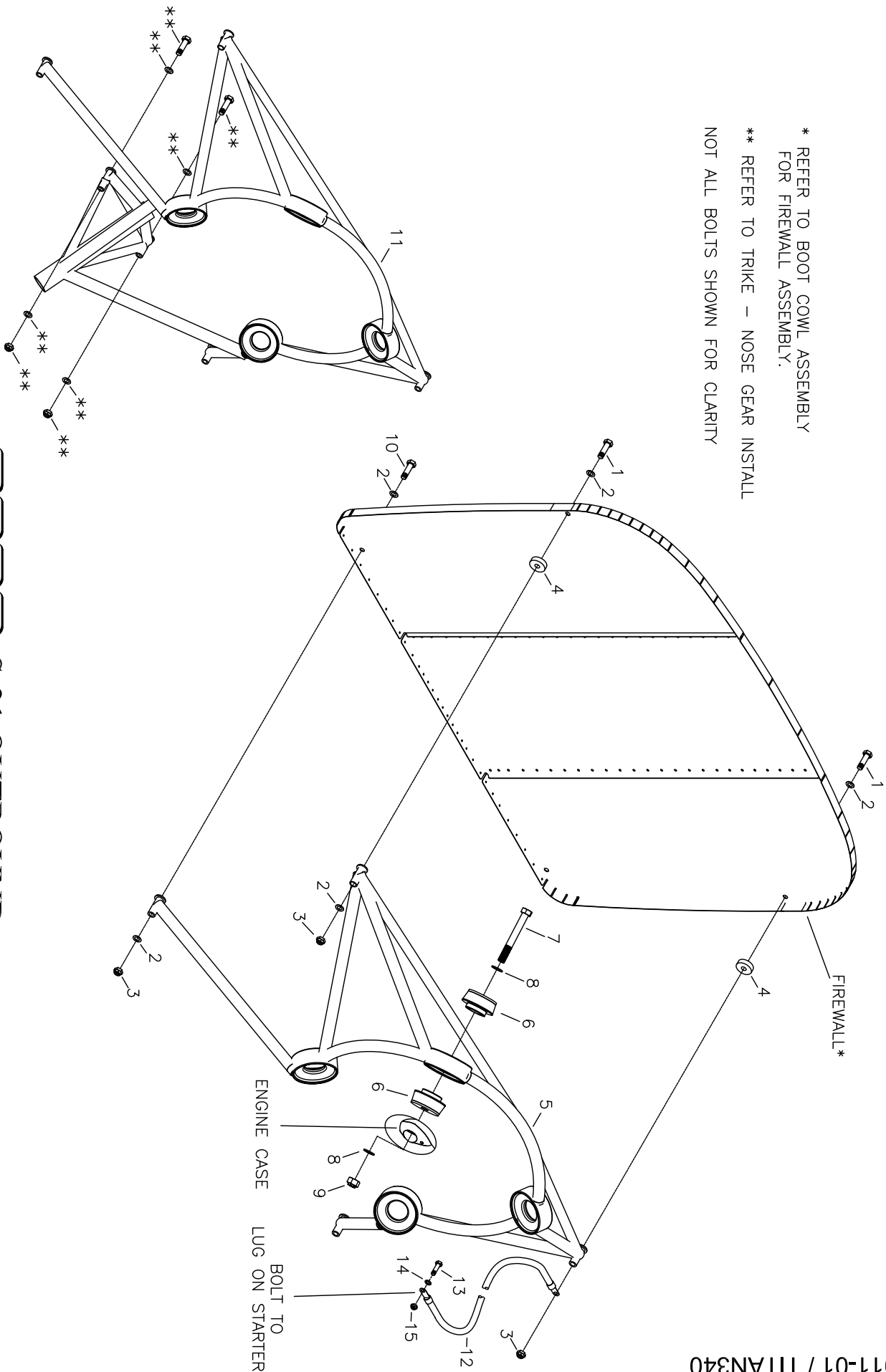


* REFER TO BOOT COWL ASSEMBLY
FOR FIREWALL ASSEMBLY.
** REFER TO TRIKE – NOSE GEAR INSTALL
NOT ALL BOLTS SHOWN FOR CLARITY



RPN S-21 OUTBOUND
TITAN X-340
ENGINE MOUNT INSTALLATION

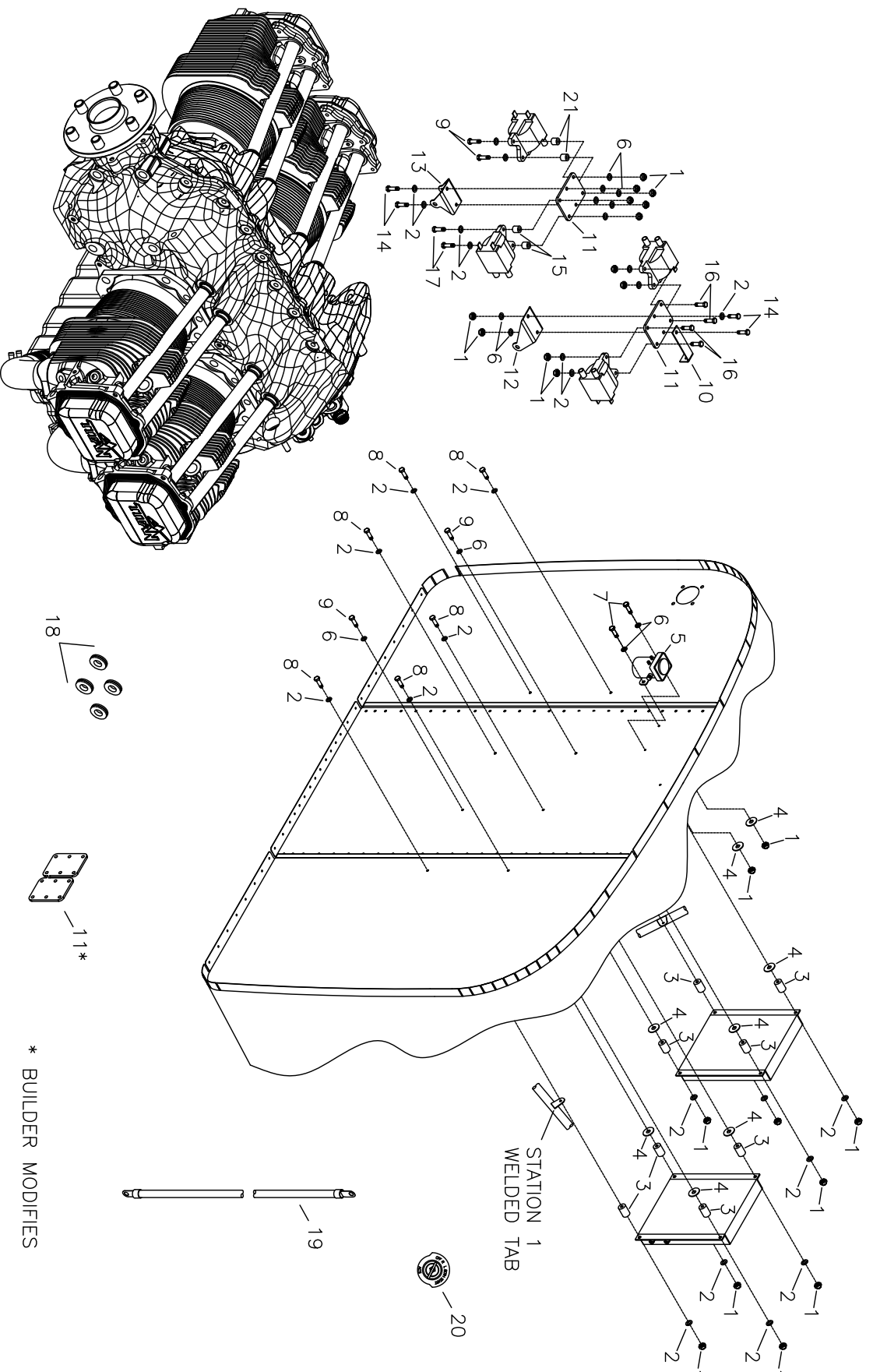
MD5084
REV. – ORIG

RANS S-21 OUTBOUND

PAGE 011-02 / TITAN340

TITAN X-340 - ENGINE MOUNT INSTALLATION

#	DESCRIPTION	PART NUMBER	QUANTITY
1.	5/16" Bolt	AN5-37A	2
2.	5/16" Thick Washer	AN960-516	7
3.	5/16" Tensile Nut	AN365-524A	4
4.	Engine Mount Spacer	KPAC0273	2
5.	Engine Mount (TAILDRAGGER ONLY)	KAPW0072	1
6.	Rubber Engine Mount	KSPW0097	4
7.	7/16" Bolt	AN7-35A	4
8.	7/16" Thick Washer	AN960-716	8
9.	7/16" Tensile Nut - Steel	MS20365-720C	4
10.	5/16" Bolt	AN5-34A	2
11.	Engine Mount (TRIKE ONLY)	KAPW0074	1
12.	Engine Ground Cable	KAES0023	1
13.	1/4" Bolt	AN4-7A	1
14.	1/4" Thin Washer	AN960-416L	1
15.	1/4" Shear Nut	AN364-428C	1



