



Bundesluftwaffe

H-178

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F-4F PHANTOM

Revell

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On May 24, 1973 during a roll-out ceremony at the McDonnell-Douglas Plant in St. Louis, Missouri, the first of the newest generation of German fighters was officially handed over to the Luftwaffe. The aircraft was a McDonnell-Douglas F-4F Phantom, latest in the series of Phantoms produced at the St. Louis plant. (The F-4G, K, L and M had all been in production several years. The F-4F had been under development for some time, hence the fact of its being produced later.) The F-4F embodies all of the technological advances and lessons learned through the 18 years of Phantom development, from prototype mock-up in 1955 through the 1973 introduction of the F-4F version.

The major difference between this latest Phantom and all the others is the recent introduction of "slats" to the wing leading edges. The "slats" are extended when the aircraft is pulled into a tight turn or pulled up sharply. They prevent the separation of air flow over the wings and result in a tremendously improved turning ability for the airplane, something that was shown to be needed in combat with MiGs of all types in Vietnam.

The F-4F Phantom II, as originally ordered for the Luftwaffe, was a single-seat aircraft based on the F-4E, but having the Sparrow missiles and their associated radar and "black boxes" eliminated. Without the Sparrows

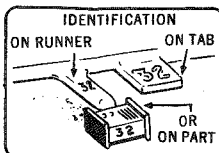
there was no need for an R.I.O. (Radar Intercept Officer) in the back seat, as the Sidewinder heat-seeking missiles can be aimed and fired by the pilot alone. But during the course of developing the F-4F the decision was made to keep the rear seat and controls. Although the Sparrows are deleted, McDonnell-Douglas says that the capability for their installation is retained along with the mountings for the necessary equipment.

Also retained on the F-4F is the potent ground attack capability of the Phantom series comprising a centerline and four underwing store stations. On these hard points it is possible to hang either external fuel tanks (except on inboard pylons) or a broad variety of offensive stores. Certain of the component parts of this latest Phantom are being made or are scheduled to be made in Germany. They include the canopies, outer wing panels, rear fuselage, fin, rudder, stabilators, ailerons, landing gear doors, engine access doors and spoilers.

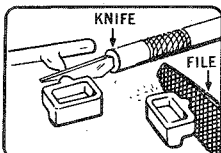
So successful have the modifications and improvements to this aircraft been, that the U.S.A.F. has adopted most of the features for retro-fit on all U.S.A.F. F-4E Phantoms. This will bring the F-4E up to F-4F standards. And apart from some equipment differences, they will be nearly identical to their German cousins.

GET YOUR TOOLS READY:

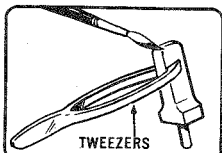
BEFORE YOU BEGIN



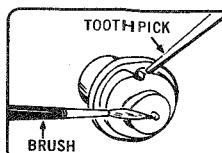
REMOVE PART WHEN CALLED FOR



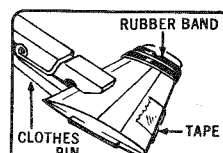
TO REMOVE AND TRIM PARTS



TO HOLD PARTS



TO APPLY CEMENT



TO HOLD PARTS AFTER CEMENTING

HELPFUL MODELING HINTS

1. Fit parts together before cementing.
2. Trim away excess plastic.
3. Use cement sparingly; too much will damage your model.

4. Suggested painting colors are indicated by . Paint small parts before detaching from runner.
5. **TO OBTAIN A GOOD BOND, REMOVE PAINT WHERE PARTS ARE TO BE CEMENTED.**

IF YOU WISH TO STOP AT ANY POINT DURING THE CONSTRUCTION OF YOUR MODEL, DO SO AT THE END OF AN ASSEMBLY STEP

1 COCKPIT ASSEMBLY

MOLDED IN BASIC UPPER SURFACE — MITTELGRAU

IF PAINTING: USE

MITTELGRAU

HELLGRAU

EISENFARBIG

OLIV-GRÜN

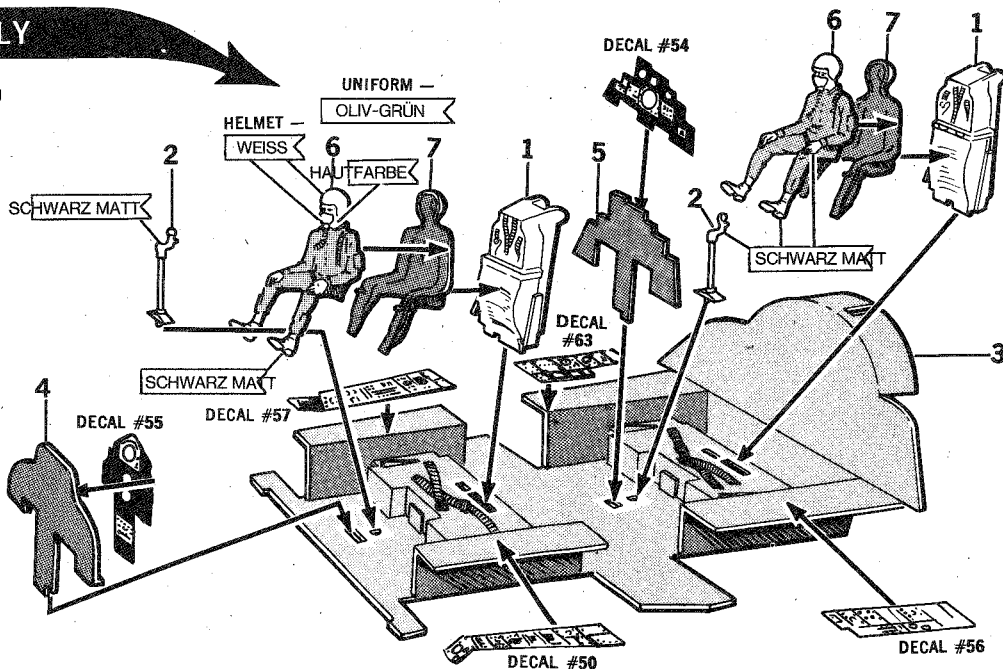
SCHWARZ MATT

WEISS MATT

MITTELGRAU

SILBER

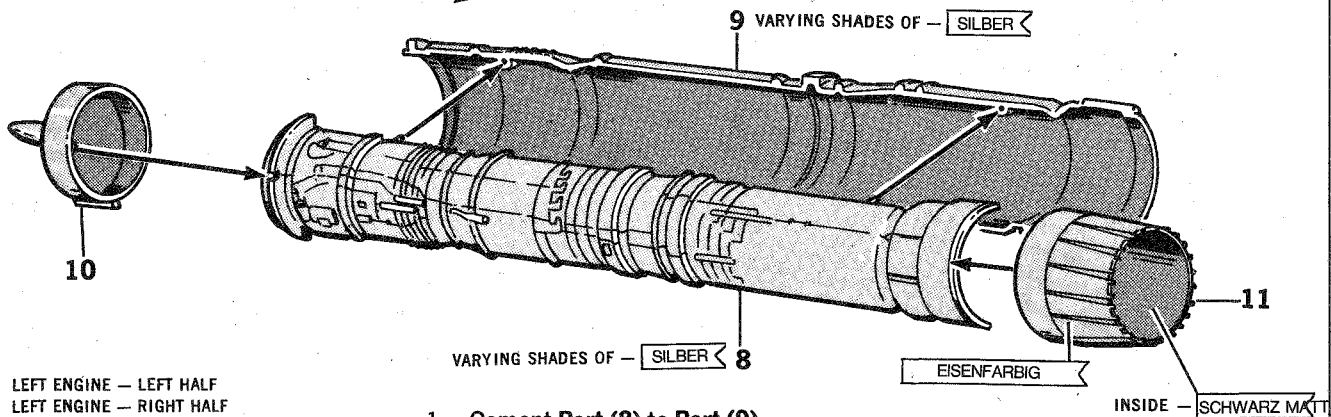
HAUTFARBE



- 1 SEAT BACK (2 Parts)
- 2 CONTROL COLUMN (2 Parts)
- 3 COCKPIT FLOOR
- 4 PILOT'S INSTRUMENT PANEL
- 5 RADAR OPERATOR'S INSTRUMENT PANEL
- 6 CREW FIGURE — FRONT HALF (2 Parts)
- 7 CREW FIGURE — BACK HALF (2 Parts)

1. Cement two Parts (1) and two Parts (2) to Part (3).
2. Apply DECALS to Parts (3), (4) and (5).
3. Cement (4) and (5) to Part (3).
4. Cement TWO Parts (6) to TWO Parts (7).
5. Cement CREW FIGURES to SEATS.

