 3/8" x .058	EG-B-3/8X1 1/8	2
8.	Focalized Mount Plate	EG-FOMP	2



MD1439

REFINED S-9 CHAOS 582 FOCALIZED ENGINE MOUNT

S-9 CHAOS - 503 UPRIGHT ENGINE MOUNT

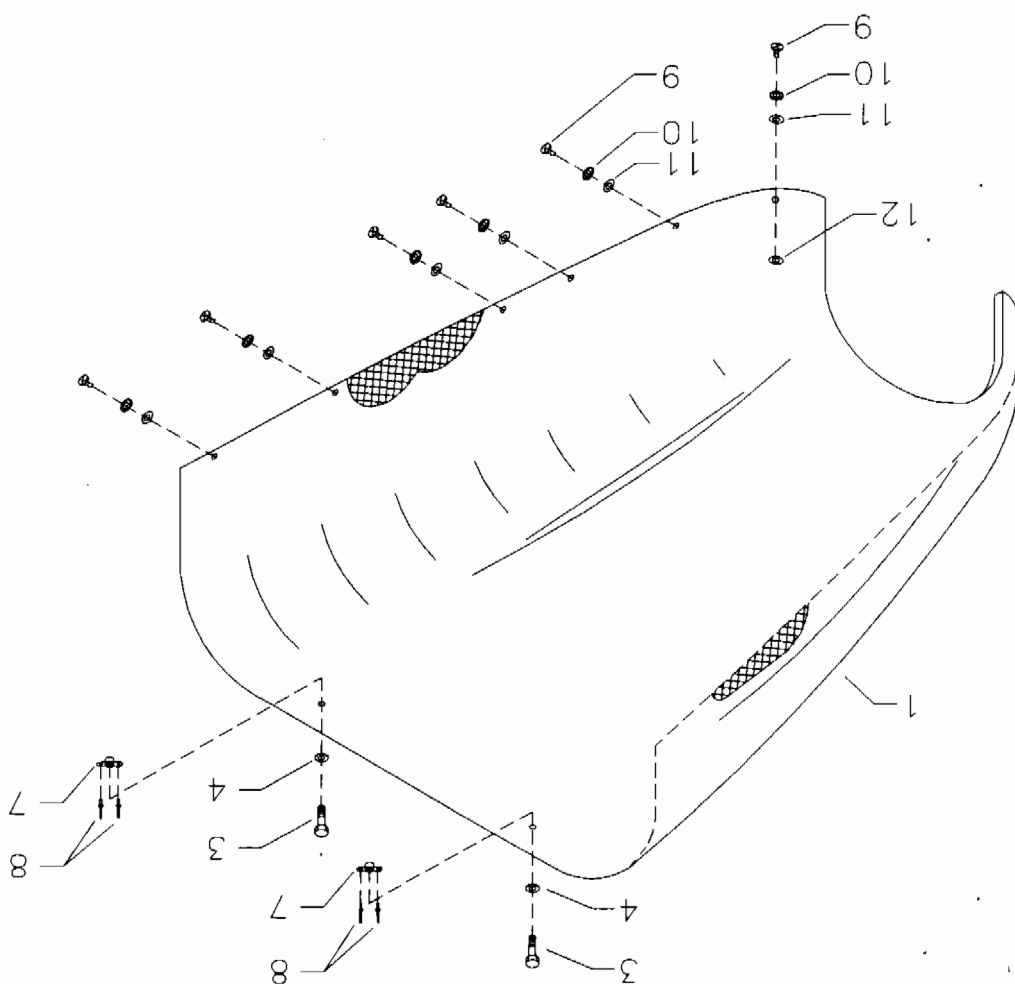
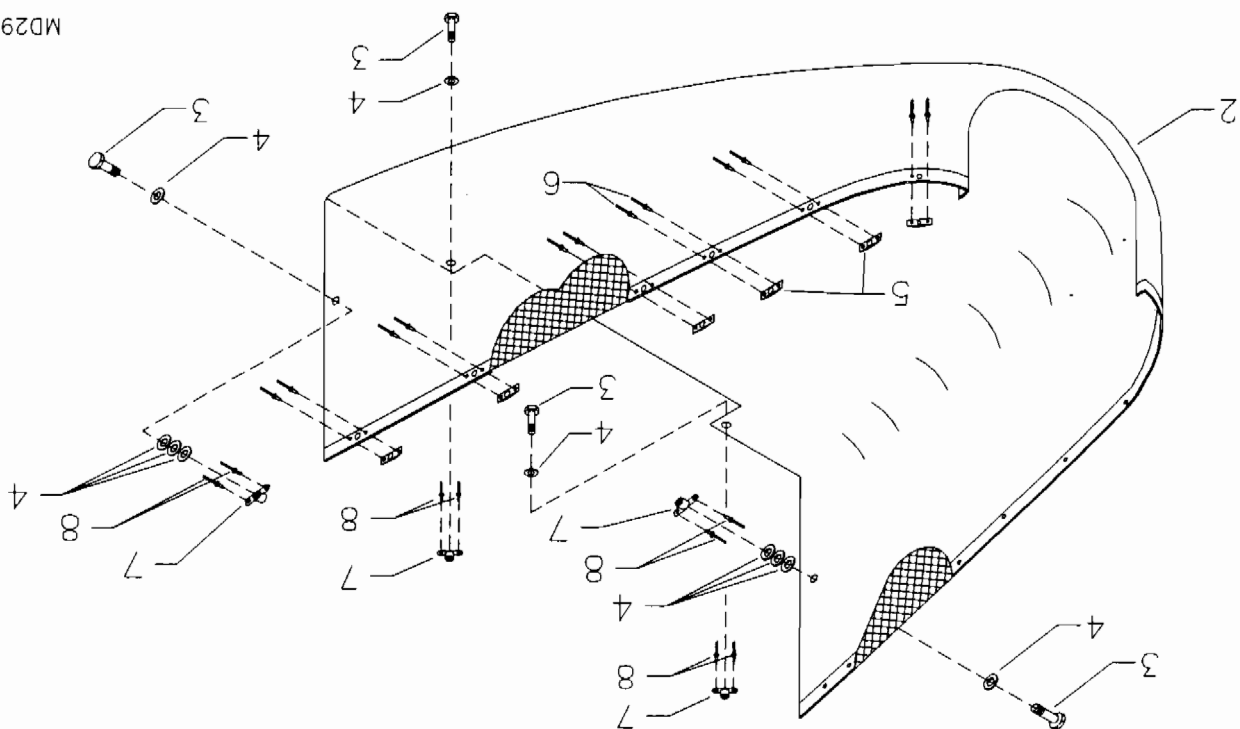
#	DESCRIPTION	PART NUMBER	QUANTITY
1.	1/4" Tensile Nut	AN365-428A	8
2.	1/4" Thin Washer	AN960-416L	16
3.	1/4" Bolt	AN4-27A	8
4.	Engine Mount	EG-MT-503-24	1
5.	1/8" Aluminum Washer	EG-AW	8
6.	Barry Mount	22001	4
7.	Spacer Bushing, 1 1/8" x 3/8" x .058	EG-B-3/8X1 1/8	2
8.	Focalized Mount Plate	EG-FOMP	2

S-9 CHAOS - 582 UPRIGHT ENGINE

#	DESCRIPTION	PART NUMBER	QUANTITY
1.	1/4" Tensile Nut	AN365-428A	8
2.	1/4" Thick Washer	AN960-416	12
3.	1/4" Bolt	AN4-27A	8
4.	Engine Mount	EG-MT-582-24	1
5.	1/8" Aluminum Washer	EG-AW	8
6.	Barry Mount	22001	4
7.	Spacer Bushing, 1 1/8" x 3/8" x .058	EG-B-3/8X1 1/8	2
8.	Focalized Mount Plate	EG-FOMP	2