PRATT & WHITNEY S-21 OUTBOUND

TITAN X-340

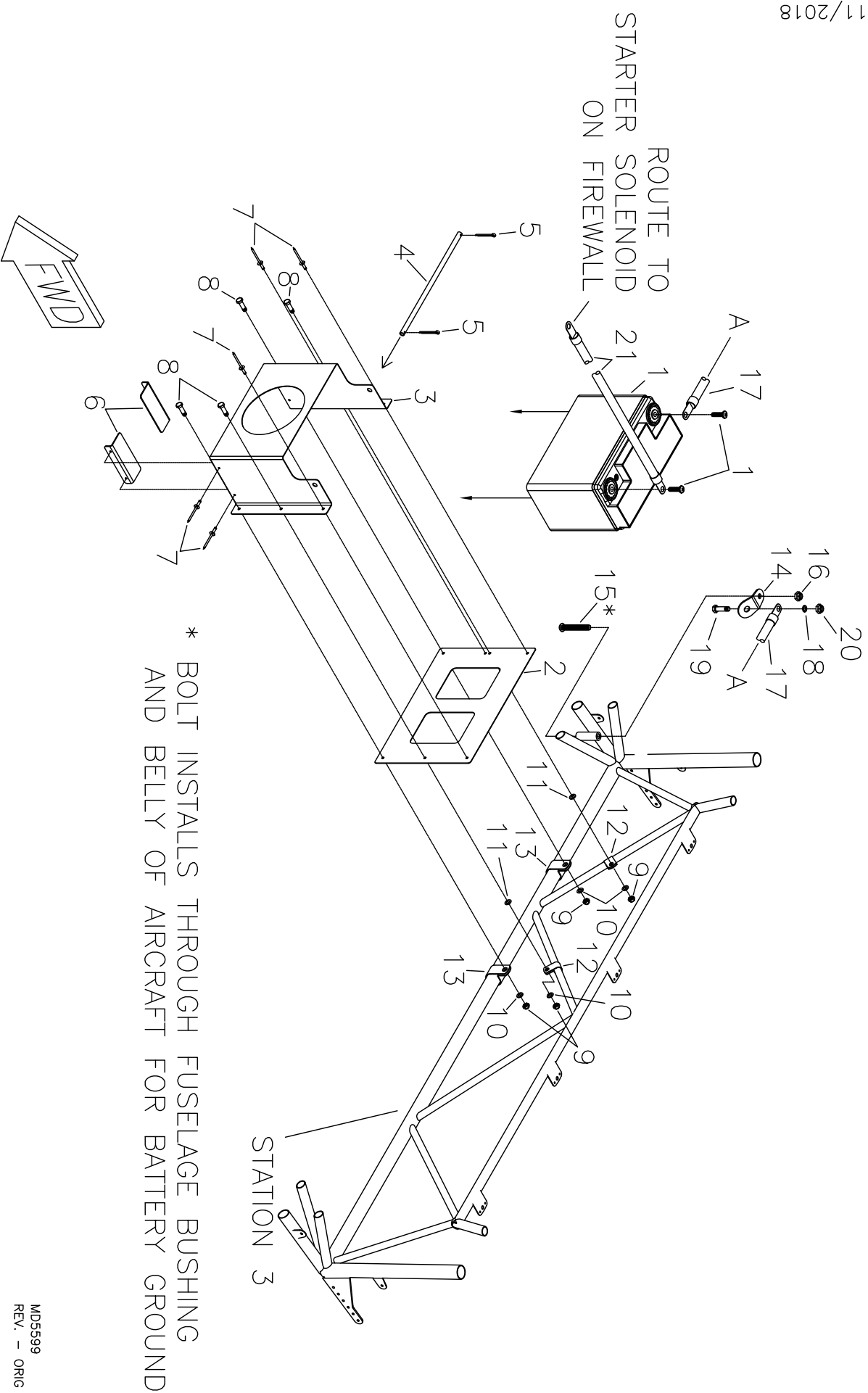
ENGINE ELECTRICAL ACCESSORY INSTALLATION

MD5135
REV. - ORIG

TITAN X-340 - ENGINE ELECTRICAL ACCESSORY INSTALLATION

#	DESCRIPTION	PART NUMBER	QUANTITY
1.	3/16" Shear Nut	AN364-1032A	22
2.	3/16" Thin Washer	AN960-10L	25
3.	Aluminum Bushing - 3/8" x .095" x .50" *	KPST0132	1
4.	3/16" Large Washer	AN970-3	8
5.	Starter Solenoid	KSPW0040	1
6.	3/16" Thick Washer	AN960-10	12
7.	3/16" Bolt	AN3-4A	2
8.	3/16" Bolt	AN3-10A	6
9.	3/16" Bolt	AN3-7A	4
10.	Aft Ignition Bracket Brace *	KPES0036	1
11.	Ignition Module Mount Plate *	KPES0033	1
12.	AFT Ignition Module Mount Bracket	KPES0035	1
13.	FWD Ignition Module Mount Bracket	KPES0034	1
14.	3/16" Bolt	AN3-5A	2
15.	Aluminum Bushing - 3/8" x .095" x .375" *	KPST0132	0
16.	3/16" Bolt	AN3-6A	4
17.	3/16" Bolt	AN3-11A	4
18.	3/4" Rubber Grommet	MS35489-11	4
19.	Solenoid / Starter Cable	KAES0025	1
20.	Switch - Ignition	KSES0027	1
21.	Aluminum Bushing - 3/8" x .095" x .187" *	KPST0132	0

* Builder Modifies



REDUCED S-21 OUTBOUND
TITAN X-340
BATTERY BOX ASSEMBLY AND INSTALLATION

RANS S-21 OUTBOUND

PAGE 011A-04 / TITAN340

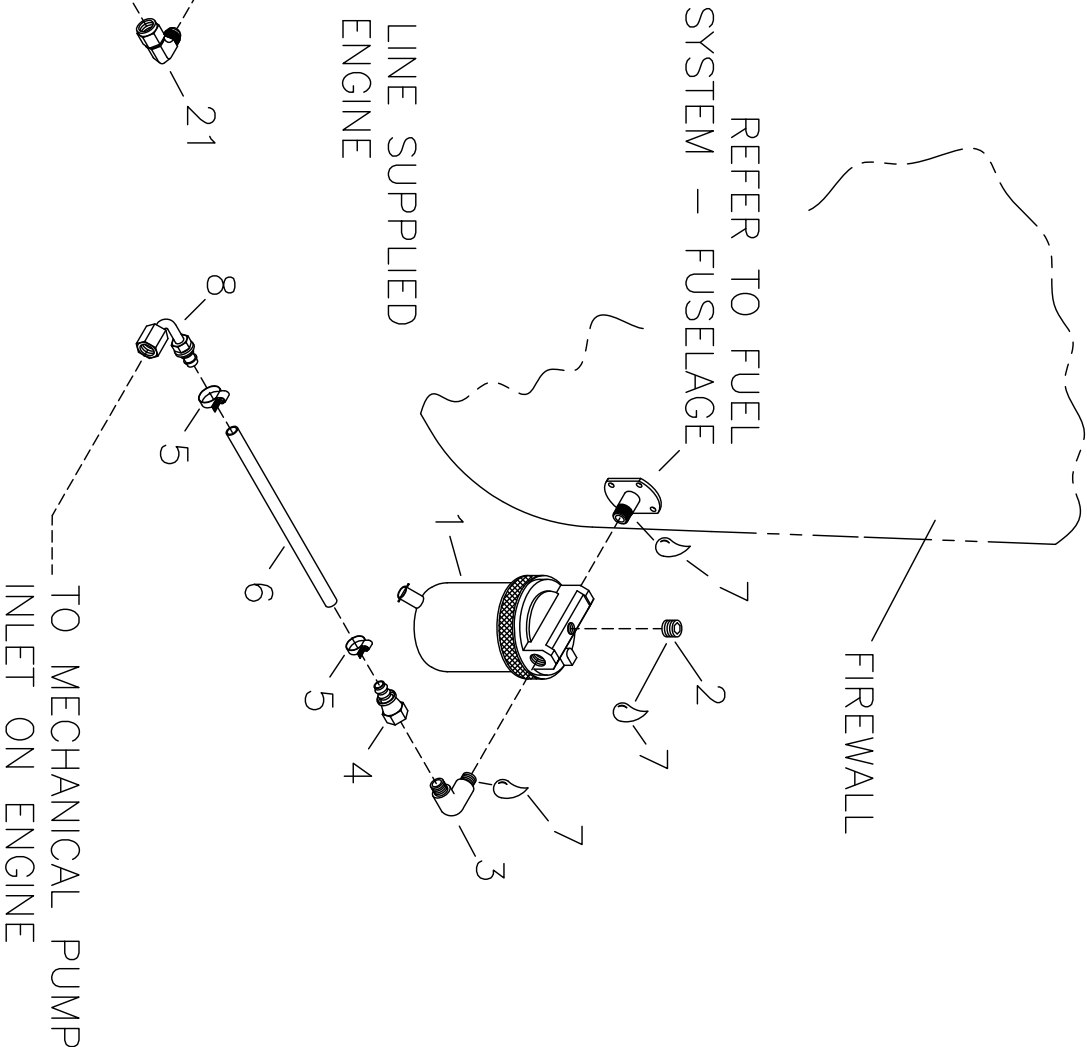
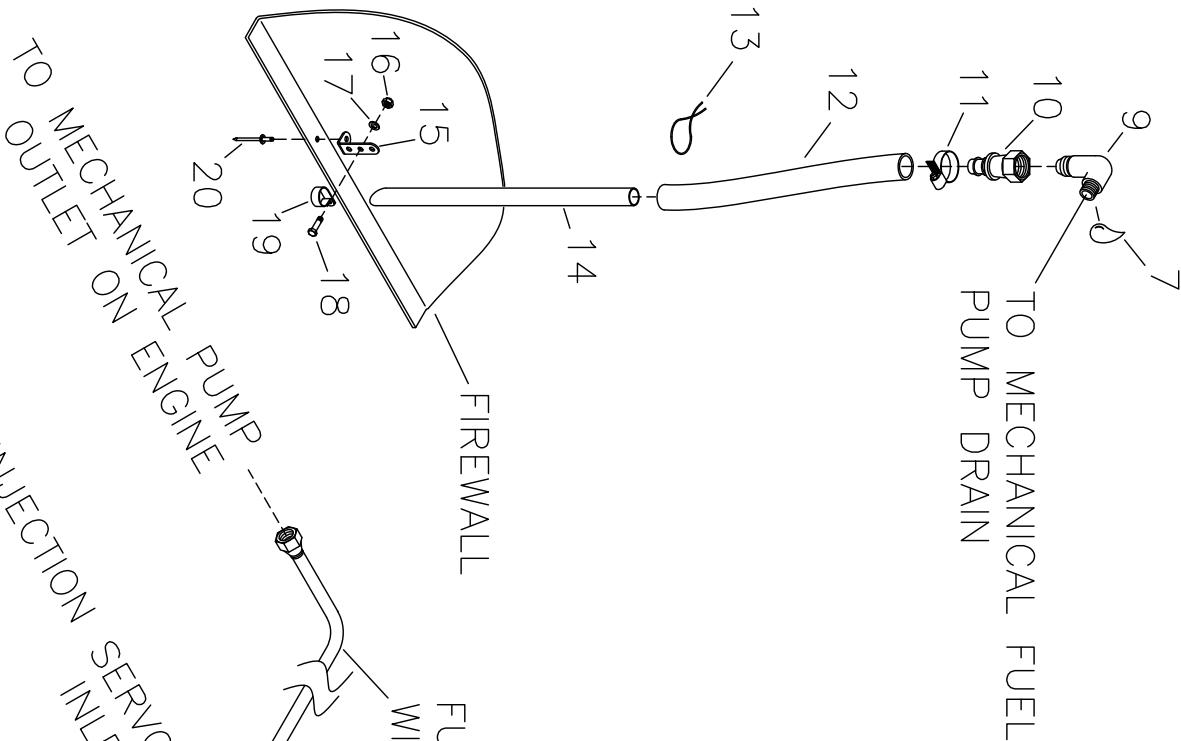
TITAN X-340 - BATTERY BOX ASSEMBLY & INSTALLATION

#	DESCRIPTION	PART NUMBER	QUANTITY
1.	Battery - Odyssey PC-545MJ *	KSPW0103	0
2.	Battery Mount Plate	KPES0038	1
3.	Battery Box Front Plate	KPES0037	1
4.	Battery Bar **	BAT-BAR-503/582	1
5.	Small Cotter Pin	MS24665-134	2
6.	Battery Box Support Angle	BAT-BOX-3	2
7.	1/8" Stainless Steel Rivet - Cherry Q	CCPQ-42	7
8.	3/16" Bolt	AN3-3A	4
9.	3/16" Shear Nut	AN364-1032A	4
10.	3/16" Thin Washer	AN960-10L	4
11.	3/16" Thick Washer	AN960-10	2
12.	3/8" Plain Clamp	AN742-D6	2
13.	5/8" Plain Clamp	AN742-D10	2
14.	Tang	FAT-4	1
15.	1/4" Pan Head Bolt	KSHW0113	1
16.	1/4" Shear Nut - Steel	AN364-428C	1
17.	Battery / Ground Cable	KAES0028	1
18.	5/16" Thick Washer	AN960-516	1
19.	5/16" Bolt	AN5-5A	1
20.	5/16" Shear Nut - Steel	AN364-524C	1
21.	Battery / Solenoid Cable	KAES0026	1

