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FUSELAGE SUPPORT TUBE ATTACHMENT

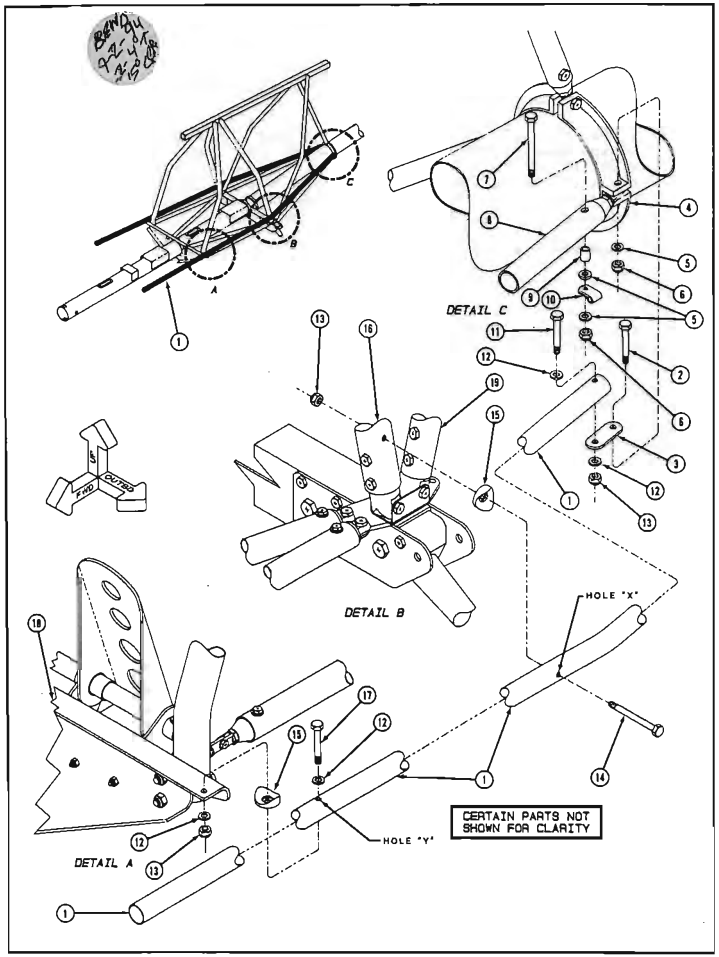
1. Assemble the AFT end of Tube (1) as illustrated FIRST. Tighten ALL Locknuts to proper torque. DO NOT DISTORT THE TUBE.

2. Align, drill and deburr a 3/16" (4.7 mm) diameter hole through the SIDE CENTERLINE of the Forward Downtube (16) for hole "X".

3. Back-drill and deburr using the SAME drill bit through the Forward Fuselage Bulkhead (18) and through the TOP CENTERLINE in the Fuselage Support Tube (1) for hole "Y".

4. Assemble the opposite (RIGHT) side in "mirror image".

Item	P/N	Qty	Description
1	45856	2	Fuselage Support Tube
2	10080		AN4-13A Bolt (previously installed)
3	20361	2	Light Weight Flat Tang
4			Tail Boom Flange (part of P/N 45012)
5	10560		1/4" Washer
6	10510		1/4" Locknut
7	10185	2	AN4-21A Bolt
8	45443		Aft Side Strut
9	20240	2	Pulley Bushing
10	91118	2	Cable Guide
11	10035	2	AN3-14A Bolt
12	10550	8	3/16" Washer
13	10500	4	3/16" Locknut
14	10056	2	AN3-27A Bolt
15	20265	4	7/8" x .25 H x.15 Thick Saddle
16	45467		Forward Downtube
17	10040	2	AN3-15A Bolt
18	45404		Forward Fuselage Bulkhead
19	45465		Aft Downtube

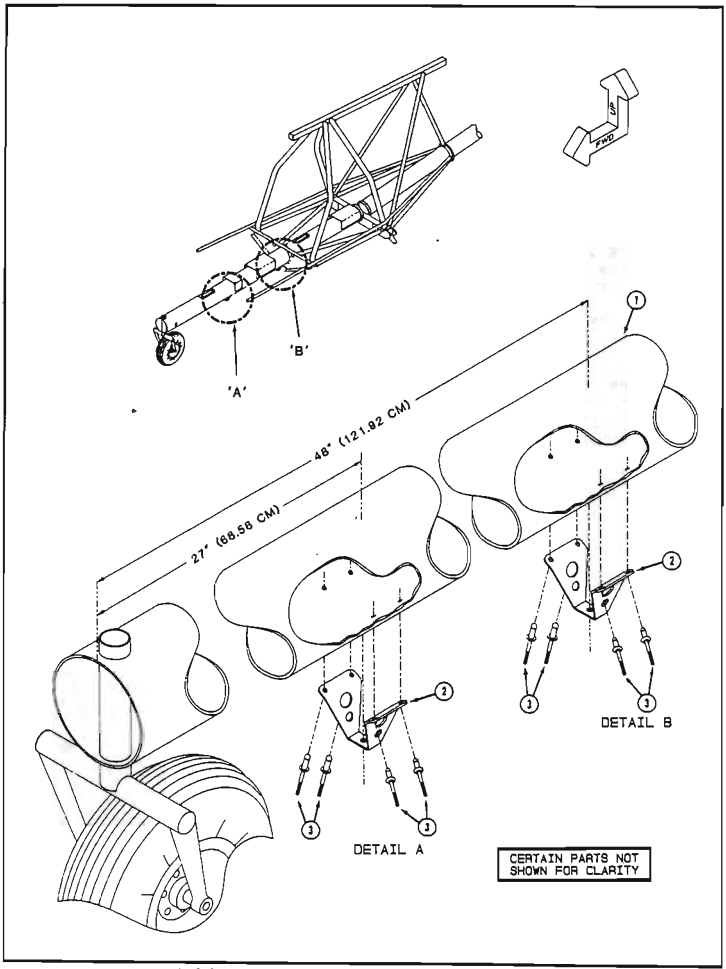

DETAIL C
DETAIL B
DETAIL A
HOLE "X"
HOLE "Y"
CERTAIN PARTS NOT SHOWN FOR CLARITY
OUTER
FWD

PILOT ENCLOSURE LOWER MOUNTING BRACKET ATTACHMENT

1. Measure AFT on the BOTTOM surface ONLY of the Forward Fuselage Tube Assembly (1). Mark BOTH locations on the BOTTOM CENTERLINE of the Tube. Ensure the Brackets (2) are ALIGNED VERTICALLY. Align the 1/4" (6.4 mm) CENTER hole in the Mount (2) EXACTLY OVER this location. Mark the FOUR 3/16" (4.7 mm) hole locations per Mount. Drill and deburr.

2. Assemble as illustrated.

Item	P/N	Qty	Description
1	45545		Forward Fuselage Tube Assembly
2	45454	2	Aft Pilot Pod Mount
3	20210	8	3/16" x 3/8" Grip Aluminum Rivet(AAP-66)


'A'
'B'
48" (121.92 CM)
27" (68.58 CM)
1
2
3
DETAIL A
DETAIL B
CERTAIN PARTS NOT SHOWN FOR CLARITY

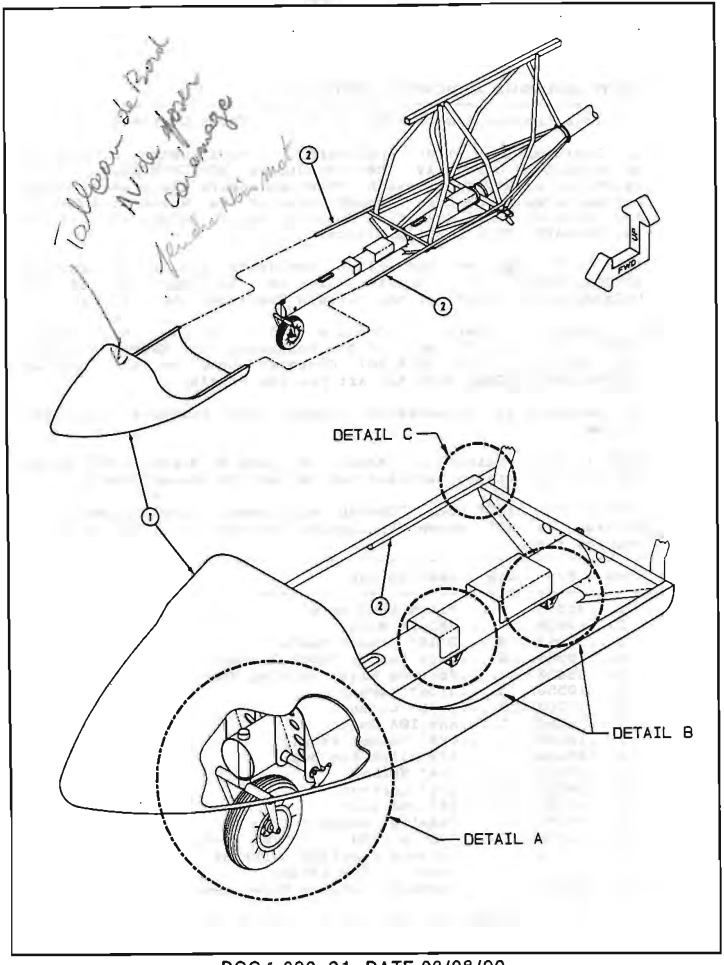
PILOT ENCLOSURE ATTACHMENT

NOTE 1: Before starting the following sequence the Rudder Pedal Pushrods (not illustrated) attached to the Rudder Pedals will either have to be TEMPORARILY disconnected or you may refer to pages 2-122 and 2-123 and prepare the Pilot Enclosure as illustrated as to allow the Pilot Enclosure to be "slipped on" as illustrated.

