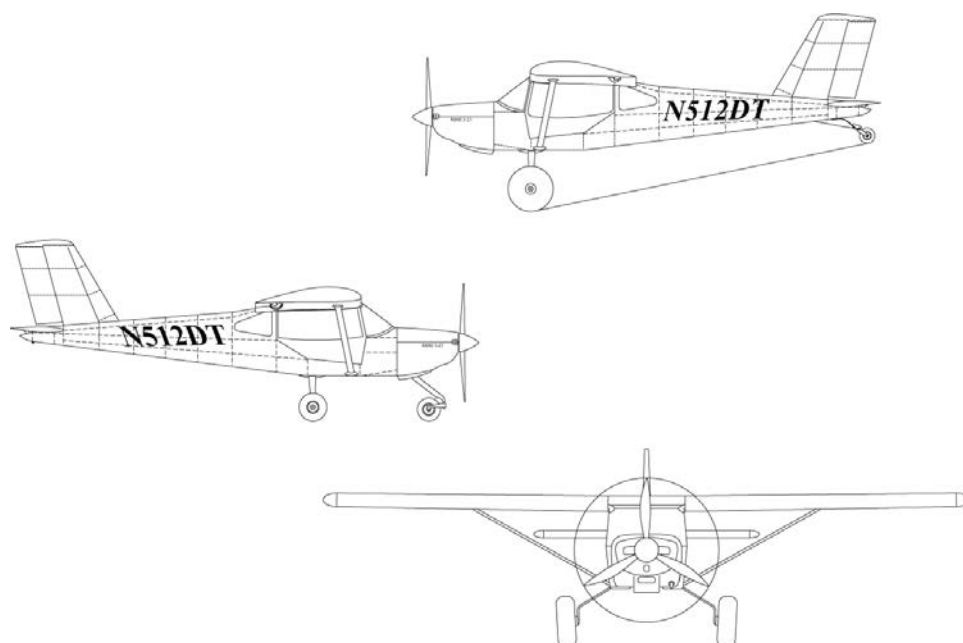




S-21 OUTBOUND

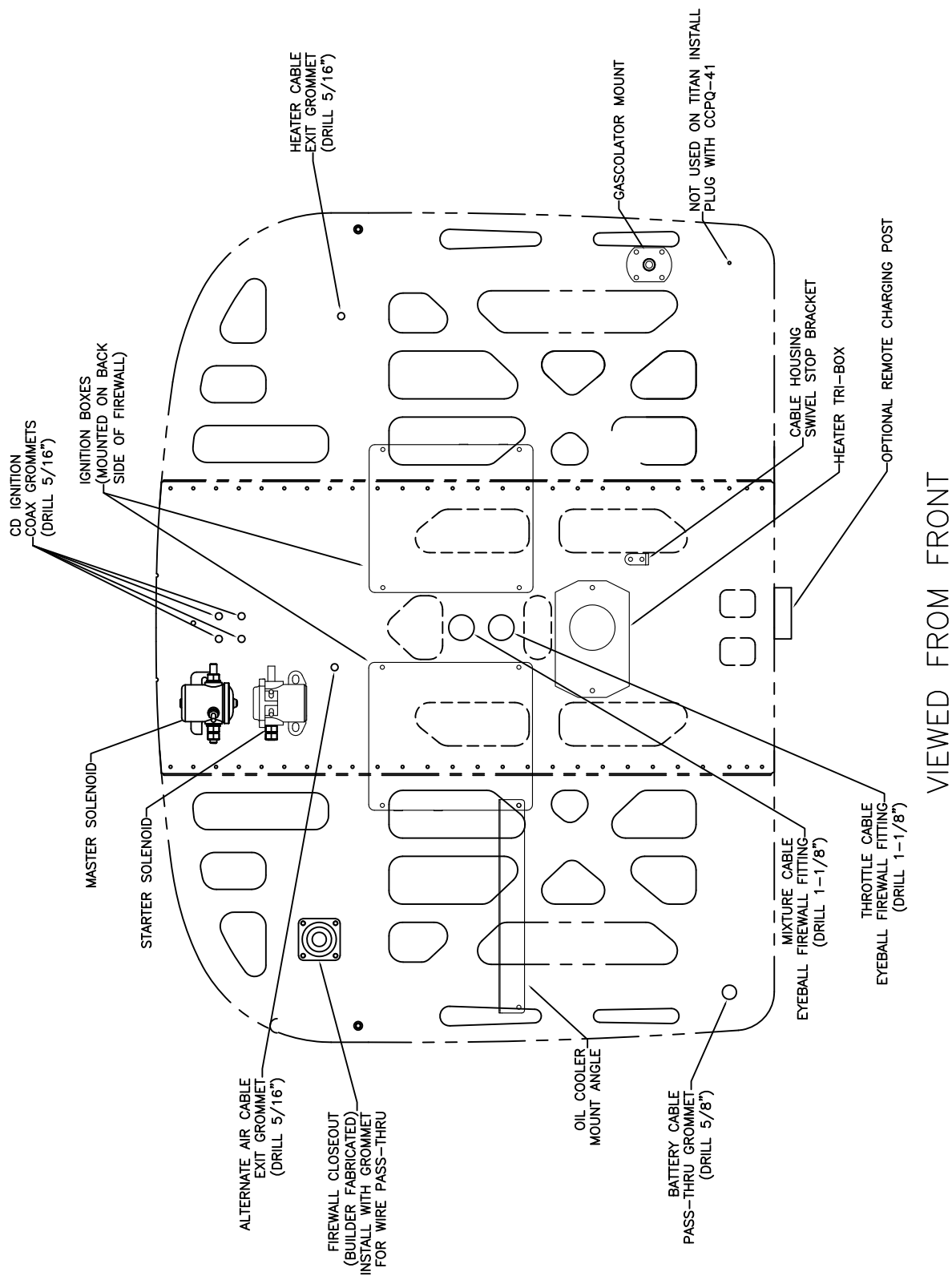
TITAN X-340 INSTALLATION FIGURES MANUAL



Serial Number: _____

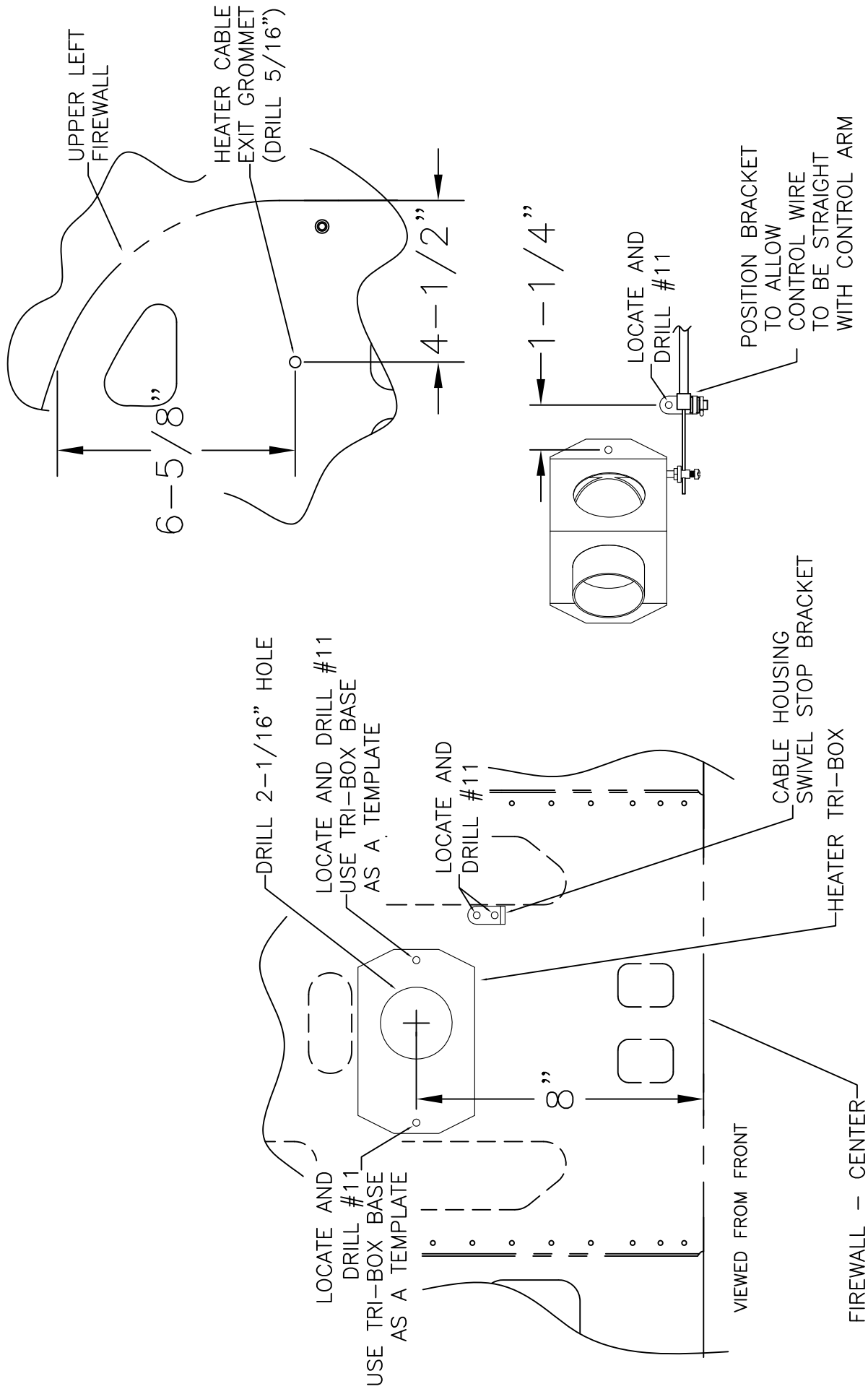
Registration Number: _____

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HAYS, KANSAS, USA 67601
785-625-6346
WWW.RANS.COM