* May be purchased seperately, call RANS Parts Dept. for pricing

** Builder Modifies

9/11/2018
REV. - ORIG



MD4187
REV. - ORIG

REDUCED S-21 OUTBOUND
TITAN X-340

FUEL SYSTEM INSTALLATION - FIREWALL FORWARD

RANS S-21 OUTBOUND

PAGE 011B-02 / TITAN340

TITAN X-340 - FUEL SYSTEM - FIREWALL FORWARD

#	DESCRIPTION	PART NUMBER	QUANTITY
1.	Gascolator - High Pressure	KSPW0109	1
2.	1/8" Pipe Plug	PIPE-PLUG 1/8	1
3.	90 Degree Fitting	AN822-6D	1
4.	3/8" Hose Fitting	30682-6-6	1
5.	Hose Clamp - 7/8"	5-6203	2
6.	Black Fuel Line - 3/8"	27004	1.5 ft
7.	Thread Sealant *	-----	0
8.	90 Degree 3/8" Hose Fitting	33982-6-6	1
9.	90-degree Elbow - Flare 1/4" Tube to 1/8" NPT	AN822-4D	1
10.	1/4" Hose Fitting	30682-4-4	1
11.	Hose Clamp - 5/8"	5-6202	1
12.	Black Fuel Line - 1/4"	KSFS0002	1 ft
13.	Safety Wire *	-----	0
14.	Fuel Pump Drain Line, 1/4" x .028" x 5" Aluminum Tube **	KAAC0044-2	1
15.	Angle Bracket	KPAC0004	1
16.	3/16" Shear Nut	AN364-1032A	1
17.	3/16" Thin Washer	AN960-10L	1
18.	3/16" Bolt	AN3-3A	1
19.	1/4" Plain Clamp	AN742-D4	1
20.	3/16" Stainless Steel Rivet - Cherry Q	CCPQ-62	1
21.	90 Degree -6 AN Swivel Fitting	KSFS0041	1

* Builder Supplied

** Builder Modifies

9/11/2018

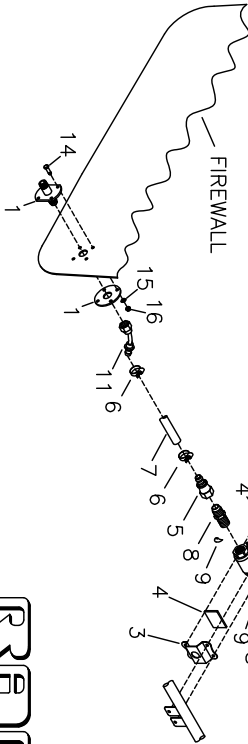
REV. - ORIG

REFER TO FUEL TANK INSTALLATION -
SECTION 006 -
FOR FUEL TANK FITTINGS



HEADER TANK

REFER TO ELECTRIC FUEL PUMP



RRR003 S-21 OUTBOUND
TITAN X-340
FUEL SYSTEM - FUSELAGE

MD4186
REV. - ORIG

RANS S-21 OUTBOUND

PAGE 011B-04 / TITAN340

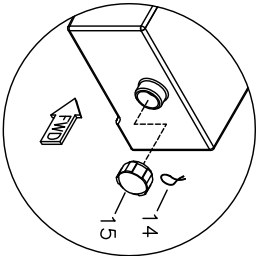
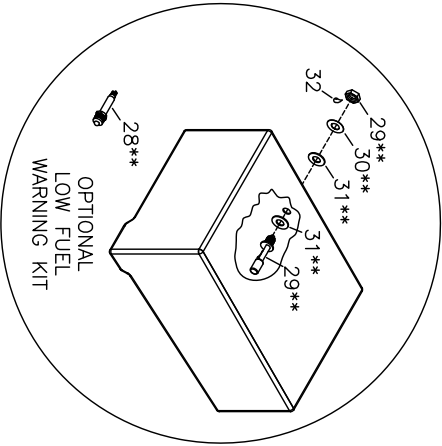
TITAN X-340 - FUEL SYSTEM - FUSELAGE

#	DESCRIPTION	PART NUMBER	QUANTITY
1.	Gascolator Mount - High Pressure	KSPW0110	1
2.	1/8" Aluminum Rivet - Cherry Q	AAPQ-42	4
3.	Fuel Valve Mount Bracket	KPFS0037	2
4.	Fuel Valve Silicone Pad *	KPFS0106	1
5.	3/8" Hose Fitting	30682-6-6	4
6.	Hose Clamp - 7/8"	5-6203	6
7.	Black Fuel Line - 3/8"	27004	3.5 ft
8.	Nipple - Flared Tube & Pipe Thread	AN816-6D	2
9.	Thread Sealant **	-----	0
10.	Fuel Valve	KSFS0018	1
11.	45 Degree Fitting	33782-6-6	2
12.	Plastic Tie - 7.5"	N-TIES	4
13.	90 Degree 3/8" Hose Fitting	33982-6-6	2
14.	3/16" Bolt	AN3-4A	4
15.	3/16" Thin Washer	AN960-10L	4
16.	3/16" Shear Nut	AN364-1032A	4

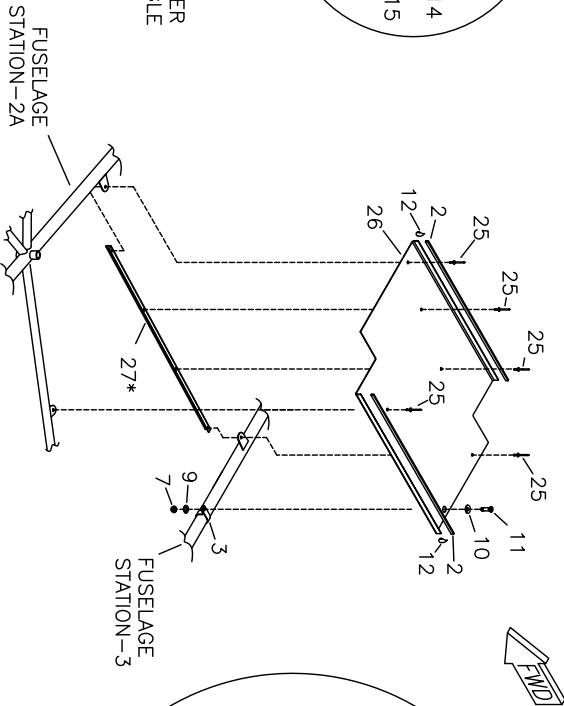
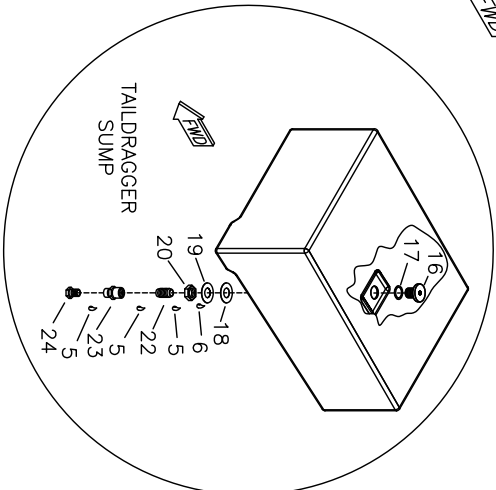
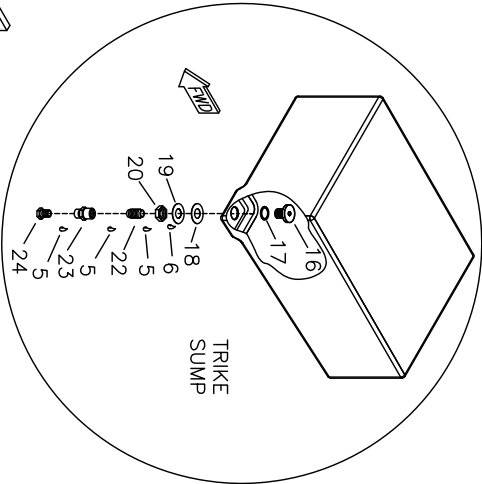
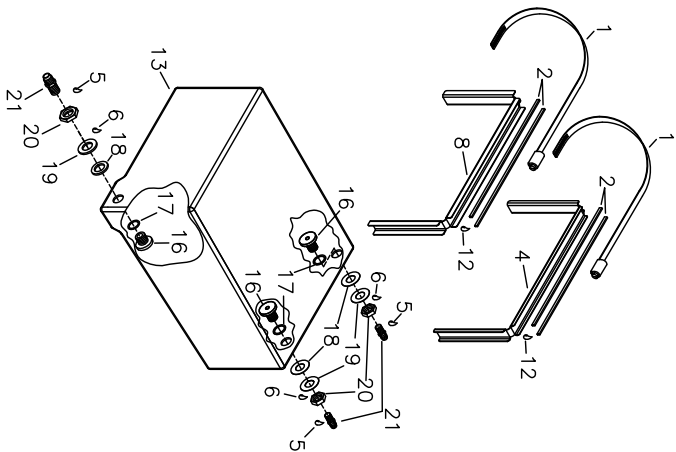
* Builder Supplied

** Builder Modifies

9/11/2018
REV. - ORIG



* NOTCH FUSELAGE BOTTOM SKIN STRINGER
TO CLEAR HEADER TANK SUPPORT ANGLE
** LOW FUEL WARNING KIT IS OPTIONAL



RRF S-21 OUTBOUND TITAN X-340 FUEL SYSTEM - HEADER TANK

RANS S-21 OUTBOUND

PAGE 011B-06 / TITAN340

TITAN X-340 - FUEL SYSTEM - HEADER TANK

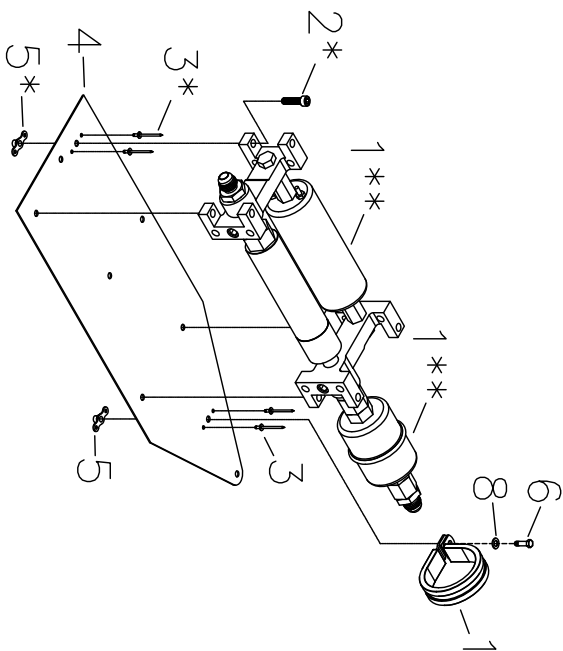
#	DESCRIPTION	PART NUMBER	QUANTITY
1.	15" Hose Clamp	KSHW0100	2
2.	Rubber Edging	8510K11	7 ft
3.	5/8" Plain Clamp	AN742-D10	1
4.	6.9 Gal. Header Tank Mount Channel - AFT	KPFS0110	1
5.	Thread Sealant *	-----	0
6.	Loctite Blue *	-----	0
7.	3/16" Shear Nut	AN364-1032A	1
8.	6.9 Gal. Header Tank Mount Channel - FWD	KPFS0111	1
9.	3/16" Thick Washer	AN960-10	1
10.	3/16" Countersunk Washer	NAS1169-10L	1
11.	3/16" Countersunk Machine Screw	MS24694-S50	1
12.	Adhesive - Superglue *	-----	0
13.	Header Tank - 6.9 Gal.	KPFS0103	1
14.	Safety Wire *	-----	0
15.	Fuel Cap	KSFS0007	1
16.	3/4" Bulkhead Fitting	KSFS0037	4
17.	O-Ring - 3/4" Bulkhead	KSFS0039	4
18.	Rubber Washer	KSFS0016	4
19.	3/4" Thick Washer	AN960-1216	4
20.	Nut - 3/4" Bulkhead - Reverse Thread	KSFS0038	4
21.	Nipple - Flared Tube & Pipe Thread	AN816-6D	3
22.	Close Nipple	KSFS0021	1
23.	Reducer	KSFS0022	1
24.	Flush Valve	KSFS0011	1
25.	1/8" Stainless Steel Rivet - Cherry Q	CCPQ-42	5
26.	6.9 Gal. Header Tank Mount	KPFS0109	1
27.	Header Tank Mount Angle	KPFU0758	1
28.	Red LED Indicator Light, 12V **	KSES0071	1
29.	Low Fuel Warning Switch **	KSES0072	1
30.	5/8" Thick Washer (AN960-1016) **	TW-5/8-W	1
31.	5/8" Rubber Washer **	KSFS0040	2
32.	DOW 730 Sealant *	-----	0