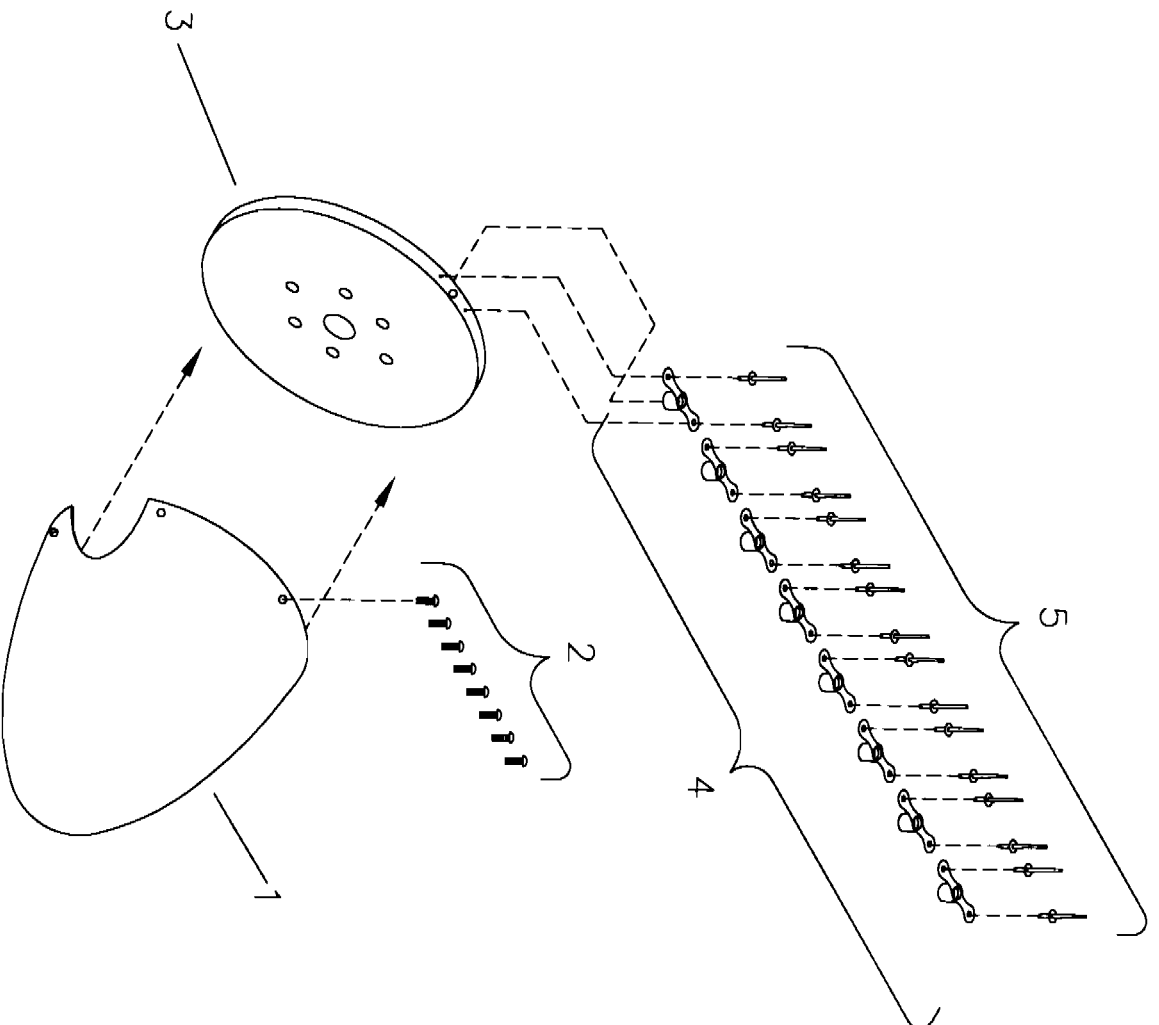
RRMS S-9 CHAOS COWLING ASSEMBLY

MD296



S-9 CHAOS - COWLING

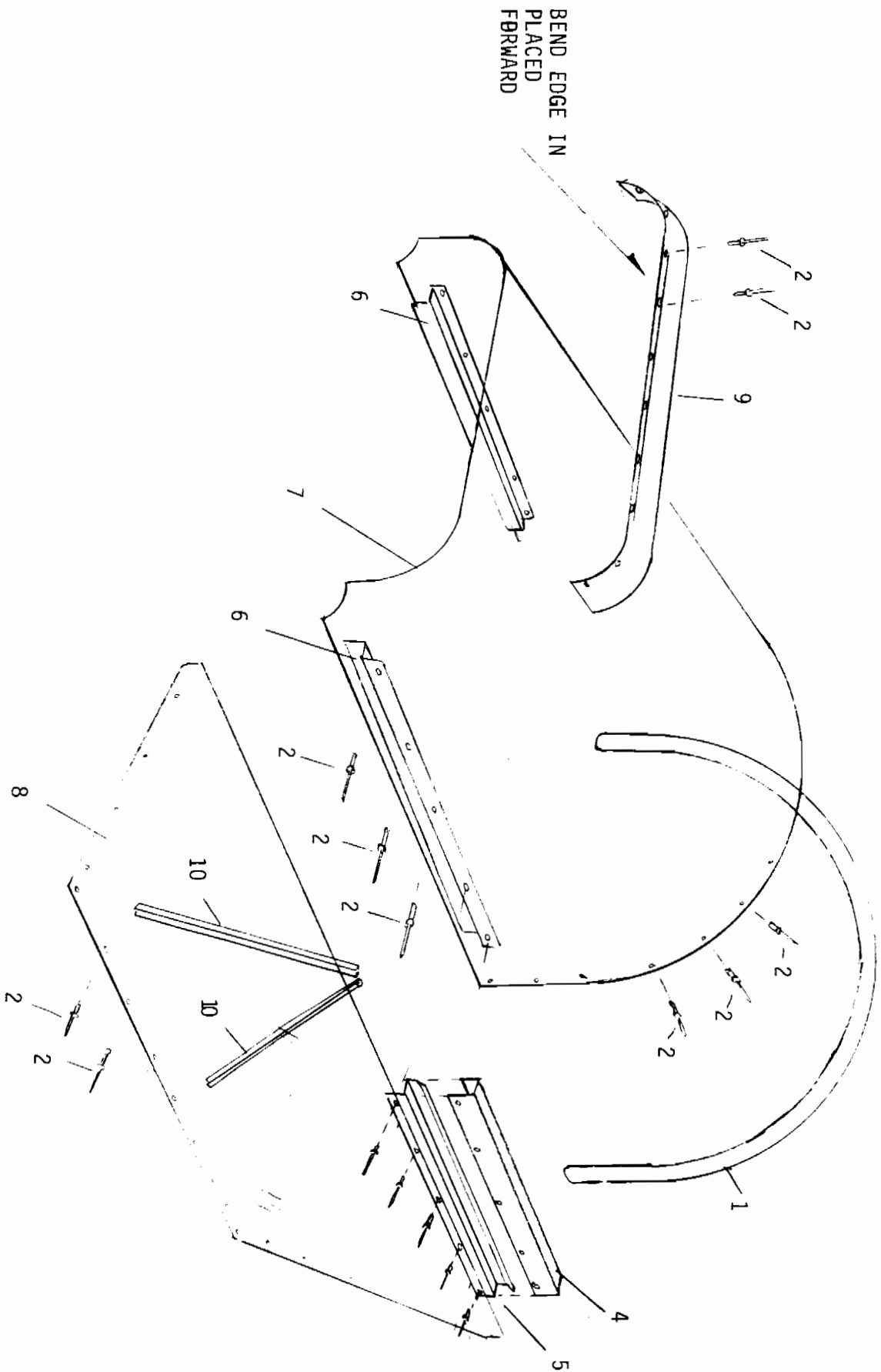
#	DESCRIPTION	PART NUMBER	QUANTITY
1.	Cowling Top (Unpainted)	C-TOP(7/9)	1
2.	Cowling Bottom (Unpainted)	C-BOT(7/9)	1
3.	3/16" Bolt	AN3-3A	6
4.	3/16" Plastic Washer	PW-3	12
5.	Receptacle	#302	16
6.	3/32" Aluminum Pop Rivet	40APR1/4	32
7.	3/16" Nut Plate	K-1000-3	6
8.	3/32" Aluminum Pop Rivet	40APR1/8	12
9.	1/4 Turn Stud	#180	16
10.	Rubber Washer	#201	16
11.	Wear Washer Nylon	#103	16
12.	Snap Ring	#101	16



