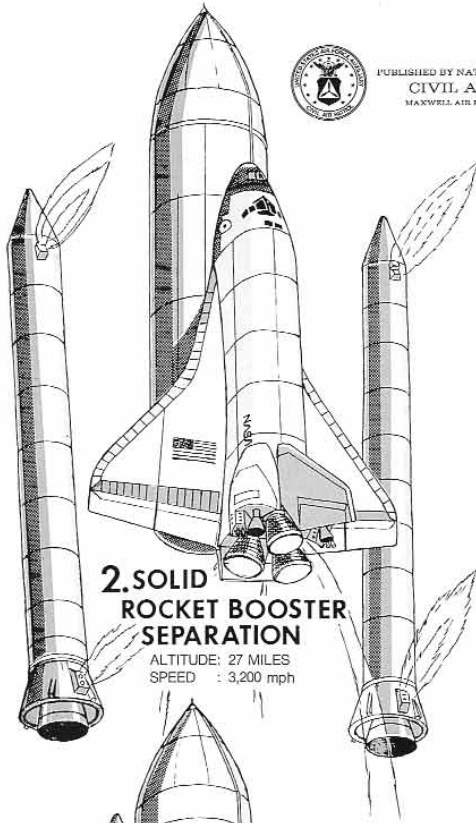


A TYPICAL SHUTTLE MISSION

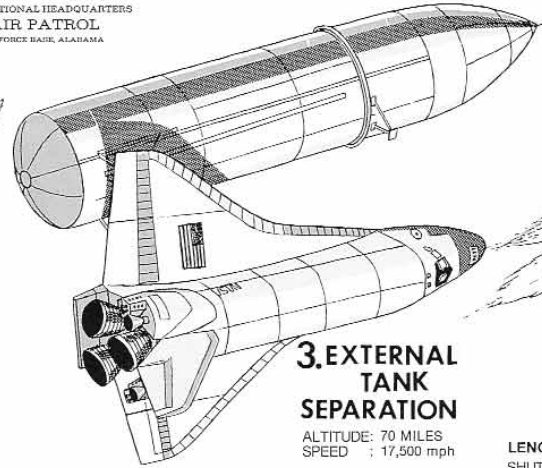


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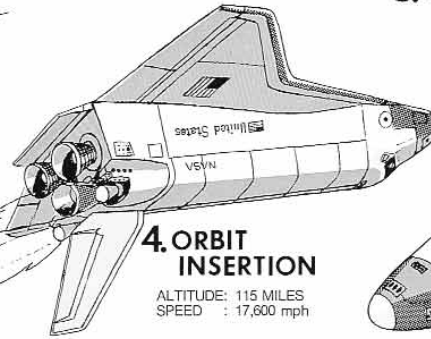
2. SOLID ROCKET BOOSTER SEPARATION

ALTITUDE: 27 MILES
SPEED : 3,200 mph



3. EXTERNAL TANK SEPARATION

ALTITUDE: 70 MILES
SPEED : 17,500 mph



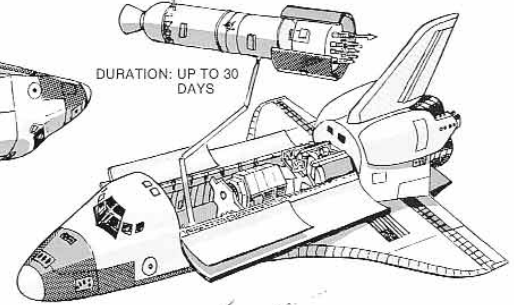
4. ORBIT INSERTION

ALTITUDE: 115 MILES
SPEED : 17,600 mph

5. ORBITAL OPERATIONS

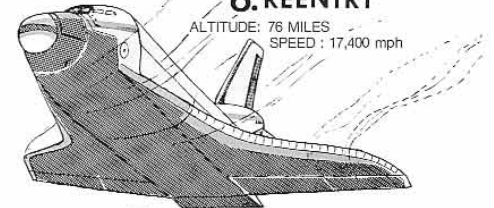
ALTITUDE: 100 - 600 MILES

DURATION: UP TO 30 DAYS



6. REENTRY

ALTITUDE: 76 MILES
SPEED : 17,400 mph



7. LANDING

SPEED: 200 mph



SHUTTLE CHARACTERISTICS

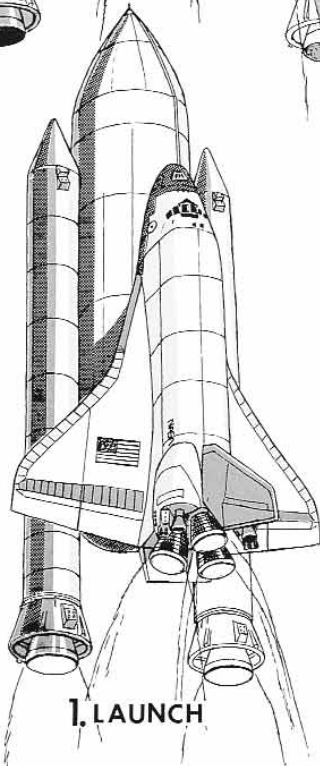
LENGTH:
SHUTTLE - 184 FT.
ORBITER - 122 FT.

HEIGHT:
SHUTTLE - 76 FT.
ORBITER - 57 FT.

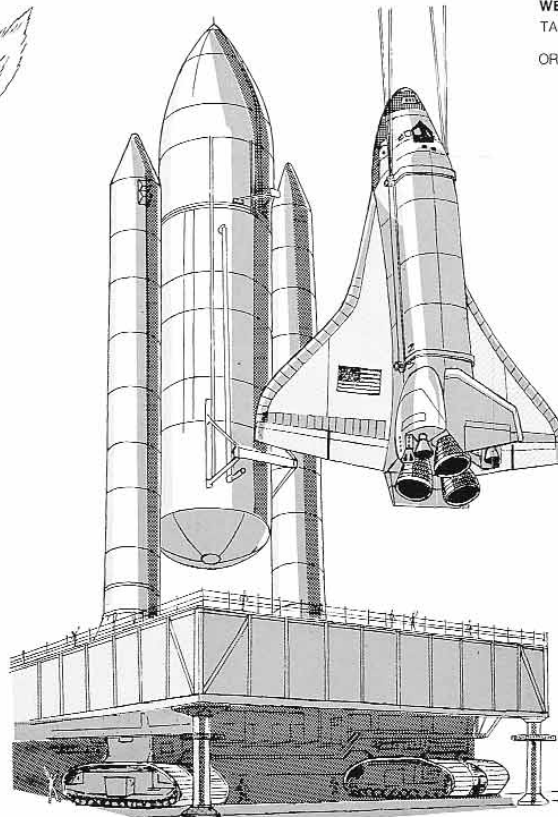
WEIGHT:
TAKEOFF - 4 1/2 MILLION POUNDS
ORBITER LANDING - 187 THOUSAND POUNDS

THRUST:
SOLID ROCKET BOOSTERS (2) - 2.6 MILLION POUNDS EACH.
ORBITER MAIN ENGINES (3) - 470,000 POUNDS EACH.

EACH SHUTTLE ORBITER CAN FLY AT LEAST 100 MISSIONS AND CAN CARRY EIGHT CREW MEMBERS AND PASSENGERS/SPECIALISTS INTO ORBIT.



1. LAUNCH



9. REASSEMBLY

8. REFURBISHING