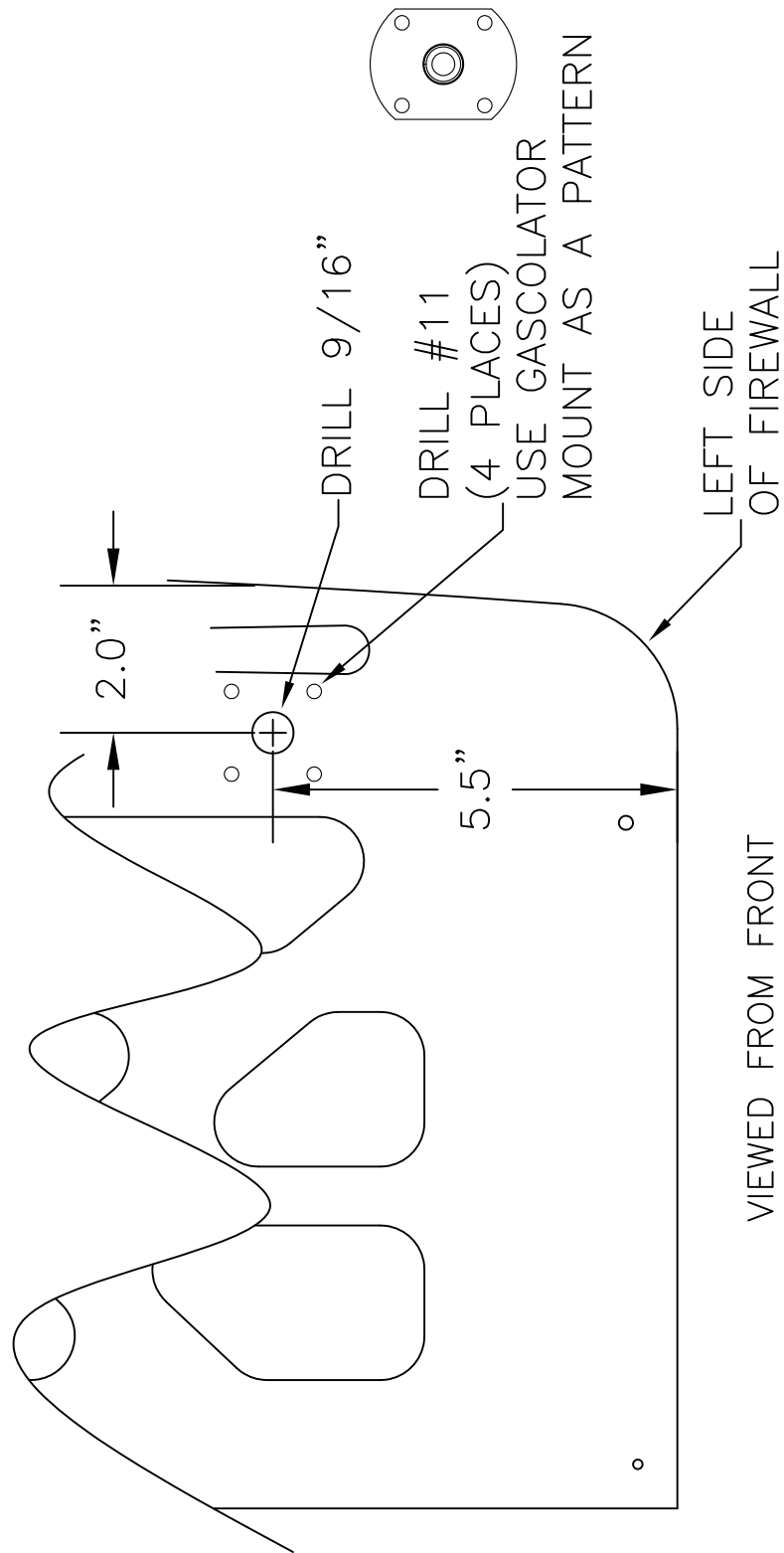
MD5575
REV. A

RAM S-21 OUTBOUND TITAN X-340 FIREWALL INSTALLED ITEMS FIGURE 11-01/ TITAN340



MD5575
REV. - - ORIG

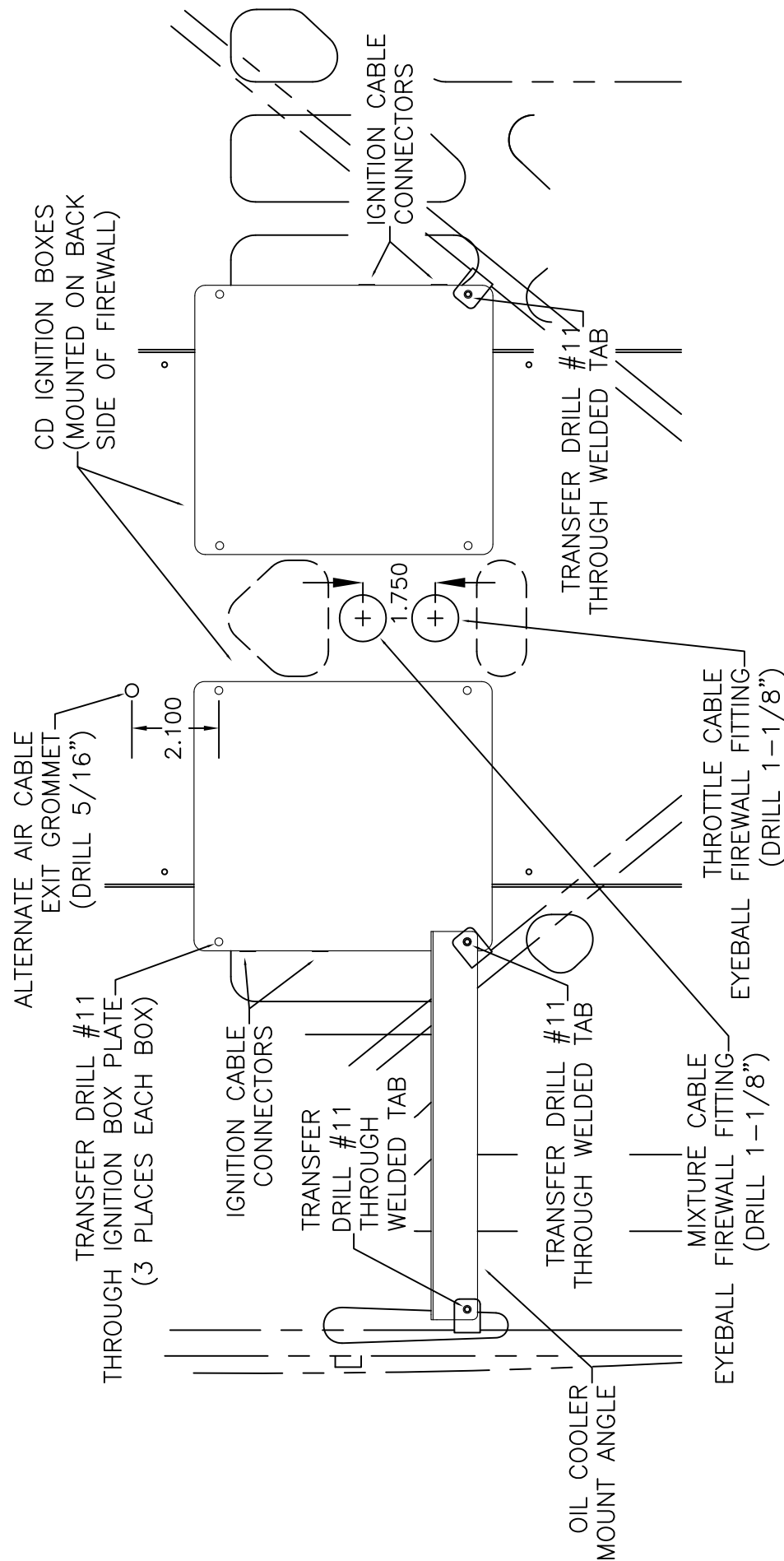
**RRM S-21 OUTBOUND
TITAN X-340
CABIN HEATER INSTALLATION
FIGURE 11-02/ TITAN340**



**RAMS S-21 OUTBOUND
TITAN X-340**

**GASCOLATOR MOUNT INSTALLATION
FIGURE 11-03/ TITAN340**

MD5575
REV. - ORIG



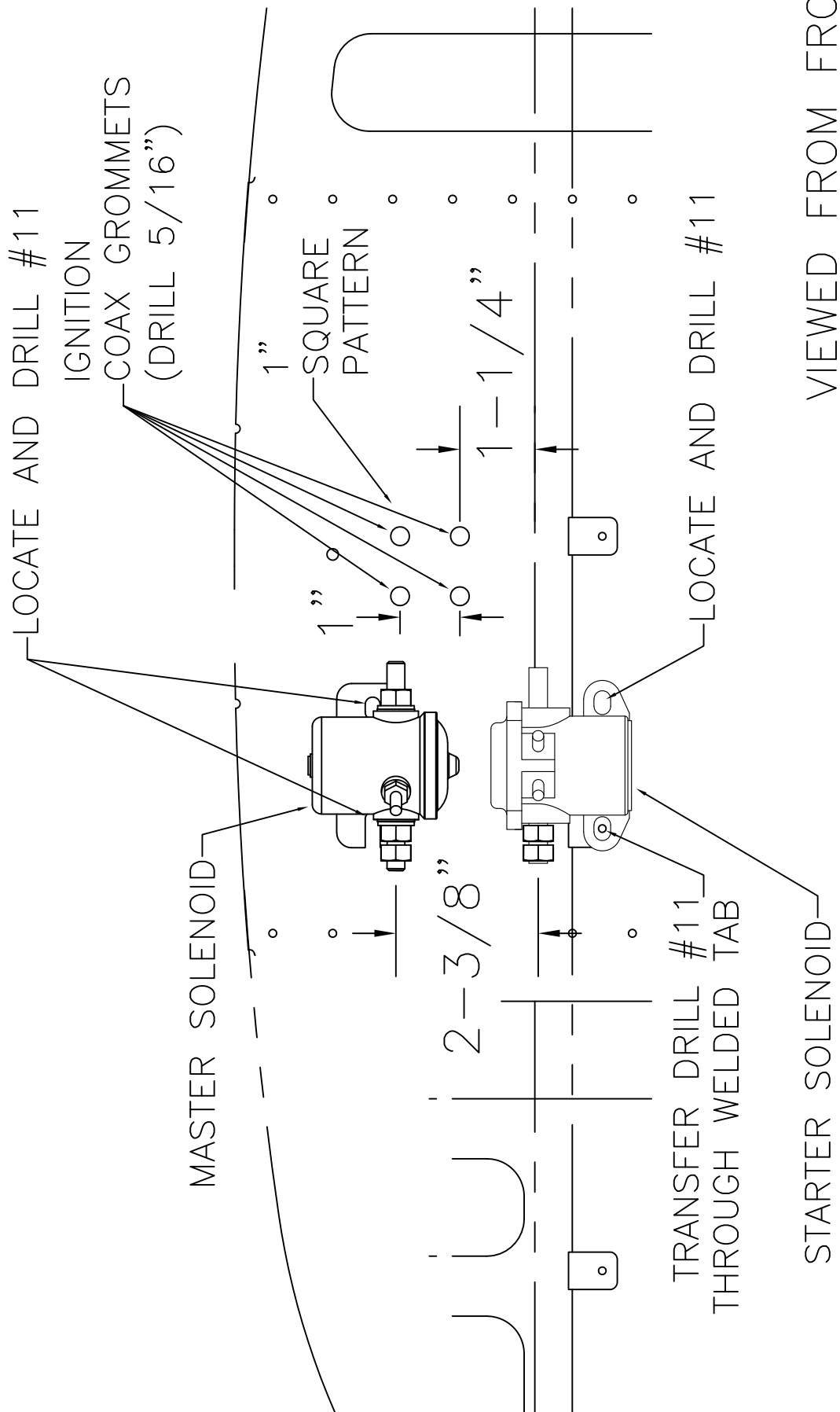
ITEMS FORWARD OF IGNITION BOXES NOT SHOWN FOR CLARITY

RAMS S-21 OUTBOUND
TITAN X-340

MD55575
REV. A

IGNITION MODULE & OIL COOLER MOUNT INSTALLATION

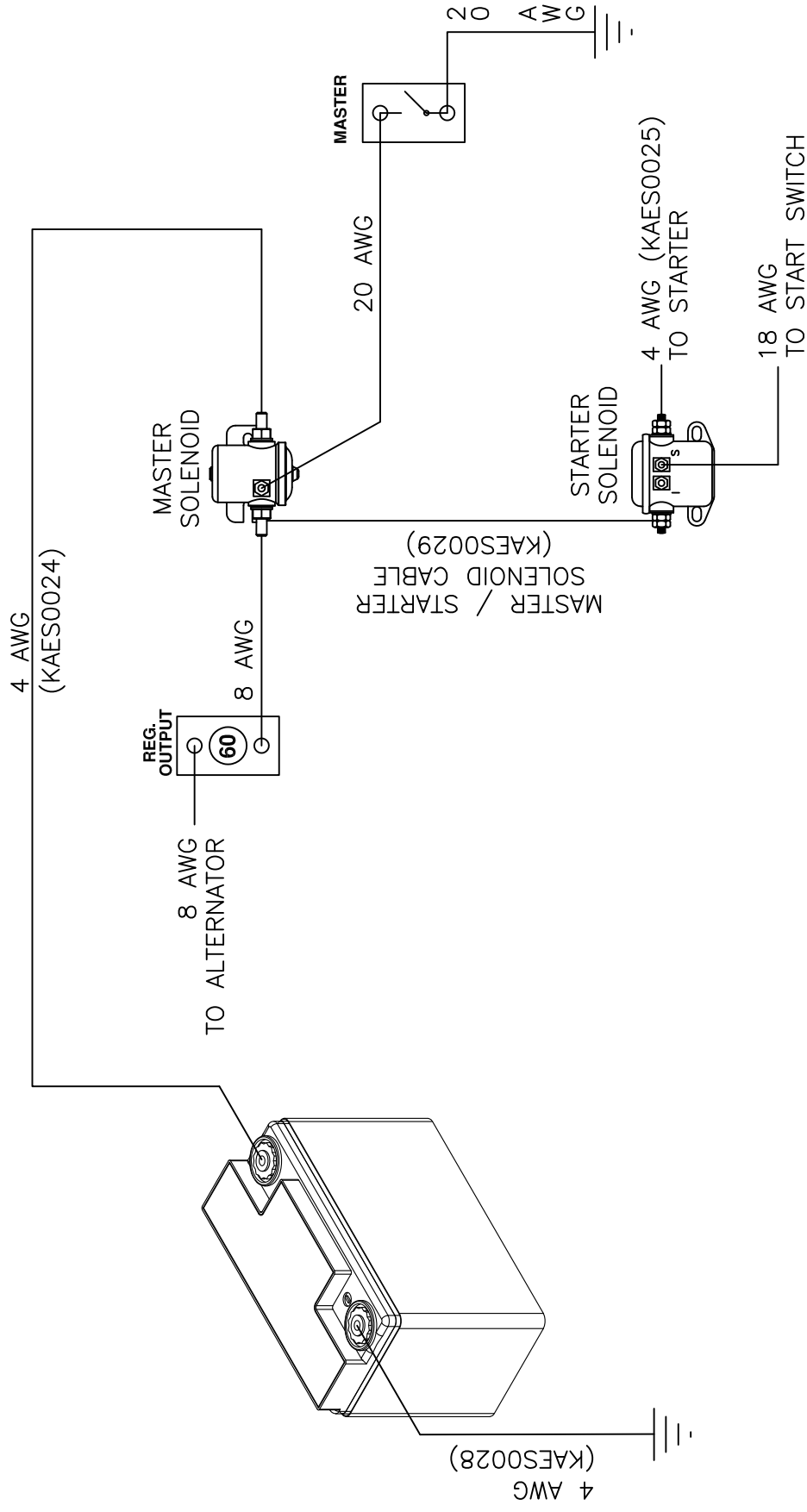
FIGURE 11-04/ TITAN340



MD5575
REV. A

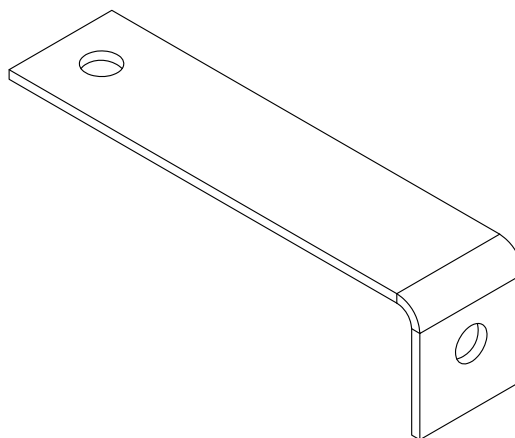
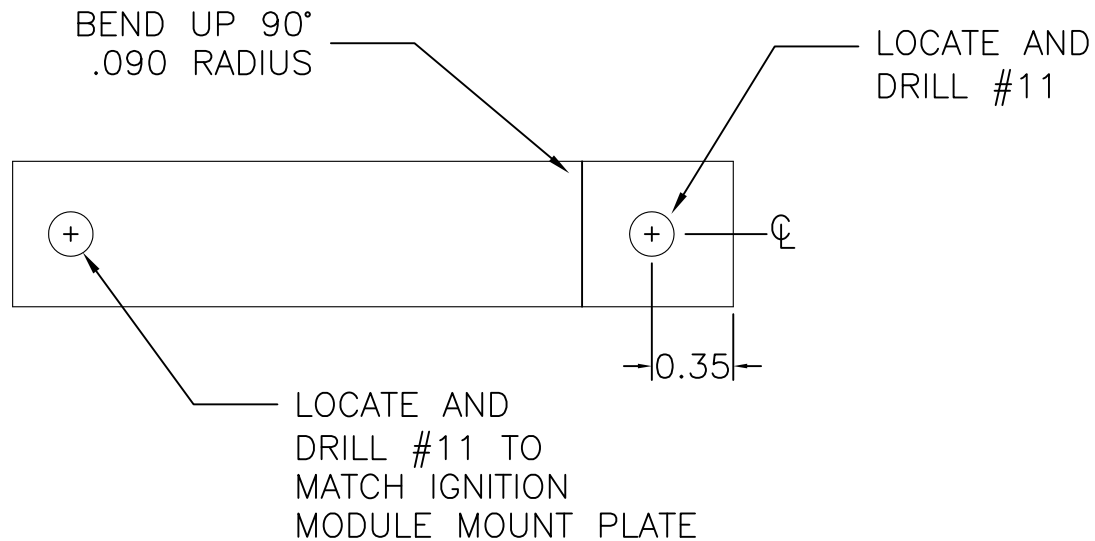
RAM S-21 OUTBOUND
TITAN X-340