NOTE 2: You may wish to position the Pilot Enclosure, drill the holes and mount it TEMPORARILY then later remove it to paint it or paint it AFTER it is PERMANENTLY attached.

1. Refer to the following Pages 2-110 and 2-111 for Details 'A', 'B' and 'C'.

Item	P/N	Qty	Description
1	45578	1	Pilot Enclosure
2	45856		Fuselage Support Tube


DETAIL C
DETAIL B
DETAIL A

PILOT ENCLOSURE ATTACHMENT (CONT'D.)

1. Trim the Nipples off SIX [6] Rubber Shock Grommets (4).

2. Position the Pilot Enclosure (1) as illustrated. When it is positioned correctly there should be APPROXIMATELY 2 3/8" (6.03 cm) clearance between Pilot Enclosure (Instrument Panel cut-out area) and the FORWARD edge of the Bolts attached to the Control Wheel when the Control Wheel Support Tube is in the FORWARD (FULL DOWN) position.

The AFT edge of the Pilot Enclosure should be located APPROXIMATELY 1" - 1 1/4" (25.4 mm - 31.8 mm) AFT of the FORWARD edge ("Lip") of the Forward Fuselage Tube Bulkhead.

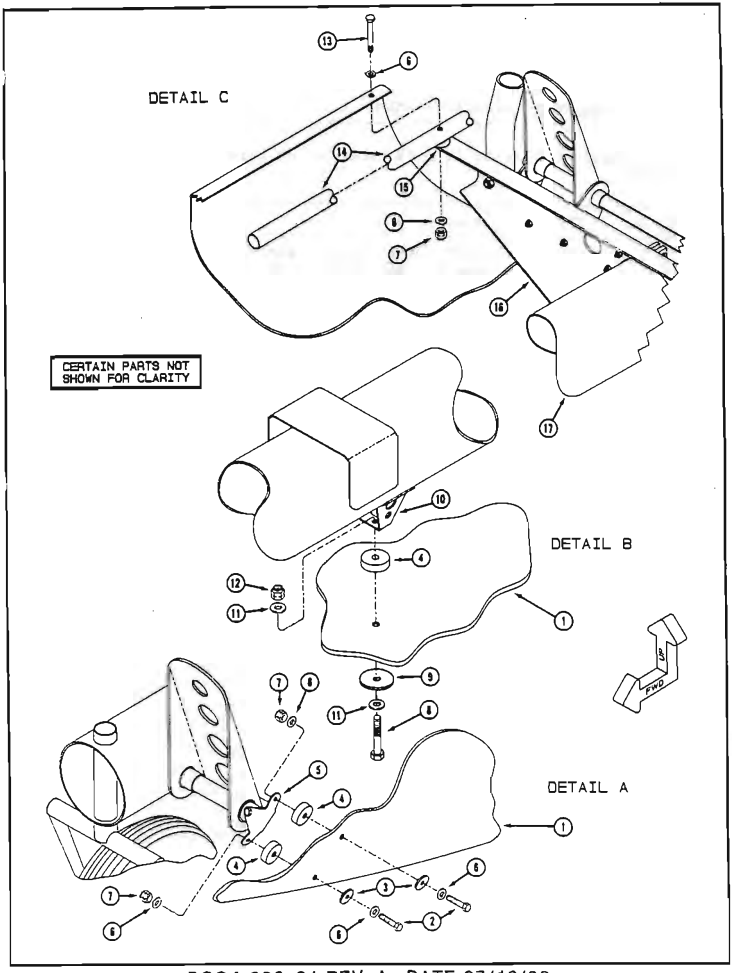
2. Refer to Detail 'C'. Drill a 3/16" (4.7 mm) hole in the UPPER AFT ("lip") edge of the Enclosure (1). Refer to Detail 'B'. Drill a 1/4" (6.4 mm) diameter hole on the BOTTOM CENTERLINE ALIGNED with the Aft Fairing Mounts.

3. Assemble as illustrated. Tighten ALL Locknuts to proper torque.

NOTE 1: The remaining Aft Mount (10) with Hardware is NOT shown for clarity. Attach Hardware and tighten to proper torque.

NOTE 2: The RIGHT side FORWARD attachment Pilot Enclosure (1) Hardware is NOT shown for clarity. Attach the RIGHT side in "mirror image".

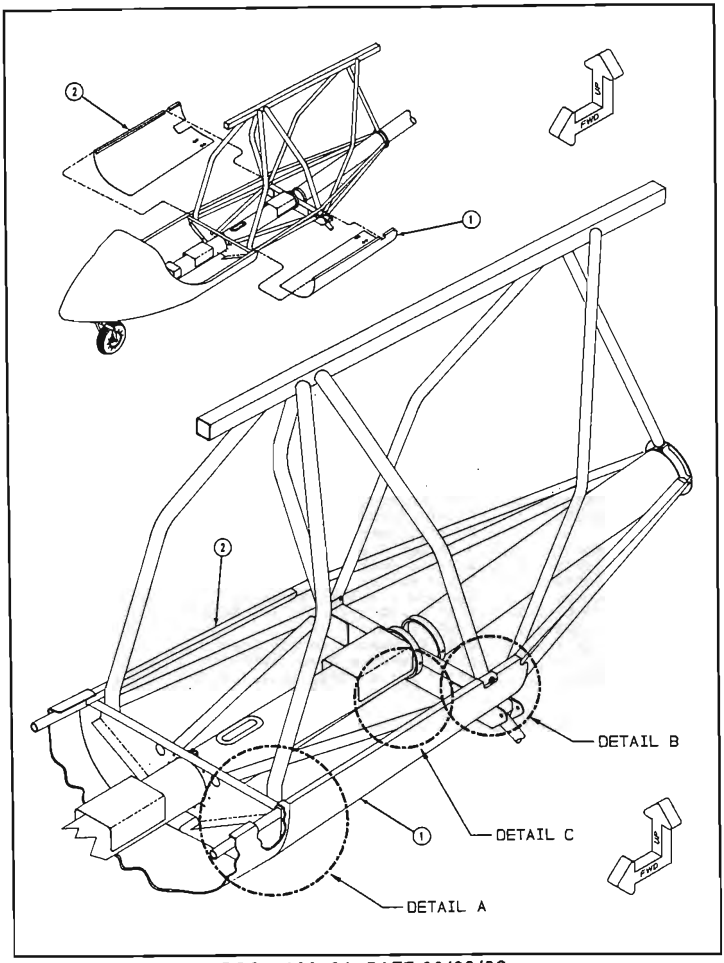
Item	P/N	Qty	Description
1	45578		Pilot Enclosure
2	10020	4	AN3-7A Bolt
3	10563	4	3/16" Fender Washer
4	30380	6	Soft Rubber Shock Grommet
5	45450		Forward Pilot Fairing Mount
6	10550	12	3/16" Washer
7	10500	6	3/16" Locknut
8	10066	1	AN4-10A Bolt
9	10565	1	1/4" Fender Washer
10	45454		Aft Pilot Pod Mount
11	10560	1	1/4" Washer
12	10510	1	1/4" Locknut
13	10045	2	AN3-16A Bolt
14	45856		Fuselage Support Tube
15	20265	2	7/8" x .25H x .15 THK Saddle
16			Forward Fuselage Bulkhead (part of P/N 45545)
17	45545		Forward Fuselage Tube Assembly


DETAIL C
CERTAIN PARTS NOT SHOWN FOR CLARITY
DETAIL B
DETAIL A
UP
FWD

LOWER CENTER FAIRING ATTACHMENT

1. Refer to Details 'A', 'B' and 'C' on this and the following pages.

Item	P/N	Qty	Description
1	46105		Left Lower Center Fairing
2	46106		Right Lower Center Fairing


2
1
UP
FWD
2
DETAIL B
1
DETAIL C
UP
FWD
DETAIL A

LOWER CENTER FAIRING ATTACHMENT (CONT'D.)

1. Backdrill a 3/16" (4.7 mm) diameter hole through the Forward Fuselage Bulkhead (5) into and through the CENTERLINE of the Fuselage Support Tube (2). Assemble as illustrated. Tighten ALL Locknuts to proper torque. DO NOT DISTORT THE TUBE.

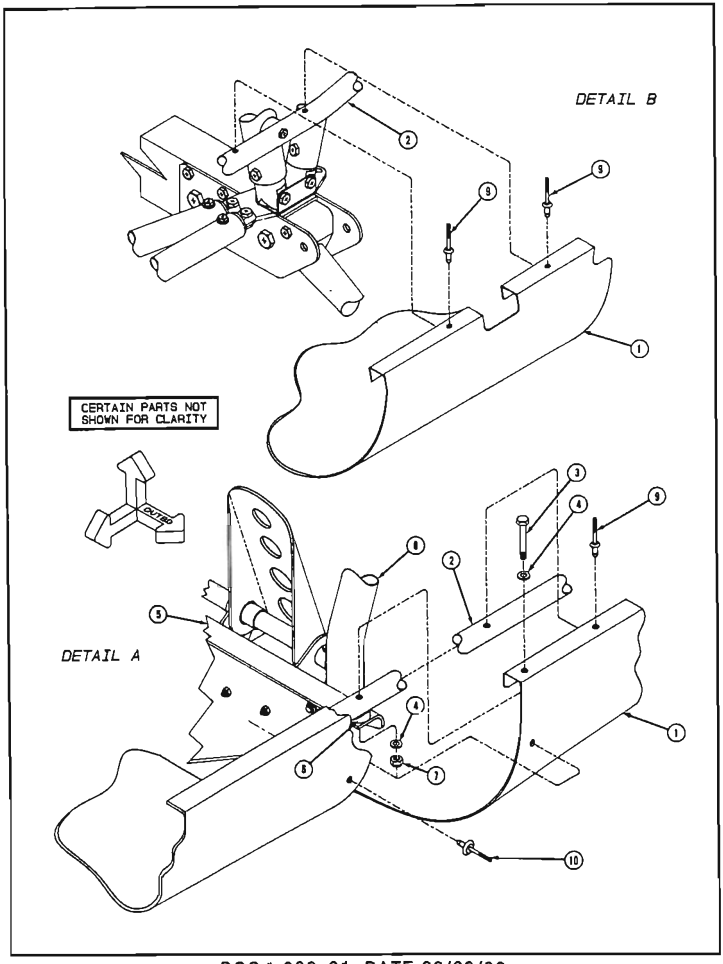
IMPORTANT: BOTH Lower Center Fairings (1) are to be attached to the INSIDE of the Pilot Enclosure (11) or allow the Pilot Enclosure to OVERLAP the OUTSIDE of the FORWARD edge of BOTH Center Fairings (1).