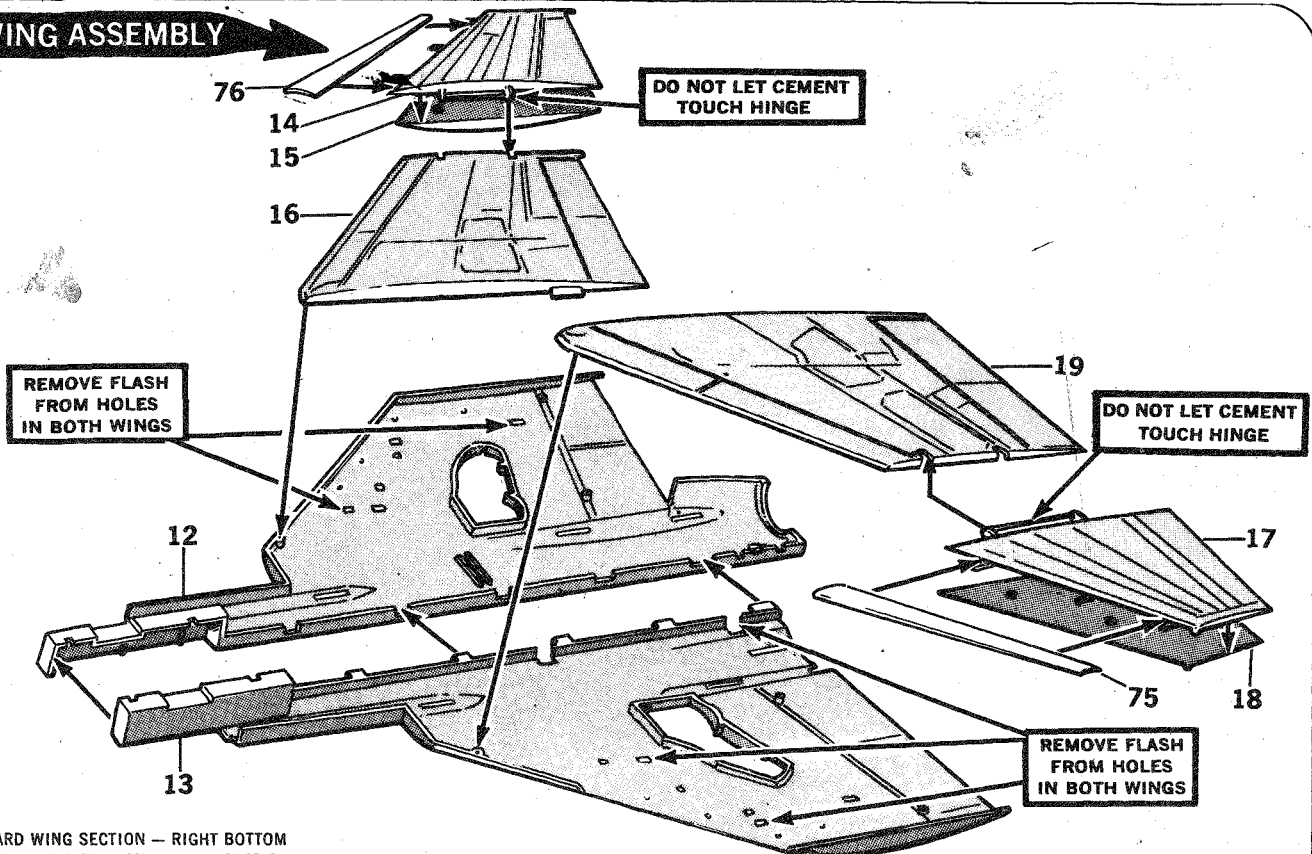
2 ENGINE ASSEMBLY



- 8 LEFT ENGINE — LEFT HALF
- 9 LEFT ENGINE — RIGHT HALF
- 10 LEFT ENGINE INTAKE
- 11 ENGINE EXHAUST CONE

1. Cement Part (8) to Part (9).
2. Cement Parts (10) and (11) to Parts (8) and (9).

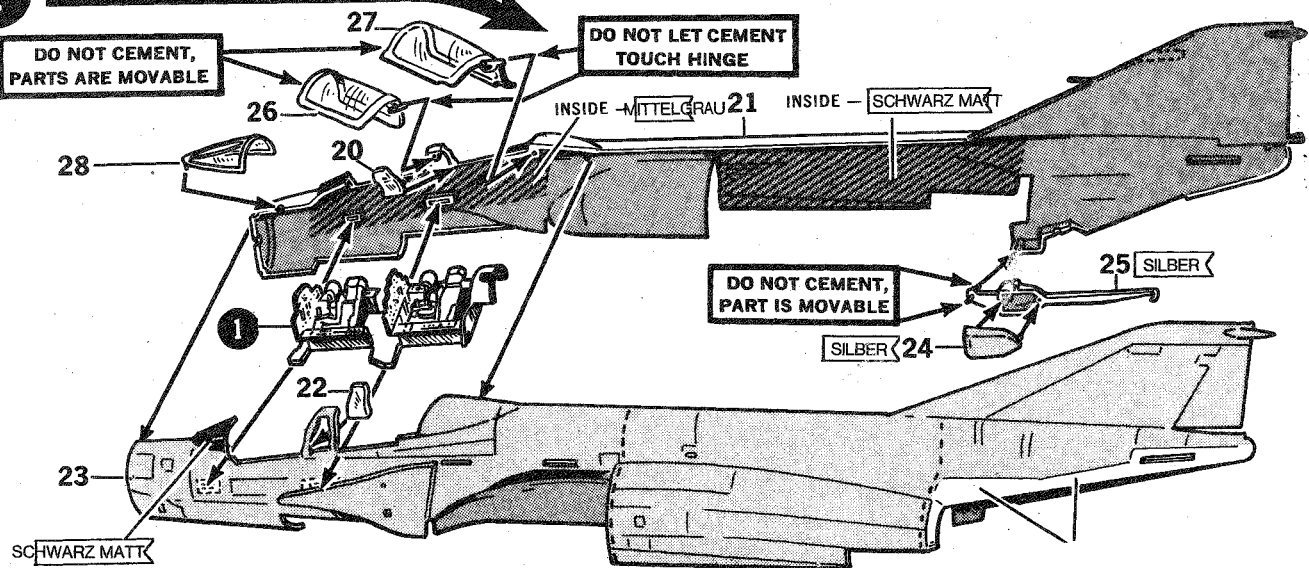
3 WING ASSEMBLY



- 12 INBOARD WING SECTION — RIGHT BOTTOM
- 13 INBOARD WING SECTION — LEFT BOTTOM
- 14 OUTBOARD WING SECTION — RIGHT TOP
- 15 OUTBOARD WING SECTION — RIGHT BOTTOM
- 16 INBOARD WING SECTION — RIGHT TOP
- 17 OUTBOARD WING SECTION — LEFT TOP
- 18 OUTBOARD WING SECTION — LEFT BOTTOM
- 19 INBOARD WING SECTION — LEFT TOP
- 75 OUTBOARD WING SLAT — LEFT
- 76 OUTBOARD WING SLAT — RIGHT

1. OPEN HOLES in Parts (12) and (13) for UNDERWING STORES.
2. Cement Part (12) to (13) and (14) to (15). Cement (76) to (14).
3. PLACE, DO NOT CEMENT, the HINGES on RIGHT OUTER WING into the NOTCHES in Part (16), then cement (16) to (12). DO NOT LET CEMENT TOUCH HINGES OR WING WILL NOT FOLD INTO STOWED POSITION.
4. Cement (17) to (18) and then (75) to (17). Assemble LEFT OUTER WING and Part (19) to (13) in the same way as RIGHT WING.

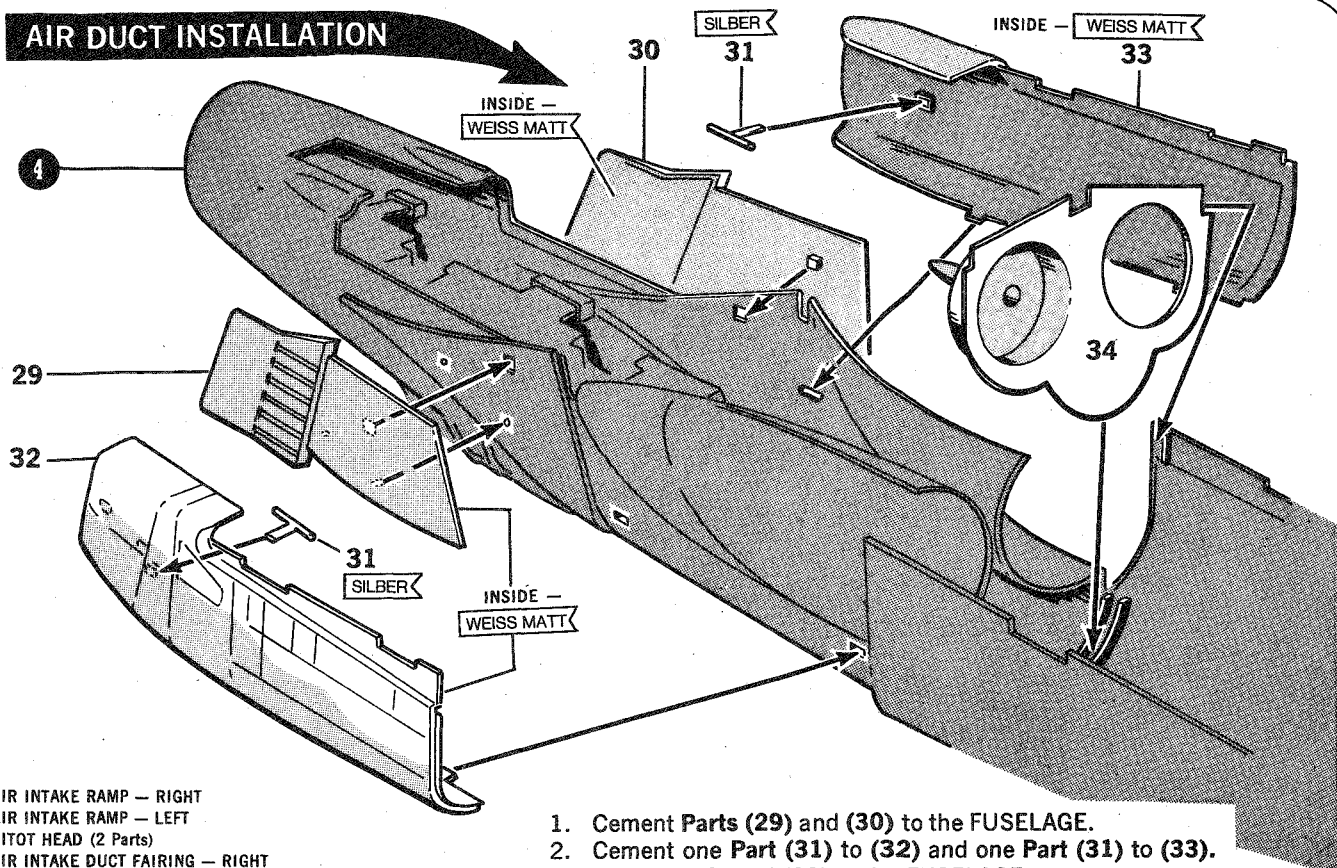
4 FUSELAGE ASSEMBLY



- 20 RIGHT WINDOW (CLEAR)
- 21 FUSELAGE — RIGHT HALF
- 22 LEFT WINDOW (CLEAR)
- 23 FUSELAGE — LEFT HALF
- 24 ARRESTING HOOK — LEFT HALF
- 25 ARRESTING HOOK — RIGHT HALF
- 26 PILOT'S CANOPY (CLEAR)
- 27 RADAR OPERATOR'S CANOPY (CLEAR)
- 28 WINDSHIELD (CLEAR)

1. Cement Part (20) and the COCKPIT ASSEMBLY from Step 1 into Part (21). Cement (22) into (23).
2. Cement (24) to (25).
3. PLACE, DO NOT CEMENT, Parts (25), (26) and (27) in PLACE in Part (21) then CAREFULLY cement (23) to (21). DO NOT LET CEMENT TOUCH HINGE PINS OR PARTS WILL NOT MOVE.
4. Cement (28) to the FUSELAGE only.