MASTER & STARTER SOLENOID INSTALLATION
FIGURE 11-04A/ TITAN340



RAM S-21 OUTBOUND
TITAN X-340
MASTER SOLENOID WIRING
FIGURE 11-05/TITAN340

MODIFY KPES0036



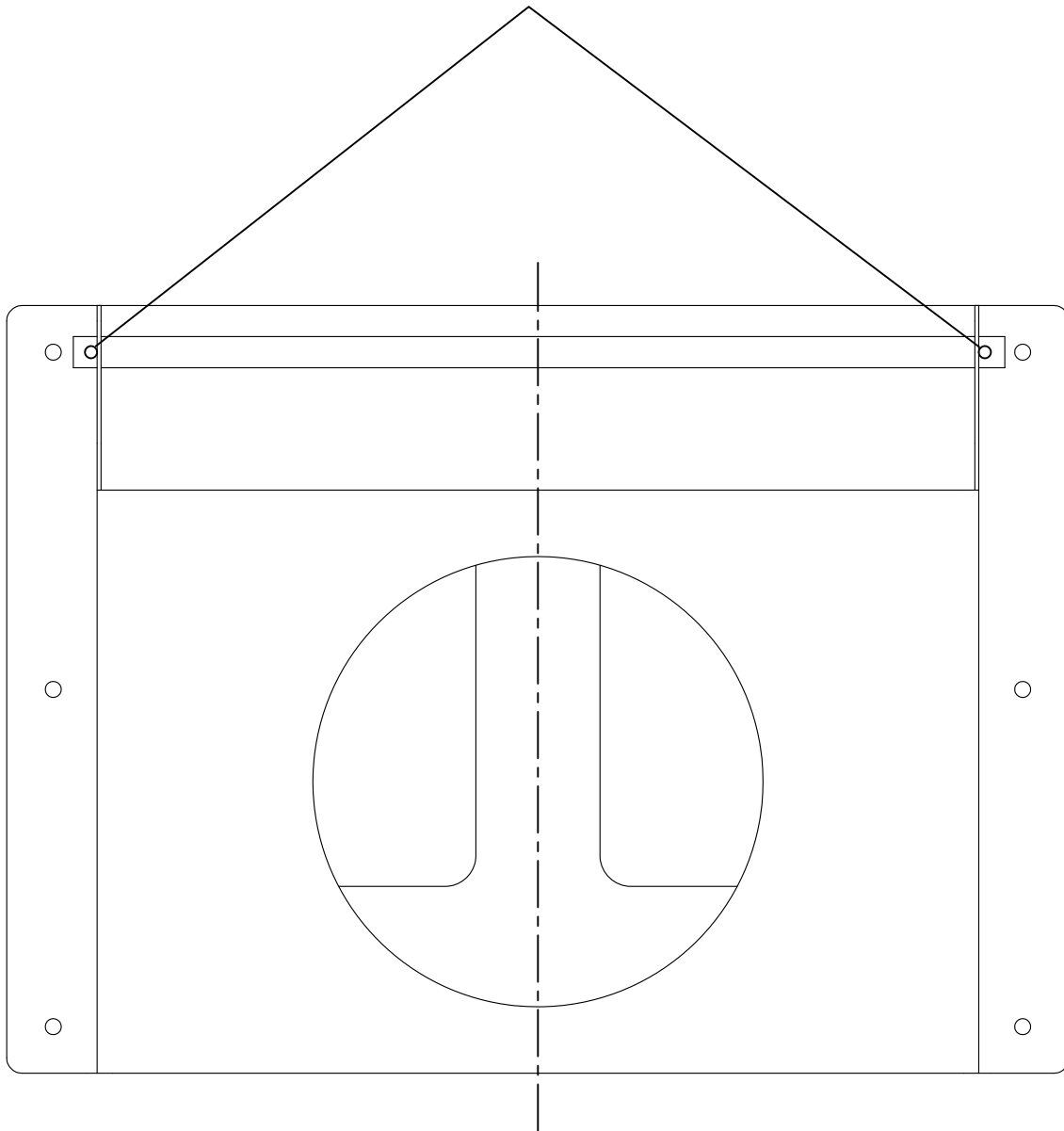
**RANS S-21 OUTBOUND
TITAN X-340**

MD5575
REV. — ORIG

**AFT IGNITION BRACKET BRACE FABRICATION
FIGURE 11-06/TITAN340**

09/11/2018

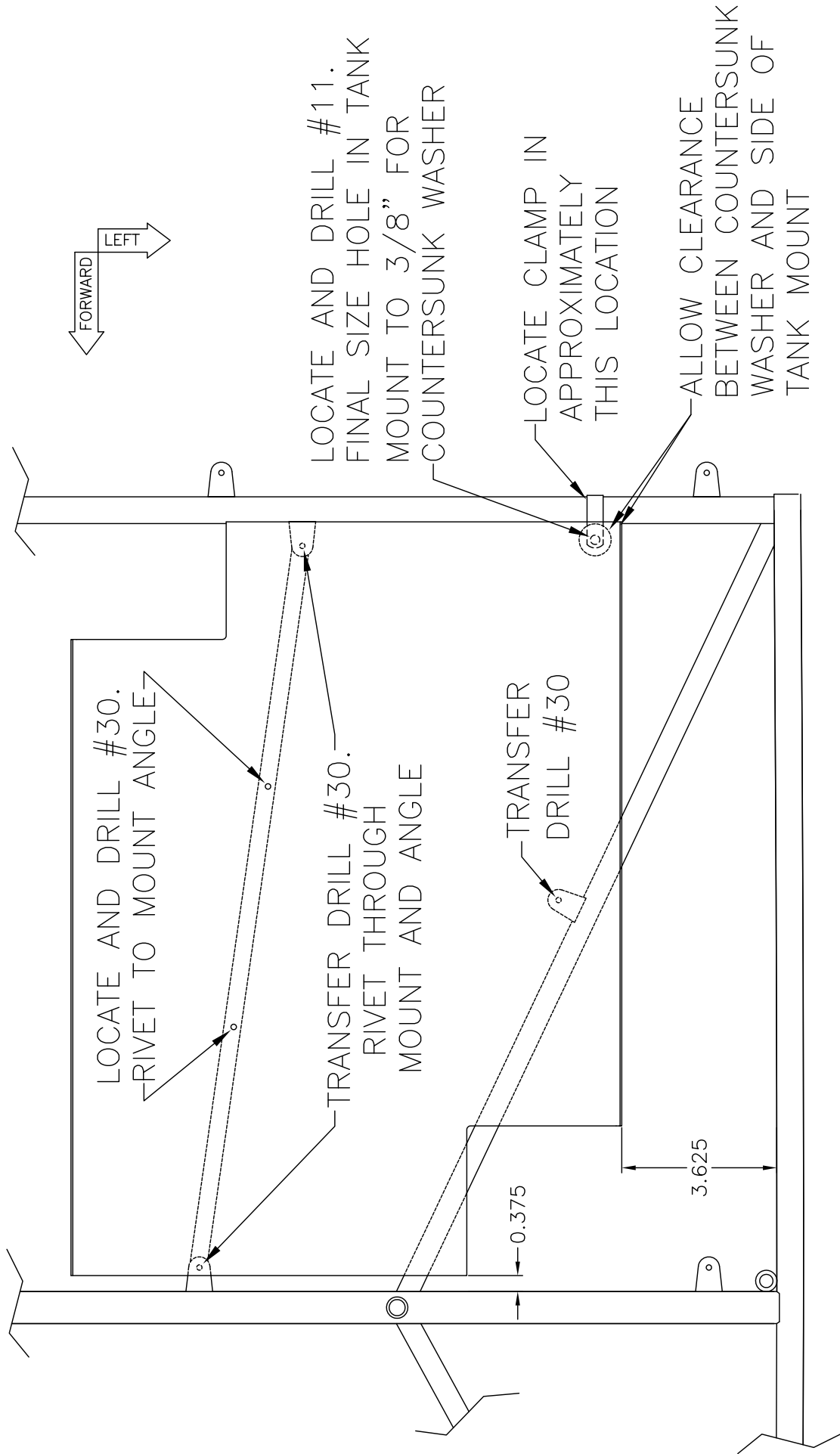
CENTER BATTERY BAR AND DRILL #40
AS NECESSARY



**RANS S-21 OUTBOUND
TITAN X-340
BATTERY BAR MODIFICATION
FIGURE 11-07/TITAN340**

MD5468
REV. — ORIG

09/11/2018

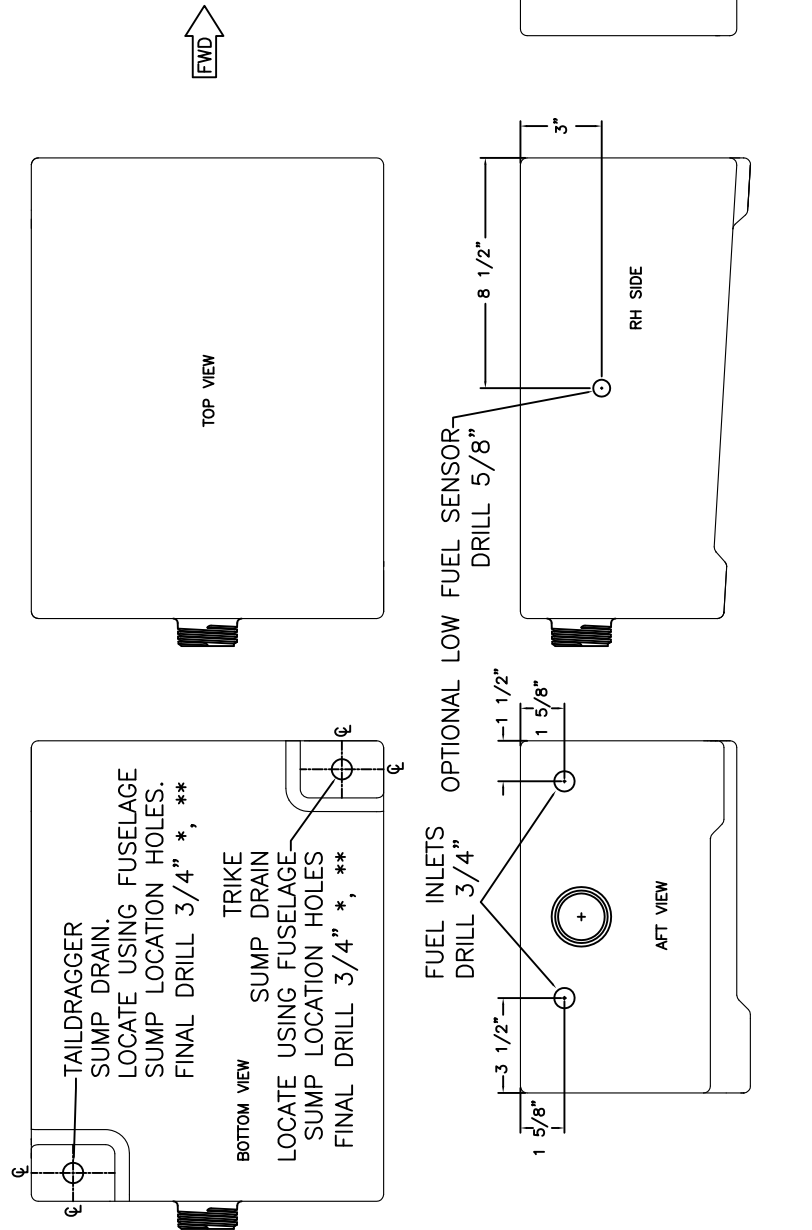


RRR S-21 OUTBOUND
TITAN X-340
6.9 GALLON HEADER TANK MOUNT
FIGURE 11-08/TITAN340

MD5616
 REV. - ORIG

* IF POSSIBILITY OF CONVERTING FROM EITHER TRIKE OR TAILDRAGGER, YOU MAY WISH TO INSTALL BOTH TRIKE AND TAILDRAGGER SUMP DRAINS.

** SUMP DRAIN SHOULD BE LOCATED IN APPROXIMATELY THIS AREA WHEN FINAL DRILLED AND INSTALLED.



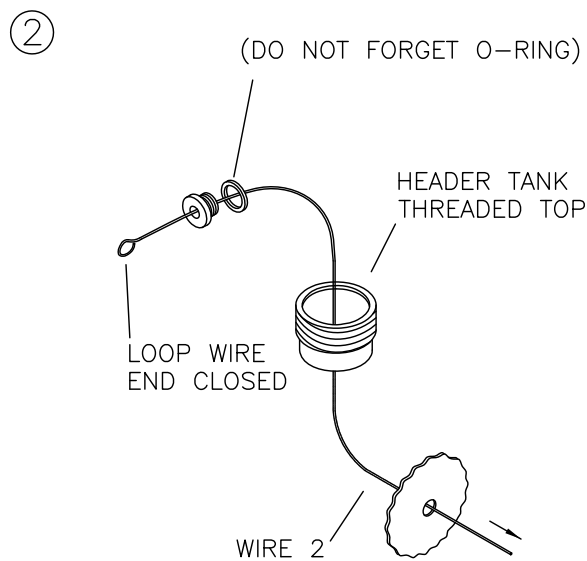
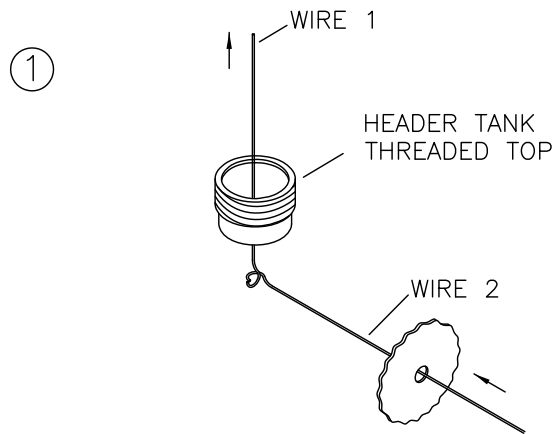
RRR S-21 OUTBOUND

TITAN X-340

6.9 GALLON HEADER TANK MODIFICATION

FIGURE 11-09/TITAN340

MD2861
REV. A



③ INSTALL RUBBER WASHER, STEEL WASHER, LOCTITE, AND NUT.

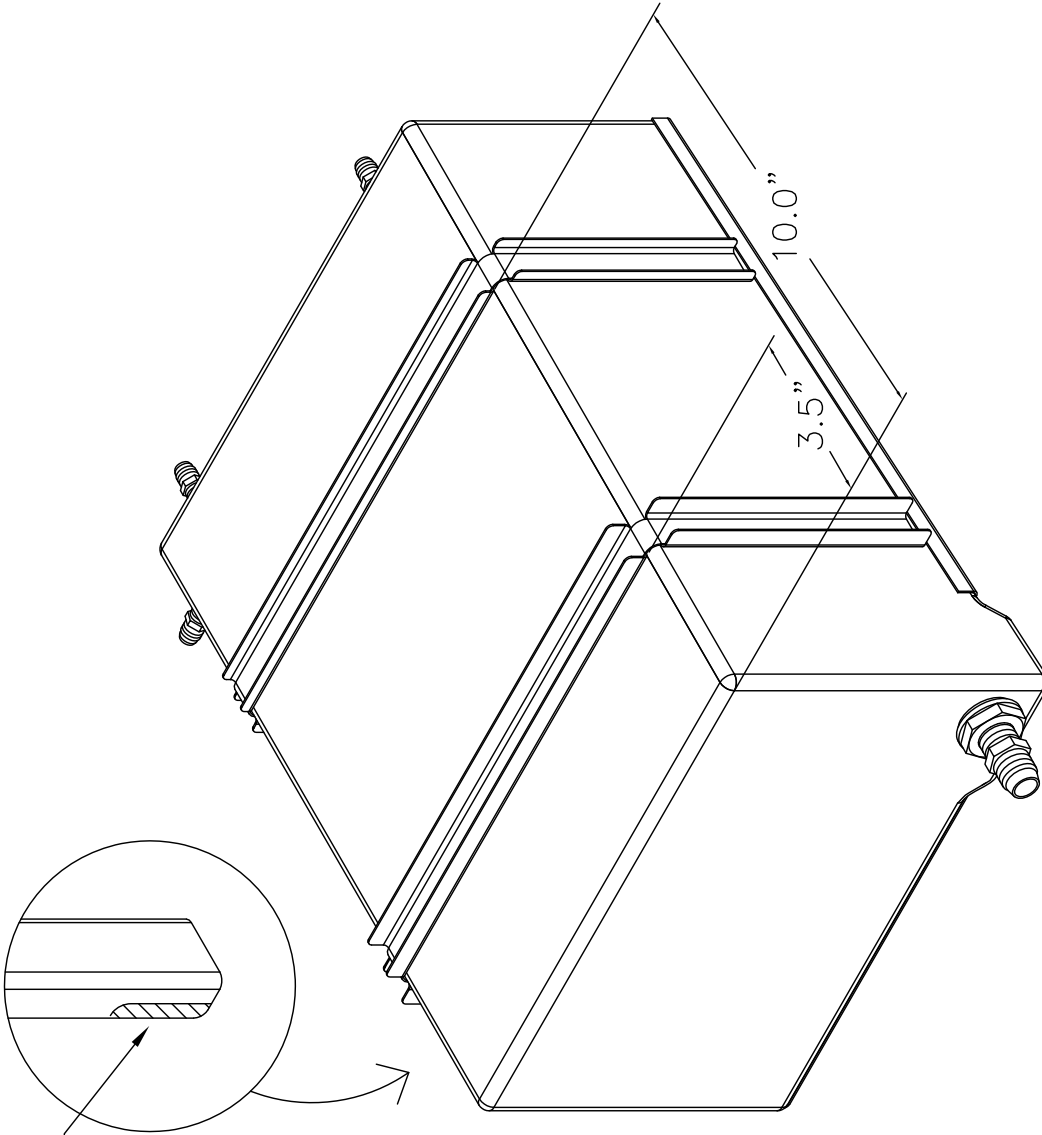
④ REMOVE WIRE.