* Builder Supplied

** KAFS0003 - Low Fuel Warning Kit is Optional

9/11/2018

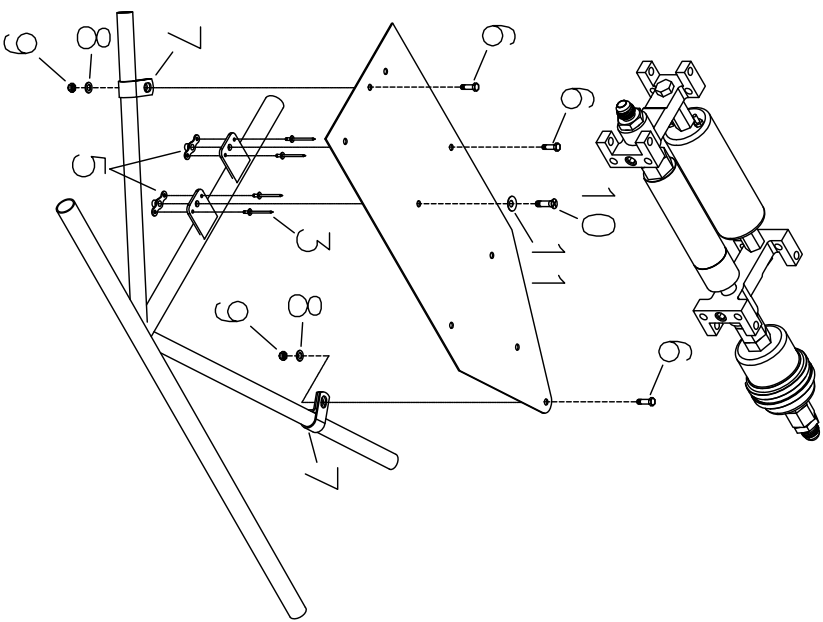
REV. - ORIG



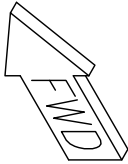
* TYPICAL FOR INSTALLING
PUMP TO MOUNT PLATE

** PUMP ASSEMBLED IN SHORT CONFIGURATION
PER DOCUMENTATION AT LINK BELOW.
<https://www.flyefii.com/products/boost-pump/installation-tips/>

PUMP TO MOUNT PLATE INSTALL



MOUNT PLATE TO FUSELAGE INSTALL
UNDER LEFT PILOT SEAT



RAMS S-21 OUTBOUND
TITAN X-340
FUEL SYSTEM – ELECTRIC FUEL PUMP

RANS S-21 OUTBOUND

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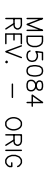
TITAN X-340 - FUEL SYSTEM - ELECTRIC FUEL PUMP

#	DESCRIPTION	PART NUMBER	QUANTITY
1.	Electric Fuel Pump - High Pressure	KSPW0104	1
2.	3/16" Socket Head Cap Screw	KSHW0111	4
3.	3/32" Aluminum Rivet	40APR1/8	14
4.	Fuel Pump Mounting Plate	KPFS0116	1
5.	3/16" Nut Plate	K-1000-3	7
6.	3/16" Bolt	AN3-3A	4
7.	1/2" Non-Cushion Clamp	AN742-D8	2
8.	3/16" Thin Washer	AN960-10L	3
9.	3/16" Shear Nut	AN364-1032A	2
10.	3/16" Countersunk Machine Screw	MS24694-S50	1
11.	3/16" Countersunk Washer	NAS1169-10L	1

**** BUILDER CUTS TO LENGTH.**

REFER TO ENGINE ELECTRICAL
ACCESSORY INSTALLATION

REFER TO ENGINE ELECTRICAL
ACCESSORY INSTALLATION



RIGHT S-21 OUTBOUND
TITAN X-340
BAFFLE - RIGHT INSTALLATION

RANS S-21 OUTBOUND

PAGE 011C-02 / TITAN340

TITAN X-340 - BAFFLE - RIGHT INSTALLATION

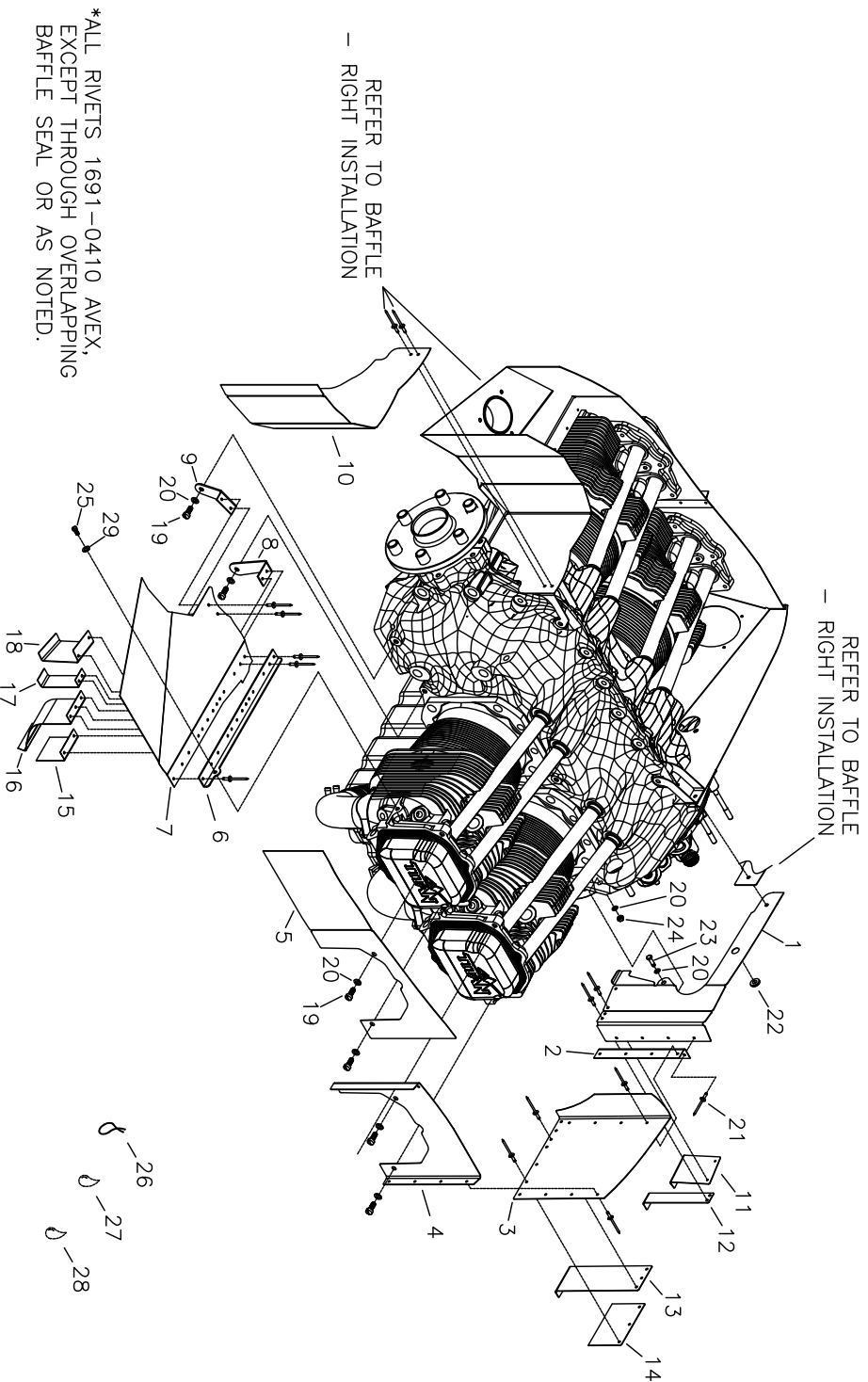
#	DESCRIPTION	PART NUMBER	QUANTITY
1.	Cooling Baffle - AFT - Support Bracket	KPPW0326-8	1
2.	Cooling Baffle - AFT - Right	KPPW0326-5	1
3.	Cooling Baffle - Side - Right - AFT	KPPW0326-3	1
4.	Cooling Baffle - Side - Right - FWD	KPPW0326-4	1
5.	Cooling Baffle - Support Angle - Right - FWD	KPPW0326-18	1
6.	Cooling Baffle - FWD - Support Bracket	KPPW0326-11	1
7.	Cooling Baffle - FWD - Right	KPPW0326-12	1
8.	Cooling Baffle - Inlet Floor - Right	KPPW0326-10	1
9.	Cooling Baffle - Inlet Floor - Reinforcement	KPPW0326-9	1
10.	Cooling Baffle - Outer Cylinder Plate - FWD	KPPW0326-19	1
11.	Cooling Baffle - Inner Cylinder Plate - FWD	KPPW0326-20	1
12.	Cooling Baffle - Outer Barrel Plate - FWD	KPPW0326-22	1
13.	Cooling Baffle - Inner Barrel Plate - RH	KPPW0326-21R	1
14.	3/16" Bolt	AN3-4A	1
15.	3/16" Thin Washer	AN960-10L	1
16.	3/16" Shear Nut	AN364-1032A	1
17.	Cooling Baffle - Outer Barrel Plate - AFT	KPPW0326-24	1
18.	Cooling Baffle - Inner Cylinder Plate - AFT	KPPW0326-25	1
19.	1/4" Course Thread Screw	KSHW0103	7
20.	1/4" Thin Washer	AN960-416L	7
21.	1/8" Aluminum Rivet - Avex	1691-0410	130
22.	1/4" Thick Washer	AN960-416	4
23.	Cooling Baffle - Outer Barrel Plate - AFT	KPPW0326-26	1
24.	Cooling Baffle - Inner Barrel Plate - LH	KPPW0326-21L	1
25.	Cooling Baffle - Inner Barrel Plate - Mount	KPPW0326-28	1
26.	Inlet Support Angle *	KPPW0326-30	1
27.	Baffle Seal Material *	KPPW0328	13.5 ft
28.	Rubber Grommet	MS35489-6	1
29.	8-32 Bolt	KSHW0102	1
30.	Flange - 3 inch	KSPW0043	1
31.	Aluminum Fabric Rivet	ABL4-2AV	6
32.	Cabin Heat Inlet	KPPW0324	1
33.	Safety Wire **	-----	0
34.	Loctite Blue **	-----	0
35.	Silicone Seal - High Temp - Red **	-----	0
36.	3/16" Aluminum Rivet - Cherry Q	AAPQ-62	3
37.	Cooling Baffle - Outer Cylinder Plate - AFT	KPPW0326-31	1
38.	1/4" Shear Nut	AN364-428A	2
39.	6/32 Loc Washer	6/32 LOC WASHER	1
40.	1/4" Bolt	AN4-16A	2
41.	Baffle Seal Capture Strip	KPPW0343	4
42.	1/8" Aluminum Rivet - Cherry Q	AAPQ-44	6

* Builder Modifies

** Builder Supplied

9/11/2018

REV. - ORIG



*ALL RIVETS 1691-0410 AVEX,
EXCEPT THROUGH OVERLAPPING
BAFFLE SEAL OR AS NOTED.