RAMBO S-9 CHAOS
9" SPINNER

S-9 CHAOS - 9" SPINNER

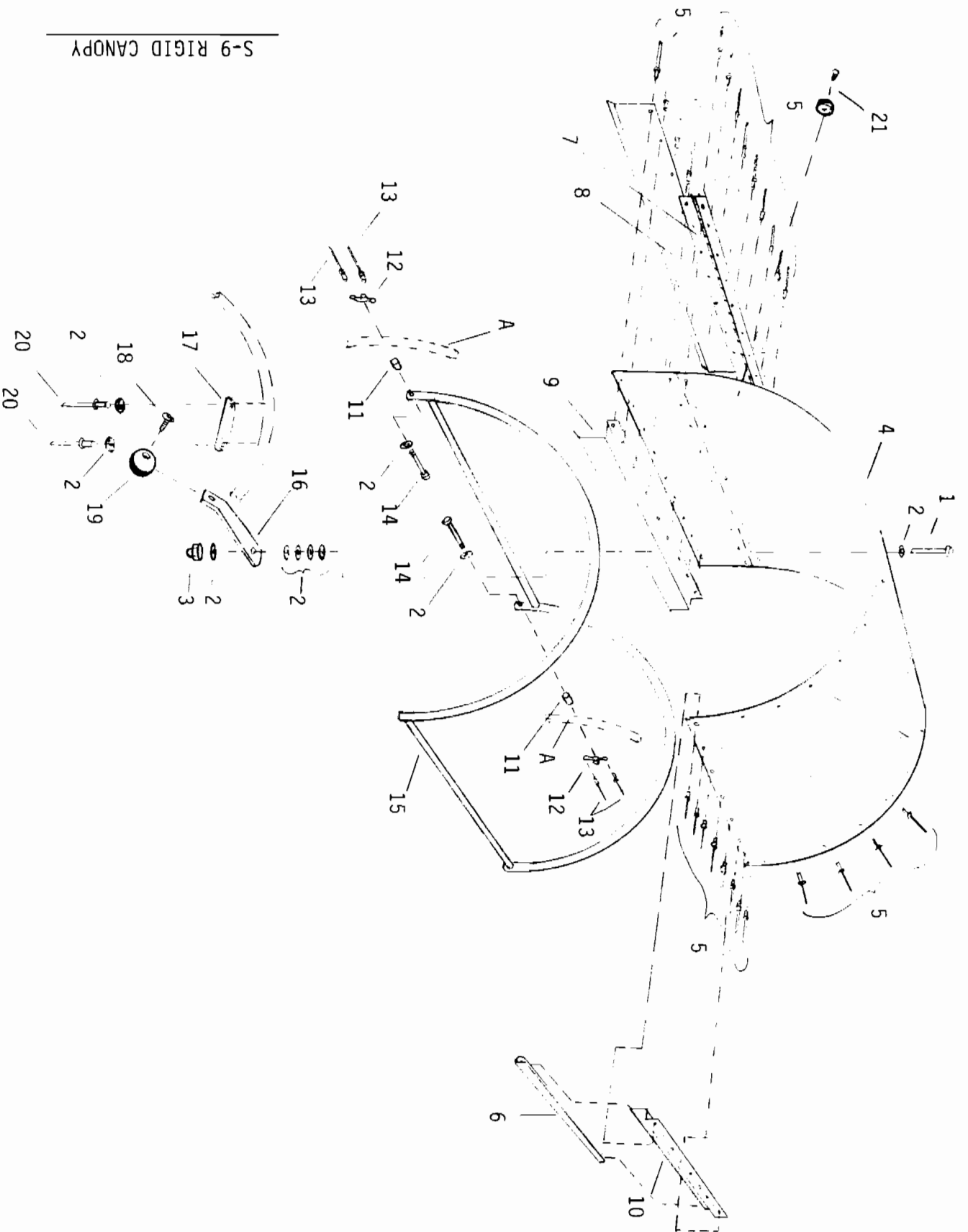
#	DESCRIPTION	PART NUMBER	QUANTITY
1.	Spinner Dome, 9"	SPIN-9	1
2.	Pan Head Phillips Bolt (5/8" long)	KSHW0071	8
3.	Spinner Backing Plate, 9"	SPIN-BC9-503/582	1
4.	3/16" Nut Plate	K-1000-3	8
5.	3/32" Aluminum Pop Rivet	40APR1/4	16



BEND EDGE IN
PLACED
FORWARD

S-9 CHAOS - WINDSHIELD & SIDE GLASS

#	DESCRIPTION	PART NUMBER	QUANTITY
1.	Canopy Former	WS-CF	1
2.	1/8" Aluminum Pop Rivet - Cherry Q	AAPQ-42	100
3.	Foam Strip, 3/8" x 1/2"	WS-FS-1/2	5 ft
4.	Latch Channel	WS-LC	1
5.	AFT Side Glass "Z" Strip	WS-SGZ-AFT(9)	2
6.	Side Glass "Z" Strip	WS-SGZ	2
7.	Windshield	S9WS-WS	1
8.	Side Glass	WS-SG	2
9.	Windshield Molding	WS-MOL	1
10.	Foam Strip, 3/8" x 1/2"	WS-FS-1/2	5 ft
11.	Air Vent	AIR-VENT	1



S-9 RIGID CANOPY

A = WINDSHIELD FORMERS

#	DESCRIPTION	PART NUMBER	QUANTITY
1.	3/16" Bolt	AN3-15A	1
2.	3/16" Thick Washer	AN960-10	9
3.	3/16" Shear Acorn Nut	22NKM02	1
4.	S-9 Canopy Lexan - Tint	CAN-CAN(T)	1
4.	S-9 Canopy Lexan - Clear	CAN-CAN(C)	1
5.	1/8" Aluminum Pop Rivet - Cherry Q	AAPQ-42	66
6.	Trim Loc	TRIM-LOC	24 in
7.	Piano Hinge	CAN-PH	1
8.	Outer Strip	CAN-O-RH-S	1
9.	Left "Z" Strip	CAN-LH-Z	1
10.	Right "Z" Strip	CAN-RH-Z	1
11.	Spacer Bushing, 1/4" x 1/4" *	SB-1/4X1/4	2
12.	3/16" Nut Plate	K-1000-3	2
13.	3/32" Aluminum Pop Rivet	40APR1/8	4
14.	3/16" Bolt	AN3-22A	2
15.	Canopy Frame	CAN-FRAM	1
16.	Latch Handle	CAN-LATCH-H	1
17.	Latch Block	CAN-LBL	1
18.	Screw	SS-SCREW-#10X1	1
19.	Throttle Knob	T-KNOB(14)	1
20.	3/16" Aluminum Pop Rivet - Cherry Q	AAPQ-62	2
21.	Rubber Bumper	CAN-RB	1