**RANS S-21 OUTBOUND
TITAN X-340
HEADER TANK FITTING INSTALLATION
FIGURE 11-10/TITAN340**

MD4832
REV. — ORIG

09/11/2018

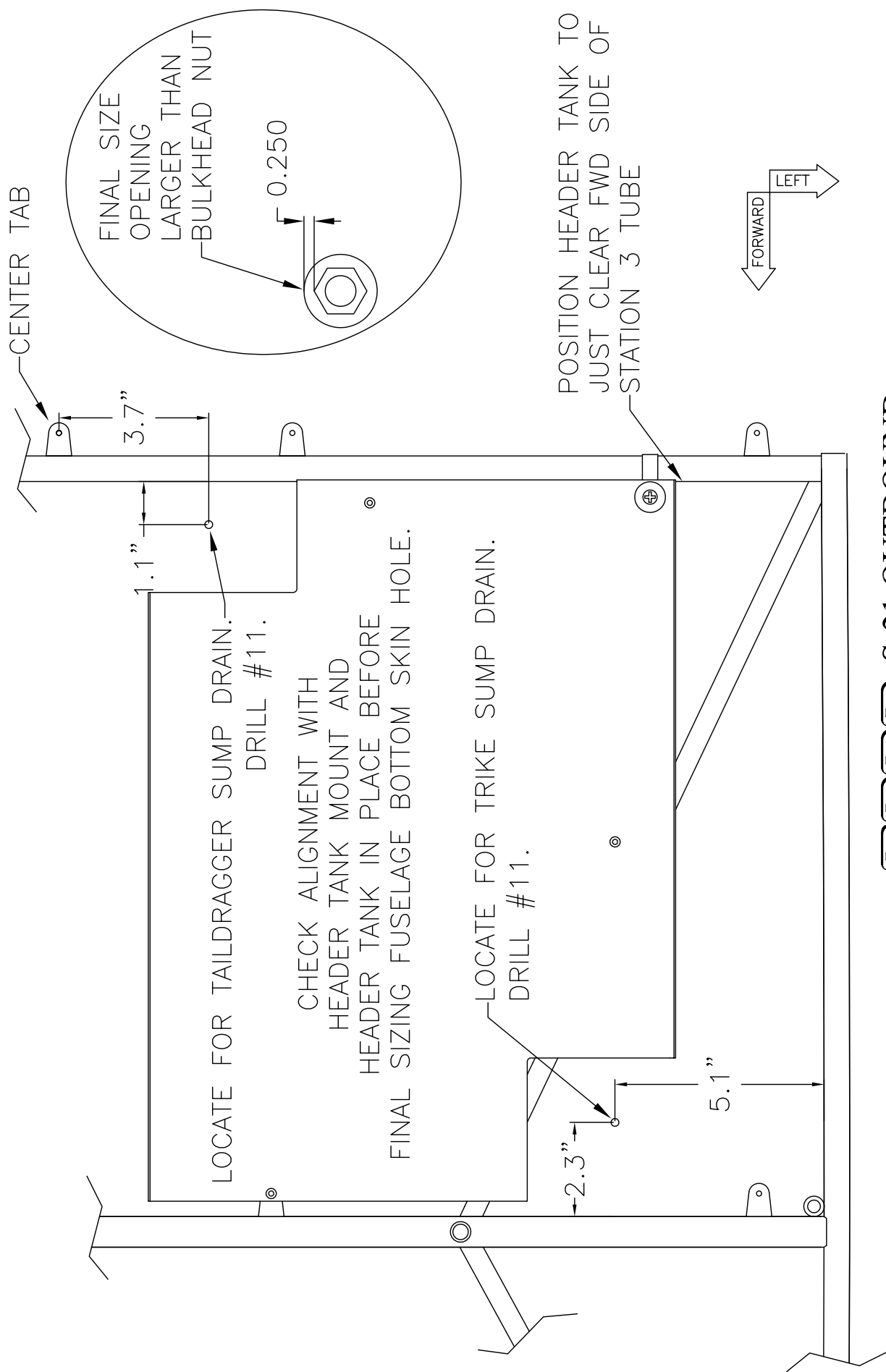
TRIM INBOARD SECTION
OF MOUNT CHANNEL
AS REQUIRED TO
CLEAR RUDDER CABLE



RRF S-21 OUTBOUND
TITAN X-340

6.9 GALLON HEADER TANK
MOUNT CHANNEL LOCATION
FIGURE 11-11/TITAN340

MD5616
REV. - ORIG

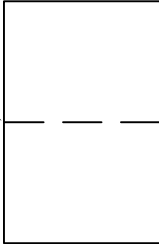


**RRR S-21 OUTBOUND
TITAN X-340**

**6.9 GALLON HEADER TANK
SUMP HOLE LOCATIONS
FIGURE 11-12/TITAN340**

FUEL VALVE
SILICONE PAD
(KPFS0106)

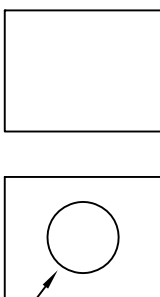
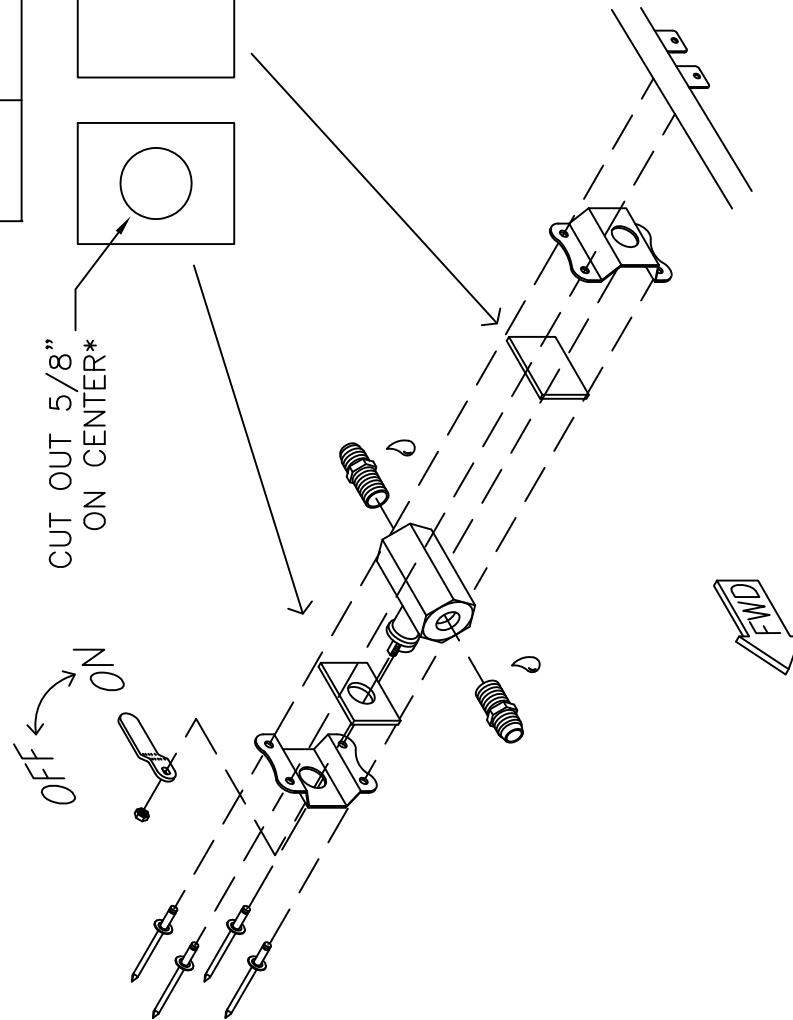
CUT INTO 2 PIECES
ON CENTERLINE



OFF ← ON

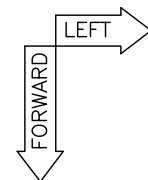
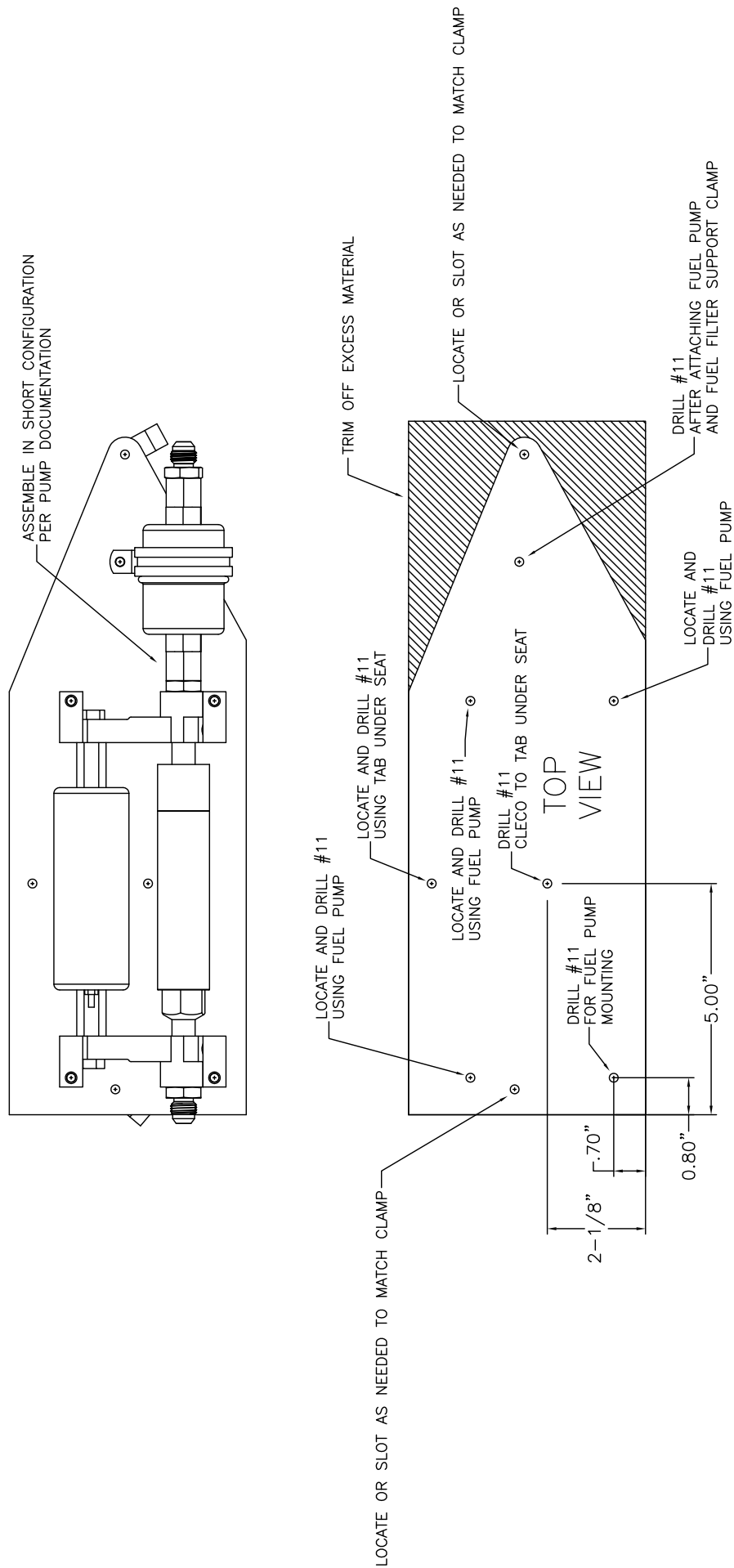
CUT OUT 5/8" ON CENTER*

* HINT: USE A 5/8" TUBE SHARPENED ON INSIDE AS A PUNCH TO CUT HOLE.