2. Drill and deburr 1/8" (3.2 mm) diameter holes for Rivets (9) as required [APPROXIMATELY every THREE inches (7.62 cm)].

IMPORTANT: The "General Rule"when working with this Fiberglass Pilot Enclosure is to ALWAYS use the Large Head Rivets (10) to secure the Pilot Enclosure to the Forward Fuselage.

3. Repeat on the opposite (RIGHT) side in 'mirror image'.

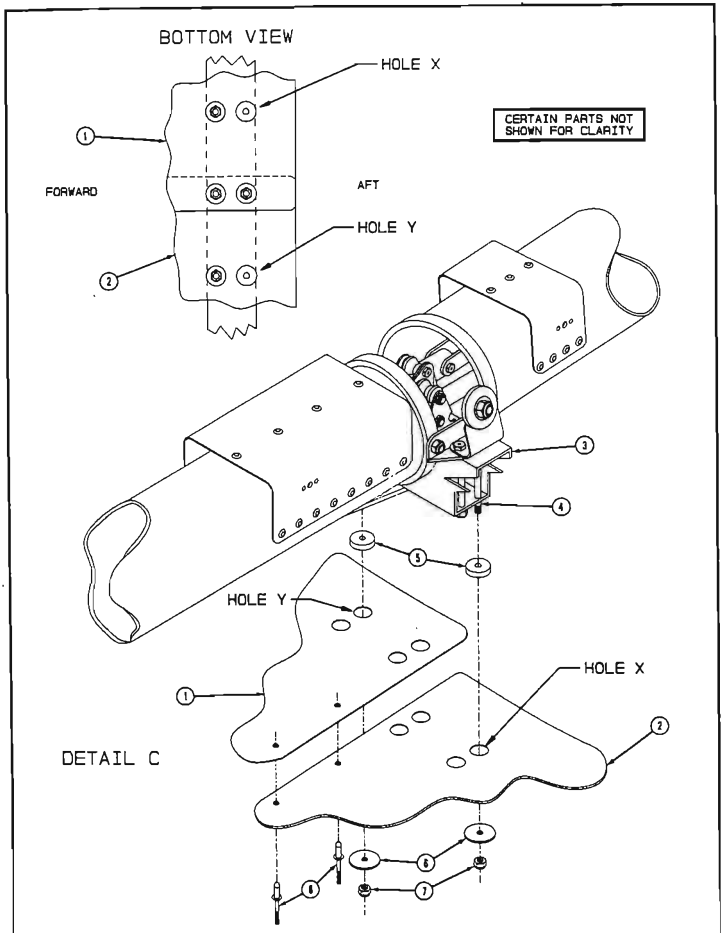
Item	P/N	Qty	Description
1	46105	1	Left Lower Center Fairing
	46106	1	Right Lower Center Fairing (not illustrated)
2	45856		Fuselage Support Tube
3	10045	2	AN3-16A Bolt
4	10550	4	3/16" Washer
5	45404		Forward Fuselage Bulkhead
6	20265	2	7/8" x .25"H x .15" THK Saddle
7	10500	2	3/16" Locknut
8	45471		Left Forward Fuselage Downtube
9	20200		1/8" Aluminum Rivet (AAP-44)
10	20194		3/16" x 1/4" Grip Aluminum "L" Flange Rivet


DETAIL B
CERTAIN PARTS NOT SHOWN FOR CLARITY
DETAIL A
OUTER
1
2
3
4
5
6
7
8
9
10

LOWER CENTER FAIRING AFT ATTACHMENT

1. Assemble as illustrated. Tighten ALL Locknuts to proper torque.

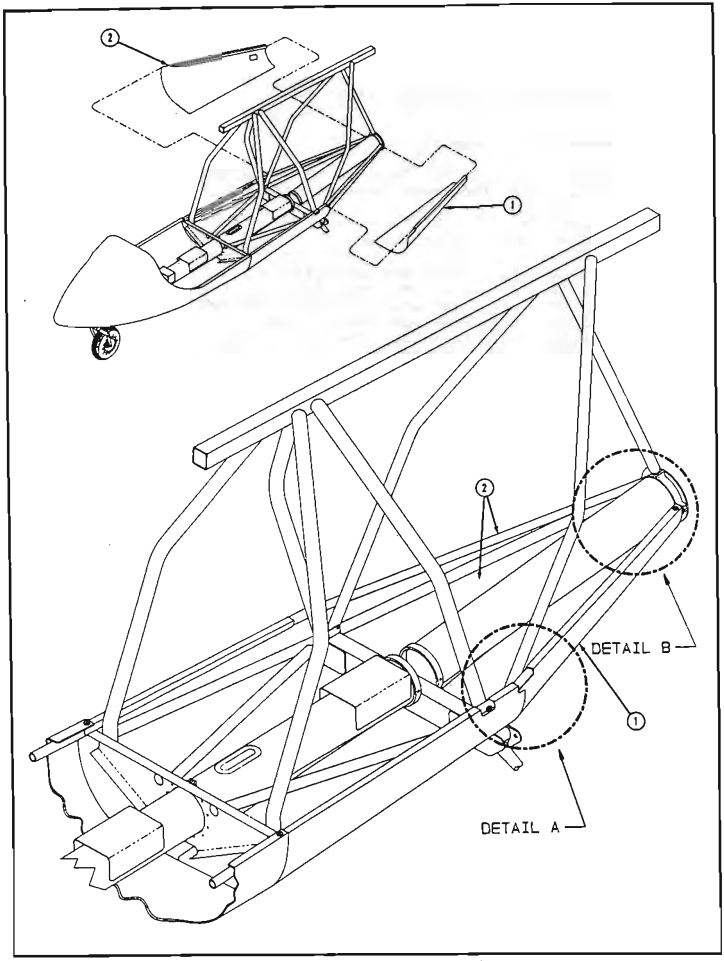
Item	P/N	Qty	Description
1	46106		Right Lower Center Fairing
2	46105		Left Lower Center Fairing
3	45463		Landing Gear Carry Thru
4	10296		AN4-40A Bolt
5	20346		1/4" Thick x 1" O.D. Nylon Washer
6	10565		1/4" Fender Washer
7	10560		1/4" Locknut
8	20200		1/8" Aluminum Rivet (AAP-44)


BOTTOM VIEW
HOLE X
CERTAIN PARTS NOT SHOWN FOR CLARITY
FORWARD
AFT
HOLE Y
1
2
3
4
5
HOLE Y
HOLE X
DETAIL C
6
7
8

LOWER AFT FAIRING ATTACHMENT

1. Refer to Details 'A' and 'B' and the following pages.

Item	P/N	Qty	Description
1	46110		Lower Left Aft Fairing
2	46111		Lower Right Aft Fairing

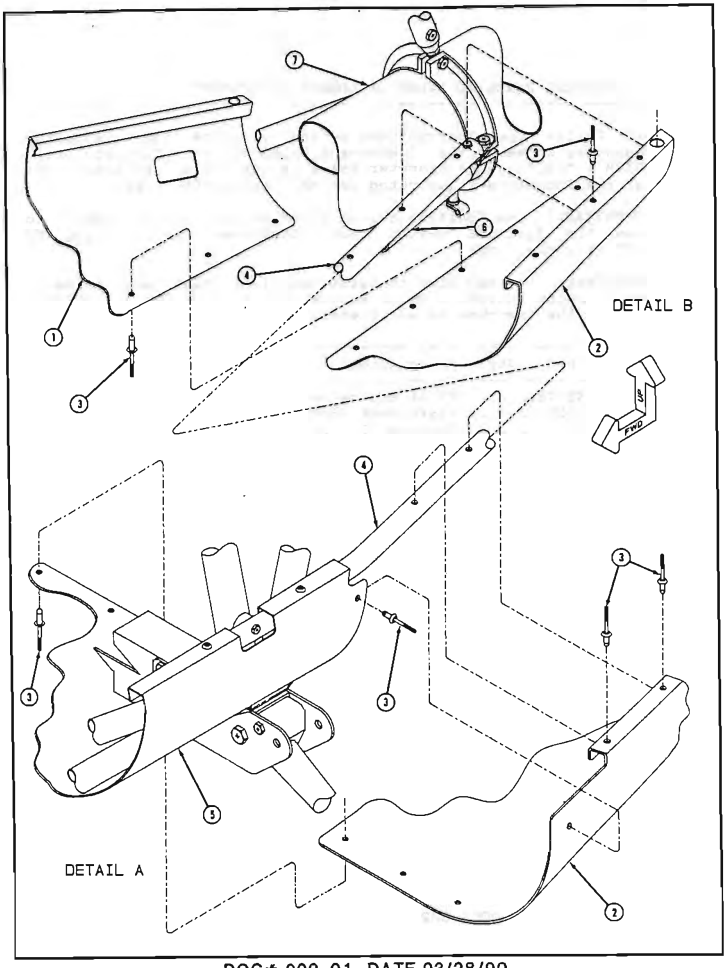

2
1
2
DETAIL B
1
DETAIL A

LOWER AFT FAIRING ATTACHMENT (CONT'D.)