RAND S-21 OUTBOUND
TITAN X-340
BAFFLE - LEFT INSTALLATION

MD5084
REV. - ORIGINAL

RANS S-21 OUTBOUND

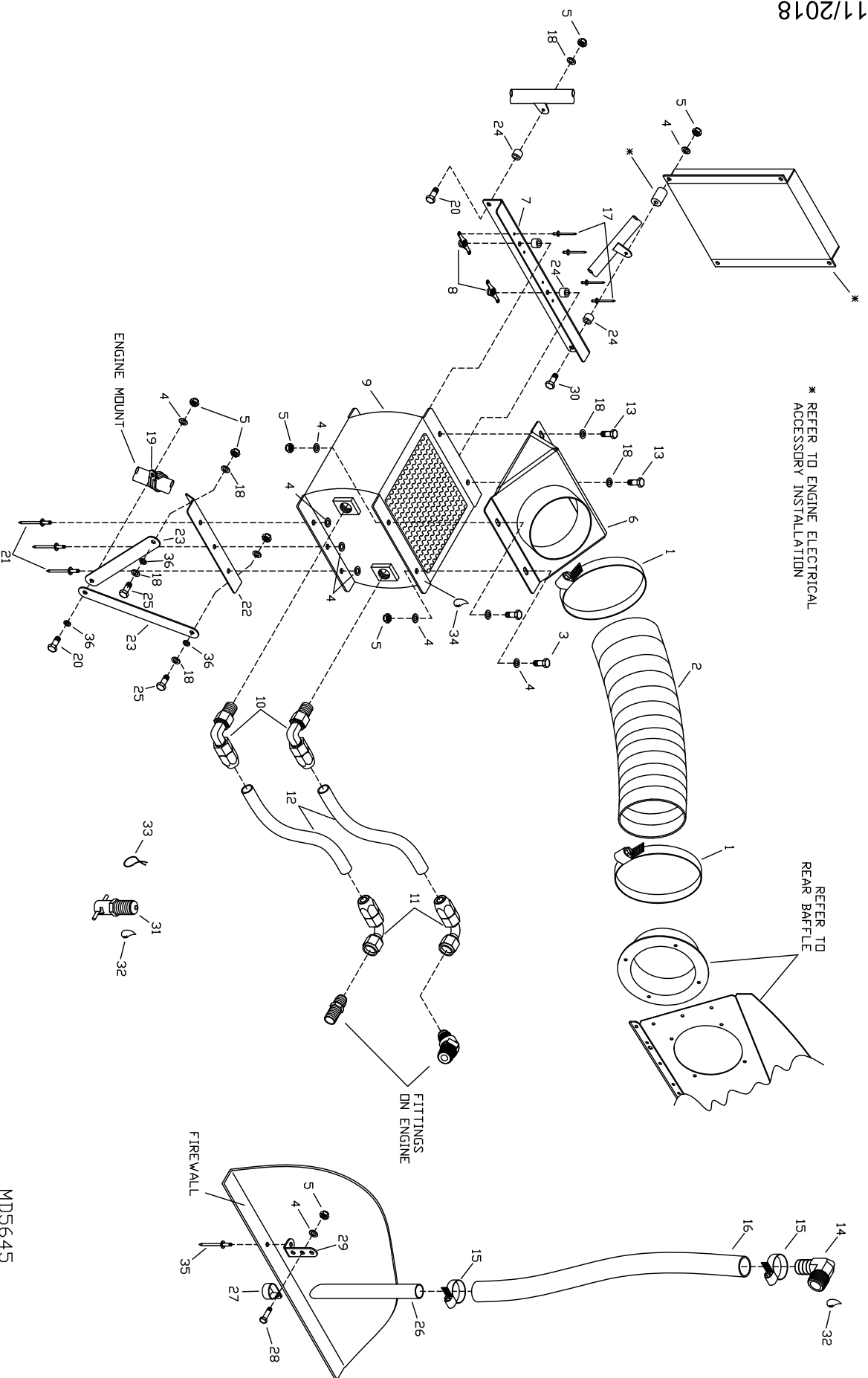
PAGE 011C-04 / TITAN340

TITAN X-340 - BAFFLE - LEFT INSTALLATION

#	DESCRIPTION	PART NUMBER	QUANTITY
1.	Cooling Baffle - AFT- Inner Left	KPPW0326-7	1
2.	Cooling Baffle - AFT Support Angle	KPPW0326-29	1
3.	Cooling Baffle - AFT - Outer Left	KPPW0326-6	1
4.	Cooling Baffle - Side - Left - AFT	KPPW0326-1	1
5.	Cooling Baffle - Side - Left - FWD	KPPW0326-2	1
6.	Cooling Baffle - Support Angle - Left - FWD	KPPW0326-14	1
7.	Cooling Baffle - Inlet Floor - Left	KPPW0326-13	1
8.	Cooling Baffle - Support Angle - Left - AFT	KPPW0326-15	1
9.	Cooling Baffle - Support Angle - Left - FWD	KPPW0326-17	1
10.	Cooling Baffle - FWD - Left	KPPW0326-16	1
11.	Cooling Baffle - Inner Barrel Plate - AFT	KPPW0326-27	1
12.	Cooling Baffle - Outer Barrel Plate - AFT	KPPW0326-26	1
13.	Cooling Baffle - Inner Cylinder Plate - AFT	KPPW0326-25	1
14.	Cooling Baffle - Outer Barrel Plate - AFT	KPPW0326-24	1
15.	Cooling Baffle - Outer Cylinder Plate - AFT	KPPW0326-23	1
16.	Cooling Baffle - Inner Cylinder Plate - FWD	KPPW0326-20	1
17.	Cooling Baffle - Outer Barrel Plate - FWD	KPPW0326-22	1
18.	Cooling Baffle - Inner Barrel Plate - LH	KPPW0326-21L	1
19.	1/4" Course Thread Screw	KSHW0103	6
20.	1/4" Thin Washer	AN960-416L	8
21.	1/8" Aluminum Rivet - Avex	1691-0410	52
22.	Rubber Grommet	MS35489-6	1
23.	1/4" Bolt	AN4-6A	1
24.	1/4" Shear Nut	AN364-428A	1
25.	8-32 Bolt	KSHW0102	1
26.	Safety Wire *	-----	0
27.	Loctite Blue *	-----	0
28.	Silicone Seal - High Temp - Red *	-----	0
29.	6/32" Loc Washer	6/32 LOC WASHER	1

* Builder Supplied

9/11/2018
REV. - ORIG



RRR S-21 OUTBOUND TITAN X-340 LUBRICATION SYSTEM INSTALLATION

MD5645
REV. - ORIG

TITAN X-340 - LUBRICATION SYSTEM ASSEMBLY & INSTALLATION

#	DESCRIPTION	PART NUMBER	QUANTITY
1.	Hose Clamp - 3 1/2	5-5248	2
2.	Hose - 3"	KPPW0155	18 in
3.	3/16" Bolt	AN3-4A	2
4.	3/16" Thin Washer	AN960-10L	10
5.	3/16" Shear Nut	AN364-1032A	8
6.	Oil Cooler Duct	KPPW0327	1
7.	Oil Cooler Mount Angle	KPPW0325	1
8.	3/16" Nut Plate	K-1000-3	2
9.	Oil Cooler	KSPW0105	1
10.	90-degree Fitting - 3/8" NPT x -8AN	KSPW0107	2
11.	90-degree Fitting	KSPW0102	2
12.	Oil Line - Nomex - 1/2"	KSPW0100	4 ft
13.	3/16" Bolt	AN3-7A	2
14.	5/8" Hose x 1/2" Male NPT 90° Elbow Barb	KSPW0098	1
15.	Hose Clamp - 1"	5-5210	2
16.	Oil Line - 5/8"	KSPW0117	2 ft
17.	3/32" Aluminum Rivet	40APR1/8	4
18.	3/16" Thick Washer	AN960-10	7
19.	3/4" Cushion Clamp	MS21919-DG12	1
20.	3/16" Bolt	AN3-6A	2
21.	3/16" Stainless Steel Rivet - Cherry Q	CCPQ-64	3
22.	FWD Oil Cooler Support	KPPW0331	1
23.	Mount Bracket - Radiator *	KPAC0174	2
24.	Spacer Bushing, 3/8" x .095" x .30" *	KPAC0060	1
25.	3/16" Bolt	AN3-5A	4
26.	Engine Breather Vent Tube	KPPW0332	1
27.	5/8" Plain Clamp	AN742-D10	1
28.	3/16" Bolt	AN3-3A	1
29.	Angle Bracket	KPAC0004	1
30.	3/16" Bolt	AN3-13A	1
31.	Oil Drain Valve	KSPW0114	1
32.	Thread Sealant **	-----	0
33.	Safety Wire **	-----	0
34.	Silicone Seal - High Temp - Red **	-----	0
35.	3/16" Stainless Steel Rivet - Cherry Q	CCPQ-62	1
36.	Spacer Bushing, 1/4" x .028" x .125" *	KAAC0044-2	0

* Builder Modifies

** Builder Supplied

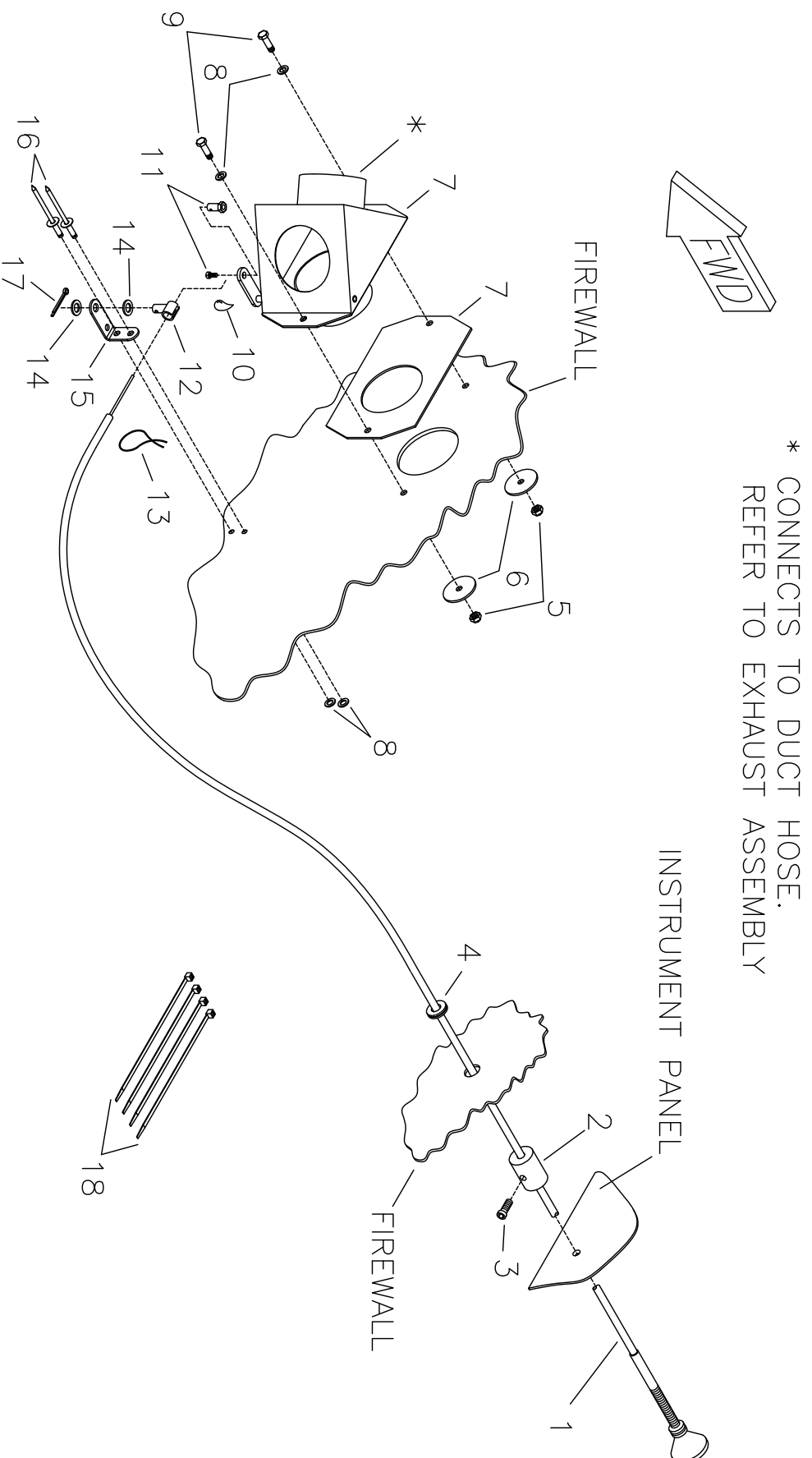


RANS S-21 OUTBOUND

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TITAN X-340 - CROSS-OVER EXHAUST ASSEMBLY