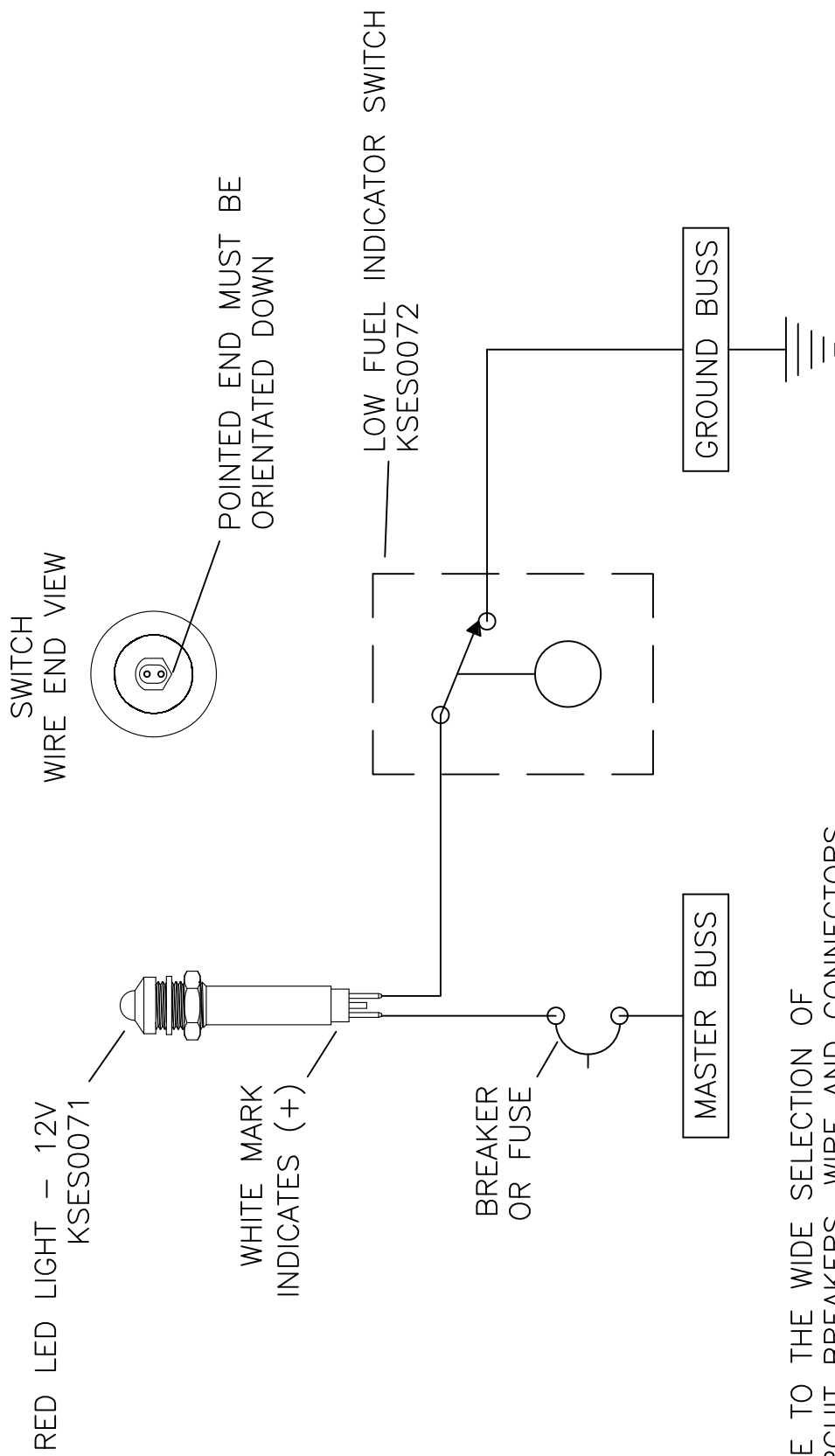
RAMS S-21 OUTBOUND
TITAN X-340
FUEL VALVE MOUNTING
FIGURE 11-13/TITAN340

MD4388
REV. — ORIG



RAMS S-21 OUTBOUND
TITAN X-340
ELECTRIC FUEL PUMP MOUNTING
PLATE MODIFICATION
FIGURE 11-14/TITAN340

MD5616
 REV. ORIG



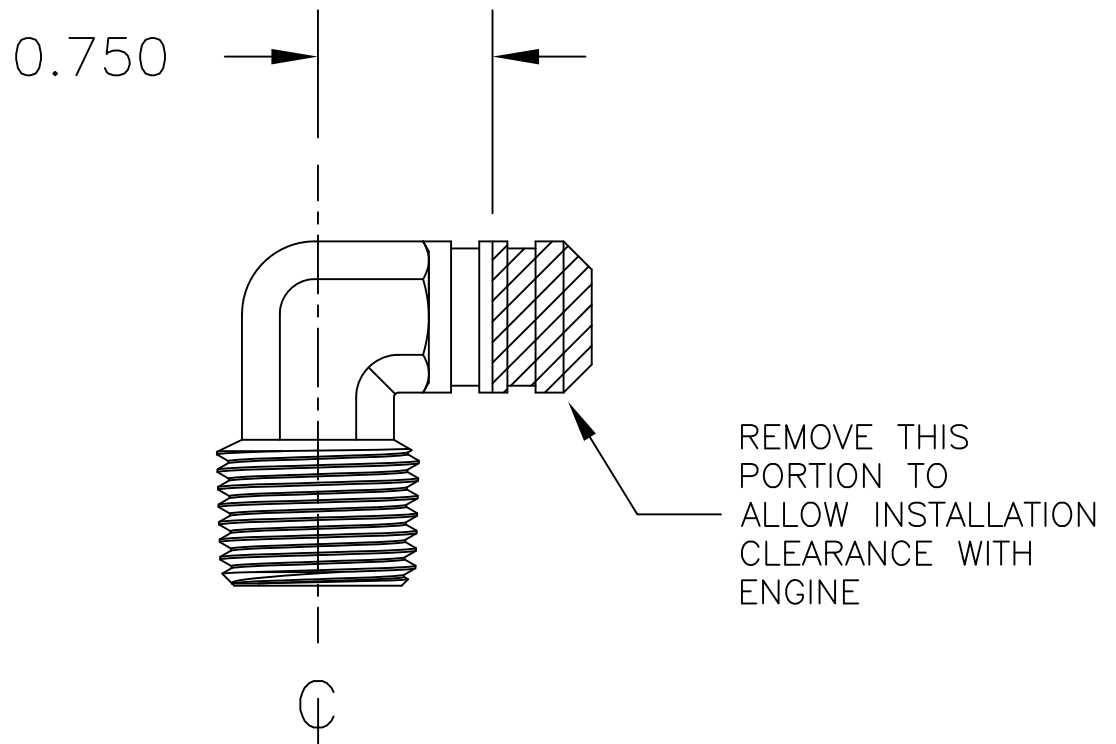
09/11/2018

RAMS S-21 OUTBOUND

TITAN X-340

LOW FUEL WARNING SYSTEM WIRING
FIGURE 11-15/TITAN340

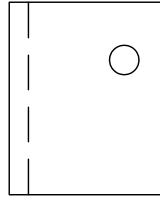
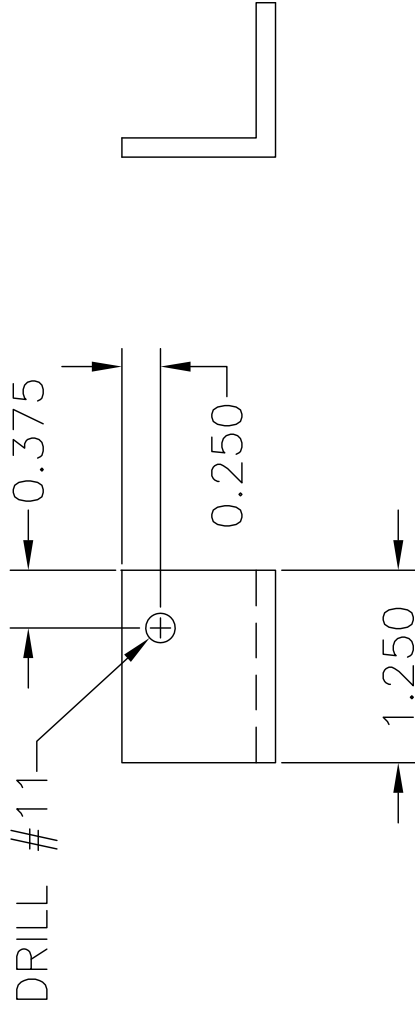
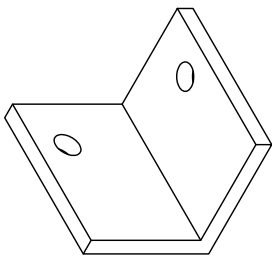
MD2861
REV. - ORIG