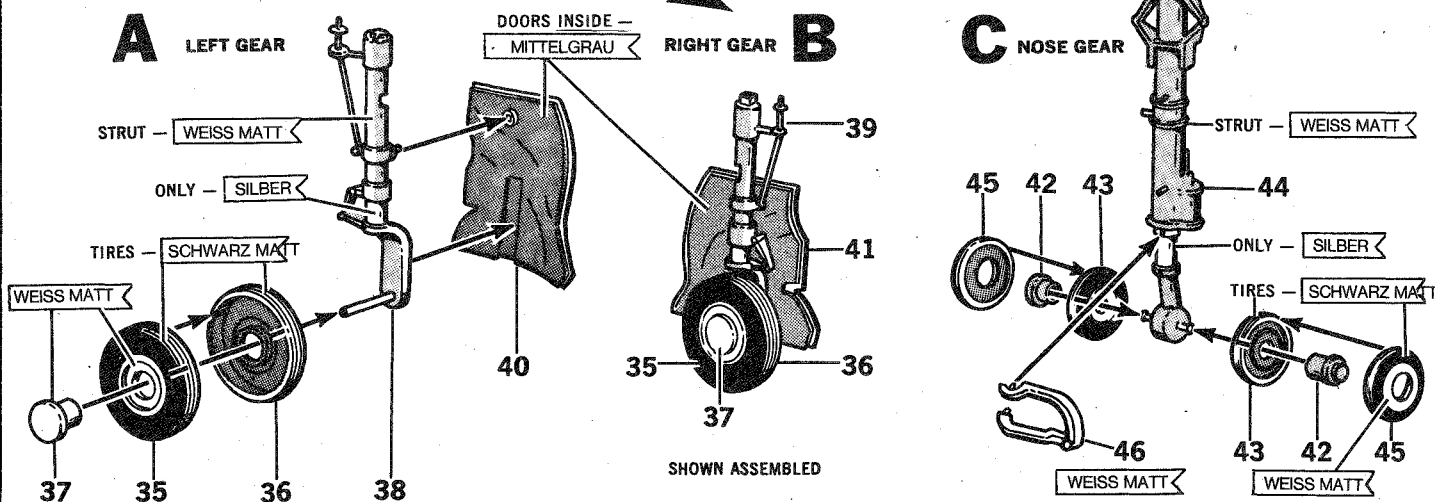
5 AIR DUCT INSTALLATION



- 29 AIR INTAKE RAMP — RIGHT
- 30 AIR INTAKE RAMP — LEFT
- 31 PITOT HEAD (2 Parts)
- 32 AIR INTAKE DUCT FAIRING — RIGHT
- 33 AIR INTAKE DUCT FAIRING — LEFT
- 34 FUSELAGE BULKHEAD

1. Cement Parts (29) and (30) to the FUSELAGE.
2. Cement one Part (31) to (32) and one Part (31) to (33).
3. Cement (32) and (33) to the FUSELAGE.
4. Cement (34) between ribs inside FUSELAGE.

6 LANDING GEAR ASSEMBLY



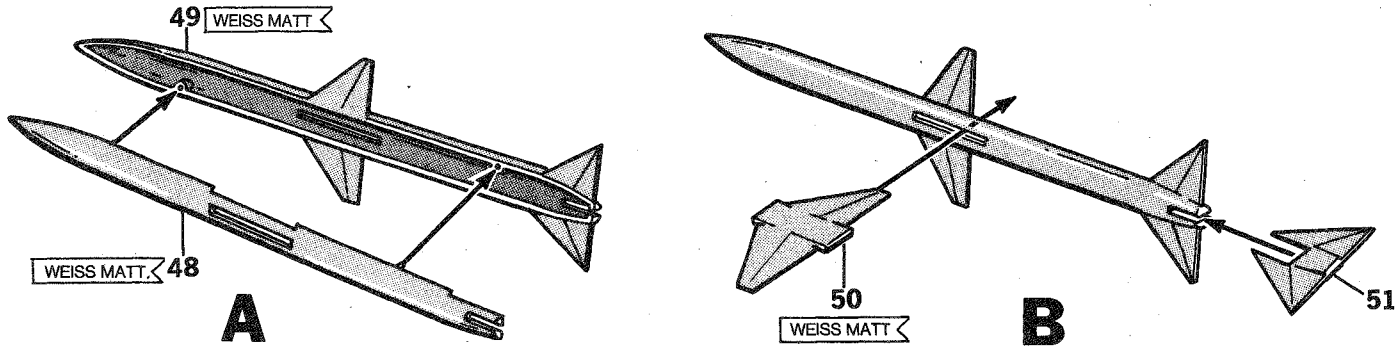
YOU HAVE A CHOICE OF BUILDING YOUR MODEL WITH THE LANDING GEAR IN THE INFLIGHT "GEAR UP" POSITION, OR WITH THE "GEAR DOWN" IF YOU CHOOSE TO BUILD A "GEAR UP" MODEL OMIT THIS STEP AND CONTINUE WITH STEP 7.

- 35 MAIN WHEEL — OUTSIDE HALF (2 Parts)
- 36 MAIN WHEEL — INSIDE HALF (2 Parts)
- 37 MAIN WHEEL RETAINER (2 Parts)
- 38 LEFT MAIN GEAR STRUT
- 39 RIGHT MAIN GEAR STRUT
- 40 LEFT MAIN GEAR STRUT DOOR — CENTER
- 41 RIGHT MAIN GEAR STRUT DOOR — CENTER
- 42 NOSE WHEEL RETAINER (2 Parts)
- 43 NOSE WHEEL — INSIDE HALF (2 Parts)
- 44 NOSE GEAR STRUT
- 45 NOSE WHEEL — OUTSIDE HALF (2 Parts)
- 46 NOSE GEAR YOKE

SEE DRAWINGS "A" AND "B" — MAIN GEAR

1. Cement one Part (35) to each Part (36).
2. PLACE, DO NOT CEMENT, One Part (37) into each WHEEL, then CAREFULLY cement Part (37) to the AXLE of Part (38). DO NOT LET CEMENT TOUCH Part (36) or WHEEL will not rotate.
3. Cement Part (40) to (38).
4. Assemble RIGHT GEAR in the same way, using WHEEL ASSEMBLY Parts (35), (36) and (37), and Parts (39) and (41).
SEE DRAWING "C" NOSE GEAR
5. PLACE, DO NOT CEMENT, one Part (42) into each Part (43), then CAREFULLY cement one Part (45) to each Part (43).
6. Cement WHEEL RETAINERS (42) onto AXLES of Part (44). DO NOT LET CEMENT TOUCH WHEELS.
7. Cement Part (46) to Part (44).

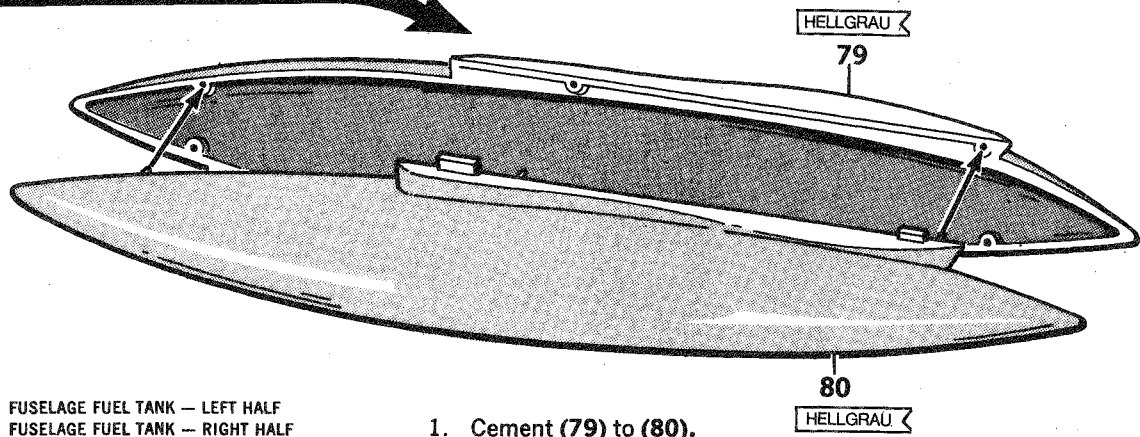
7 SPARROW MISSILE ASSEMBLY



- 48 MISSILE BODY — LEFT HALF (4 Parts)
- 49 MISSILE BODY — RIGHT HALF (4 Parts)
- 50 MISSILE CENTER FIN (4 Parts)
- 51 MISSILE TAIL FIN (4 Parts)

- SEE DRAWING "A"**
1. Cement one Part (48) to each Part (49). Make four MISSILES. **SEE DRAWING "B"**
 2. Center and cement one Part (50) in each MISSILE.
 3. Cement one Part (51) to the rear of each MISSILE.