1. Assemble as illustrated.

IMPORTANT: The Lower Aft Fairings are to be attached INBOARD or on the INSIDE of the Lower Center Fairings.

Item	P/N	Qty	Description
1	46111	1	Right Aft Lower Fairing
2	46110	1	Left Aft Lower Fairing
3	20200	.....	1/8" Aluminum Rivet (AAP-44)
4	45856	.....	Fuselage Support Tube
5	46105	.....	Left Lower Center Fairing
6	45443	.....	Aft Side Strut


DETAIL B
DETAIL A
UP
FWD

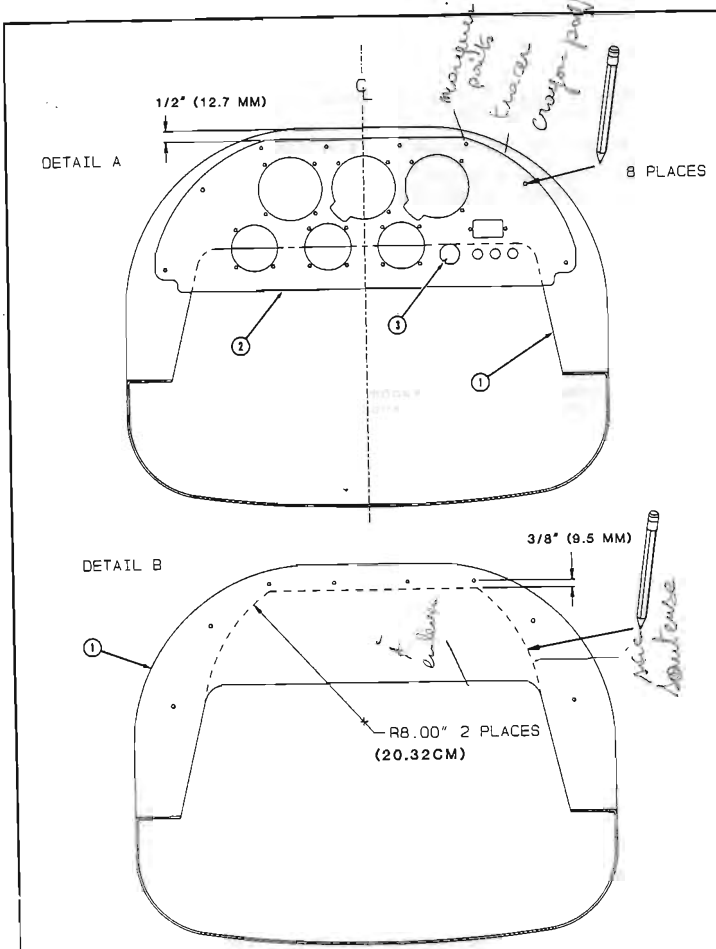
INSTRUMENT PANEL TO PILOT ENCLOSURE ATTACHMENT

1. Follow the Instructions on the opposite page. Using the mounting holes in the Instrument Panel (2) as a Template Drill EIGHT 5/32" (4 mm) diameter holes in the Pilot Enclosure (1) at the locations illustrated for the Instrument Panel.

IMPORTANT: The Ignition Switch Index Locator (3) is there to keep the Ignition Switch (not illustrated) from rotating. DO NOT file the off!

OPTIONAL: You may wish to paint your Instrument Panel to match your Pilot Enclosure color scheme or use Black "Wrinkle" Paint BEFORE the instruments are installed.

Item	P/N	Qty	Description
1	45578		Pilot Enclosure
2	45574	1	Instrument Panel
3			Ignition Switch Index Locator


1/2" (12.7 MM)
DETAIL A
8 PLACES
3/8" (9.5 MM)
DETAIL B
R8.00" 2 PLACES
(20.32CM)

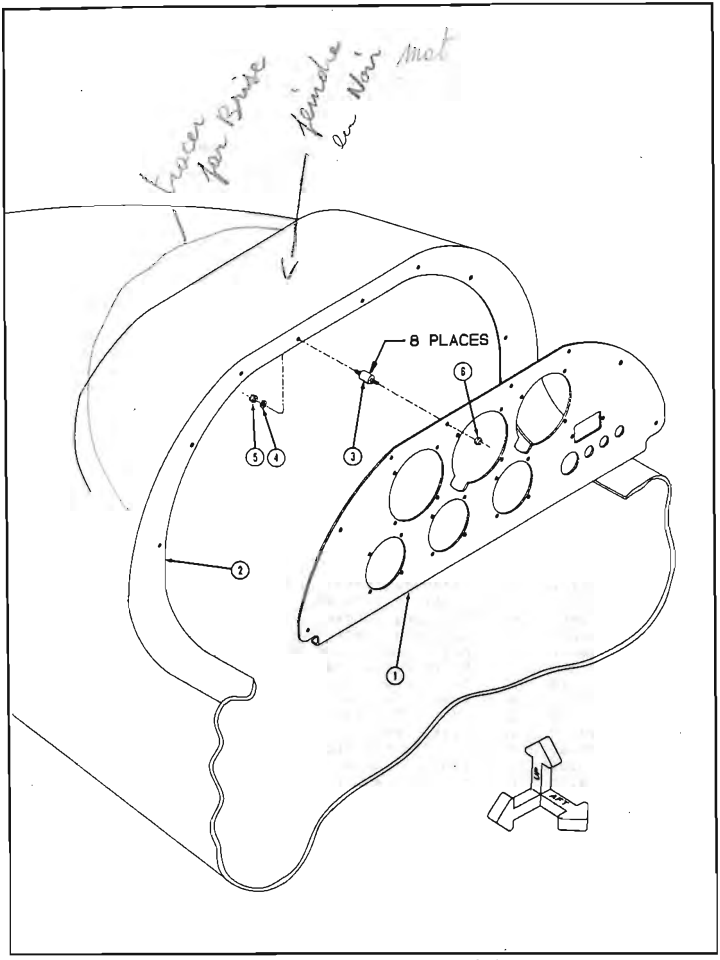
INSTRUMENT PANEL TO PILOT ENCLOSURE ATTACHMENT (CONT'D.)

1. Follow the instructions on the opposite page.

NOTE 1: Use the Instrument Panel (1) as a Template ONLY. DO NOT attach the Panel to the Pilot Enclosure at this time.

NOTE 2: It is more preferable to mount the Instrument Panel to the Pilot Enclosure (2) AFTER the Instruments have been installed.

Item	P/N	Qty	Description
1	45574		Instrument Panel
2	45578		Pilot Enclosure
3	45576	8	8-32 x 1.25 Shock Mount
4	10550	8	3/16" Washer
5	11002	16	8-32 Locknut


8 PLACES
1
2
3
4
5
6

AIRSPEED ATTACHMENT TO INSTRUMENT PANEL
AND PITOT TUBE / STATIC PORT ATTACHMENT

1. Follow the Instructions on the opposite page.

2. Measure 6" (15.24 cm) AFT [on the TOP CENTERLINE] from the NOSE of the Pilot Enclosure. Mark this location. Drill a 1/4" (6.4 mm) diameter hole and FOUR 3/16" (4.8 mm) holes to mount the Pitot Tube Assembly (5).

NOTE: Use the FOUR attachment holes in the Pitot Tube (5) as a guide.

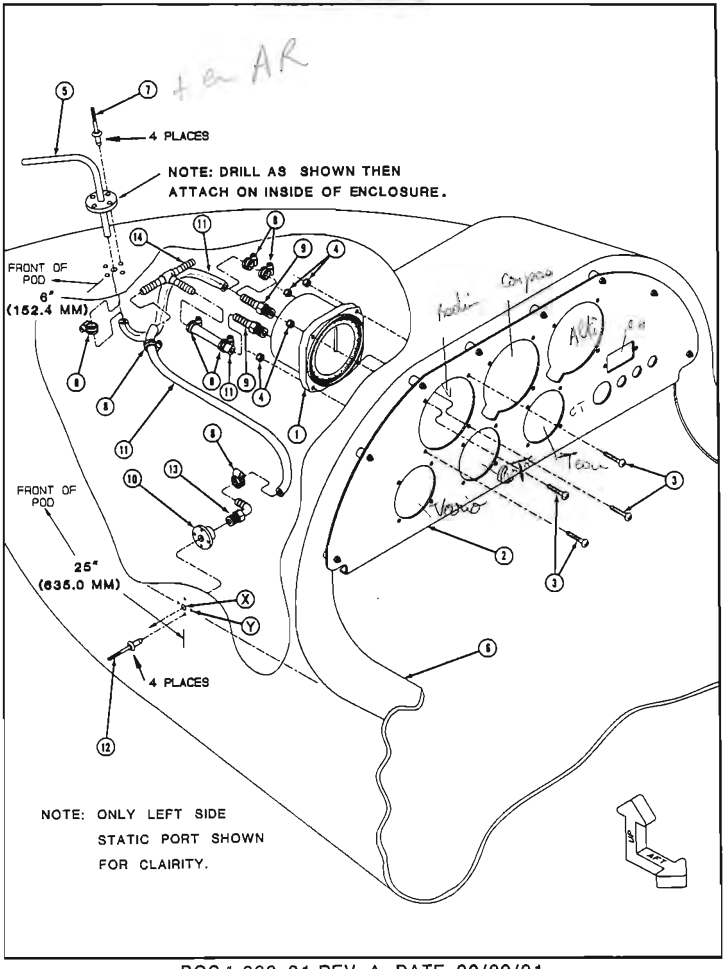
IMPORTANT: Mount the Pitot Tube (5) facing STRAIGHT FORWARD.