RANS S-21 OUTBOUND
TITAN X-340
MODIFICATION OF KSPW0098
FIGURE 11-15A/TITAN340

MD5575
 REV. — ORIG

09/11/2018



DRILL BOTH FLANGES OF ANGLE
FABRICATE QUANTITY 2

RRR S-21 OUTBOUND
TITAN X-340
THROTTLE & MIXTURE RETAINER ANGLE MODIFICATION
FIGURE 11-16/TITAN340

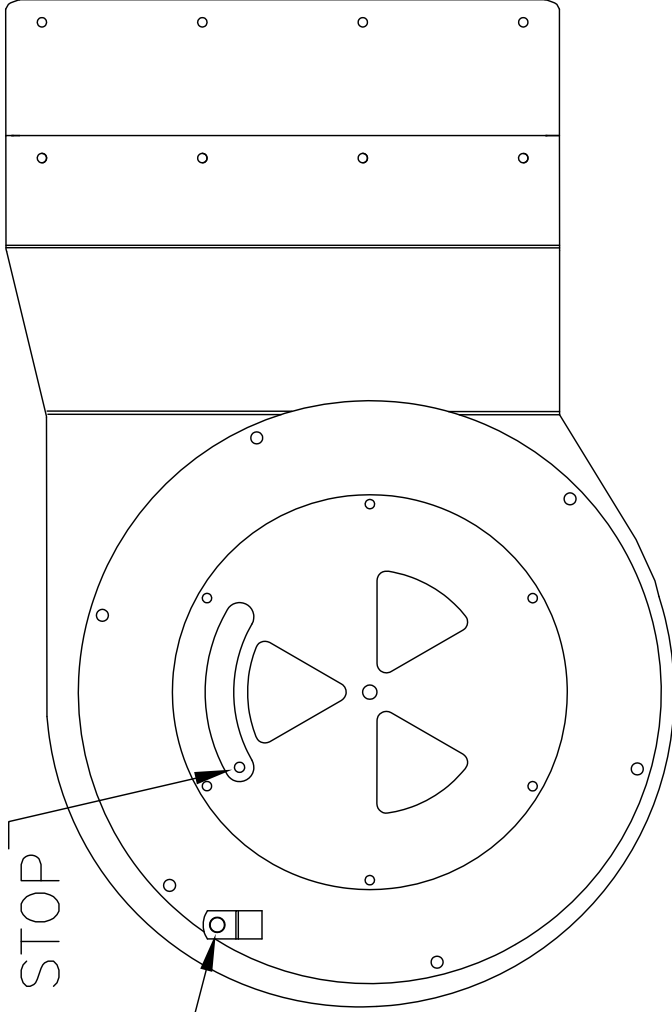
MD5616
REV. ORIG

LOCATION OF CABLE

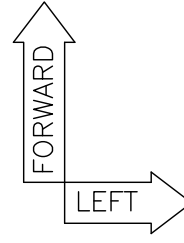
SWIVEL STOP

LOCATION OF

1 / 4" CLAMP



AIRBOX WITH ALTERNATE AIR
VALVE "OPEN"
SHOWN FROM BELOW



RRR S-21 OUTBOUND

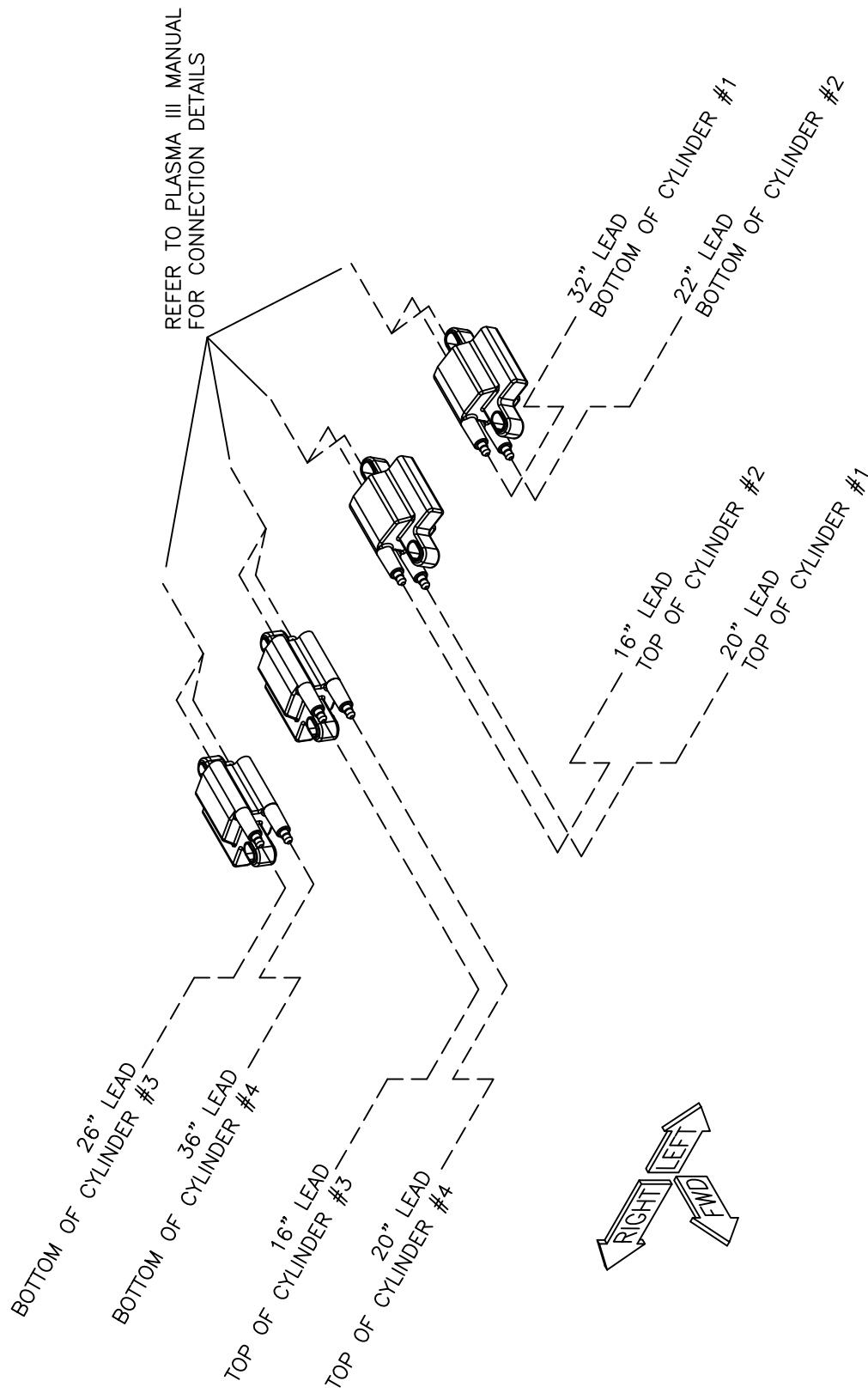
TITAN X-340

AIRBOX FILTER COVER AND

ALTERNATE AIR VALVE ORIENTATION

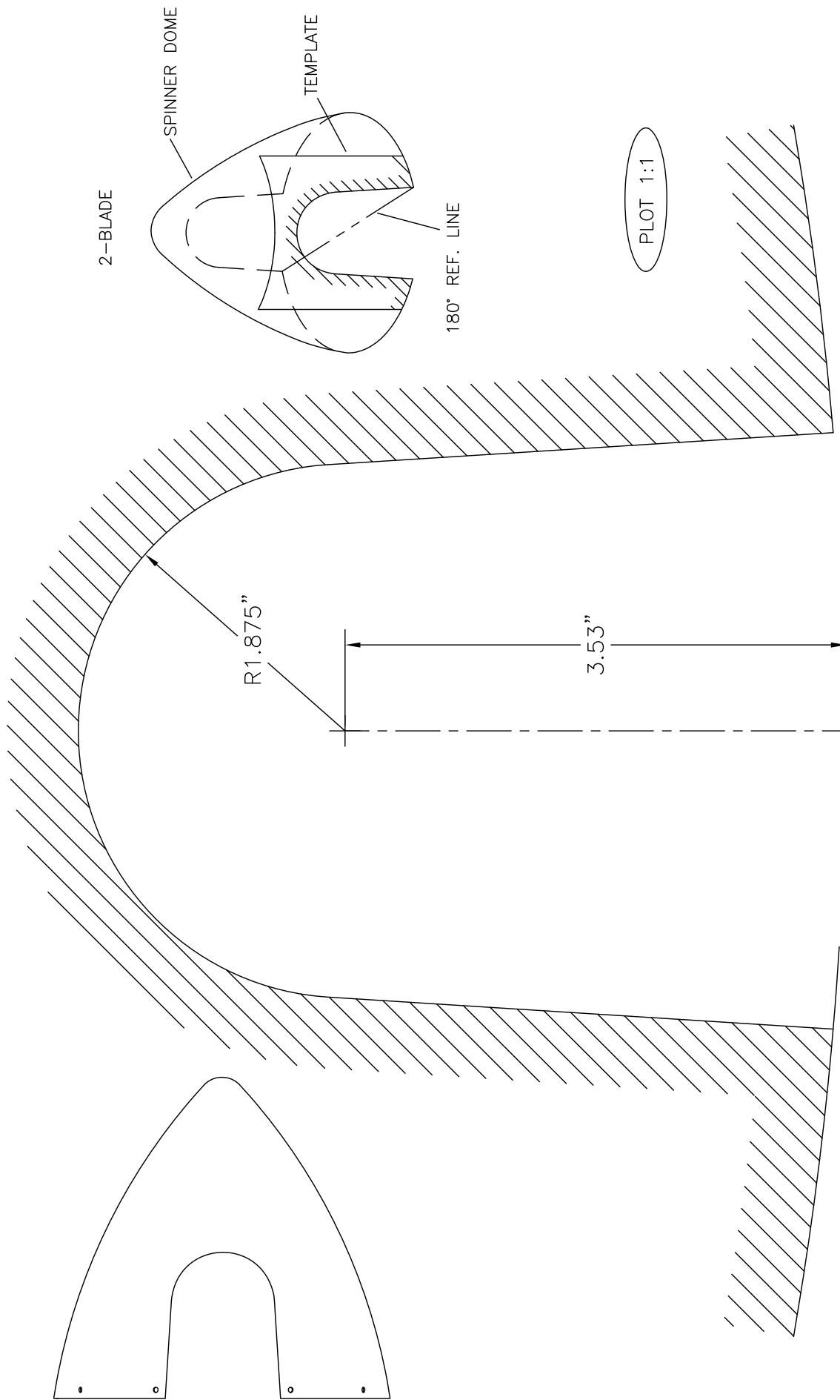
FIGURE 11-17/TITAN340

MD5616
REV. ORIG



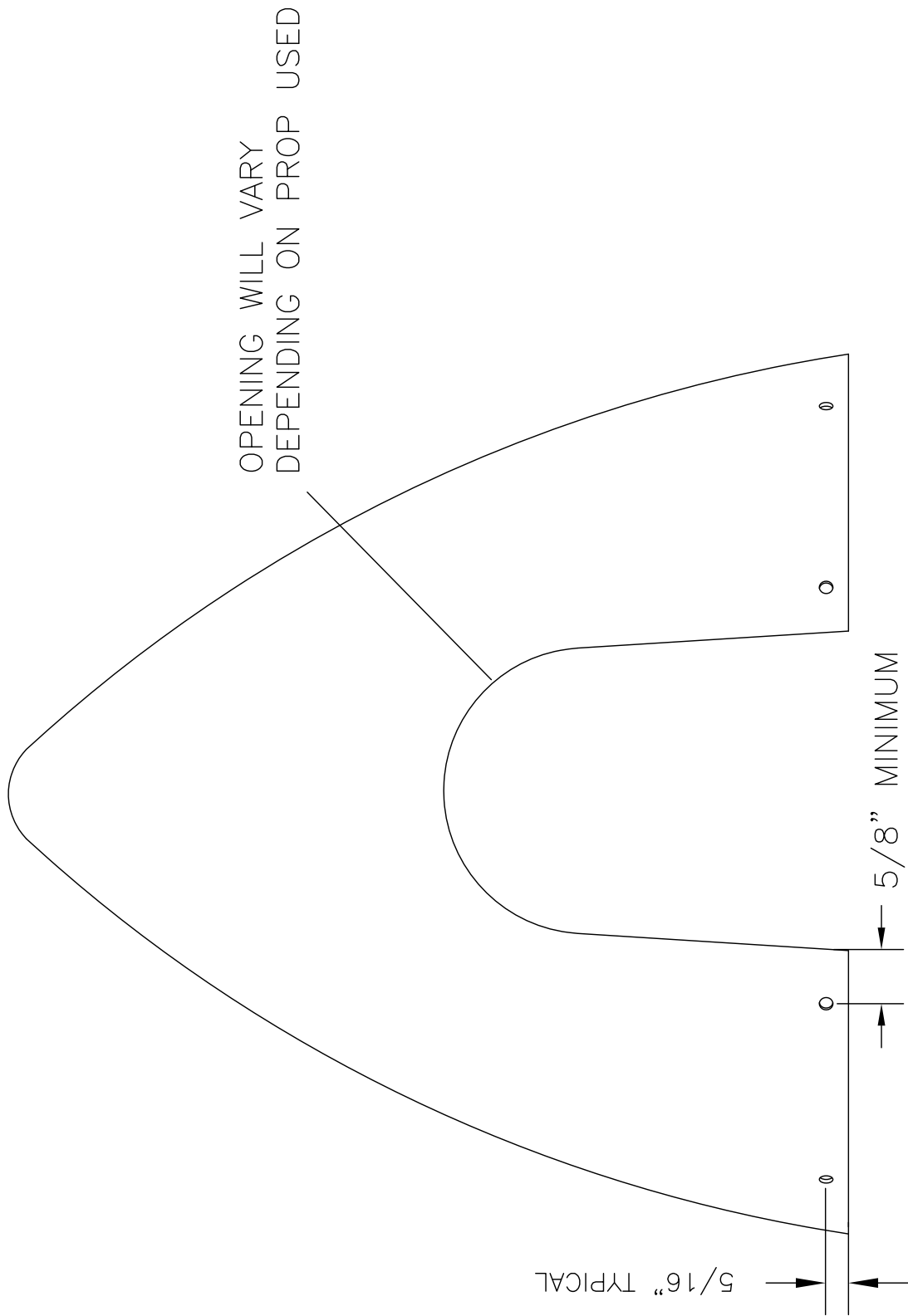
RAMCO S-21 OUTBOUND
TITAN X-340
HIGH TENSION IGNITION LEAD ROUTING
FIGURE 11-17A/ TITAN340