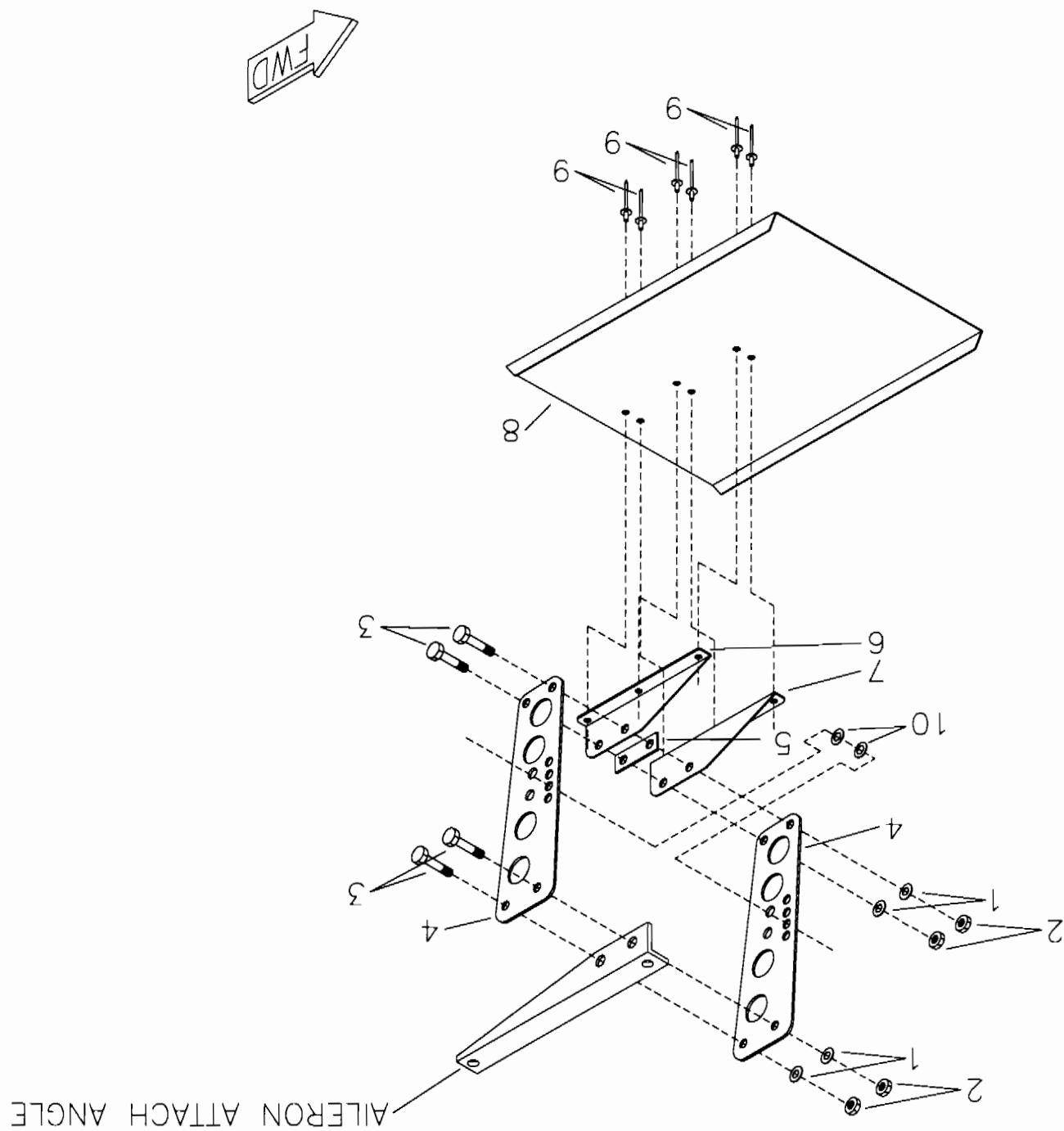
*Fabricate

9/24/1997

#	DESCRIPTION	PART NUMBER	QUANTITY
1.	Aircraft Fabric	CV-S9	27 yds
2.	2" Surface Tape	2 TAPE	3 rls
3.	4" Surface Tape	4 TAPE	24 ft
4.	Rib Lacing	RIB LACING	1 rls
5.	Inspection Ring	CV-IR	4
6.	Inspection Plate	CV-IP	4
7.	U-500 Urethane Adhesive	KSCV0001	4 qts
8.	1/4" Rib Tape	RIB TAPE	1 rls
9.	Lexan Scraps	LEX	1
10.	Thin Lexan Sheet	LEX-24X24	1
11.	Rudder Cable Exit	CV-RX	2
12.	Speed Bumps	WS-S-B	2
13.	#4 Small Pan Head Screw	4X1/4 PHS	24

OPTIONAL AILERON SPADE ASSEMBLY

MD3555

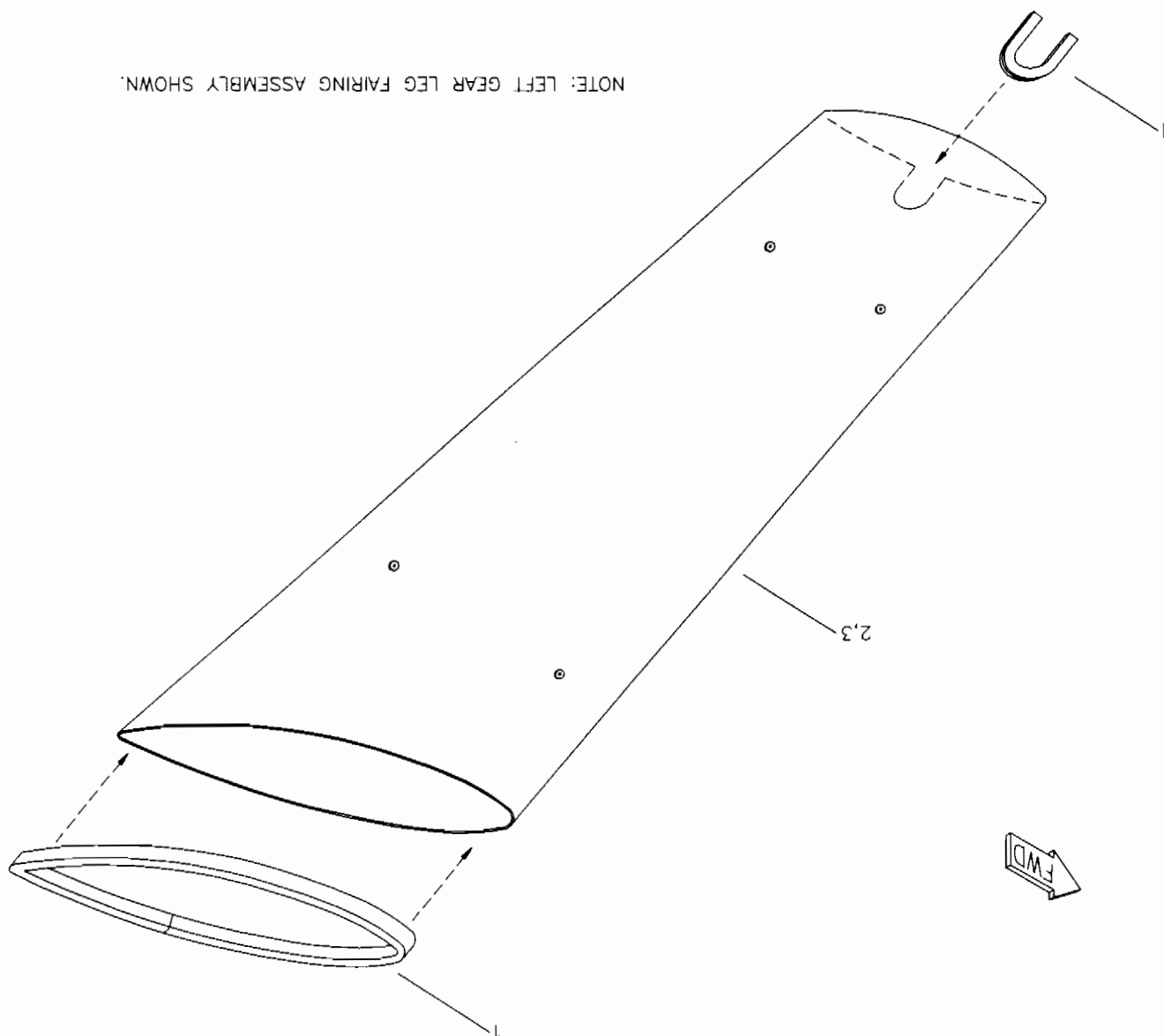


S-9 CHAOS - OPTIONAL AILERON SPADE

#	DESCRIPTION	PART NUMBER	QUANTITY
1.	3/16" Thin Washer	AN960-10L	8
2.	3/16" Shear Nut	AN364-1032A	8
3.	3/16" Bolt	AN3-5A	8
4.	Aileron Horn	W-A-HORN	4
5.	Spade Shim	W-SPADE-SHIM	2
6.	Spade Attach Angle	W-SPADE-ATL	2
7.	Spade Attach Angle	W-SPADE-ATR	2
8.	Spade	W-SPADE	2
9.	1/8" Stainless Steel Pop Rivet - Cherry Q	CCPQ-42	12
10.	3/16" Plastic Washer	PW-3	4

RRMS S-9 CHAOS GEAR LEG FAIRING ASSEMBLY

MD1420



NOTE: LEFT GEAR LEG FAIRING ASSEMBLY SHOWN.