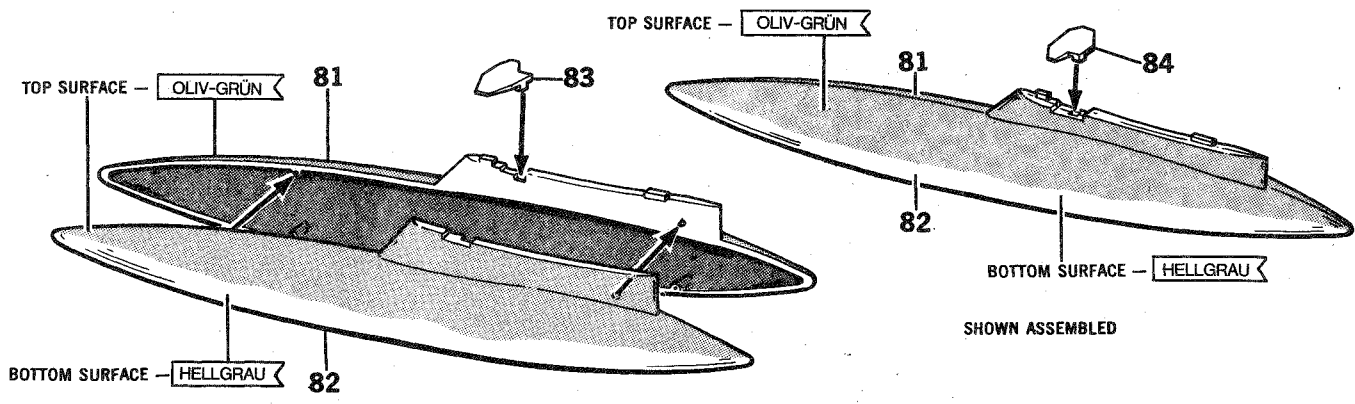
8 600 GALLON FUEL TANK



- 79 FUSELAGE FUEL TANK — LEFT HALF
- 80 FUSELAGE FUEL TANK — RIGHT HALF

1. Cement (79) to (80).

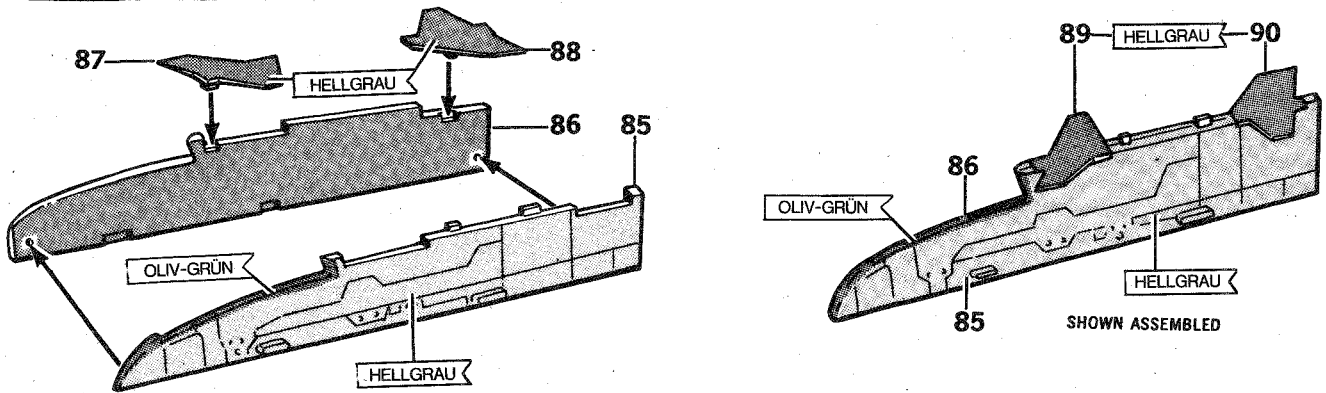
9 370 GALLON FUEL TANKS



- 81 OUTERWING FUEL TANK — RIGHT HALF (2 Parts)
- 82 OUTERWING FUEL TANK — LEFT HALF (2 Parts)
- 83 LEFT TANK SWAY BRACE
- 84 RIGHT TANK SWAY BRACE

1. Cement one Part (81) to each Part (82).
2. The SWAY BRACES determine whether a TANK ASSEMBLY is to be used on RIGHT or LEFT WING. Cement (83) to one TANK for LEFT WING and (84) to other TANK for RIGHT WING installation.

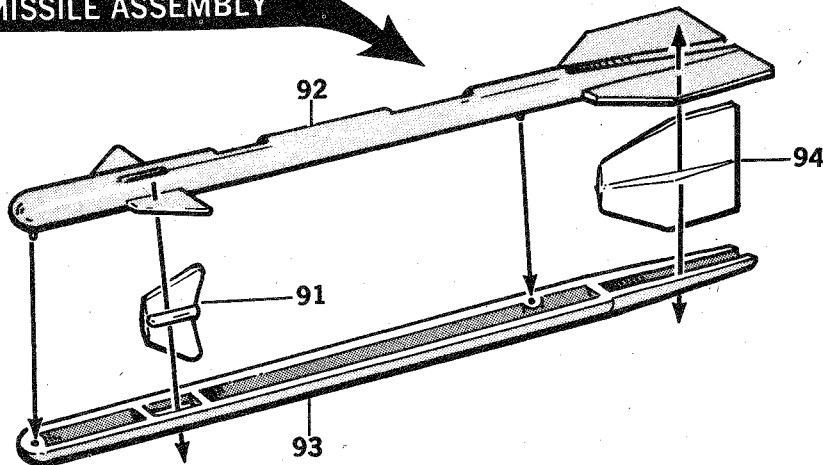
10 WEAPON PYLONS



- 85 WEAPON PYLON — LEFT HALF (2 Parts)
- 86 WEAPON PYLON — RIGHT HALF (2 Parts)
- 87 LEFT PYLON FORWARD SWAY BRACE
- 88 LEFT PYLON REAR SWAY BRACE
- 89 RIGHT PYLON FORWARD SWAY BRACE
- 90 RIGHT PYLON REAR SWAY BRACE

1. Cement one Part (85) to each Part (86). The SWAY BRACES determine to which WING the PYLON is to be installed.
2. For the LEFT PYLON, cement (87) and (88) to one ASSEMBLY.
3. For the RIGHT PYLON, Cement (89) and (90) to the other ASSEMBLY.
4. Parts (106) and (107) ARE NOT USED IN THIS KIT.

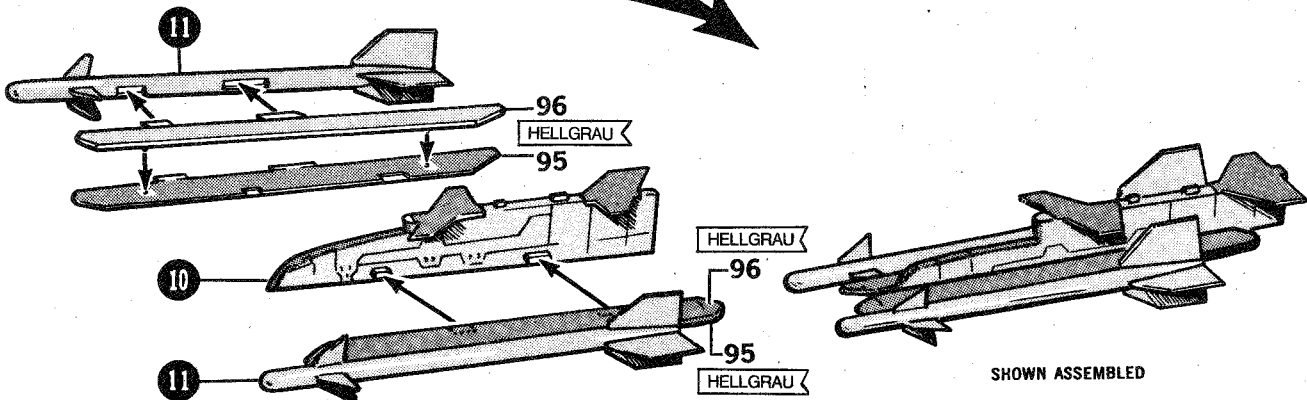
11 SIDEWINDER MISSILE ASSEMBLY



- 91 SIDEWINDER FORWARD FIN (4 Parts)
- 92 SIDEWINDER HALF WITH FINS (4 Parts)
- 93 SIDEWINDER HALF WITHOUT FINS (4 Parts)
- 94 SIDEWINDER REAR FIN (4 Parts)

1. Place one (91) in FORWARD SLOT in (92). Locate (93) over (91) and cement (92) and (93) together. Slide one (94) into SLOT at REAR of MISSILE and cement in position.
2. Assemble remaining three MISSILES in the same way.