MD5575
REV. A



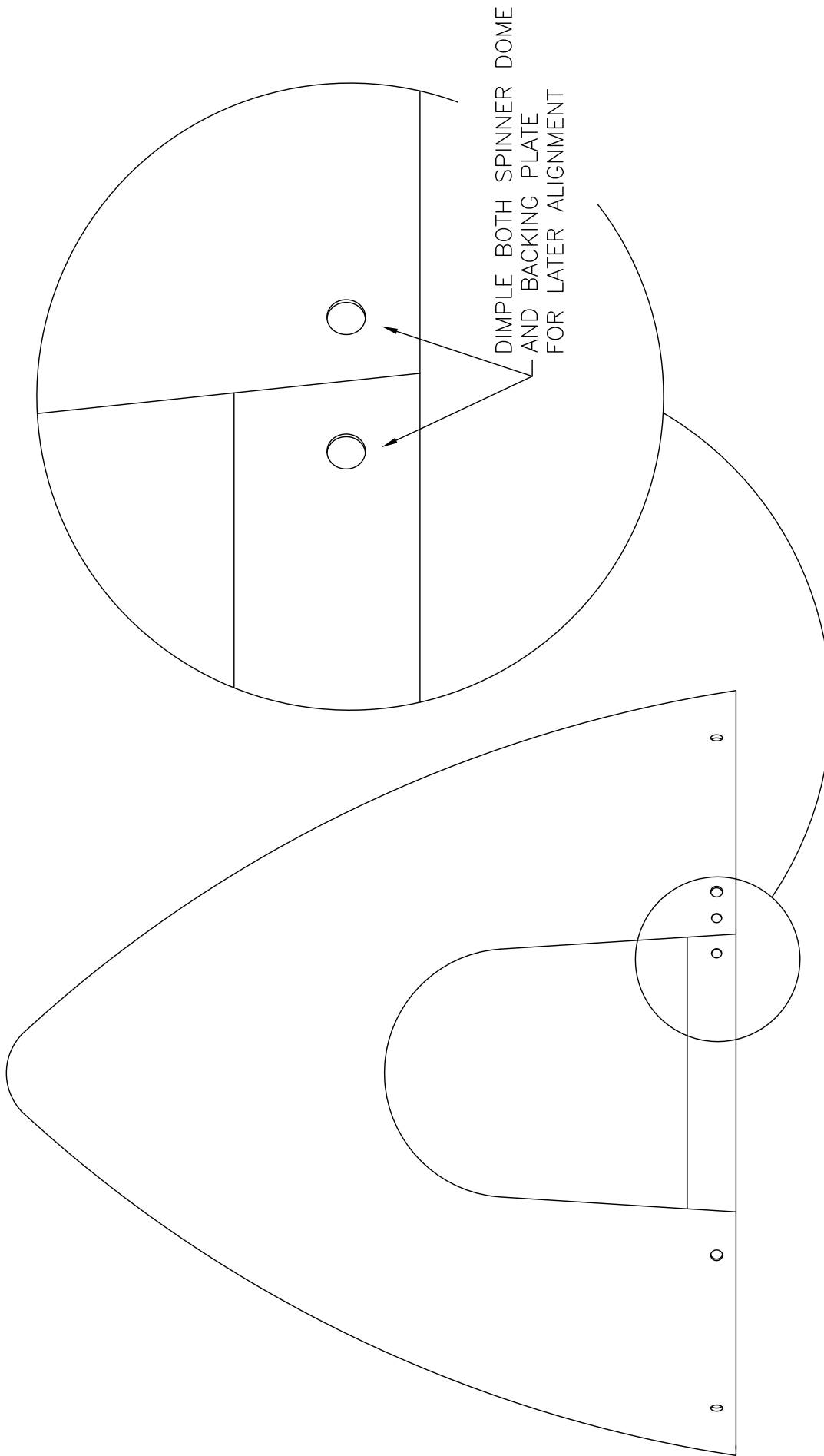
MD5228
REV. - ORIG

RAMS S-21 OUTBOUND
TITAN X-340
WHIRL WIND PROP - 13" SPINNER TEMPLATE
FIGURE 11-18/TITAN340



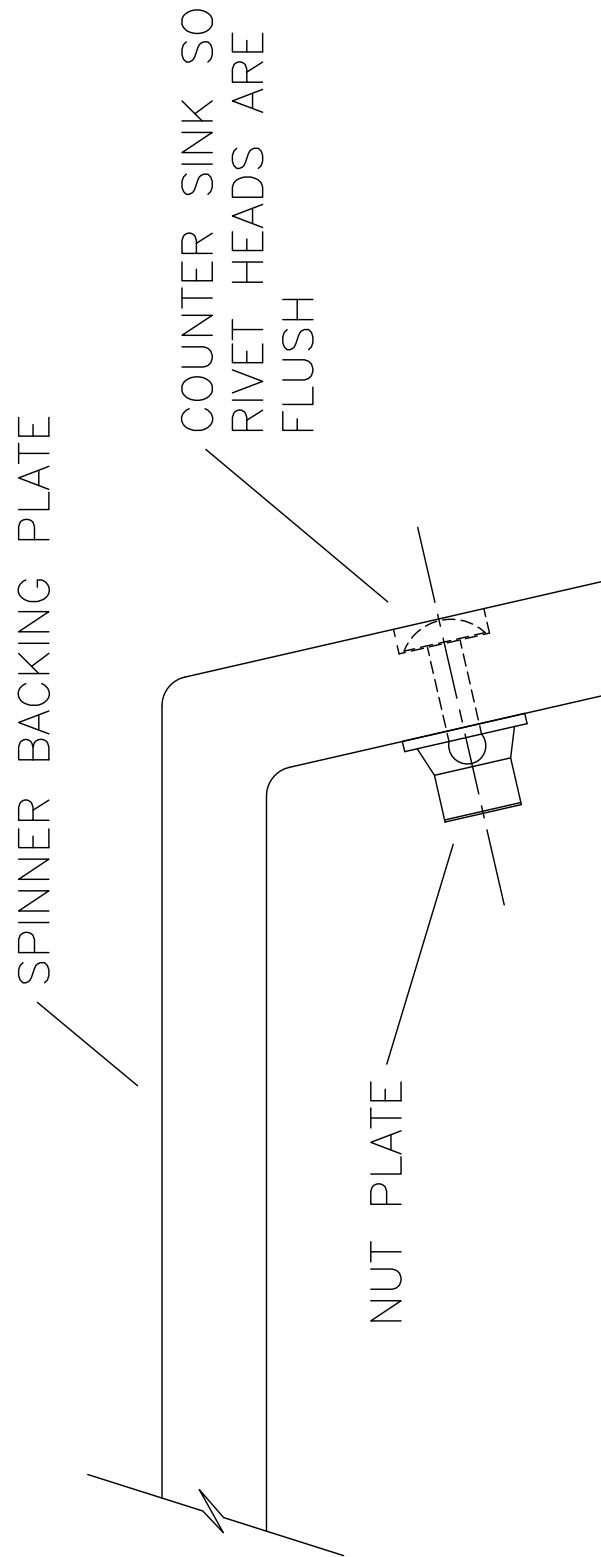
SPINNER S-21 OUTBOUND
TITAN X-340
SPINNER DRILLING
FIGURE 11-19/TITAN340

MD5228
 REV. - ORIG



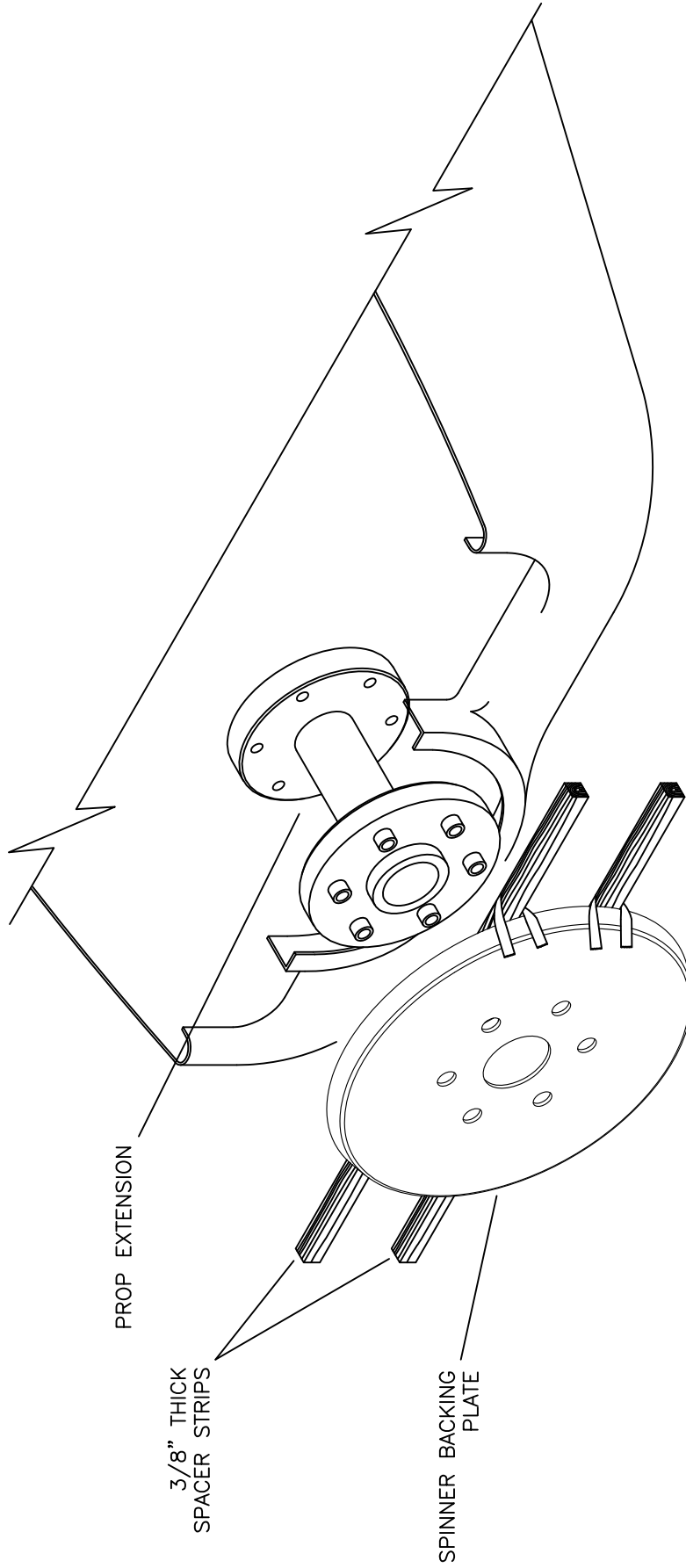
**RRF S-21 OUTBOUND
TITAN X-340
SPINNER ALIGNMENT MARKS
FIGURE 11-20/TITAN340**

MD5228
REV. - ORIG



**RAVEN S-20 RAVEN
TITAN X-340**
SPINNER NUT PLATE INSTALLATION
FIGURE 11-21/TITAN340

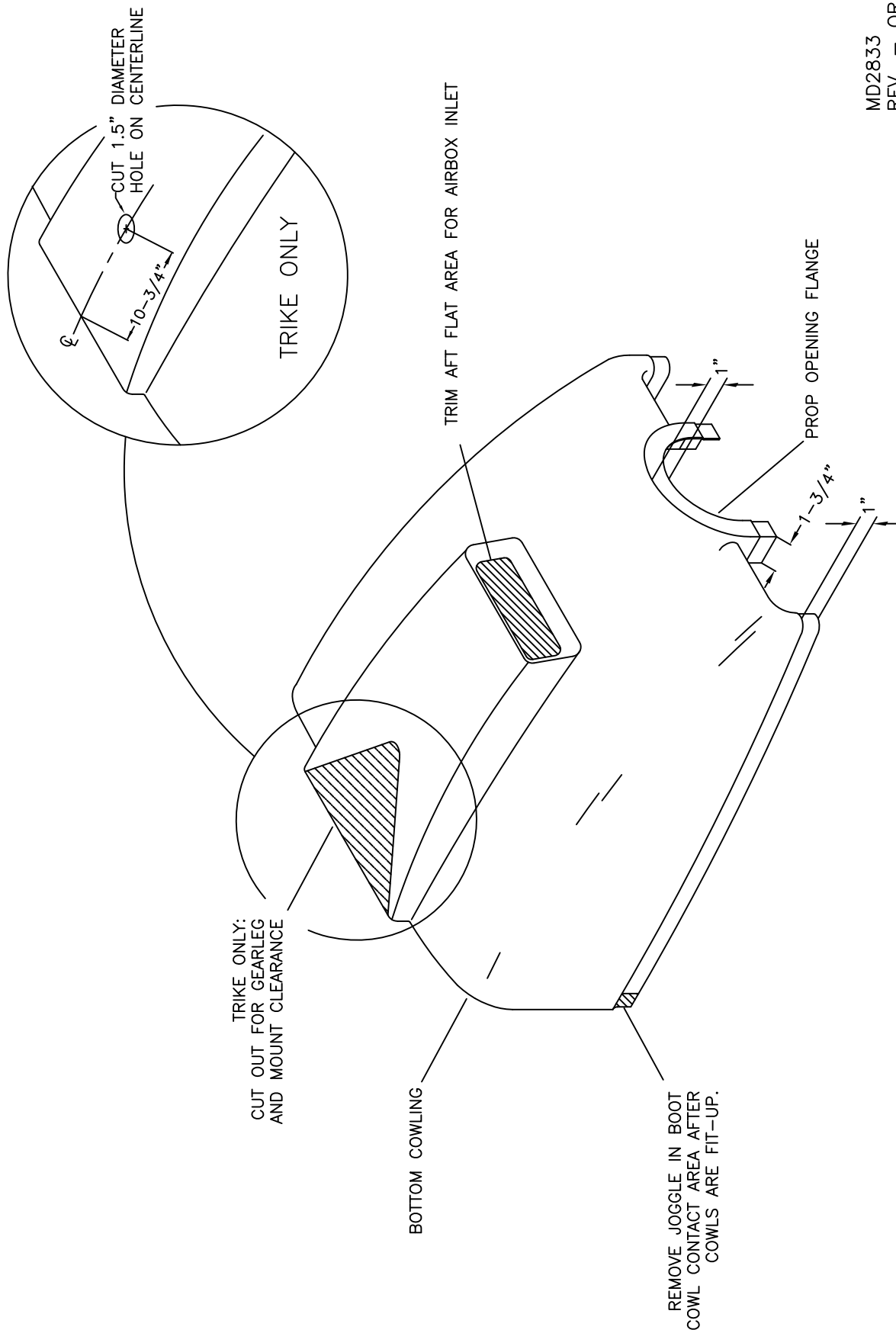
MD5228
REV. - ORIG



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

MD4402
REV. - ORIG

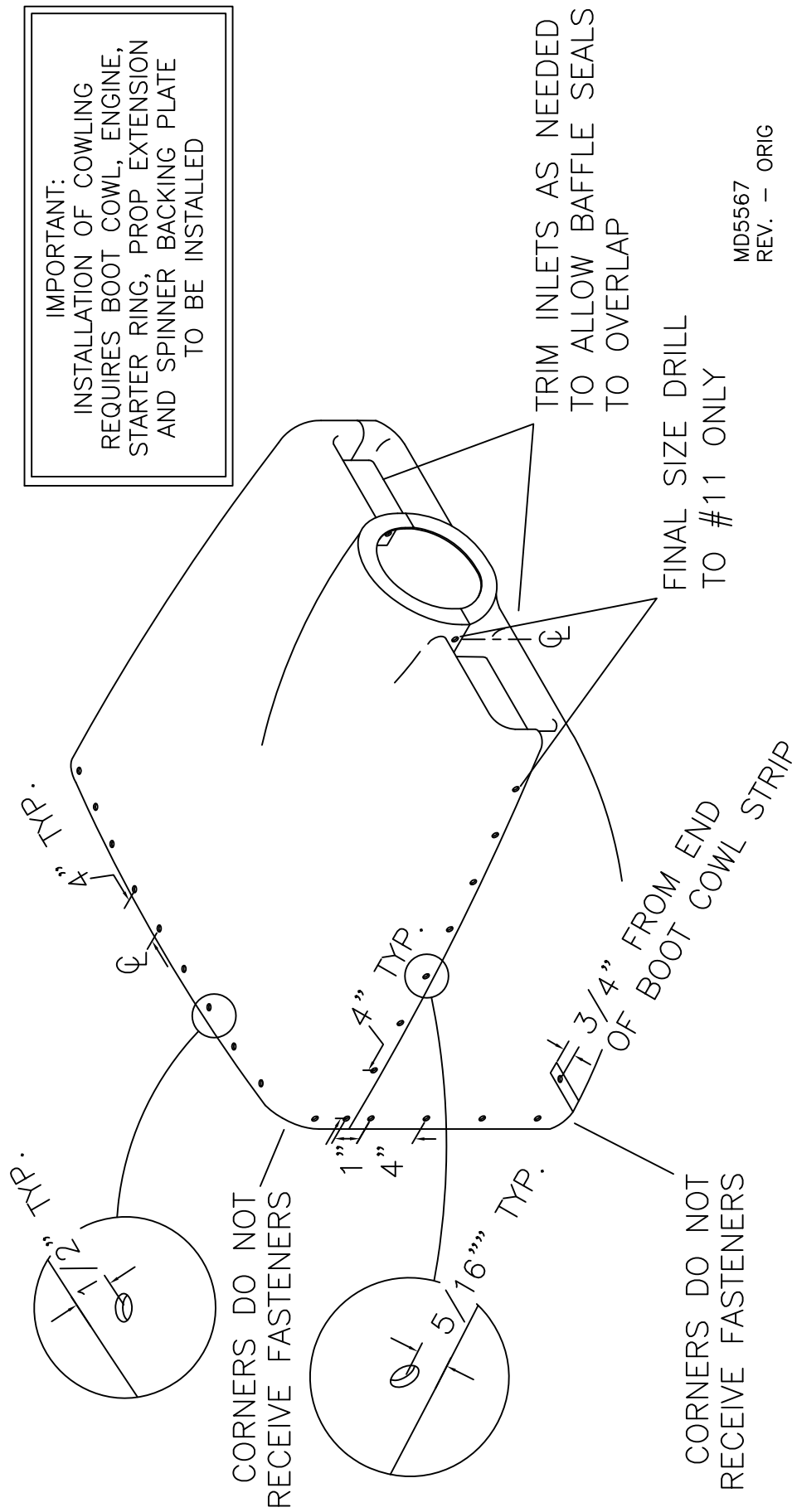
RRR S-21 OUTBOUND
TITAN X-340
COWLING TO SPINNER SPACING
FIGURE 11-22/TITAN340



MD2833
REV. - ORIG

RAMS S-21 OUTBOUND
TITAN X-340
BOTTOM COWLING MODIFICATION
FIGURE 11-23/TITAN340

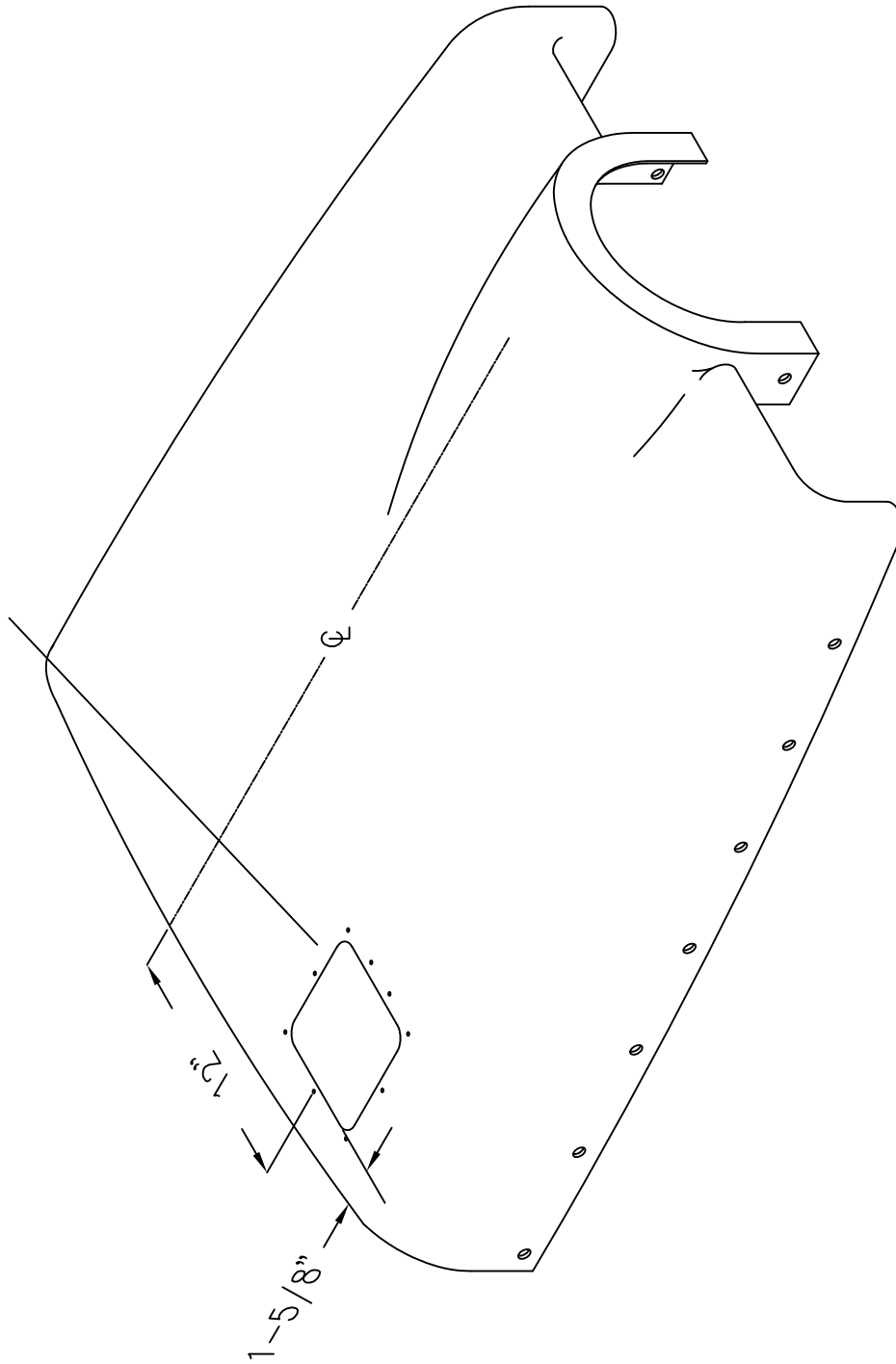
DRILL ALL LOCATIONS #40 FOR FIT-UP.
 THEN, TRANSFER DRILL #11 FOR
 RECEPTACLE RIVET LOCATING.