3. Measure and Mark the Static Port location at 34" (86.36 cm) AFT of the NOSE on the LEFT side of the Pilot Enclosure as illustrated. Drill HOLE "X", ONE 1/4" (6.4 mm) diameter hole, and FOUR 1/8" (3.2 mm) diameter holes "Y" as required to attach the Static Port.

4. Thread the Adapters (9) into the BACK of the Airspeed Indicator (1). Install as illustrated using Hardware (3) and (4).

5. Cut the lengths of Tubing (11) as required.

Item	P/N	Qty	Description
1	90134	1	Airspeed Indicator
2	45574		Instrument Panel
3	11065	4	Mounting Screws (part of P/N 90134)
4	11067	4	Locknuts (part of P/N 90134)
5	90140	1	Pitot Tube Assembly
6	45578		Pilot Enclosure
7	20210	4	3/16" Alumunum Rivet (AAP-64)
8	30230	4	Fuel Line Clamps
9	90150	2	1/8" NPT x 1/4" Hose Adapter
10	90159	1	Static Port
11	39980	A/R	3/16" Vinyl Tubing
12	20200	4	1/8" Aluminum Rivet (AAP-44)
13	90155	1	1/4" NPT x 1/4" Hose Elbow


4 PLACES
NOTE: DRILL AS SHOWN THEN
ATTACH ON INSIDE OF ENCLOSURE.
FRONT OF POD
6"
(152.4 MM)
FRONT OF POD
25"
(635.0 MM)
4 PLACES
NOTE: ONLY LEFT SIDE
STATIC PORT SHOWN
FOR CLAIRITY.

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FUEL TANK SUB-ASSEMBLY

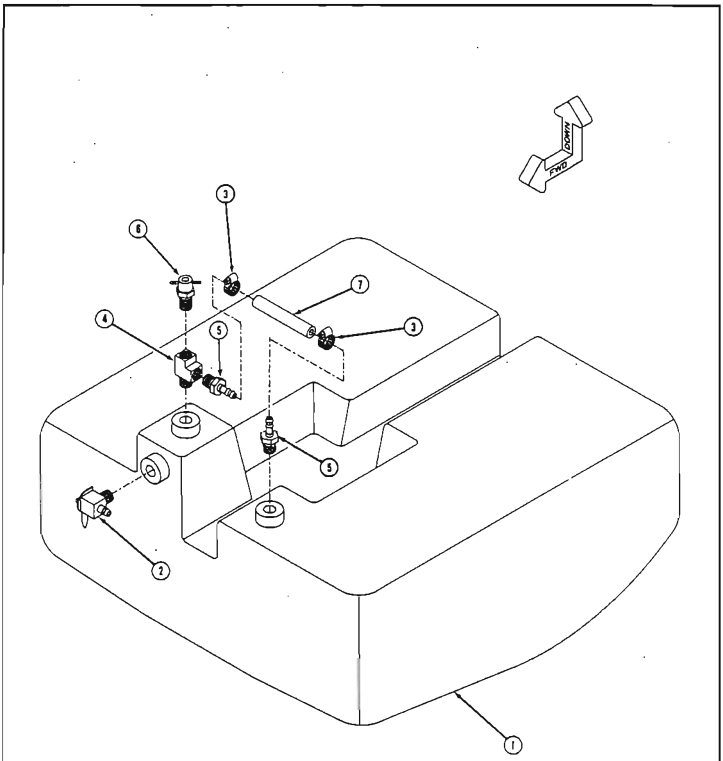
IMPORTANT: Verify the INSIDE of the Fuel Tank (1) is CLEAN and free of any foreign objects that would "clog" the flow of fuel. Remove ALL foreign objects from the INSIDE the Tank if present.

NOTE: Wrap a SMALL amount of Teflon Tape (not illustrated) around the threads of the On/Off Valve (2), Elbow (3) and Fittings (4,5 and 6) in the proper direction of installation.

1. Assemble as illustrated but DO NOT attach the Fuel Line (7) until AFTER the Fuel Tank has been attached to the Root Tube on pages 2-134 and 2-135. Cut the Fuel Line as required. Ensure the Fuel Line is NOT "kinked". DO NOT OVER TORQUE the Fuel Line Clamps (3).

NOTE: Refer to your aircraft OWNERS MANUAL Pre-Flight Section regarding proper use of the Drain Valve (6) in removing contaminates from the Fuel Tank.

Item	P/N	Qty	Description
1	30254	1	8.5 Gallon Fuel Tank Assembly (Includes Fuel Tank Cap)
2	30282	1	Cut-Off Valve
3	30230	2	Fuel Line Clamps
4	30272	1	Street Tee
5	30274	2	1/4" MPT x 1/4" Fuel Hose Adaptor
6	30273	1	Drain Valve
7	30220	A/R	Fuel Line

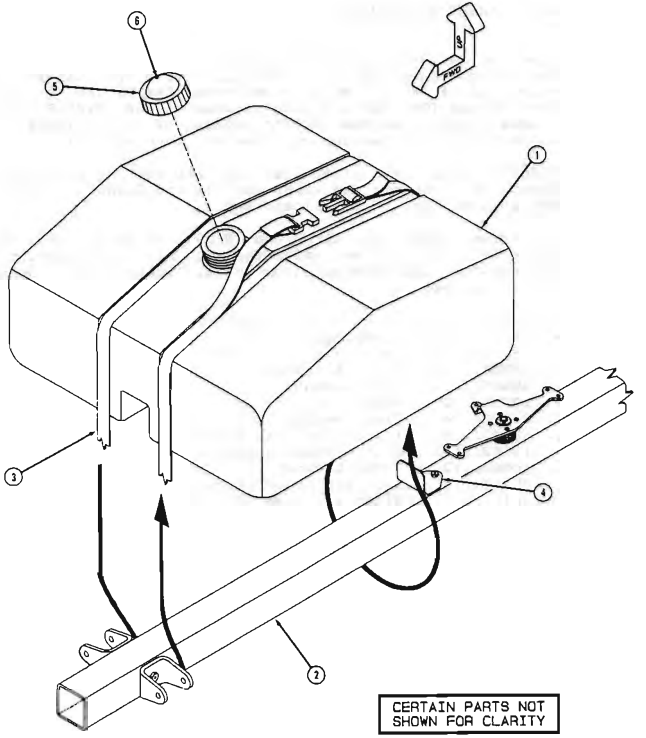

FWD
DOWN
1
2
3
4
5
6
7
8

FUEL TANK ASSEMBLY AND ATTACHMENT

1. Attach the Fuel Tank (1) with the Strap (3) as illustrated.

IMPORTANT: Verify the Fuel Tank Cap (5) Vent Hole (6) is UNOBSTRUCTED BEFORE attaching the Fuel Tank Cap to the Fuel Tank (1).

Item	P/N	Qty	Description
1	30254	1	8.5 Gallon Fuel Tank Assembly
2	45545		Root Tube
3	45490	1	Fuel Tank Attach Strap
4	45543		Fuel Tank Stop Bracket
5	30260		Fuel Tank Cap (part of P/N 30254)
6			Vent Hole


6
5
1
3
4
2
CERTAIN PARTS NOT SHOWN FOR CLARITY

PYLON BULKHEAD ATTACHMENT

1. Locate the 3/16" (4.8 mm) diameter (factory punched) holes in the Pylon Bulkhead (1) that align with the Clamps (5). There should be TWO (2) sets (a set consistes of TWO (2) holes) located at the TOP, TWO (2) sets located in the MIDDLE and TWO (2) sets located on the BOTTOM edges of the Bulkhead. The attachment holes correspond with the Aft Downtube (2).

2. LIGHTLY attach the Clamps (5) (so that you may position the Bulkhead as required for alignemnt) to the Bulkhead (1) with Hardware (3,4,6 and 7) as illustrated

3. Position BOTH the LEFT and RIGHT sides of the Pylon Bulkhead (1) 1/8" (3.2 mm) ABOVE the Left Aft Lower Fairing (8) as illustrated. Assemble as illustrated. Tighten ALL Locknuts to proper torque.

Item	P/N	Qty	Description
1	45583	1	Pylon Bulkhead
2	45465		Aft Downtube
3	10015	12	AN3-6A Bolt
4	10550	24	3/16" Washer
5	45052	6	1 1/8" Bulkhead Tube Clamp
6	10563	12	3/16" Fender Washer
7	10500	12	3/16" Locknut
8	46110		Left Aft Lower Fairing
9	46111		Right Aft Lower Fairing

2-136A

LOWER PYLON COVER DOUBLER ATTACHMENT

1. Using the Lower Pylon Cover Doubler (1) as a template, TEMPORARILY position it as illustrated against the OUTSIDE of the Aluminum Pylon Cover (2) by aligning the TWO EXISTING 3/16" (4.8 mm) diameter holes on the LOWER edge of the Doubler with the TWO matching holes in the Pylon Cover. TEMPORARILY insert a TWO Rivets (4) (not illustrated) to hold the Doubler in place. DO NOT 'pop' the Rivet.

NOTE 1: Refer to pages 2-140 and 2-141 if necessary.