12 SIDEWINDER LAUNCHING RACKS

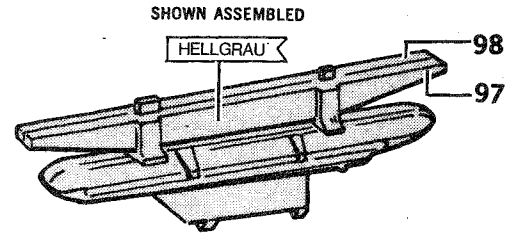
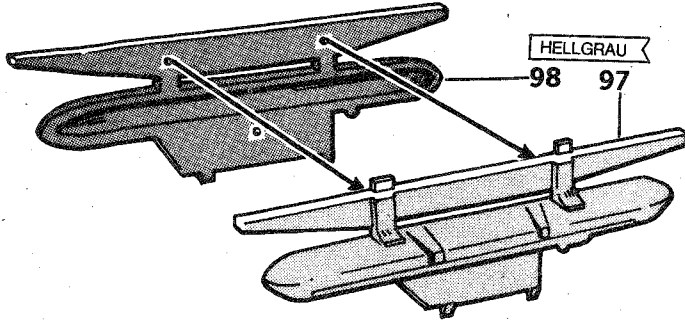


- 95 LAUNCHING RAIL — TOP HALF (4 Parts)
- 96 LAUNCHING RAIL — BOTTOM HALF (4 Parts)

1. Cement one Part (95) to each Part (96).
2. Cement LAUNCHING RAILS to WEAPON PYLONS.
3. Cement a SIDEWINDER MISSILE to each LAUNCHING RAIL.

13

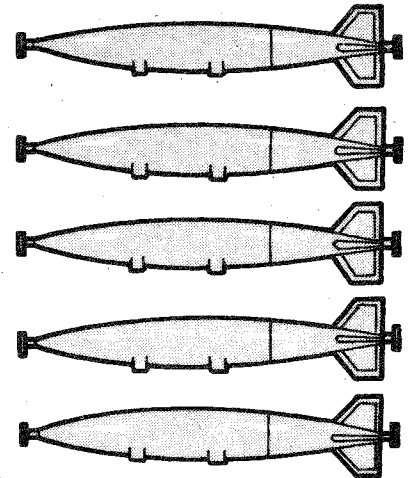
UJAR/C3 T.E.R. BOMB RACKS



- 97 TRIPLE EJECTOR RACK — LEFT HALF (2 Parts)
- 98 TRIPLE EJECTOR RACK — RIGHT HALF (2 Parts)

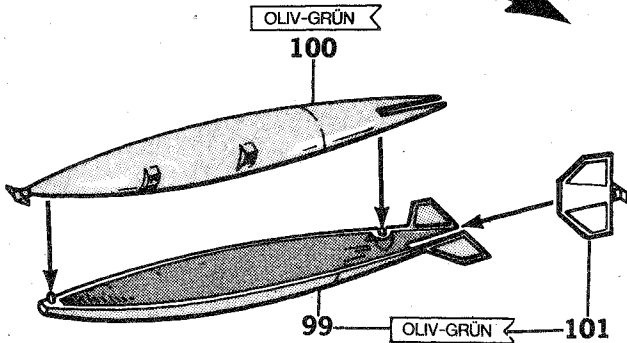
1. Cement one Part (97) to each Part (98).

SHOWN ASSEMBLED



14

500 LB. MK 82 BOMBS

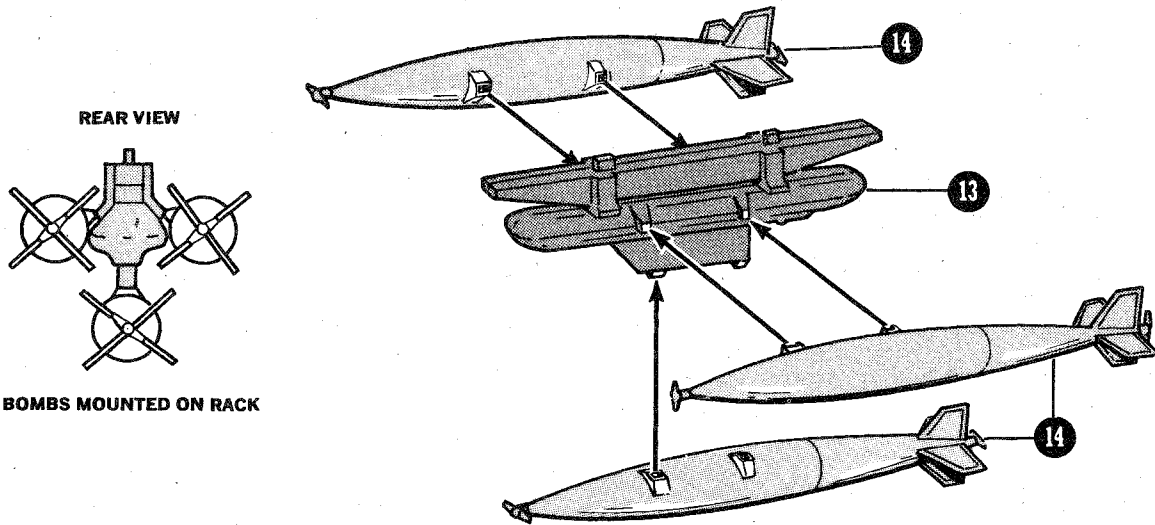


- 99 MARK 82 BOMB HALF WITH FINS (6 Parts)
- 100 MARK 82 BOMB HALF WITHOUT FINS (6 Parts)
- 101 MARK 82 BOMB TAIL FINS (6 Parts)