S-9 CHAOS - OPTIONAL GEAR LEG FAIRINGS

#	DESCRIPTION	PART NUMBER	QUANTITY
1.	Rubber Edging	X1011	40 in
2.	Gear Leg Fairing, LH	GL-FAIR-LH(9)	1
3.	Gear Leg Fairing, RH	GL-FAIR-RH(9)	1

S-9 CHAOS - OPTIONAL ELECTRIC STARTER

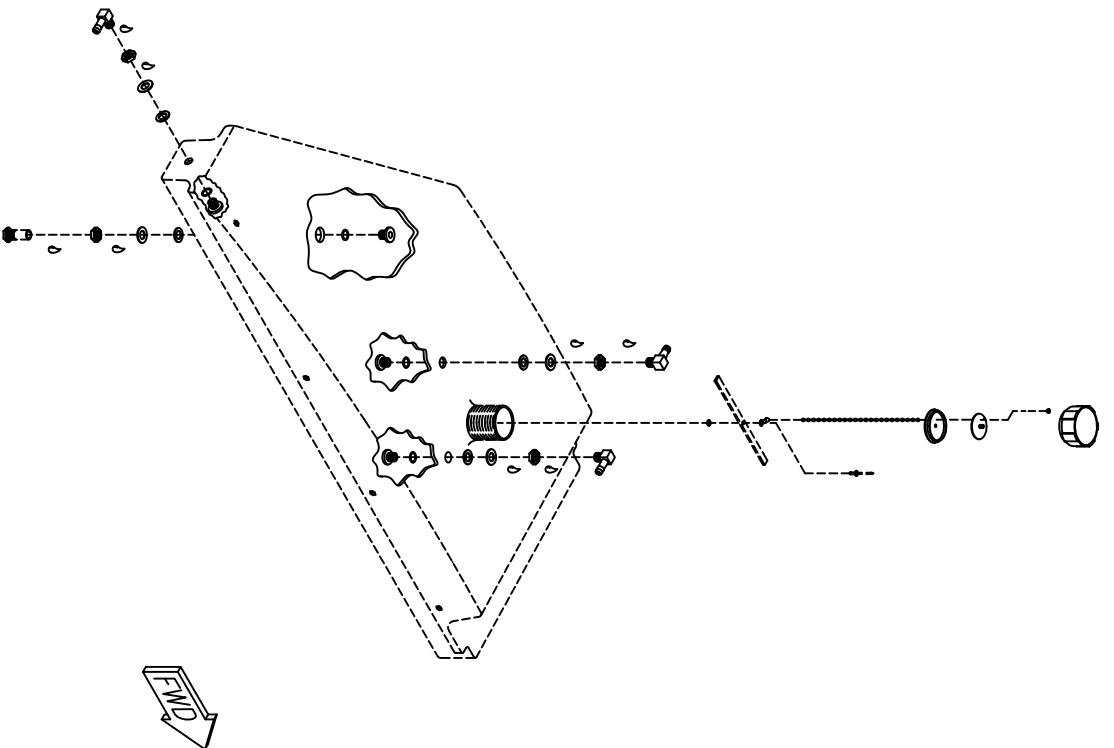
#	DESCRIPTION	PART NUMBER	QUANTITY
1.	3/16" Aluminum Pop Rivet - Cherry Q	AAPQ-62	10
2.	1/8" Aluminum Pop Rivet - Cherry Q	AAPQ-42	72
3.	3/32" Aluminum Pop Rivet	40APR1/8	24
4.	15 AMP Fuse	KSES0020-15	1
5.	14 Gauge, In Line Fuse Holder	KSES0019	1
6.	14 Gauge Eye Terminal, Blue 3/16"	IP-7102	4
7.	14 Gauge Eye Terminal, Blue 1/4"	1/4 EYE 14 GA	1
8.	14 Gauge Eye Terminal, Blue 5/16"	5/16 I TERM	1
9.	14 Gauge Male Spade Terminal, Blue	IP-7126	2
10.	14 Gauge Splice, Butt Connector	IP-7132	9
11.	4 Gauge Eye Cable Terminal	4 GA CABLE LUG	7
12.	Key Start Switch	25-6	1
13.	Regulator/Rectifier	KSES0005	1
14.	Starter Cover	S-SC	1
15.	Starter Cover Angle	S-SCA	4
16.	4 Gauge Battery Cable, Black Wire	4 GA WIRE/BLACK	5 ft
17.	14 Gauge Red Wire	14 GA WIRE/RED	10 ft
18.	Battery	PS12150-NB	1
19.	Battery Box Side Plate	BAT-BOX-1	1
20.	Battery Box Mount Plate	BAT-BOX-2	1
21.	Battery Box Support Angle	BAT-BOX-3	2
22.	Battery Bar	BAT-BAR-503/582	1
23.	Small Cotter Pin	MS24665-134	2
24.	Electric Starter Kit (-1 503)	MESK-3-582	1
24.	Electric Starter Kit (-1 582)	MESK-1-503	1

NOTE: When mounting the starter attach the unit so that it is in the 12 o'clock position.

S-9 CHAOS - OPTIONAL WHELEN STROBE INSTALLATION

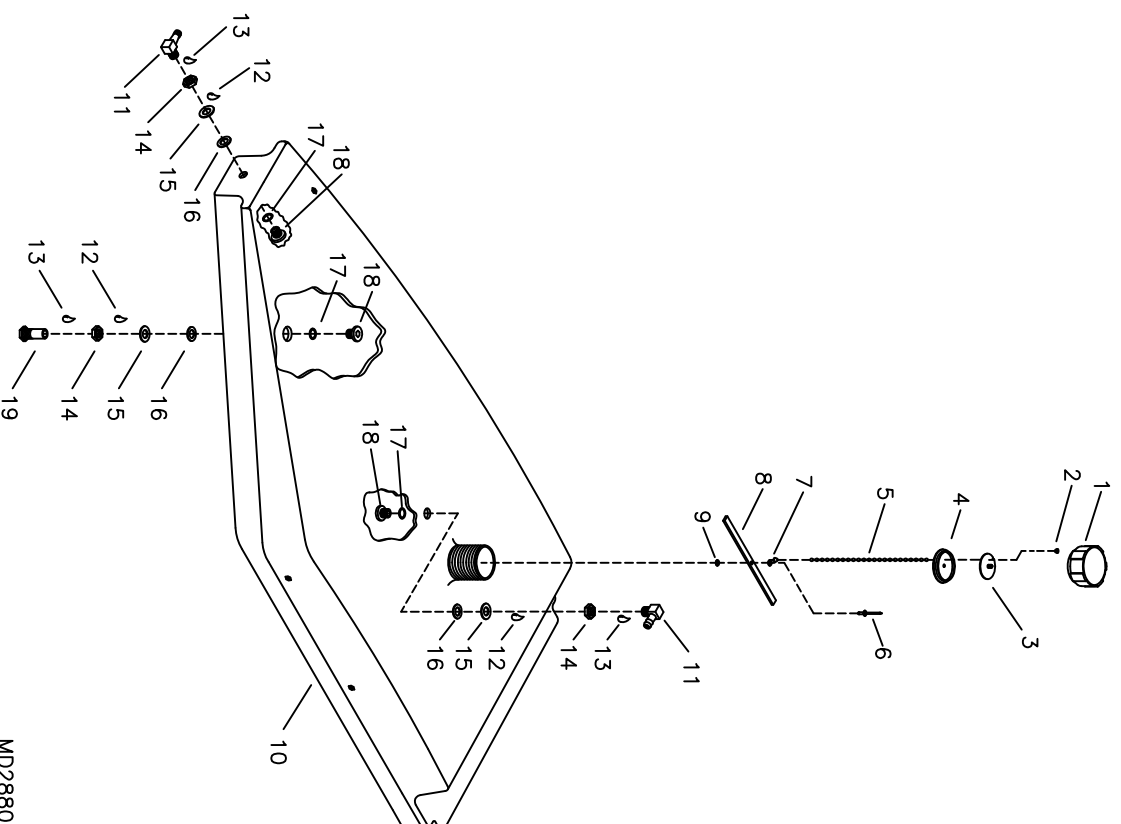
#	DESCRIPTION	PART NUMBER	QUANTITY
1.	Ignition Switch	MS35058-22	2
2.	14 Gauge Eye Terminal, Blue 3/16"	IP-7102	9
3.	15 AMP Fuse	KSES0020-15	1
4.	14 Gauge, In Line Fuse Holder	KSES0019	1
5.	Terminal Y Connector, Brass	IP-YC	3
6.	14 Gauge Splice, Butt Connector	IP-7132	5
7.	14 Gauge Male Spade Terminal, Blue	IP-7126	3
8.	14 Gauge Female Spade Terminal, Blue	IP-7128	6
9.	14 Gauge Yellow Wire	14 GA WIRE/YELLOW	50 ft
10.	14 Gauge Red Wire	14 GA WIRE/RED	12 ft
11.	1/2" Non Cushioned Clamp	AN742-D8	1
12.	3/16" Bolt	AN3-4A	3
13.	3/16" Shear Nut	AN364-1032A	3
14.	1" Non Cushioned Clamp	AN742-D16	2
15.	8-32 Nut Plate	MS21047-08	6
16.	8/32" Truss Head Bolt	AN515-8R7	6
17.	116 Navigation Light Mount Plate	116-NAV-MT-080	2
18.	Reinforcement Strap *	KPW10014	4
19.	3/16" Thin Washer	AN960-10L	3
20.	3/32" Aluminum Pop Rivet	40APR1/8	12
21.	1/8" Stainless Steel Pop Rivet - Cherry Q	CCPQ-42	26
22.	Whelen Installation & Cable	HD-60	1
23.	Whelen Left Strobe Light	A600-PR	1
24.	Whelen Right Strobe Light	A600-PG	1
25.	Whelen Strobe Light Power Supply	A413A, HDA-DF	1