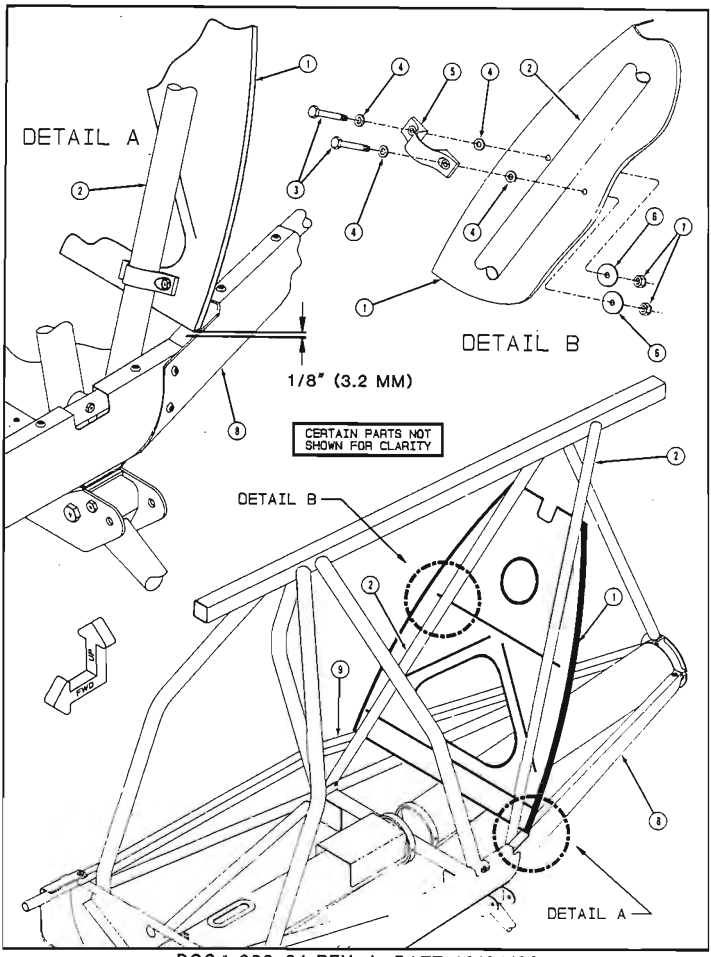
NOTE 2: The Doubler (1) is to be **attached** later to the INSIDE of the Pylon Cover (2) as illustrated.

2. Using the EXISTING 1/8" (3.2 mm) diameter holes as a guide, back-drill thru the ELEVEN holes in the Doubler (1) and thru the Aluminum Pylon Cover (2). TEMPORARILY insert Rivets (as necessary) to hold it in place while you drill the remaining holes.

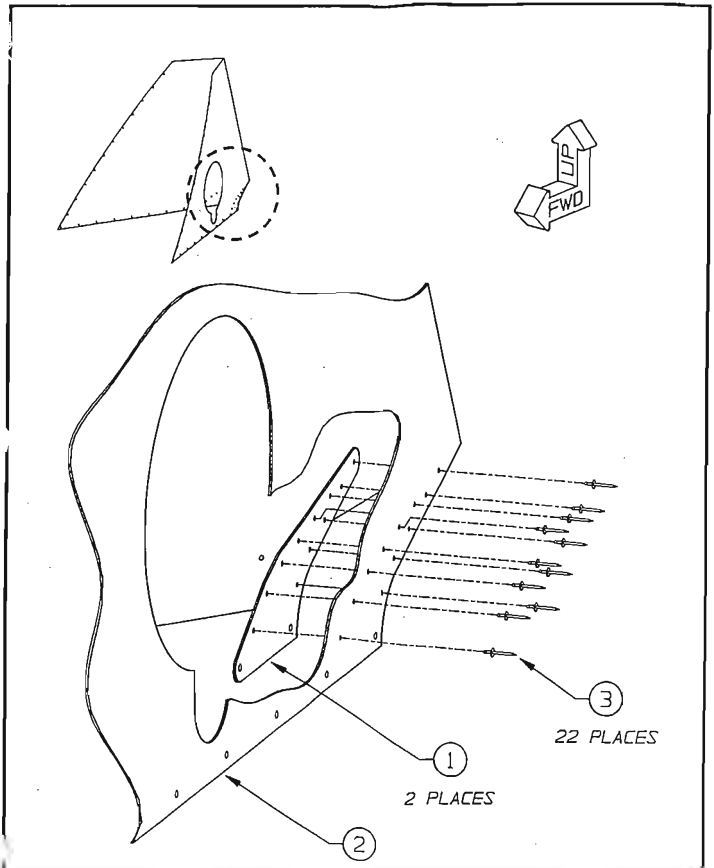
3. After all ELEVEN holes are drilled, remove the Rivets (3) and (4) (not illustrated) TEMPORARILY holding the Doubler (1). Attach the Doubler as illustrated to the INSIDE of the Pylon Cover (2). Ensure all Rivets (3) are 'popped' correctly.

4. Repeat Steps 1-3 on the opposite side of the Aft Pylon in mirror image.

Item	P/N	Qty	Description
1	46342	2	Lower Pylon Cover Doubler
2	46340		Aluminum Pylon Cover
3	20199	22	1/8" x 1/4" Grip Aluminum Rivet (AAP-44)
4	20195		3/16" x 1/4" Grip Aluminum Rivet (AAP-64) (not illustrated)


DETAIL A
DETAIL B
1/8" (3.2 MM)
CERTAIN PARTS NOT SHOWN FOR CLARITY
DETAIL B
DETAIL A
FWD

LOWER PYLON COVER DOUBLER ATTACHMENT

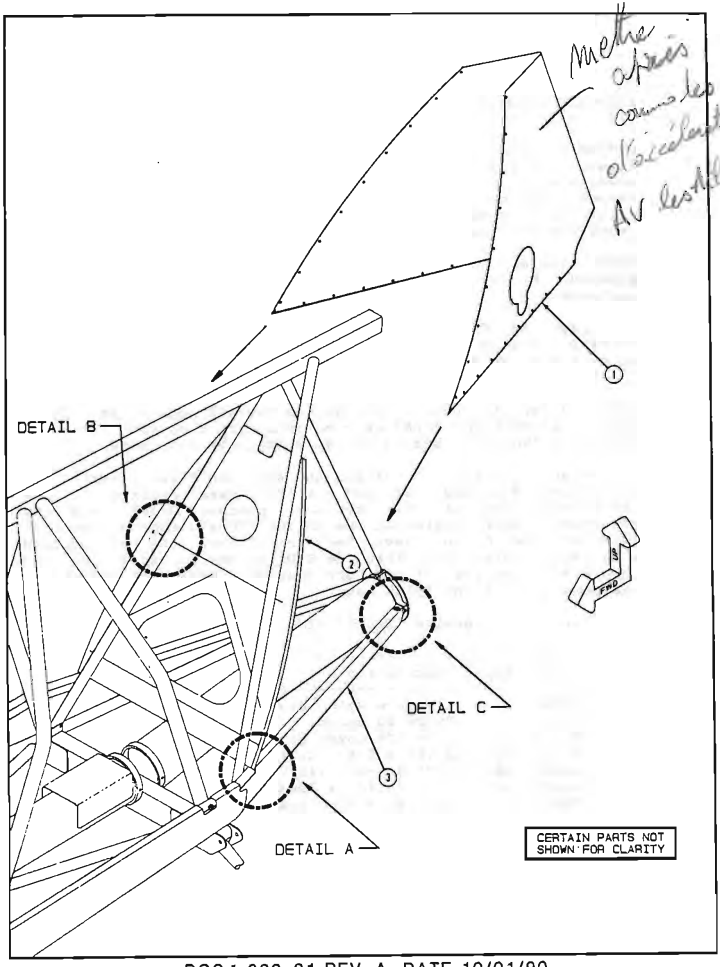


ALUMINUM PYLON COVER ATTACHMENT

1. Position the Aluminum Pylon Cover (1) onto the Fuselage as illustrated. Refer to the following pages 2-140 and 2-141 for Details 'A','B' and 'C'.

NOTE: You may wish to use masking tape to TEMPORARILY position the Aluminum Pylon Cover as per the following page.

Item	P/N	Qty	Description
1	46340	1	Aluminum Pylon Cover
2	45583		Pylon Bulkhead
3	46110		Left Aft Lower Fairing
4	46111		Right Aft Lower Fairing


DETAIL B
DETAIL C
DETAIL A
1
2
3
FWD
CERTAIN PARTS NOT SHOWN FOR CLARITY

ALUMINUM PYLON COVER ATTACHMENT (CONT'D.)

OPTIONAL: The Illustration shows the installation of the Aluminum Pylon Cover (1) with the use of Rivets (4). It may be advantageous to substitute Riv-Nuts (5) and Phillips Head Screws (6) (not illustrated) for the Rivets (4) as this would allow the Aluminum Pylon Cover (1) to be removeable if necessary for inspection, maintenance or future modifications.

NOTE: You may want to use masking tape to temporarily hold the Aluminum Pylon Cover (1) in place during the following sequence.