1. Cement one Part (99) to each Part (100).
2. Cement one Part (101) to each assembled BOMB.

15

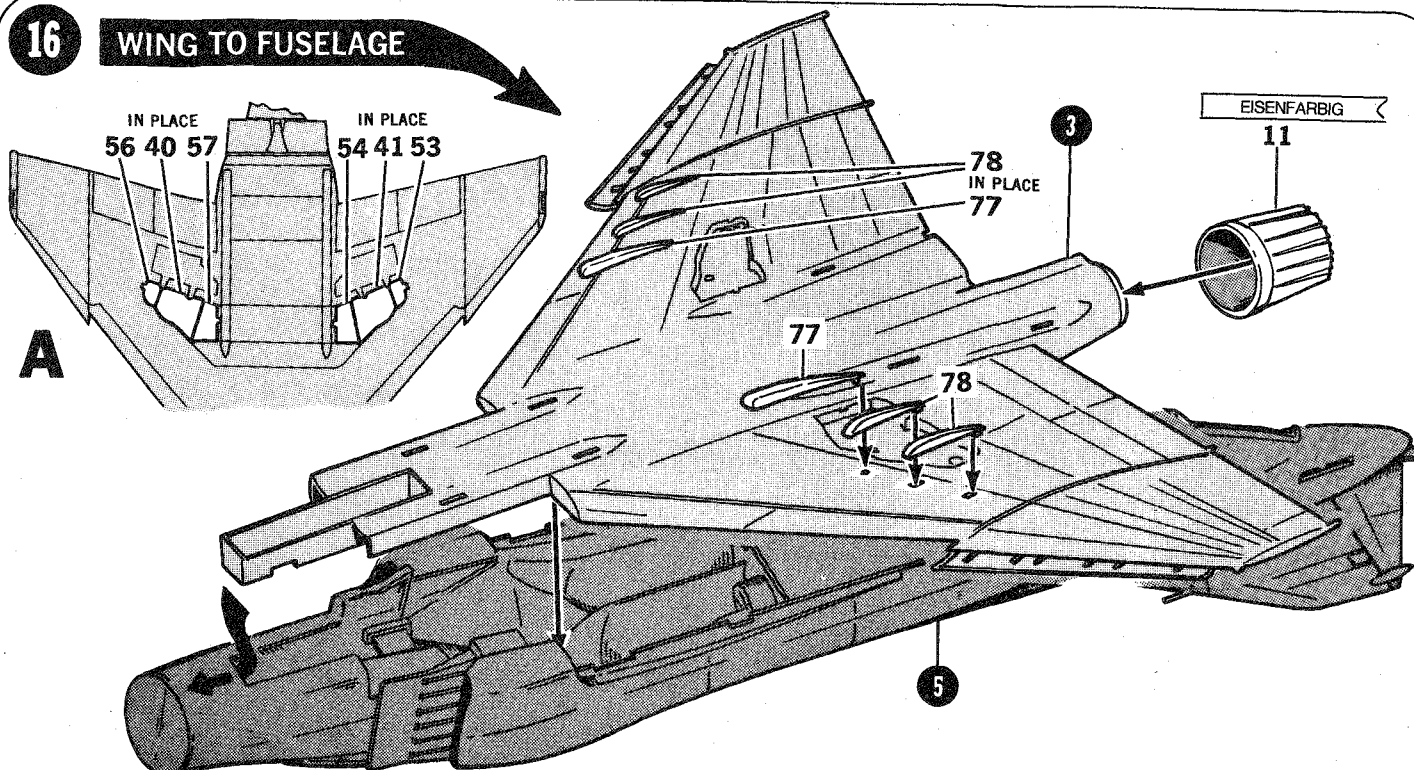
BOMBS TO BOMB RACKS



BOMBS MOUNTED ON RACK

1. Cement three BOMBS to each BOMB RACK. Be sure BOMB FINS align as indicated in small drawing.

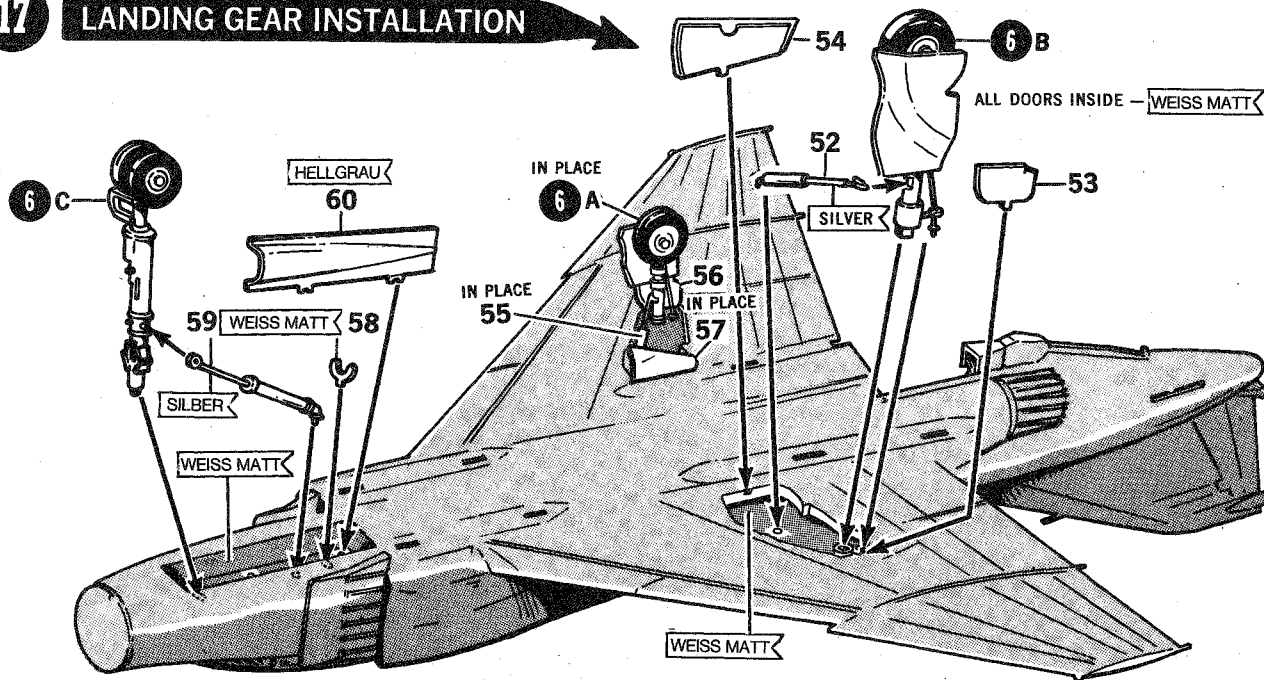
16 WING TO FUSELAGE



- 11 ENGINE EXHAUST CONE
- 40 LEFT MAIN GEAR STRUT DOOR — CENTER
- 41 RIGHT MAIN GEAR STRUT DOOR — CENTER
- 53 RIGHT MAIN GEAR DOOR — OUTBOARD
- 54 RIGHT MAIN GEAR DOOR — INBOARD
- 56 LEFT MAIN GEAR DOOR — OUTBOARD
- 57 LEFT MAIN GEAR DOOR — INBOARD
- 77 SLAT ACTUATOR FAIRING INBOARD (2 Parts)
- 78 SLAT ACTUATOR FAIRING OUTBOARD (4 Parts)

1. Slip the forward end of the WING ASSEMBLY (Step 3), into the FUSELAGE and slide it forward until the WING aligns with the FUSELAGE, then cement Parts together.
2. Cement Part (11) to WING and FUSELAGE.
3. Cement two Parts (77) and four Parts (78) to WING as indicated. FOR A "GEAR UP" MODEL ONLY, SEE DETAIL "A"
4. Cement six LANDING GEAR DOORS Parts (40), (41), (53), (54), (56) and (57) to WING in a closed position as shown.

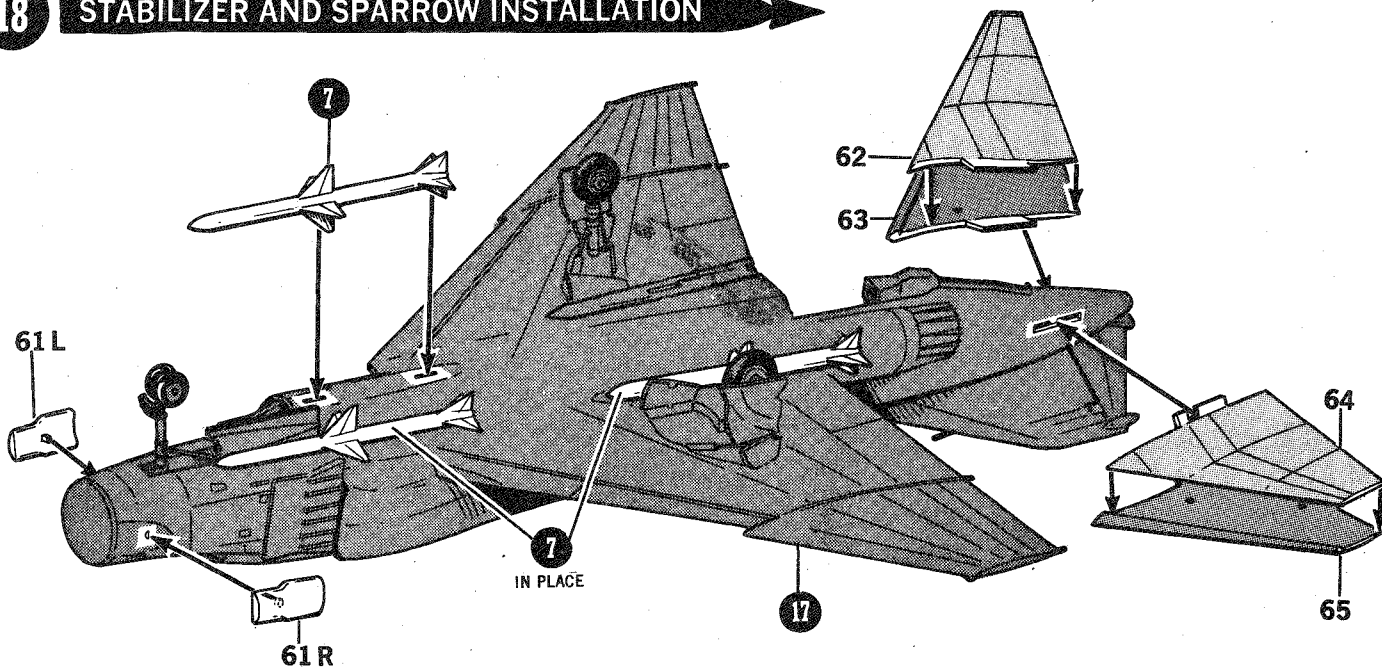
17 LANDING GEAR INSTALLATION



- 52 RIGHT MAIN GEAR RETRACT STRUT
- 53 RIGHT MAIN GEAR DOOR — OUTBOARD
- 54 RIGHT MAIN GEAR DOOR — INBOARD
- 55 LEFT MAIN GEAR RETRACT STRUT
- 56 LEFT MAIN GEAR DOOR — OUTBOARD
- 57 LEFT MAIN GEAR DOOR — INBOARD
- 58 NOSE GEAR RETRACT LOCK
- 59 NOSE GEAR RETRACT STRUT
- 60 NOSE GEAR DOOR — REAR HALF

- For a "GEAR UP" model, skip this ASSEMBLY step and go on to Step 18.
1. Cement the RIGHT MAIN GEAR into WING. Cement (52) to GEAR and WING.
 2. Cement (53) and (54) to edges of GEAR OPENING in a vertical position.
 3. Cement LEFT GEAR and Parts (55), (56) and (57) in place on LEFT WING.
 4. Cement (58) and NOSE GEAR into WHEEL WELL.
 5. Cement (59) to NOSE GEAR and WHEEL WELL LOCATOR.
 6. Cement (60) to edge of WHEEL WELL in a vertical position.

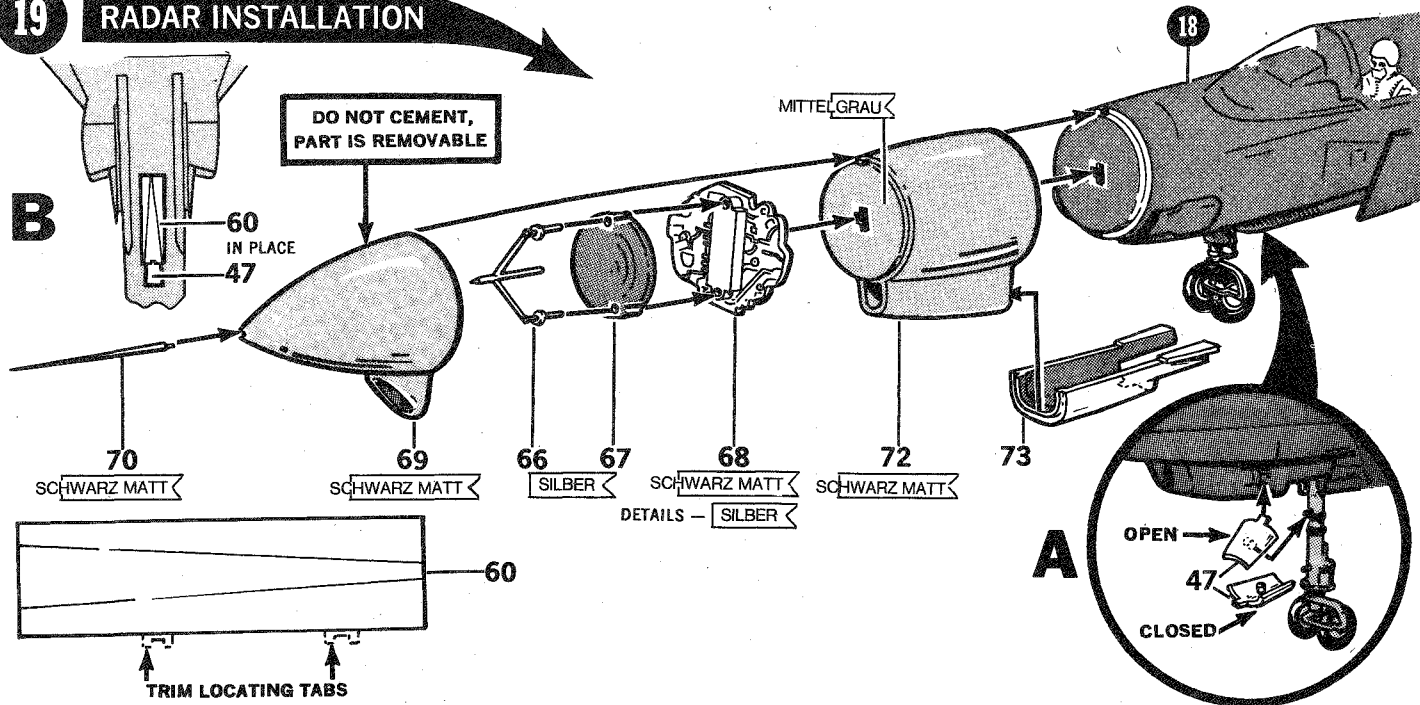
18 STABILIZER AND SPARROW INSTALLATION



- 61R RIGHT AIR DUCT FAIRING
- 61L LEFT AIR DUCT FAIRING
- 62 LEFT STABILIZER - BOTTOM
- 63 LEFT STABILIZER - TOP
- 64 RIGHT STABILIZER - BOTTOM
- 65 RIGHT STABILIZER - TOP

1. Cement (61L) and (61R) to the FUSELAGE.
2. Cement (62) to (63) and (64) to (65). Cement STABILIZERS to FUSELAGE.
3. Cement three SPARROW MISSILES, (from Step 7), to bottom of FUSELAGE.