*Builder modifies as required.



RRR S-9 CHAOS

OPTIONAL WING TANK SYSTEM



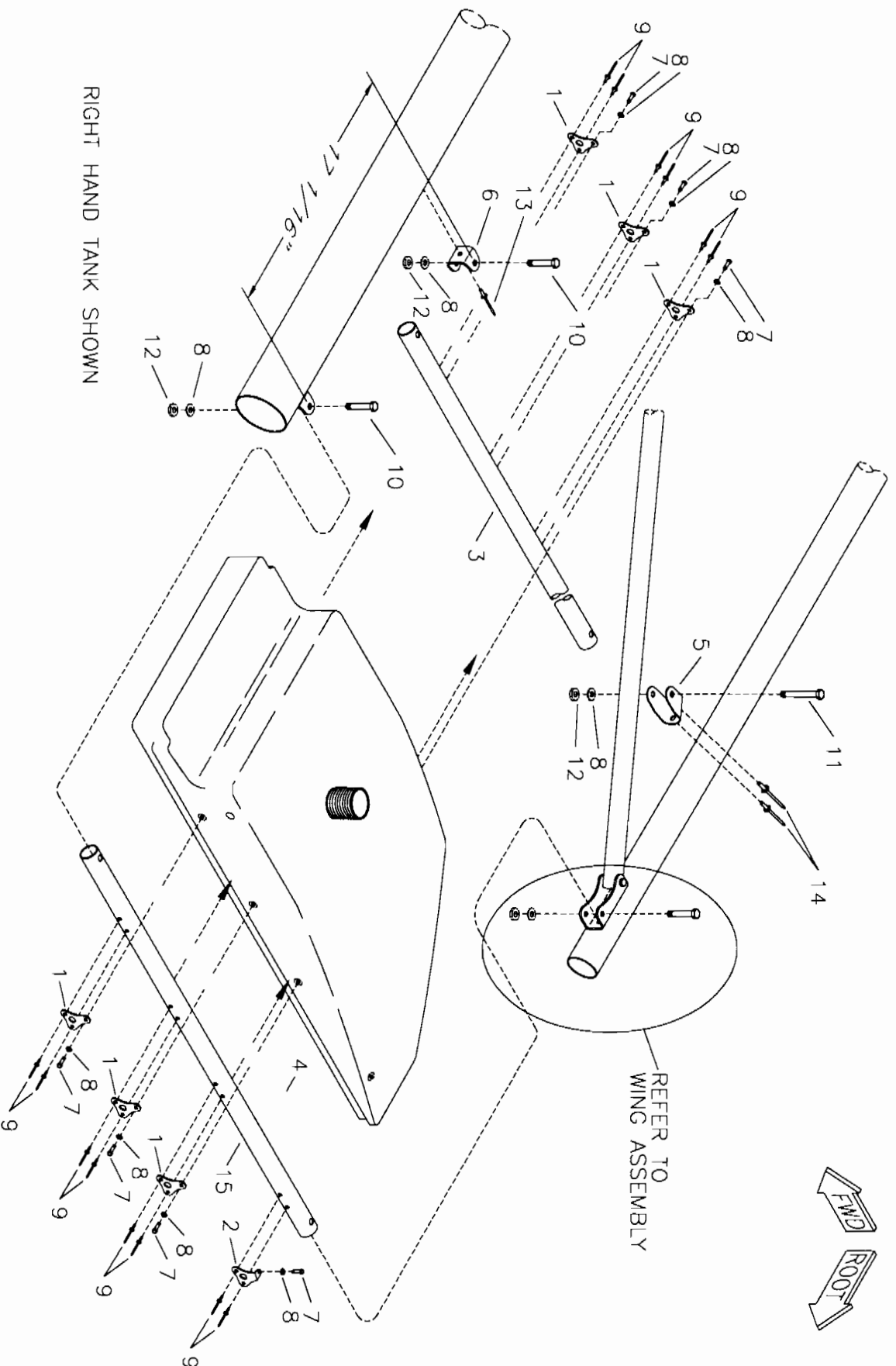
#	DESCRIPTION	PART NUMBER	QUANTITY
1.	Fuel Cap *	KSFS0007	1
2.	Bead Chain-Retainer Sleeve	KSHW0014	1
3.	Plastic Baffle ***	-----	0
4.	Rubber Gasket ***	-----	0
5.	#3 Bead Chain	KSHW0012	1
6.	1/8" Stainless Steel Pop Rivet - Cherry Q	CCPQ-44	1
7.	Bead Chain-End Coupling	KSHW0013	1
8.	Plastic Retainer	KPFS0012	1
9.	1/8" Small Brass Washer	AN960-B4	1
10.	Fuel Tank, RH	KPFS0005-R	1
11.	90 Withdrawal Fitting	8342	2
12.	Loctite Blue	LOC-TITE	0
13.	Thread Sealant **	KSAC0014	0
14.	Nut-Flared Tube Bulkhead	AN924-5D	3
15.	1/2" Thick Washer	AN960-816	3
16.	Rubber Washer	KSFS0010	3
17.	O-Ring	KSFS0009	3
18.	Tank Withdrawal Fitting	KPFS0017	3
19.	Flush Valve	KSFS0011	1

*Builder must modify, see manual for instructions.