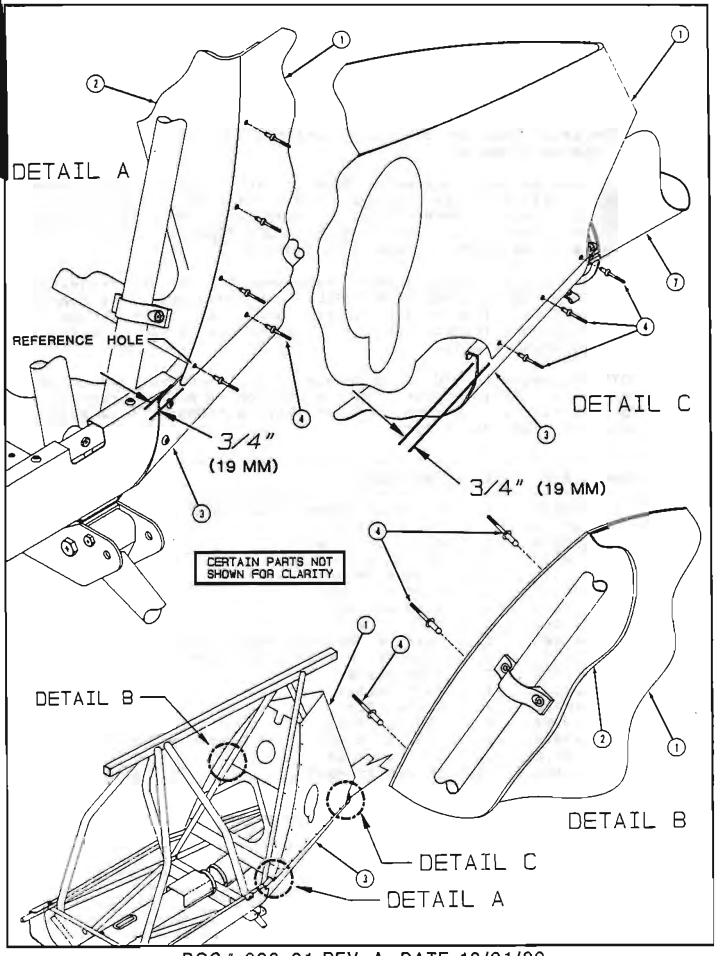
1. Refer to Figure 1 and Details 'A' and 'B'. Position the FORWARD edge of the Aluminum Pylon Cover (1) "EVEN" or "FLUSH" with the Pylon Bulkhead. Ensure the Pylon Cover "OVERLAPPING" the Lower Fairing (3) by 3/4" (19 mm) as illustrated.

NOTE: Refer to Detail 'C'. Ensure the AFT edge of the Pylon Cover (1) DOES NOT "rub" or come into direct contact with the Tail Boom Tube (7). Ensure there is adequate clearance.

2. Refer to Detail 'A'. Attach the Aluminum Pylon Cover (1) to the Pylon Bulkhead (2) and the Aft Lower Fairing (3) by referencing off of the factory punched 3/16" (4.8 mm) attachment hole located at the BOTTOM FORWARD edge of the LEFT side of the Pylon Cover. Back-drill thru the pre-punched attachment holes and thru the SIDE of the Bulkhead (2) and Lower Aft Fairing (3) and work your way UPWARD and AFT along the perimeter of the Pylon Cover.

3. Attach the opposite (RIGHT) side in "mirror image".

Item	P/N	Qty	Description
1	46340		Aluminum Pylon Cover
2	45583		Pylon Bulkhead
3	46110		Left Aft Lower Fairing
4	20195	40	3/16" x 1/4" Aluminum Rivet (AAP-64)
5	20227	40	8-32 Riv-Nut (A8-7S)
6	11078	40	8-32 Phillips Head Screw (AN526-832R8)
7	45012		Tail Boom Tube Assembly


DETAIL A
REFERENCE HOLE
3/4"
(19 MM)
DETAIL C
3/4" (19 MM)
CERTAIN PARTS NOT SHOWN FOR CLARITY
DETAIL B
DETAIL B
DETAIL C
DETAIL A

FORWARD THROTTLE LEVER ASSEMBLY

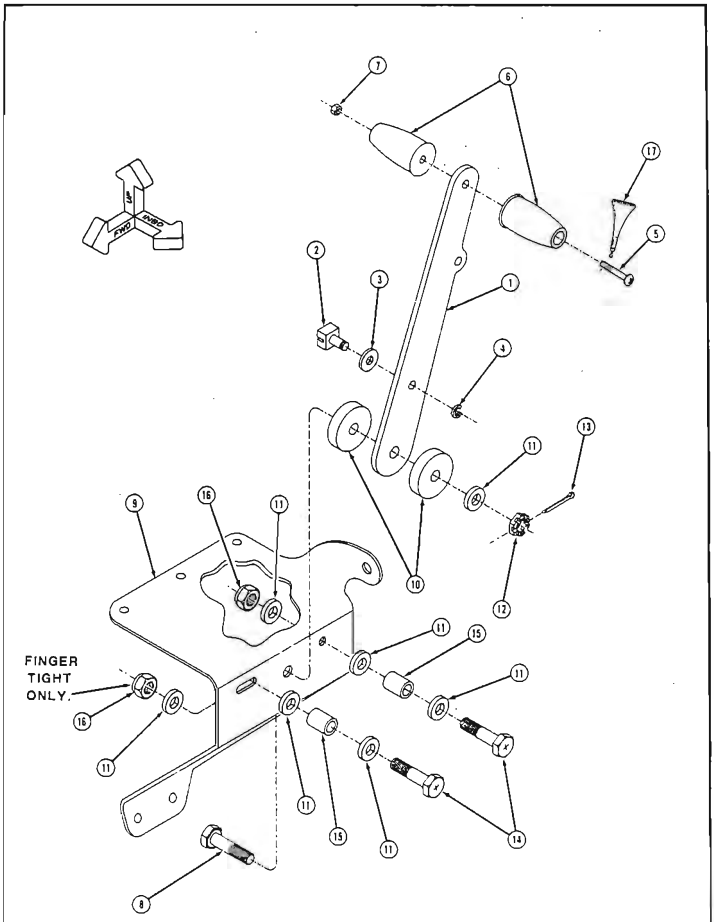
IMPORTANT: Note the correct orientation of the Throttle Lever (1) **BEFORE** attachment.

1. Assemble as illustrated. Tighten ALL Locknuts to proper torque **EXCEPT** the Locknut (16) attached to Bolt (14) comprising the FORWARD Throttle Lever Stop. (Note the notched cut-out). Leave this Locknut **ONLY FINGER TIGHT** to be tightened in a later sequence on page 4-30 and 4-31.

NOTE 1: Add a drop of Thread Adhesive (17) to the threads of the Screw (5). DO NOT OVER TORQUE the Screw which may damage the Knobs (6). Tighten the Castle Nut (12) tight enough to apply suffient friction on the Throttle Lever (1) to keep it from rotating freely.

NOTE 2: Ensure the "E" Clip Retainer (4) is secured correctly. Verify the Cable Swivel (2) is allowed to rotate freely. If not you may have to ream the "E" Clip attachment hole with a 3/16" (4.8 mm) Drill Bit.

Item	P/N	Qty	Description
1	90215	1	Throttle Lever w/.191 hole
2	90250	1	Cable Swivel
3	20343	1	#10 Nylon Washer
4	90260	1	"E" Clip Retainer
5	10479	1	4 mm x 25 mm Screw
6	90235	2	Throttle Knob
7	10496	1	4 mm Hex Nut
8	10068	1	AN4-11 Bolt
9	45482	1	Forward Throttle Mount Plate
10	20346	2	1/4" Thick x 1" O.D. Nylon Washer
11	10560	7	1/4" Washer
12	10521	1	1/4" Castle Nut
13	10635	1	Cotter Pin
14	10064	2	AN4-11A Bolt
15	40428	2	3/8" x .058" x 1/2" Aluminum Spacer
16	10510	2	1/4" Locknut
17	60591	A/R	Thread Adhesive


FINGER
TIGHT
ONLY.

AFT THROTTLE LEVER ASSEMBLY

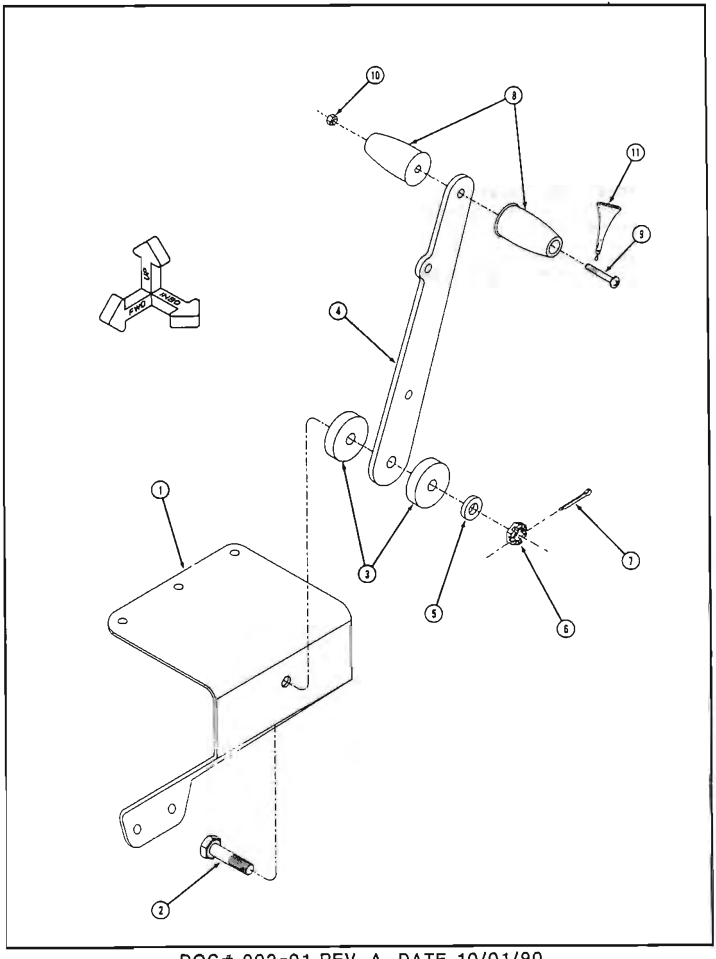
IMPORTANT: Note the correct orientation of the Throttle Lever (4) BEFORE attachment.

1. Assemble as illustrated. Tighten the Castle Nut (6) only tight enough to create a MINIMUM amount of friction for the Throttle Lever (4). It may even be able to rotate freely when adjusted as the FORWARD Throttle Lever is to be used to tension the Throttle Lever system properly. Bend the Cotter Pin (7) correctly.