#	DESCRIPTION	PART NUMBER	QUANTITY
1 .	Titan X-340 Cross-over Exhaust Assembly	KSEX0016	1
2 .	2" Duct Hose	KPSY0046	5.5 ft
3 .	Hose Clamp - 2 1/4"	5-5228	4



**REDIRECT S-21 OUTBOUND
TITAN X-340
CABIN HEATER INSTALLATION**

RANS S-21 OUTBOUND

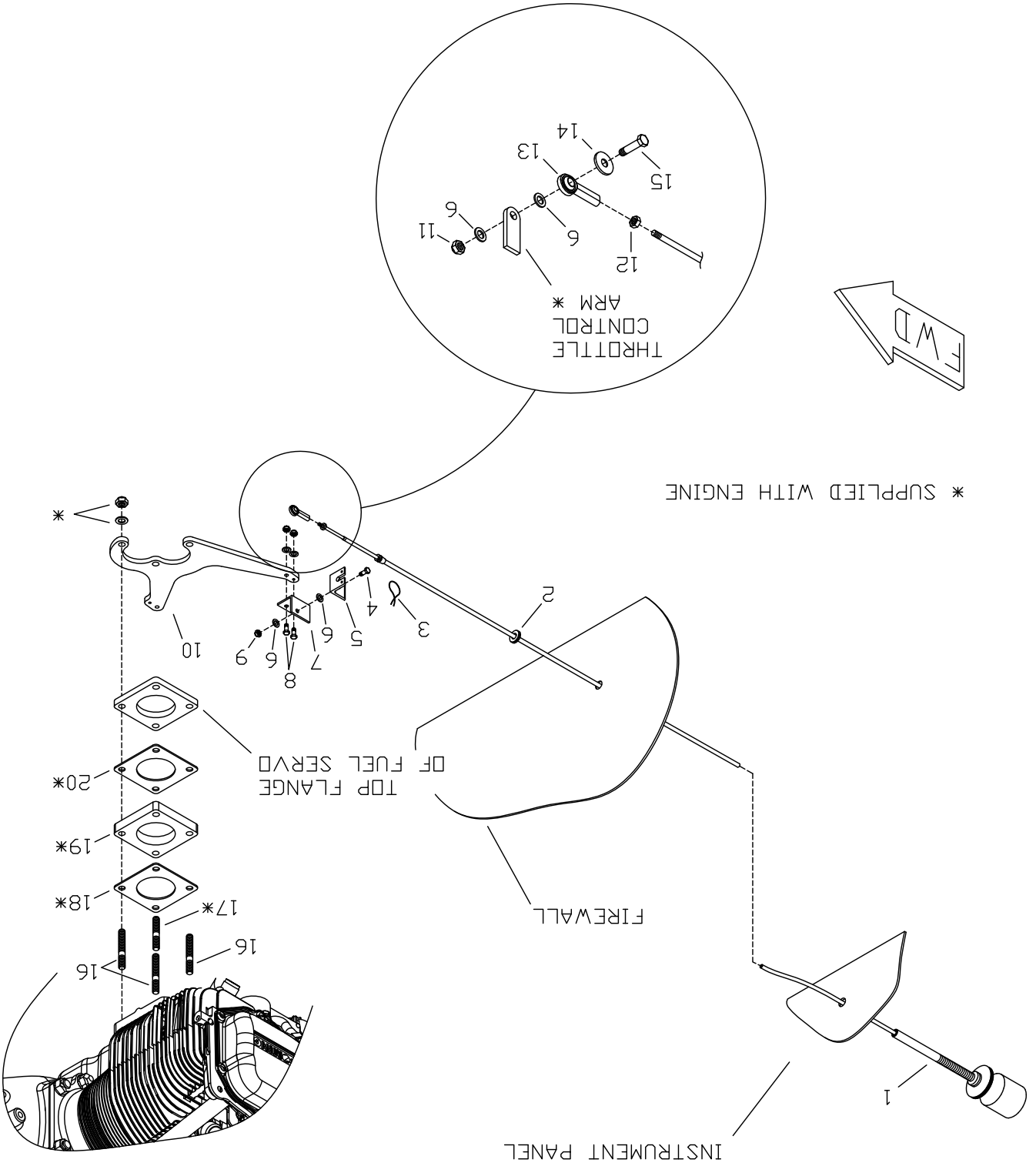
PAGE 011E-04 / TITAN340

TITAN X-340 - CABIN HEATER INSTALLATION

#	DESCRIPTION	PART NUMBER	QUANTITY
1.	Control Cable	4-336	1
2.	Cable Friction Block	T-STOP	1
3.	Socket Head Cap Screw	T-SC	1
4.	3/16" Rubber Grommet	KSAC0002	1
5.	3/16" Shear Nut	AN364-1032A	2
6.	3/16" Large Washer	AN970-3	2
7.	Heater Tri-Box	KSSY0005	1
8.	3/16" Thin Washer	AN960-10L	4
9.	3/16" Bolt	AN3-3A	2
10.	Loctite Blue *	-----	0
11.	Cable Swivel Stop & Screw	2361	1
12.	Cable Housing Swivel Stop	KPBS0009	1
13.	Safety Wire *	-----	0
14.	1/4" Thick Washer	AN960-416	2
15.	Cable Housing Swivel Stop Bracket	KPBS0010	1
16.	3/16" Stainless Steel Rivet - Cherry Q	CCPQ-62	2
17.	Small Cotter Pin	MS24665-134	1
18.	Plastic Tie - 7.5"	N-TIES	4

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RPN S-21 OUTBOUND TITAN X-340 THROTTLE ASSEMBLY

RANS S-21 OUTBOUND

TITAN X-340 - THROTTLE ASSEMBLY

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#	DESCRIPTION	PART NUMBER	QUANTITY
1.	Throttle Control Cable	KSCS0028	1
2.	3/16" Rubber Grommet	KSAC0002	1
3.	Safety Wire *	-----	0
4.	3/16" Bolt	AN3-4A	1
5.	Teleflex Retainer	W-TEL-R	1
6.	3/16" Thin Washer	AN960-10L	6
7.	Retainer Angle - 1" x 1" x 1.25" **	KPPW0341	1
8.	3/16" Bolt	AN3-5A	2
9.	3/16" Shear Nut	AN364-1032A	3
10.	Throttle / Mixture Control Mount	KPPW0340	1
11.	3/16" Shear Nut - Steel	AN364-1032C	1
12.	3/16" Plain Nut	AN345-10	1
13.	Female Rod End	NF-3	1
14.	#10 Washer - Stainless Steel	BSHW0022	1
15.	3/16" Bolt	AN3-7A	1
16.	Fuel Servo Mount Stud - Longer	KSHW0114	3
17.	Fuel Servo Mount Stud - Long ***	-----	0
18.	Gasket ***	-----	0
19.	Fuel Servo Spacer ***	-----	0
20.	Gasket ***	-----	0