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

***Supplied with Fuel Cap.

2/6/2013



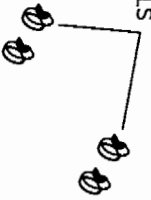
REFUGES S-9 CHAOS OPTIONAL WING TANK SYSTEM

S-9 CHAOS - OPTIONAL WING TANK SYSTEM

#	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	KPFS0019	1
4.	Inner Compression Tube *	W-IO-151	0
5.	U-Bracket	KPAC0055	1
6.	Attach Bracket	S2-SAB	1
7.	3/16" Bolt	AN3-3A	7
8.	3/16" Thick Washer	AN960-10	8
9.	1/8" Stainless Steel Pop Rivet - Cherry Q	CCPQ-44	14
10.	3/16" Bolt	AN3-15A	2
11.	3/16" Bolt	AN3-14A	1
12.	3/16" Shear Nut	AN364-1032A	3
13.	3/16" Stainless Steel Pop Rivet - Cherry Q	CCPQ-64	1
14.	1/8" Stainless Steel Pop Rivet - Cherry Q	CCPQ-42	2

*Referenced from wing assembly.

USE HOSE CLAMPS TO
MOUNT FUEL VALVES TO
GEAR TRUSS DIAGONALS



REFERENCE HEADER
TANK DETAIL FOR
CONNECTIONS AND
MOUNTING

MOUNT TO FLOORBOARD

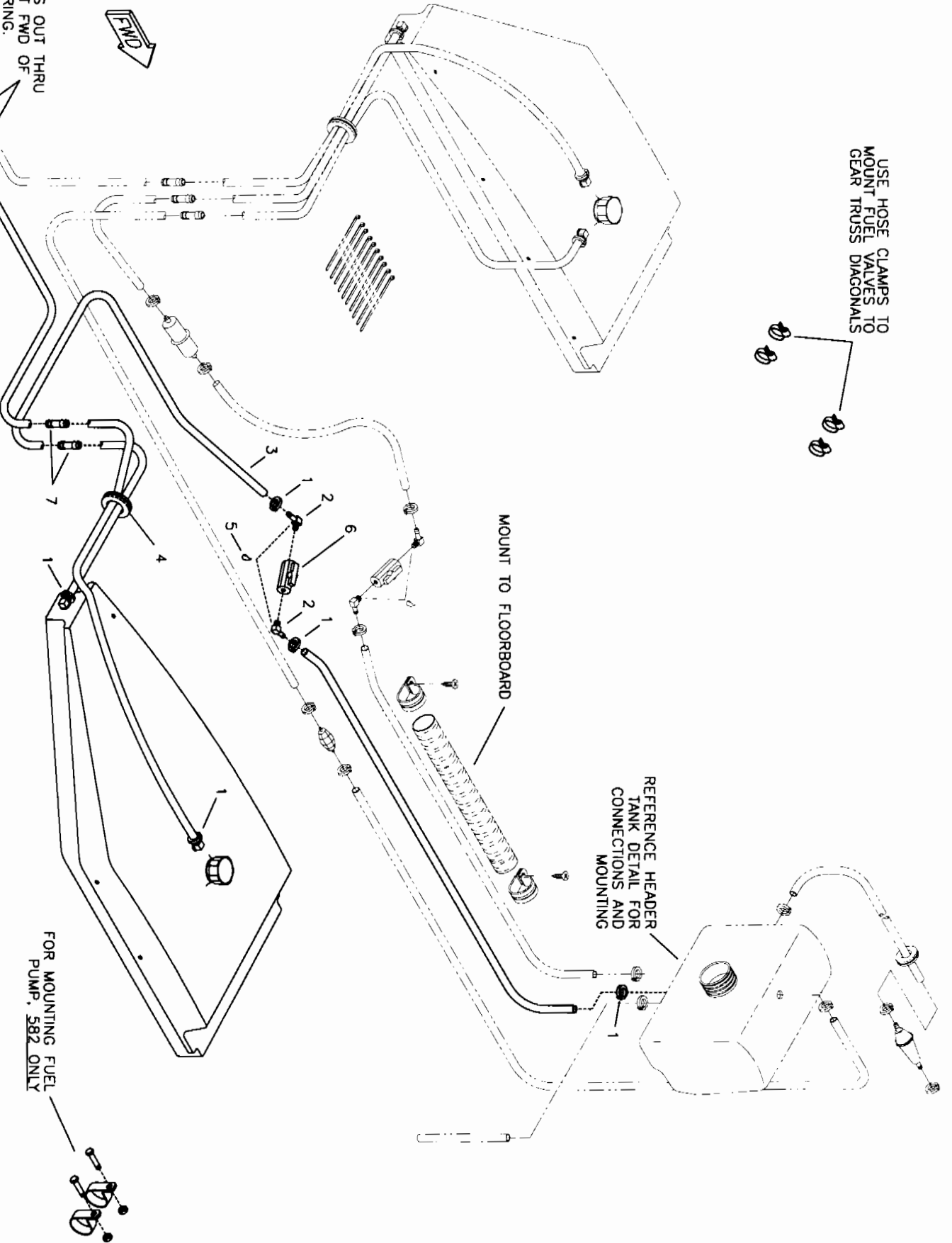
ROUTE VENTS OUT THRU
BOTTOM JUST FWD OF
THE TAIL SPRING.



OPTIONAL WING TANK SYSTEM

MD2881

FOR MOUNTING FUEL
PUMP, 582 ONLY

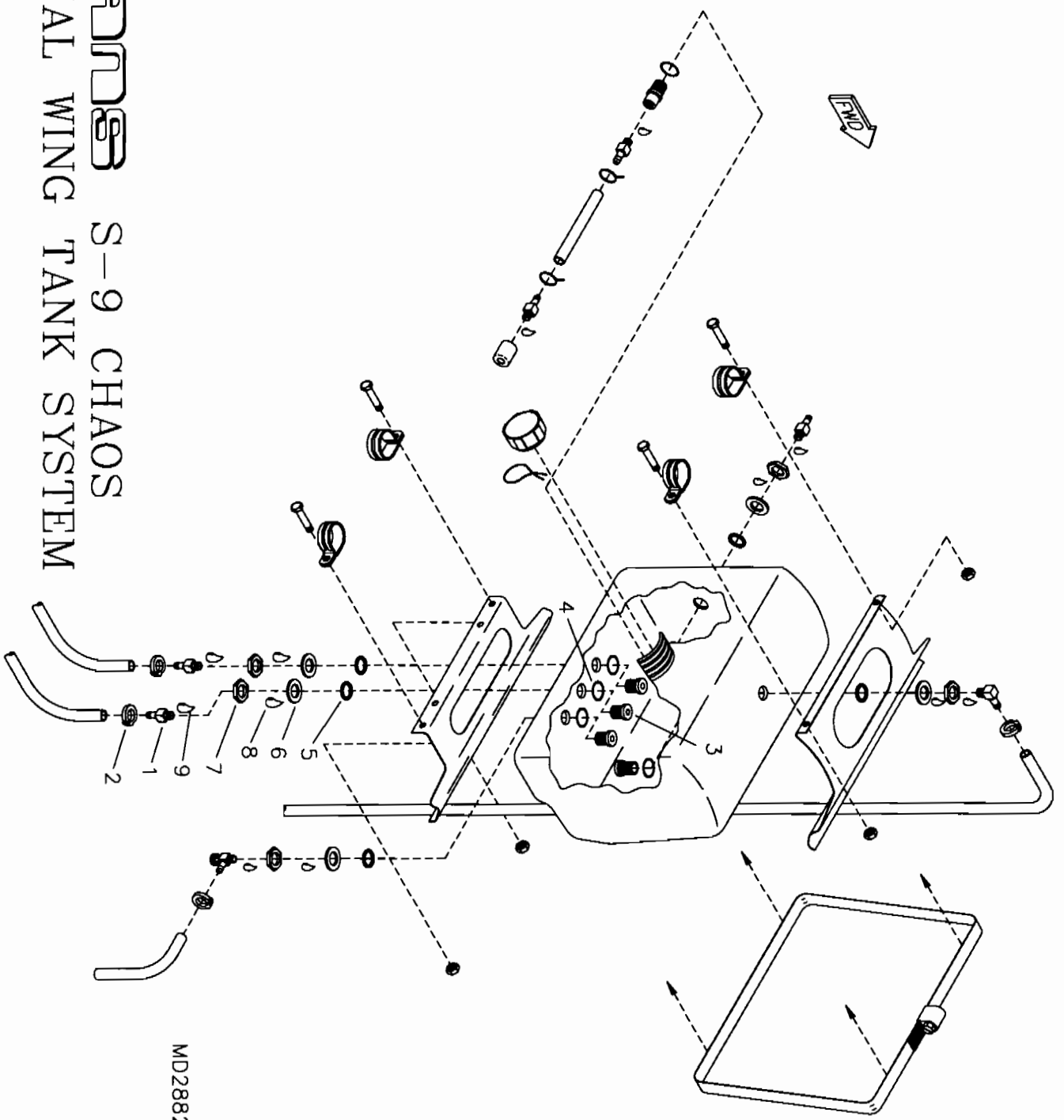


S-9 CHAOS - OPTIONAL WING TANK SYSTEM

#	DESCRIPTION	PART NUMBER	QUANTITY
1.	Fuel Line Clamp, 5/16" I.D.	FS-LCL 5/16	5
2.	90 Withdrawal Fitting	8342	2
3.	1/4" Fuel Line, Blue	FS-FL	15 ft
4.	Rubber Grommet	MS35489-17	1
5.	Thread Sealant *	KSAC0014	0
6.	Fuel Shut Off Valve	FS-S-OFF	1
7.	Straight 1/4" Barb Fitting	KSHW0048	2