NOTE 1: If the Castle Nut (6) tensioning the Aft Throttle Lever is over torqued it may produce too much friction in the Throttle Lever system as it would be working against the Forward Throttle Lever.

NOTE 2: Add a drop of Thread Adhesive (11) to the threads of the Screw (9).

Item	P/N	Qty	Description
1	45542	1	Aft Throttle Mount Plate
2	10068	1	AN4-11 Bolt
3	20346	2	1" x 1/4" Nylon Washer
4	90215	1	Throttle Lever w/.191 hole
5	10560	1	1/4" Washer
6	10521	1	1/4" Castle Nut
7	10635	1	Cotter Pin
8	90235	2	Throttle Knob
9	10479	1	4 mm x 25 mm Phillips Head Screw
10	10496	1	4 mm Hex Nut
11	60591	A/R	Thread Adhesive

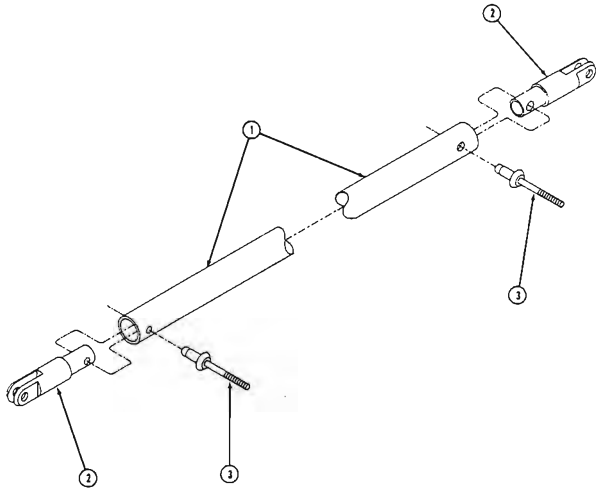

10
8
11
9
4
1
3
5
6
7
2

THROTTLE LINK TUBE ASSEMBLY

1. Assemble as illustrated. Ensure the Rivets are installed correctly.

NOTE: The Rivets (3) may be more difficult to install or "pop" into place as compared to the Aluminum Rivets (previously installed).

Item	P/N	Qty	Description
1	45547	1	Dual Throttle Link Tube
2	42006	2	Pushrod Fork End w/.187" hole
3	20222	2	3/16" x 1/2" Grip Rivet (BSPQ-68)


2
1
3
2
3

FORWARD THROTTLE MOUNT PLATE ATTACHMENT

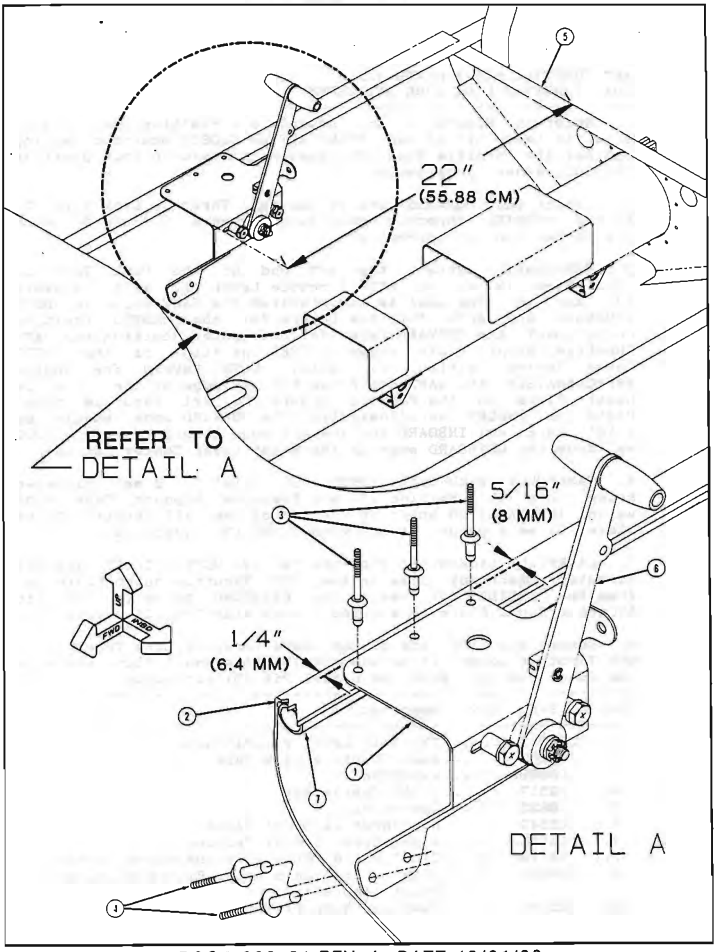
IMPORTANT: Ensure the Forward Throttle Mount Plate (1) is attached to the Pilot Enclosure (2) at the proper angle. Note the difference between the FORWARD and AFT dimensions.

1. Refer to Figure 1 and Detail 'A'. Measure 22" (55.88 cm) FORWARD from the AFT edge of the Forward Fuselage Bulkhead (5) along the RIGHT UPPER surface or lip (flange) of the Pilot Enclosure (2) and mark this location.

2. Align the FORWARD edge of the Forward Throttle Mount Plate (1) as illustrated. CAREFULLY back-drill thru the EXISTING 3/16" (4.8 mm) diameter holes in the Mount Plate and thru the TOP of the Pilot Enclosure (2) and Fuselage Support Tube (7). Secure with Rivets (3).

3. CAREFULLY back-drill thru the SIDE of the Pilot Enclosure from the INSIDE OUT using the TWO [2] EXISTING 3/16" (4.8 mm) holes in the Mount Plate as a guide. Secure with TWO [2] Rivets (4) as illustrated.

Item	P/N	Qty	Description
1	45482		Forward Throttle Mount Plate
2	45578		Pilot Enclosure
3	20214	3	3/16" x 1/8" Grip Aluminum Rivet (AAPQ-62)
4	20194	2	3/16" x 1/4" Grip Aluminum Large Flange Rivet (AAL-64)
5	45404		Forward Fuselage Bulkhead (part of P/N 45545)
6	90215		Throttle Lever
7	45856		Fuselage Support Tube


22"
(55.88 CM)
REFER TO
DETAIL A
5/16"
(8 MM)
1/4"
(6.4 MM)
FWD
FWD
DETAIL A

AFT THROTTLE MOUNT PLATE AND
DUAL THROTTLE LINK TUBE ATTACHMENT

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1. Refer to Figure 1 and Detail 'A'. Position the Forward Throttle Lever (1) in the FULLY AFT or CLOSED position resting against the Throttle Stop (9). Ensure it stays in this position for this assembly sequence.

2. Attach the FORWARD end of the Dual Throttle Link Tube (2) to the FORWARD Throttle Lever with Hardware (3,4 and 5). Bend the Cotter Pin (5) correctly.

3. TEMPORARILY attach the AFT end of the Dual Throttle Link Tube (2) to the AFT Throttle Lever (1) with Hardware (3) and (4). The goal is to establish the SAME angle in BOTH (FORWARD and AFT) Throttle Levers for the CLOSED position using ONLY the FORWARD Lever for reference. Position the AFT Throttle Mount Plate Assembly OVER the "lip" of the RIGHT Lower Center Fairing (7) until BOTH Levers are angled APPROXIMATELY the SAME. Mark the FORWARD edge of the Throttle Mount Plate on the Fairing. Ensure the Aft Throttle Mount Plate is ANGLED as illustrated. The FORWARD edge should be 3/16" (4.8 mm) INBOARD and the AFT edge should be 1/8" (3.2 mm) from the OUTBOARD edge of the Right Lower Center Fairing.

4. CAREFULLY back-drill THREE [3] 3/16" (4.8 mm) diameter holes thru the Fairing (7) and Fuselage Support Tube (10) using the EXISTING holes in the TOP of the AFT Throttle Mount Plate (6) as a guide. Secure with THREE [3] Rivets (8).

5. CAREFULLY back-drill thru the TWO [2] BOTTOM 3/16" (4.8 mm) diameter attachment holes in the AFT Throttle Mount Plate (6) from the INSIDE OUT using the EXISTING holes in the Aft Throttle Mount Plate as a guide. Secure with TWO [2] Rivets (9).

6. Secure the AFT end of the Dual Throttle Link Tube (2) to the Throttle Lever (1) on the Aft Throttle Mount Plate (6) with the Coter Pin (5). Bend the Cotter Pin (5) correctly.

Item	P/N	Qty	Description
1	90215		Throttle Lever w/.191" hole
2	45547		Dual Throttle Link Tube
3	10009	2	AN3-5 Bolt
4	10817	2	3/16" Castle Nut
5	10635	2	Cotter Pin
6	45542		Aft Throttle Mount Plate
7	46106		Right Lower Center Fairing
8	20214	3	3/16" x 1/8" Grip Aluminum Rivet (AAPQ-62)
9	20194	2	3/16" x 1/4" Grip Large Flange Aluminum Rivet (AAL-64)
10	45856		Fuselage Support Tube

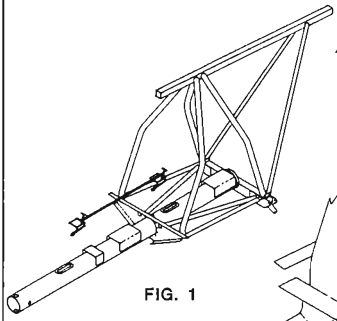


FIG. 1

A
CERTAIN PARTS NOT SHOWN FOR CLARITY
1/8" (3.2 MM)
3/16" (4.8 MM)
FWD
END
DETAIL A

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