MD5567
 REV. - ORIG

RRR S-21 OUTBOUND
TITAN X-340
COWLING FASTENER LOCATION
FIGURE 11-24/TITAN340

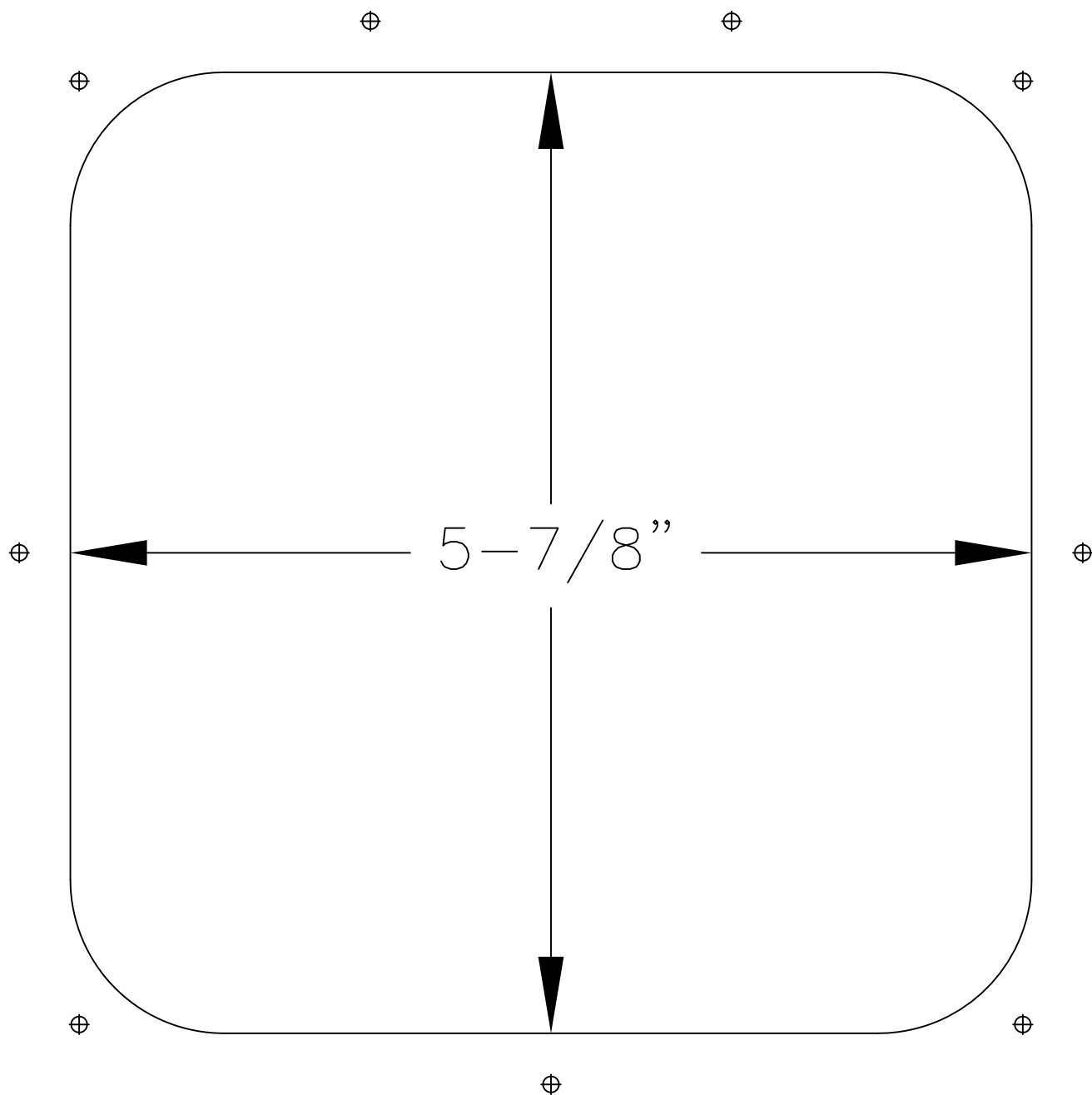
CUT AND DRILL USING 1:1 TEMPLATE.
 TEST FIT WITH OIL DOOR AND OIL DOOR FRAME.
 MAINTAIN SUFFICIENT CLEARANCE FOR PROPER
 OPERATION ONCE PAINTED.



MD4392
 REV. - ORIG

RRR S-21 OUTBOUND
TITAN X-340
OIL DOOR LOCATION
FIGURE 11-25/TITAN340

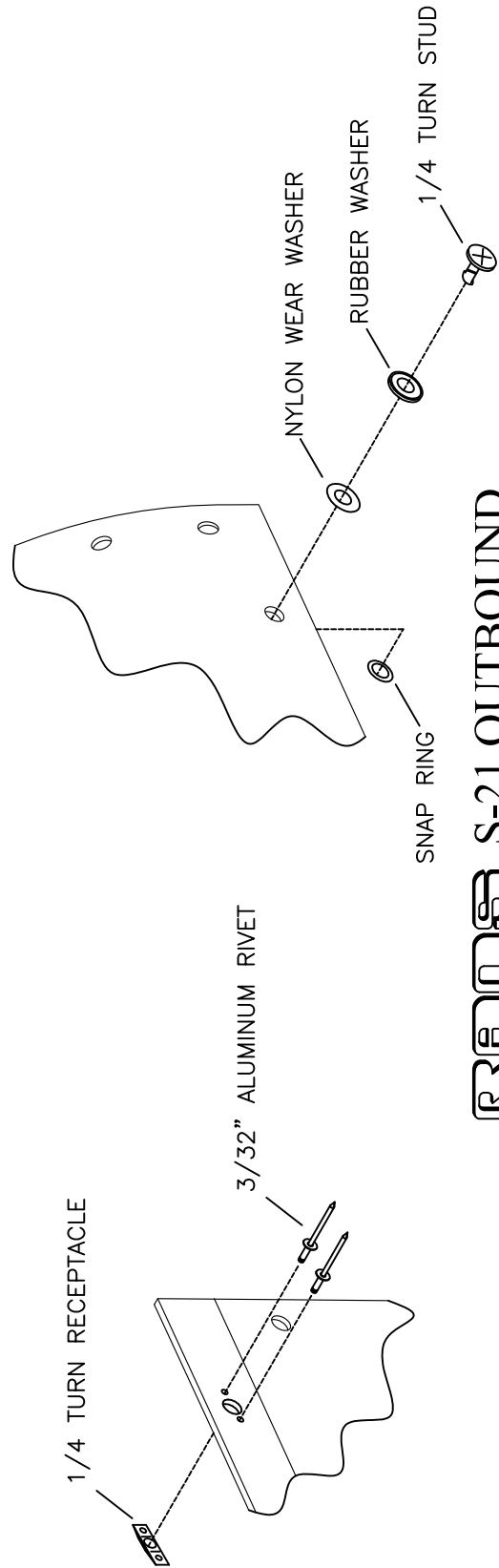
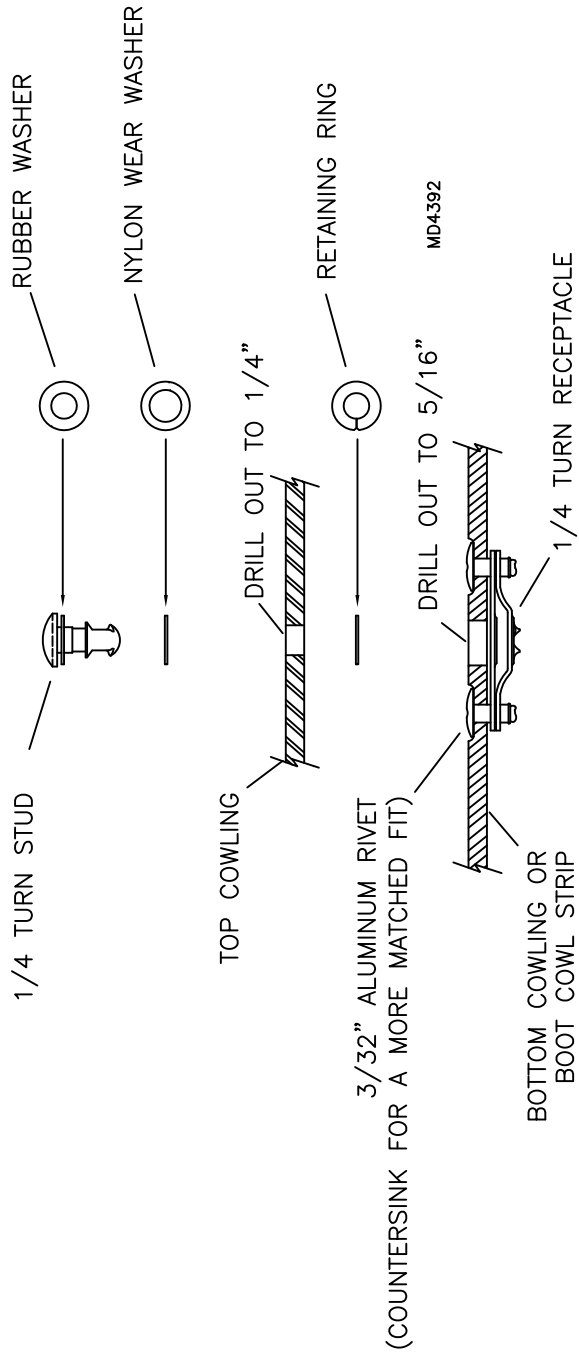
1 TO 1 TEMPLATE



RANS S-21 OUTBOUND
TITAN X-340
OIL CHECK DOOR TEMPLATE
FIGURE 11-26/TITAN340

MD4392
REV. — ORIG

09/11/2018

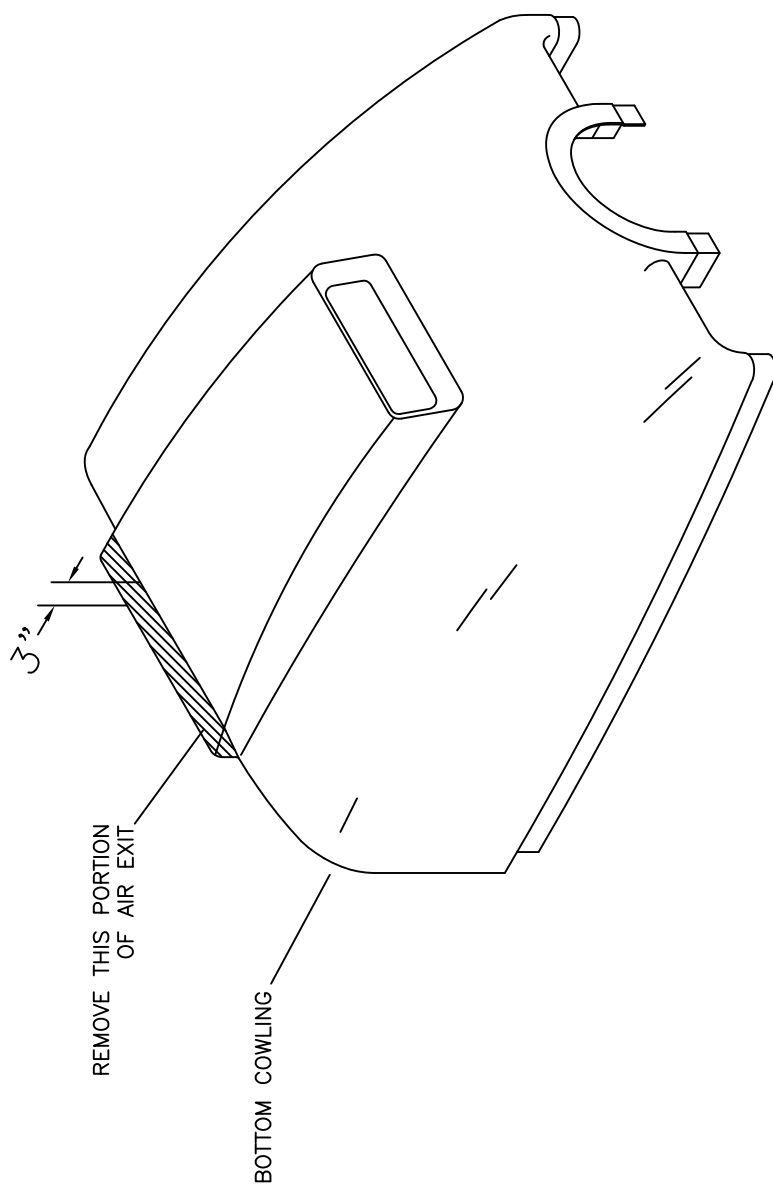


RAMS S-21 OUTBOUND

TITAN X-340

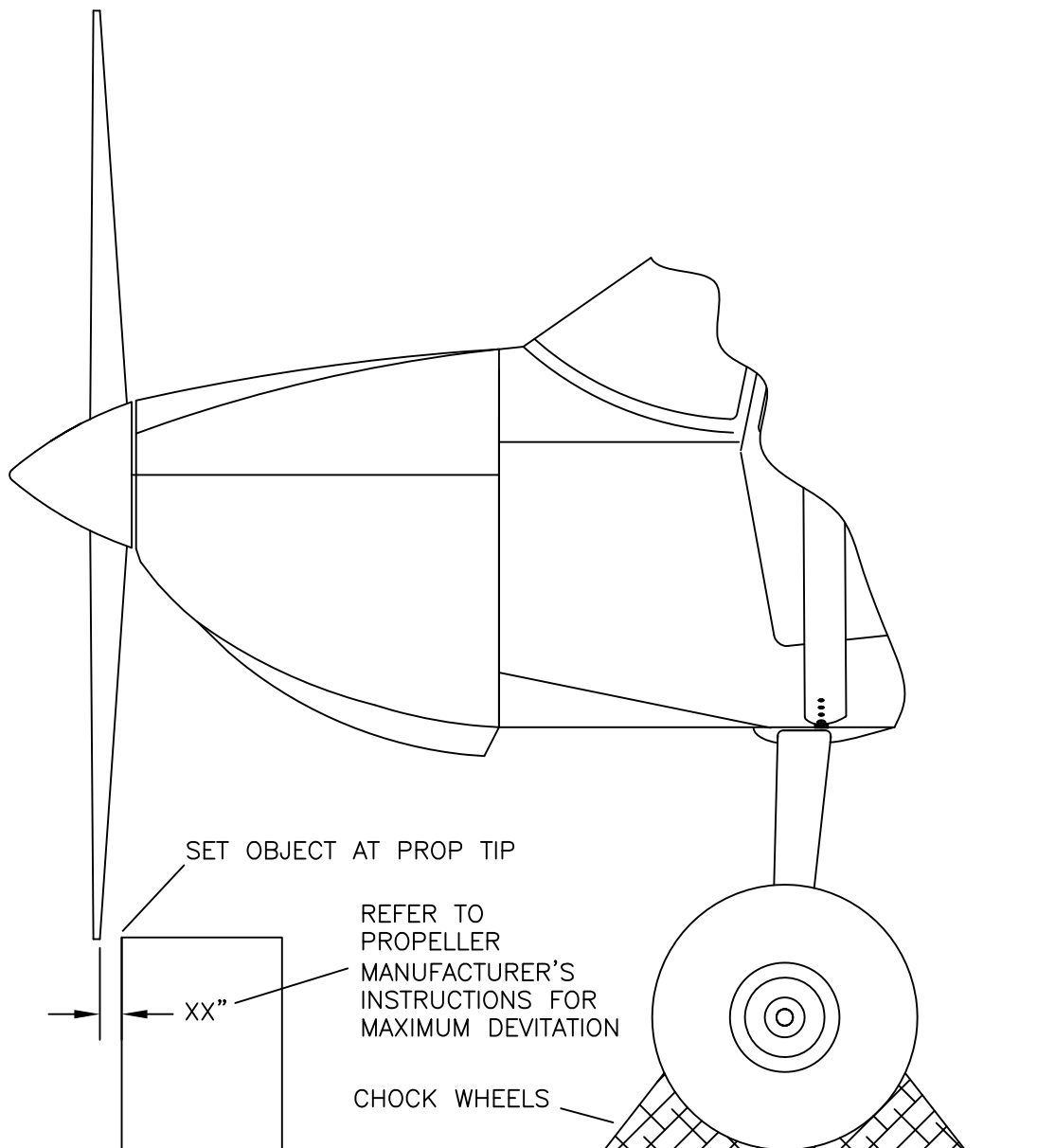
FIGURE 11-27/TITAN340

MD5143
REV. - ORIG



MD2833
REV. - ORIG

**RAMS S-21 OUTBOUND
TITAN X-340**
BOTTOM COWLING MODIFICATION
FIGURE 11-28/TITAN340



IMPORTANT!

RE-CHECK PROPELLER TORQUE PER MANUFACTURE'S RECOMMENDED INSPECTION INTERVAL. FAILURE TO MAINTAIN PROP TORQUE MAY RESULT IN SEPARATION OF THE PROPELLER FROM THE AIRCRAFT AND MAY CAUSE INJURY OR DEATH. REFER TO PROPELLER MANUFACTURER'S INSTRUCTIONS FOR ANY SPECIAL MAINTENANCE REQUIREMENTS.

RANS S-21 OUTBOUND TITAN X-340 PROPELLER TRACKING FIGURE 11-29/TITAN340

MD4380
REV. — ORIG

09/11/2018