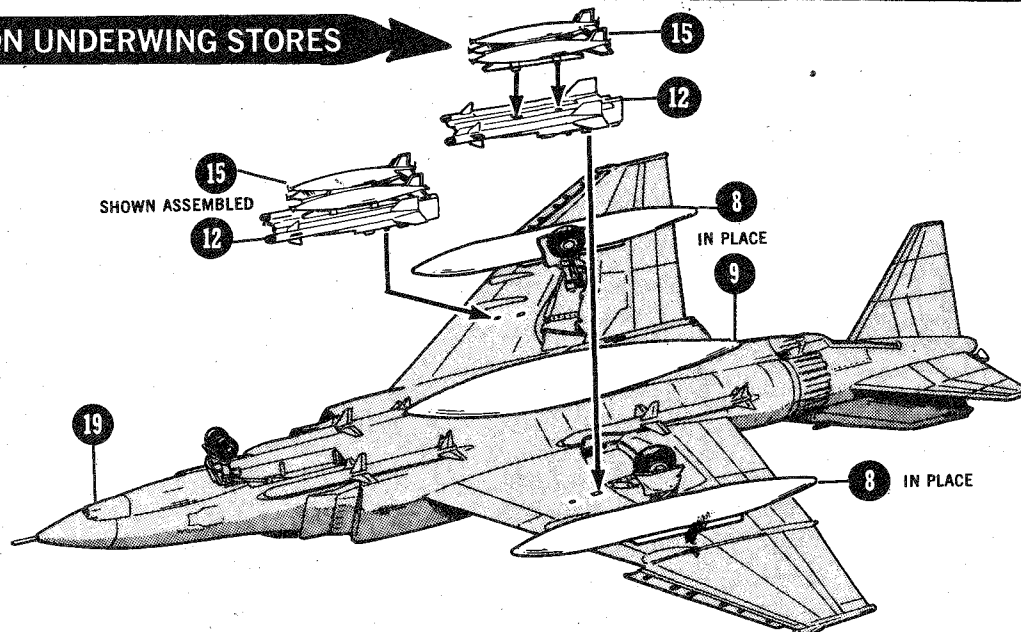
19 RADAR INSTALLATION



- 47 NOSE GEAR DOOR - FRONT HALF
- 60 NOSE GEAR DOOR - REAR HALF
- 66 RADAR ANTENNA
- 67 RADAR DISH
- 68 RADAR UNIT
- 69 NOSE CONE
- 70 PITOT TUBE
- 72 NOSE EXTENSION
- 73 GUN POD

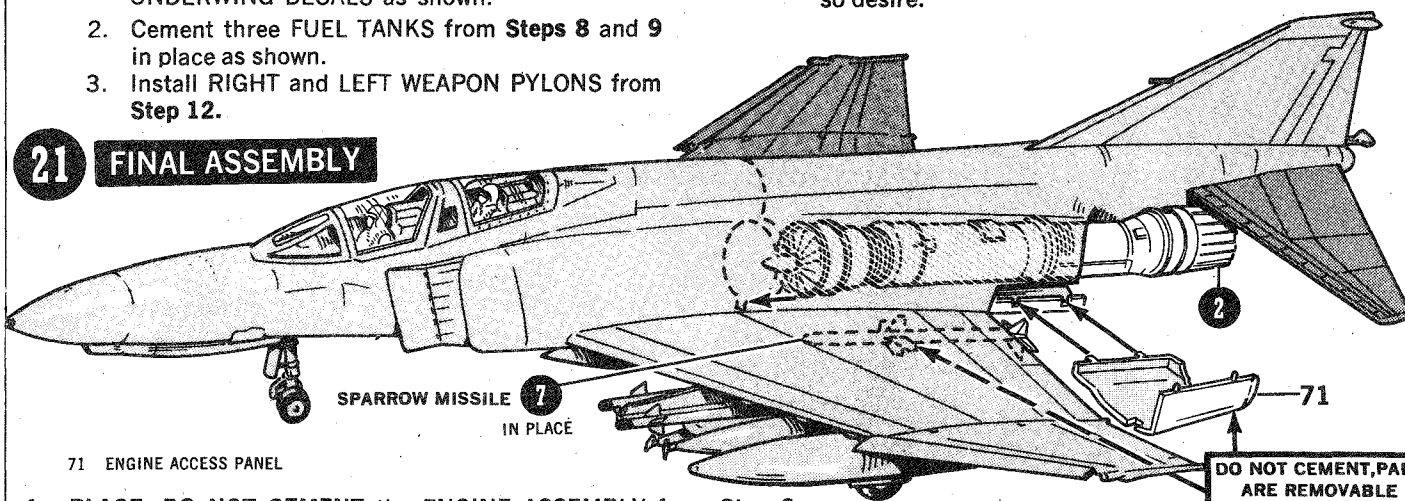
1. Cement (72) to FRONT of FUSELAGE.
2. Cement (66) to (67). Cement (67) to (68), then cement (68) to (72).
3. Cement (70) to (69), then PRESS, DO NOT CEMENT (69) onto Part (72). (69) is removable to display the RADAR INSTALLATION.
4. Cement (73) to FUSELAGE and Part (72).
FOR A "GEAR DOWN" MODEL - SEE DRAWING "A"
5. Cement (47) to NOSE GEAR and REAR EDGE of Part (73).
FOR A "GEAR UP" MODEL
6. Trim LOCATING TABS from Part (60) as indicated, then cement (47) and (60) in a closed position as shown in Detail "B".

20 INSTALLATION UNDERWING STORES



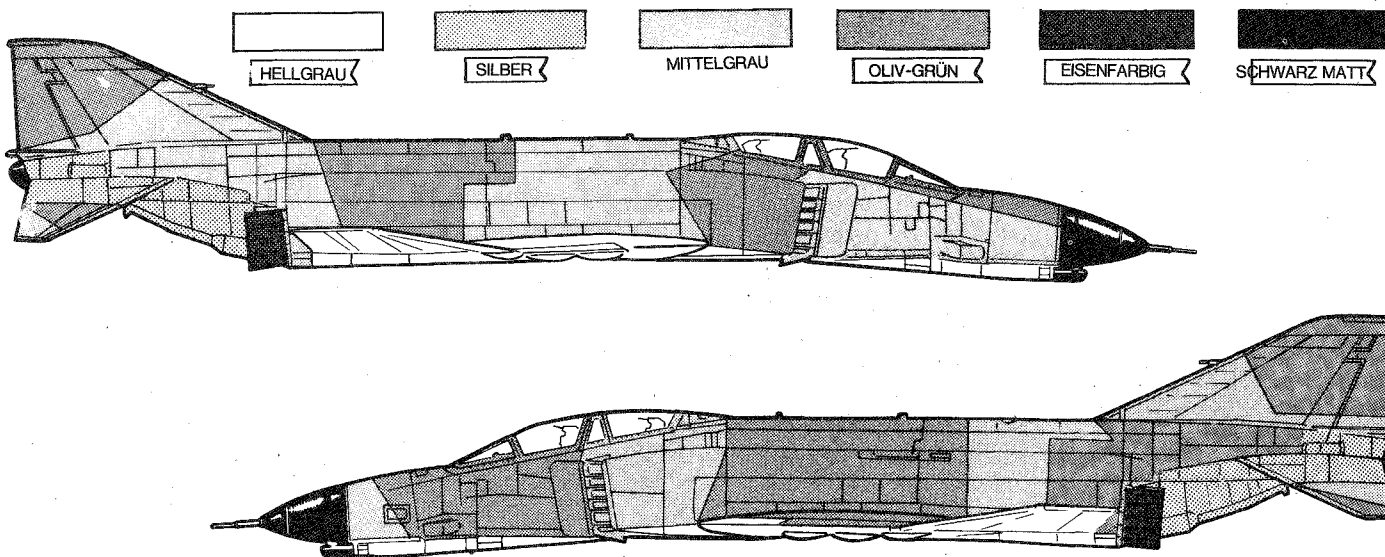
1. Refer to **Page 12, Decal Placement**, and apply all **UNDERWING DECALS** as shown.
2. Cement three **FUEL TANKS** from **Steps 8 and 9** in place as shown.
3. Install **RIGHT and LEFT WEAPON PYLONS** from **Step 12**.
4. Cement the **BOMB RACKS** to the **PYLONS** if you so desire.