* Builder Supplied

** Builder Modifies

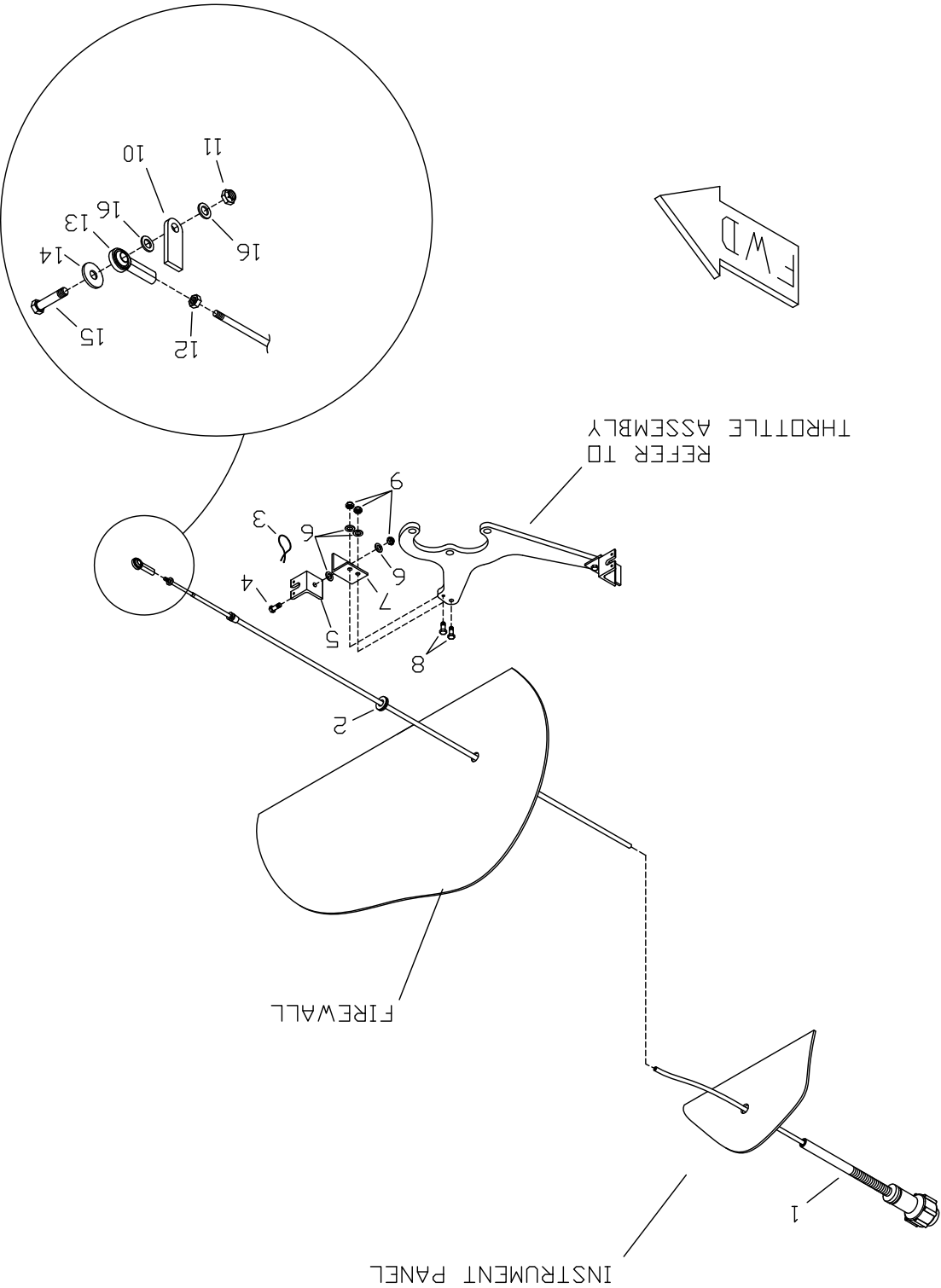
*** Supplied with Engine

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RMS S-21 OUTBOUND TITAN X-340 MIXTURE CONTROL ASSEMBLY

MDS645
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RANS S-21 OUTBOUND

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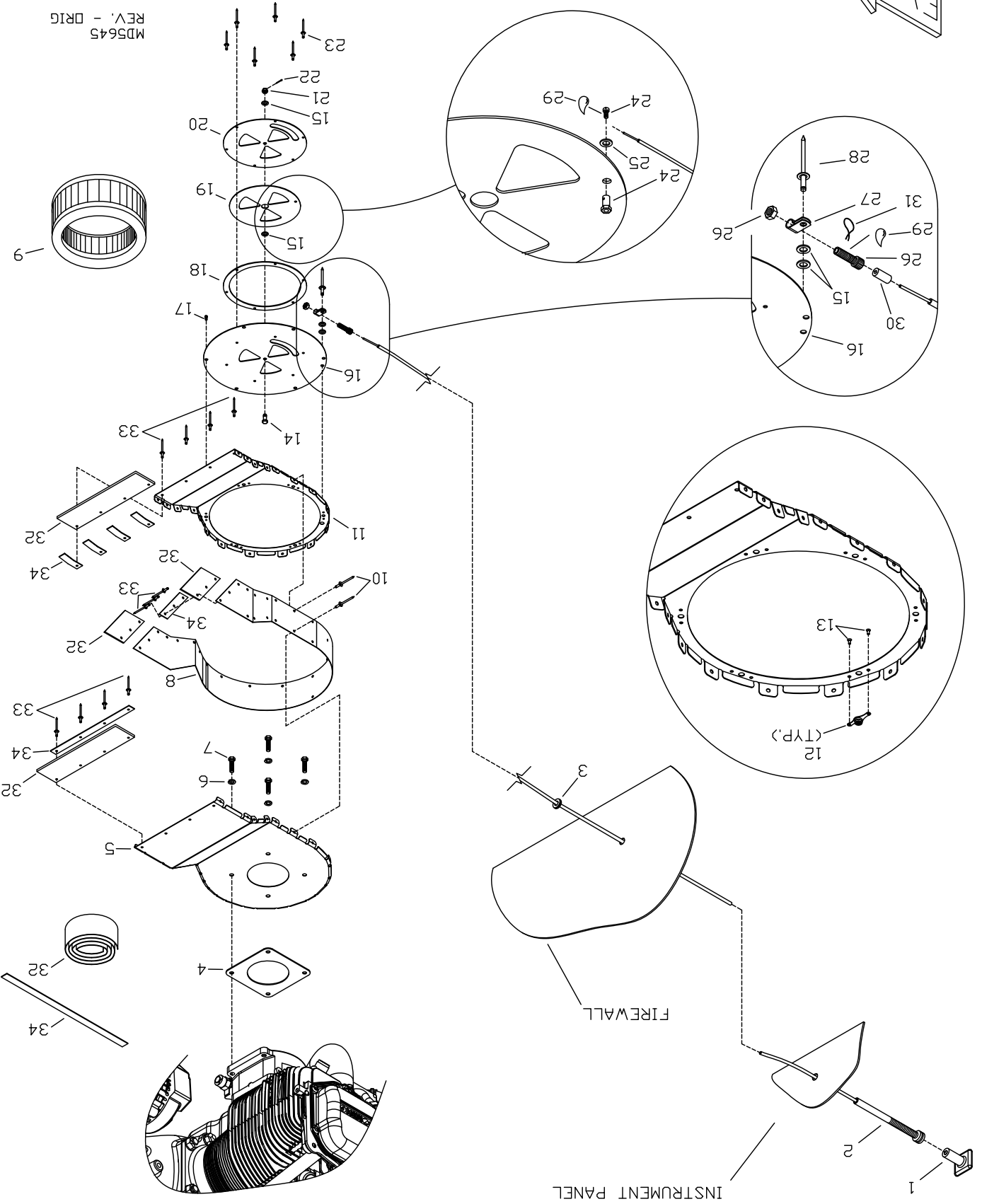
TITAN X-340 - MIXTURE CONTROL ASSEMBLY

#	DESCRIPTION	PART NUMBER	QUANTITY
1.	Mixture Control Cable	KSCS0029	1
2.	3/16" Rubber Grommet	KSAC0002	1
3.	Safety Wire *	-----	0
4.	3/16" Bolt	AN3-4A	1
5.	Teleflex Retainer	W-TEL-R	1
6.	3/16" Thin Washer	AN960-10L	4
7.	Retainer Angle - 1" x 1" x 1.25" **	KPPW0341	0
8.	3/16" Bolt	AN3-5A	2
9.	3/16" Shear Nut	AN364-1032A	3
10.	Mixture Control Arm	KSPW0116	1
11.	3/16" Shear Nut - Steel	AN364-1032C	1
12.	3/16" Plain Nut	AN345-10	1
13.	Female Rod End	NF-3	1
14.	#10 Washer - Stainless Steel	BSHW0022	1
15.	3/16" Bolt	AN3-10A	1
16.	3/16" Thick Washer	AN960-10	2

* Builder Supplied

** Builder Modifies

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RRM S-21 OUTBOUND TITAN X-340 AIRBOX ASSEMBLY

RANS S-21 OUTBOUND

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TITAN X-340 - AIRBOX ASSEMBLY

#	DESCRIPTION	PART NUMBER	QUANTITY
1.	Alternate Air Knob	KSCS0032	1
2.	Alternate Air Control Cable Assembly	KSCS0030	1
3.	3/16" Rubber Grommet	KSAC0002	1
4.	Gasket *	-----	0
5.	Airbox Top	KPPW0333	1
6.	1/4" Loc Washer	AN935-416L	4
7.	1/4" Hex Head Cap Screw - course x .75"	KSHW0069	4
8.	Airbox Side	KPPW0337	1
9.	Air Filter	KSPW0113	1
10.	1/8" Aluminum Rivet - Cherry Q	AAPQ-41	38
11.	Airbox Bottom	KPPW0334	1
12.	8-32 Nut Plate	MS21047-08	6
13.	3/32" Solid Rivet - Flush	AN426AD-3-5	12
14.	3/16" Bolt - Drilled Shank	AN3-4	1
15.	3/16" Thick Washer	AN960-10	4
16.	Airbox Filter Cover	KPPW0335	1
17.	8-32 Machine Screw	AN526-832R6	6
18.	Alternate Air Spacer Ring	KPPW0336	1
19.	Alternate Air Valve	KPPW0339	1
20.	Alternate Air Valve Retainer	KPPW0338	1
21.	3/16" Castle Nut	AN310-3	1
22.	Small Cotter Pin	MS24665-134	1
23.	1/8" Aluminum Rivet - Cherry Q	AAPQ-42	6
24.	Cable Swivel Stop & Screw	2361	1
25.	1/4" Thin Washer	AN960-416L	1
26.	Adjustable Cable Ferrule	12553	1
27.	1/4" Plain Clamp	AN742-D4	1
28.	3/16" Aluminum Rivet - Cherry Q	AAPQ-64	1
29.	Loctite Blue **	-----	0
30.	Cable Housing Endcap	ENDCAP-12000	1
31.	Safety Wire **	-----	0
32.	Baffle Seal Material ***	KPPW0328	0
33.	1/8" Aluminum Rivet - Avex	1691-0410	14
34.	Baffle Seal Capture Strip ***	KPPW0343	0

*Supplied with Injector Fuel Servo

** Builder Supplied

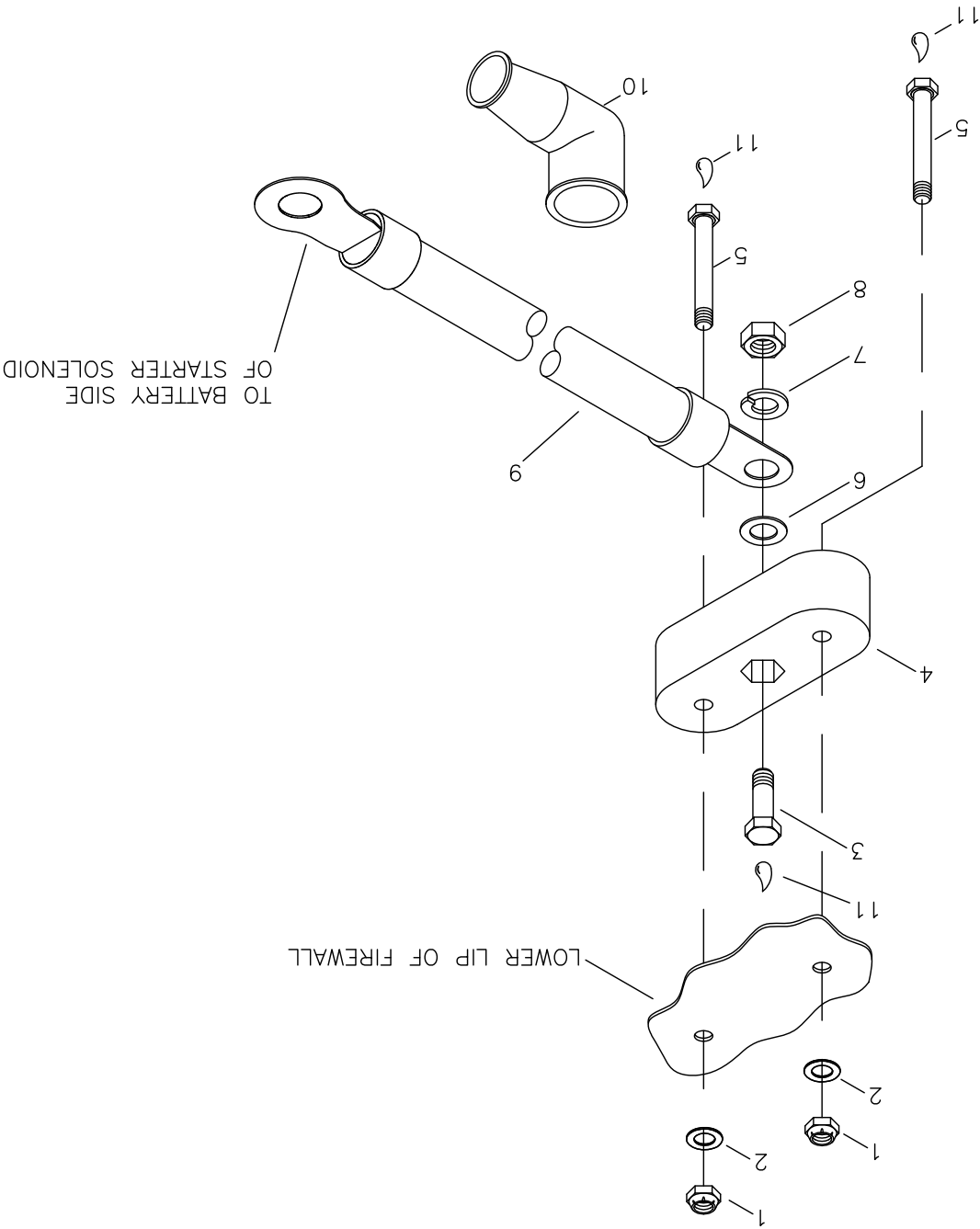
*** Builder Modifies

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OPTIONS - REMOTE CHARGING POST INSTALLATION
TITAN X-340
RAMP S-21 OUTBOUND