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

REFURB S-9 CHAOS OPTIONAL WING TANK SYSTEM



MD2882

S-9 CHAOS - OPTIONAL WING TANK SYSTEM

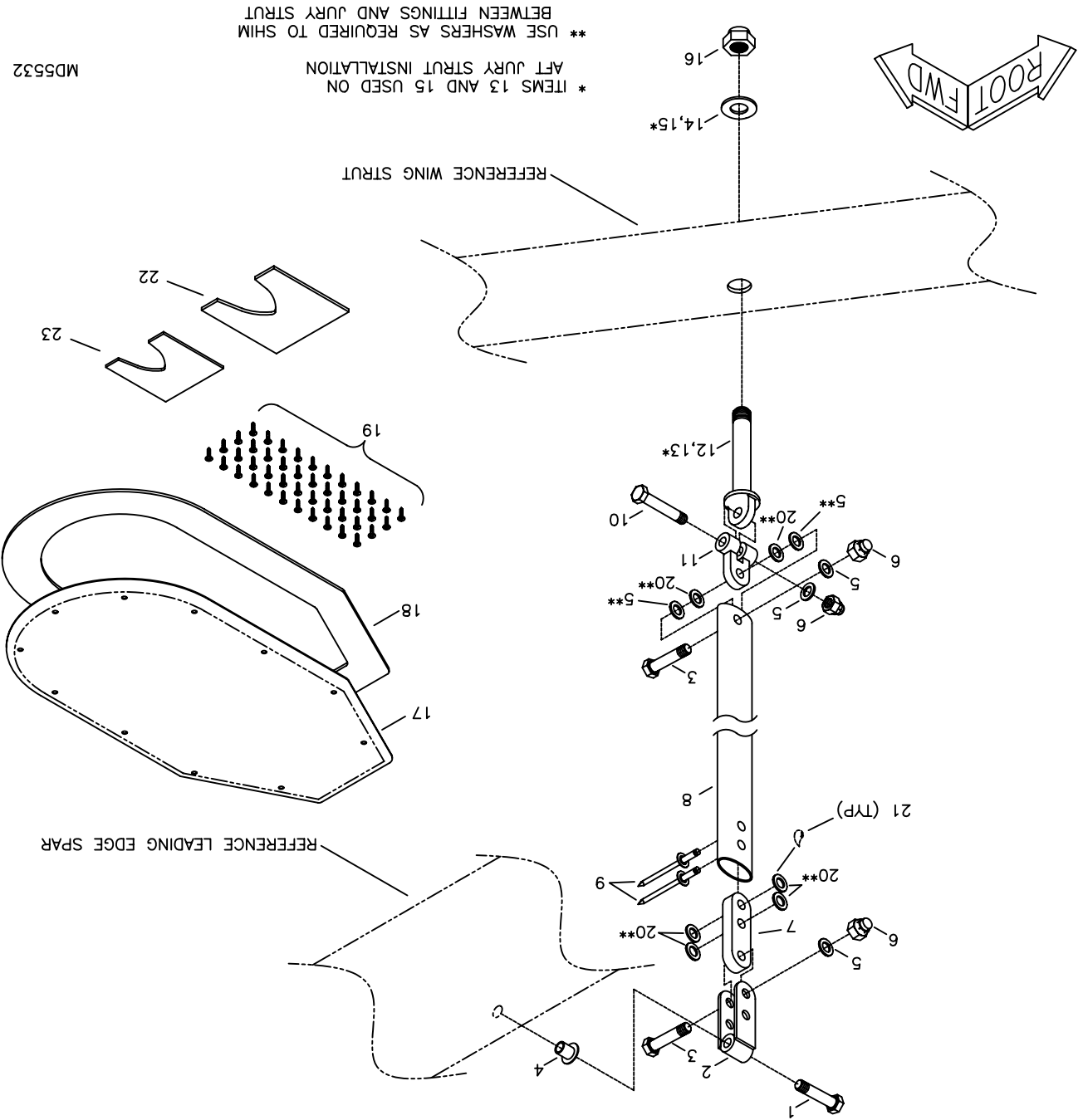
# DESCRIPTION	PART NUMBER	QUANTITY
1. Straight Withdrawal Fitting	8330	1
2. Line Clamp, 3/8"	FS-LCL 3/8	1
3. Tank Withdrawal Fitting	KPFS0017	1
4. O-Ring	KSFS0009	1
5. Rubber Washer	KSFS0010	1
6. 1/2" Thick Washer	AN960-816	1
7. Nut-Flared Tube Bulkhead	AN924-5D	1
8. Loctite Blue	LOC-TITE	0
9. Thread Sealant *	KSAC0014	0

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

S-9 CHAOS - GASCOLATOR

#	DESCRIPTION	PART NUMBER	QUANTITY
1.	Gascolator	GAS-LAT	1
2.	Gascolator Bowl	GAS-BOWL	1
3.	Sump Drain Valve	8336	1
4.	90 Withdrawal Fitting	8342	1
5.	3/8" Thick Washer	AN960-616	2
6.	Rubber Hose, 3/8" I.D. X 1/4" Long	GAS-RH-3/8X1/4	2
7.	1/8" Stainless Steel Pop Rivet - Cherry Q	CCPQ-42	4
8.	Gascolator Mount	GAS-MT	1
9.	Straight Withdrawal Fitting	8330	1

RPM S-9 CHAOS JURY STRUT INSTALLATION



MD5532

#	DESCRIPTION	PART NUMBER	QUANTITY
1.	3/16" Bolt	AN3-10A	4
2.	Jury Strut Upper Weldment	KPWI0564	4
3.	3/16" Bolt	AN3-6A	8
4.	3/16" Rivet Nut	MS27130-A25K	4
5.	3/16" Thick Washer	AN960-10	28
6.	3/16" Shear Nut	AN364-1032A	12
7.	Jury Strut Connector	KPWI0566	4
8.	Jury Strut *	KPWI0563	4
9.	3/16" Stainless Steel Rivet - Cherry Q	CCPQ-66	8
10.	3/16" Bolt	AN3-11A	4
11.	Jury Strut Lower Weldment	KPWI0565	4
12.	1/4" Eyebolt	AN43B-15A	2
13.	1/4" Eyebolt	AN43B-14A	2
14.	1/4" Thin Washer	AN960-416L	2
15.	1/4" Thick Washer	AN960-416	2
16.	1/4" Tensile Acorn Nut	42NKE-048	4
17.	Inspection Cover	KPCV0048	4
18.	Inspection Ring	KPCV0049	4
19.	#4 Pan Head Screw	4X1/4 PHS	44
20.	3/16" Thin Washer	AN960-10L	24
21.	Adhesive - Superglue **	-----	0
22.	Large Lift Strut Chord Template ***	KPLS0003	0
23.	Small Lift Strut Chord Template ***	KPLS0004	0

* Builder modifies

** Builder provides

*** Referenced from Lift Strut Assembly

2/22/2011