21 FINAL ASSEMBLY

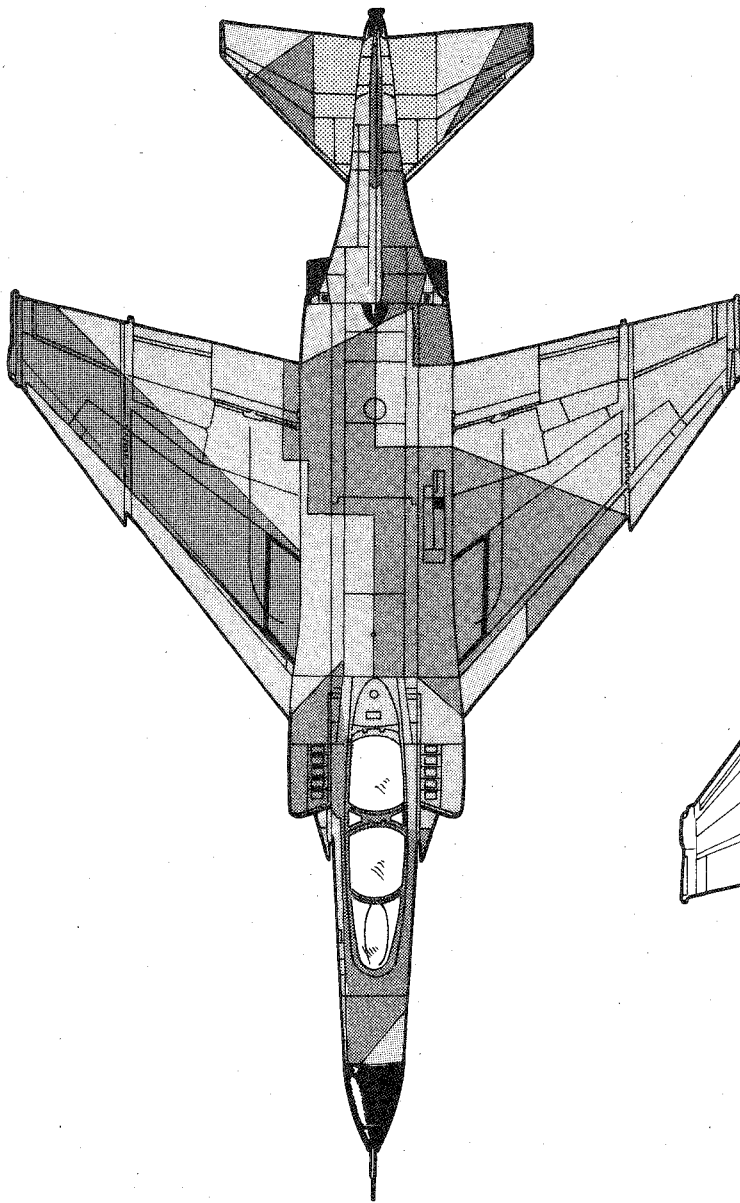


1. **PLACE, DO NOT CEMENT** the **ENGINE ASSEMBLY** from **Step 2** inside the **FUSELAGE**, then rotate **ENGINE** until the **KEY** locates into the **ENGINE BULKHEAD**.
2. **PLACE, DO NOT CEMENT (71)** onto the **FUSELAGE**. **Part is removable to display or remove ENGINE.**

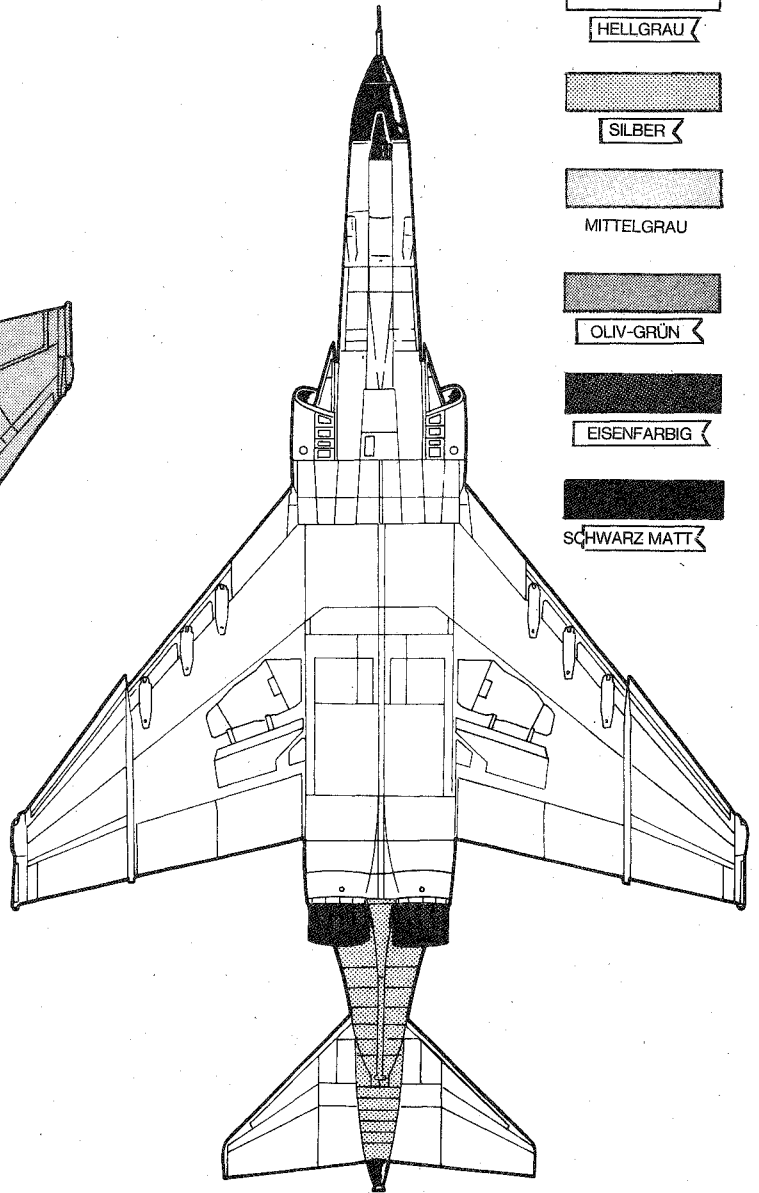
FUSELAGE CAMOUFLAGE PATTERN



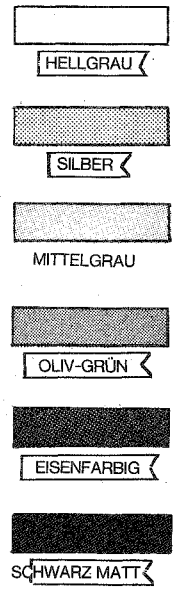
CAMOUFLAGE PATTERN UPPER AND LOWER SURFACES



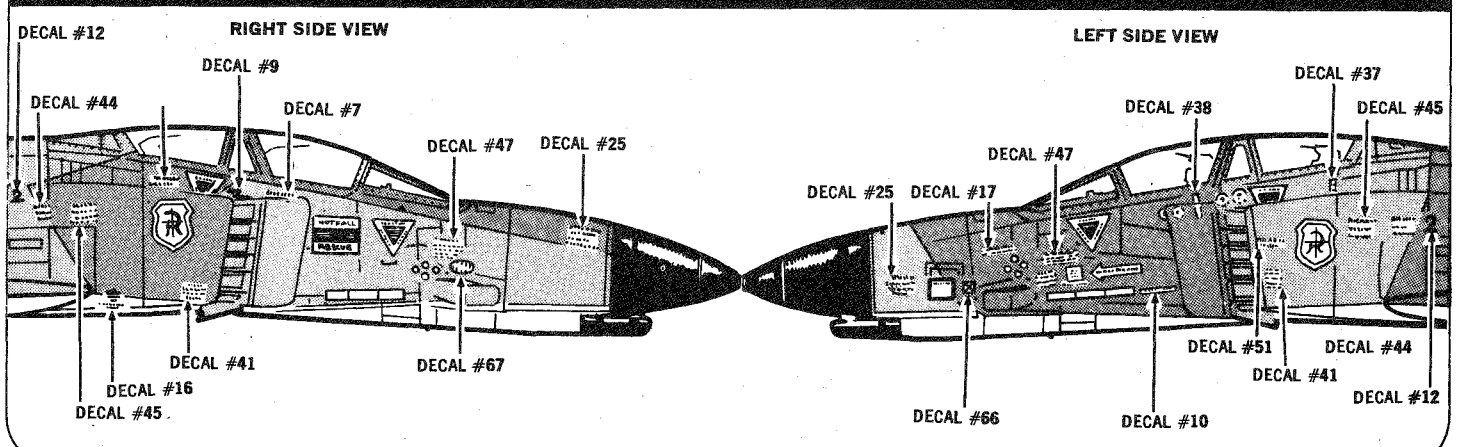
TOP VIEW



BOTTOM VIEW

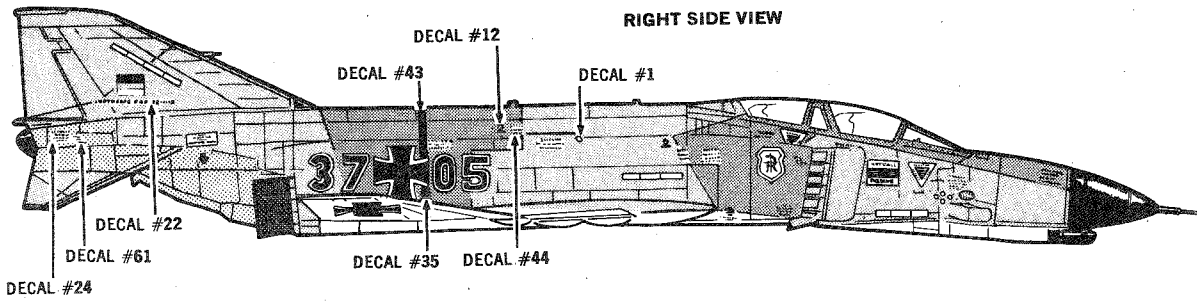


NOSE SECTION DECALS



DECAL PLACEMENT

RIGHT SIDE VIEW



LEFT SIDE VIEW