MD5501
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RANS S-21 OUTBOUND

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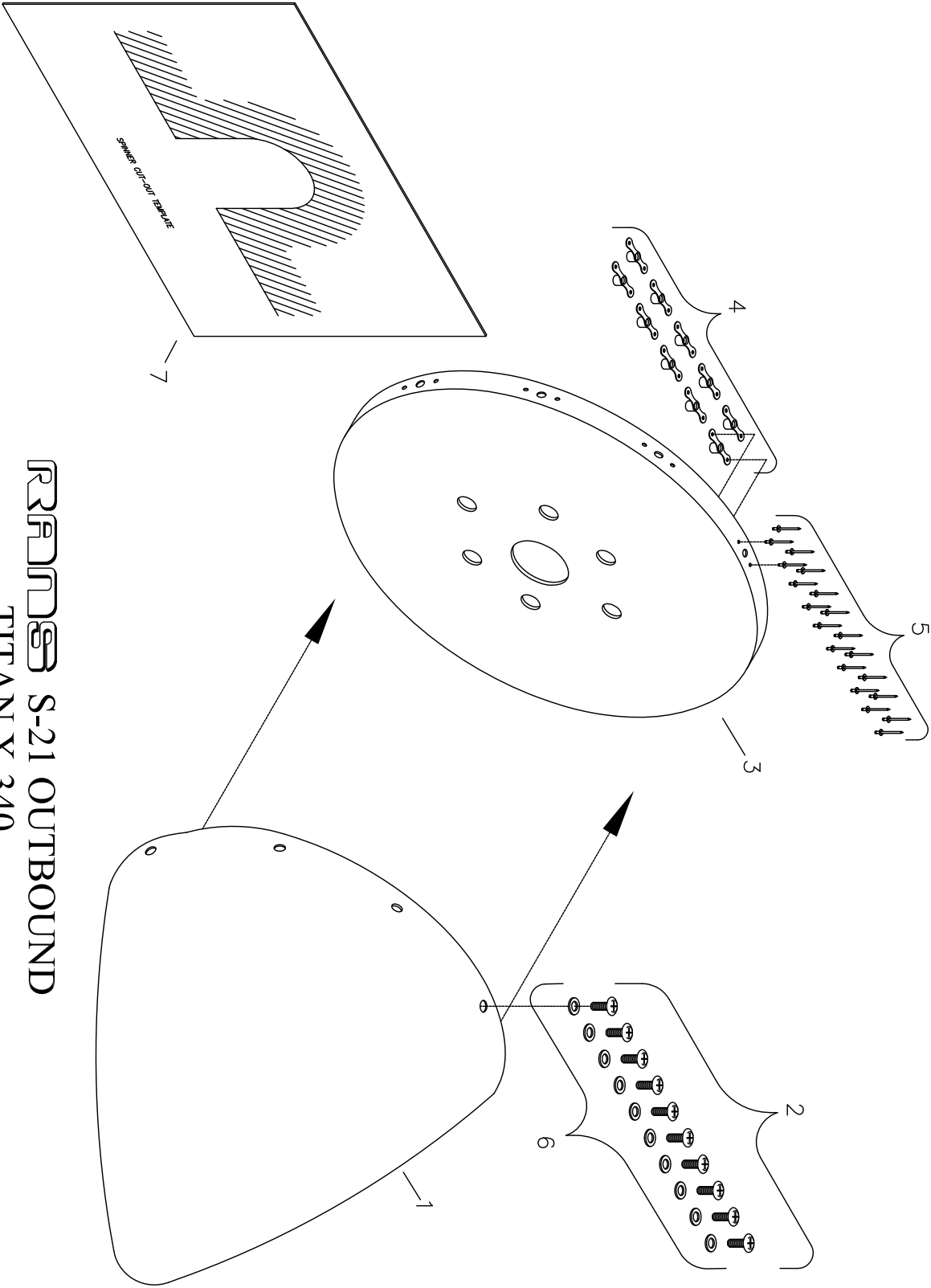
TITAN X-340 - OPTIONAL REMOTE CHARGING POST

#	DESCRIPTION	PART NUMBER	QUANTITY
1.	3/16" Shear Nut - Steel	AN364-1032C	2
2.	3/16" Thin Washer	AN960-10L	2
3.	1/4" Plain Bolt	1/4 X 1 BOLT	1
4.	Isolator Block	KPES0026	1
5.	3/16" Bolt	AN3-7A	2
6.	1/4" Thick Washer	AN960-416	1
7.	1/4" Loc Washer	AN935-416L	1
8.	1/4" Plain Nut	AN345-416	1
9.	Remote Battery Charger Cable	KAES0023	1
10.	Terminal Boot	MS25171-3S	1
11.	Silicone Seal *	-----	0

* Builder Supplied

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NOTE: PROP EXTENSION REQUIRED.
REFER TO PROPELLER INSTALLATION



**REPAIR S-21 OUTBOUND
TITAN X-340
13" SPINNER ASSEMBLY**

RANS S-21 OUTBOUND

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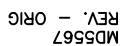
TITAN X-340 - 13" SPINNER ASSEMBLY

KAPR0001

#	DESCRIPTION	PART NUMBER	QUANTITY
1.	Spinner Dome - 13"	KPPW0232	1
2.	Pan Head Phillips Bolt (5/8" long)	KSHW0071	10
3.	Spinner Backing Plate - 13" (SAE#2)	KPPW0305	1
4.	3/16" Nut Plate	K-1000-3	10
5.	3/32" Aluminum Rivet	40APR1/4	20
6.	3/16" Thin Washer	AN960-10L	10
7.	Spinner Cut-out Template *	-----	0

* Refer to Figures Manual for Spinner Cut-out Template

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*** IMPORTANT:**
INSTALLATION OF COWLING
REQUIRES BOOT COWL,
ENGINE, STARTER RING,
PROP EXTENSION AND
SPINNER BACKING PLATE
TO BE INSTALLED.

RANS S-21 OUTBOUND

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TITAN X-340 - COWLING ASSEMBLY & INSTALLATION

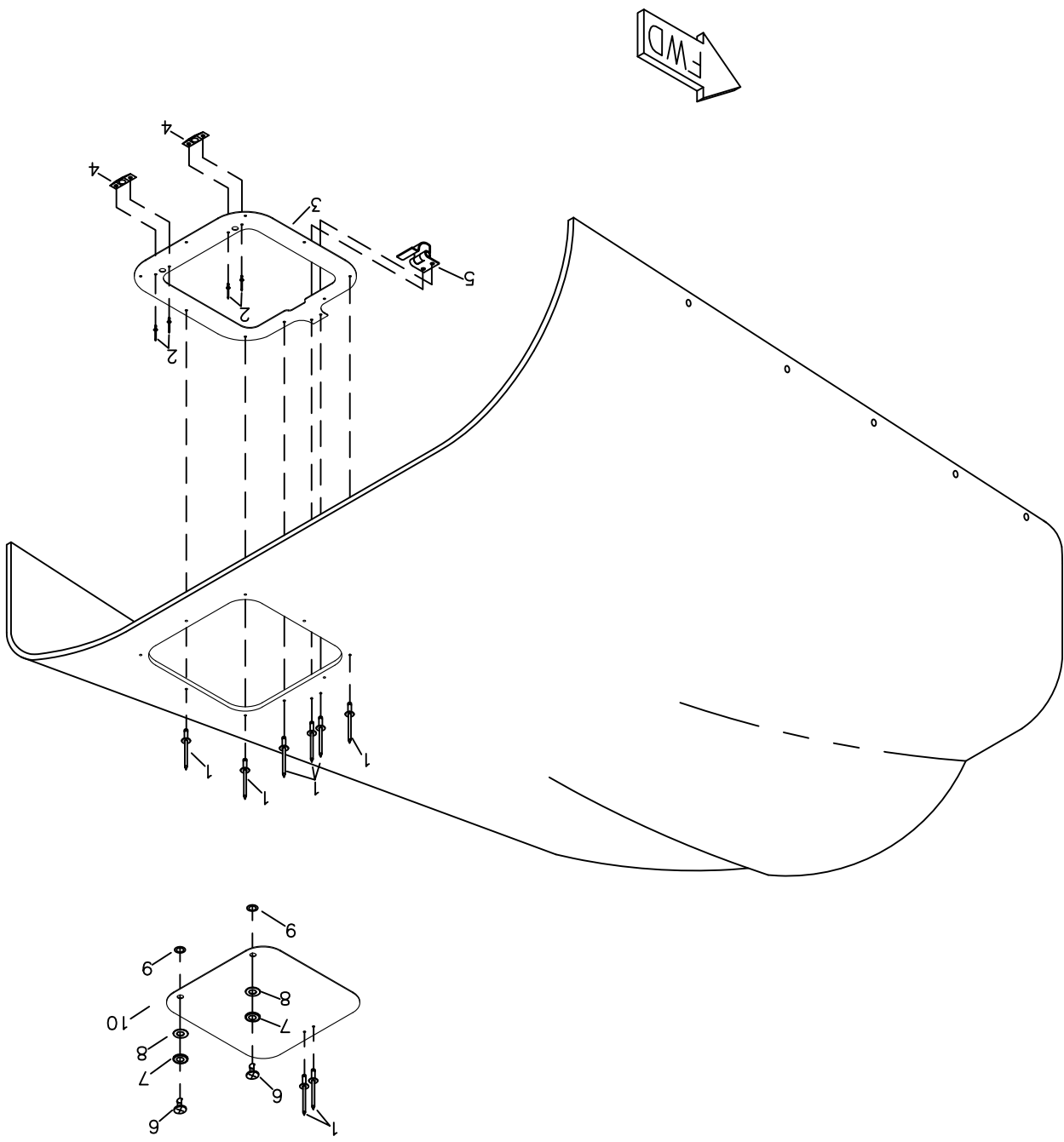
#	DESCRIPTION	PART NUMBER	QUANTITY
1.	3/32" Aluminum Rivet	40APR1/4	82
2.	1/4 Turn Receptacle	#302	37
3.	1/4 Turn Stud *	#220	1
3.	1/4 Turn Stud *	#180	13
3.	1/4 Turn Stud *	#240	3
3.	1/4 Turn Stud *	#200	17
4.	Rubber Washer	#201	37
5.	Wear Washer Nylon	#103	37
6.	Snap Ring	#101	37
7.	Cowling - Upper - Titan X-340	KPCW0049	1
8.	Cowling - Lower - Titan X-340	KPCW0050	1
9.	8-32 Nut Plate	MS21047-08	4
10.	#8 Truss Head Screw	AN515-8R7	4

* Use as needed for secure attachment

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RRR S-21 OUTBOUND
TITAN X-340
OIL CHECK DOOR INSTALLATION

MDS140
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RANS S-21 OUTBOUND

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TITAN X-340 - OIL CHECK DOOR INSTALLATION

#	DESCRIPTION	PART NUMBER	QUANTITY
1.	1/8" Aluminum Rivet - Avex	1691-0410	13
2.	3/32" Aluminum Rivet	40APR1/4	4
3.	Oil Door Frame	KPCW0048	1
4.	1/4 Turn Receptacle	#302	2
5.	Oil Door Hinge	KSHW0053	1
6.	1/4 Turn Stud	#180	2
7.	Rubber Washer	#201	2
8.	Wear Washer Nylon	#103	2
9.	Snap Ring	#101	2
10.	Oil Door	KPCW0047	1

RANS S-21 OUTBOUND

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TITAN X-340 - WHIRLWIND PROPELLER INSTALLATION

#	DESCRIPTION	PART NUMBER	QUANTITY
1.	2-Blade - Propeller (TRIKE ONLY) *	KSPR0003	1
1.	2-Blade - Propeller (TAILDRAGGER ONLY) *	KSPR0004	1
2.	Spinner Backing Plate - 13" **	-----	0
3.	4" Prop Extension Assembly (SAE#2) *	KSPW0108	1

* Mounting Hardware included with Prop or Extension Assembly

** Referenced from Spinner Assembly

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