

Figure 1.

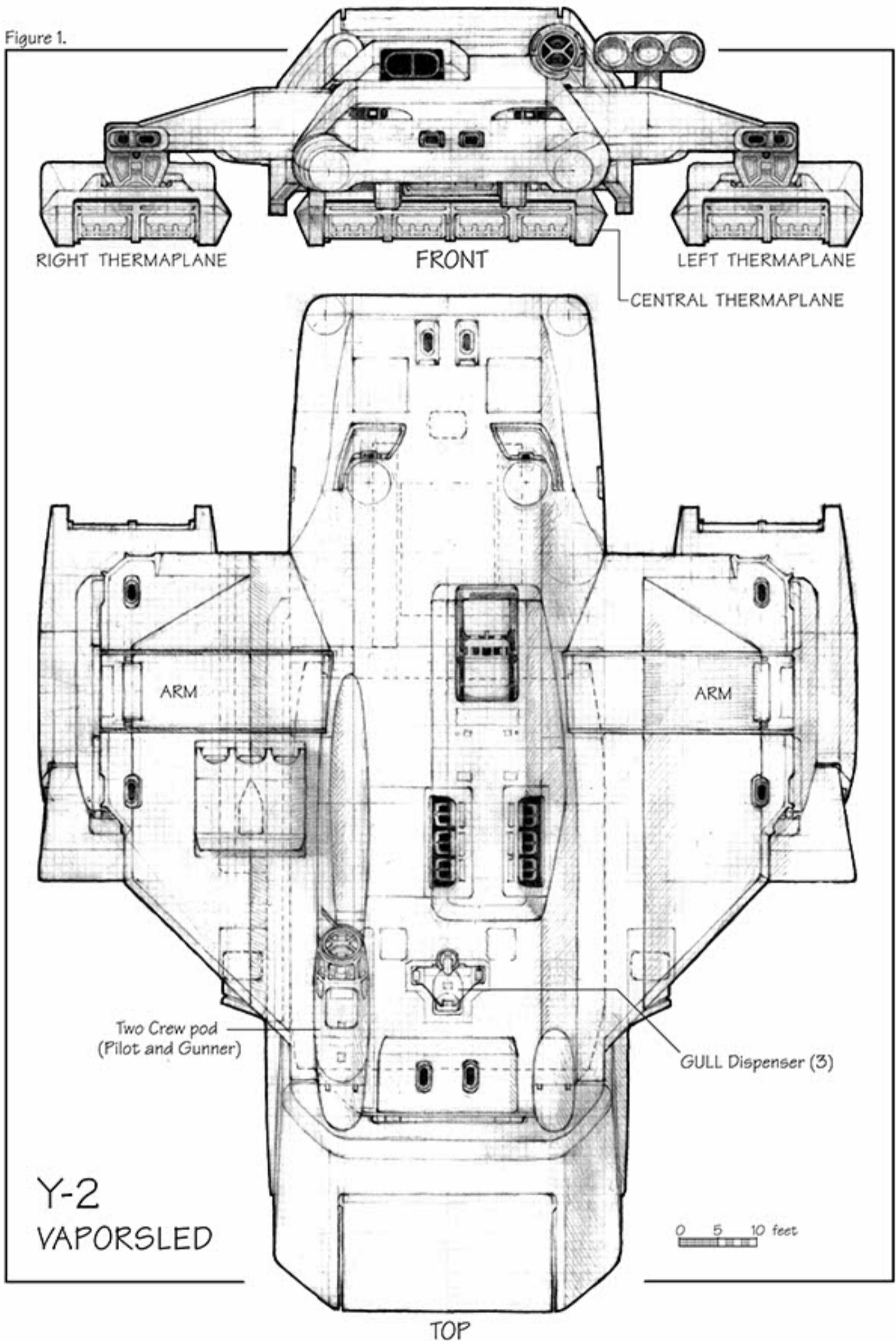
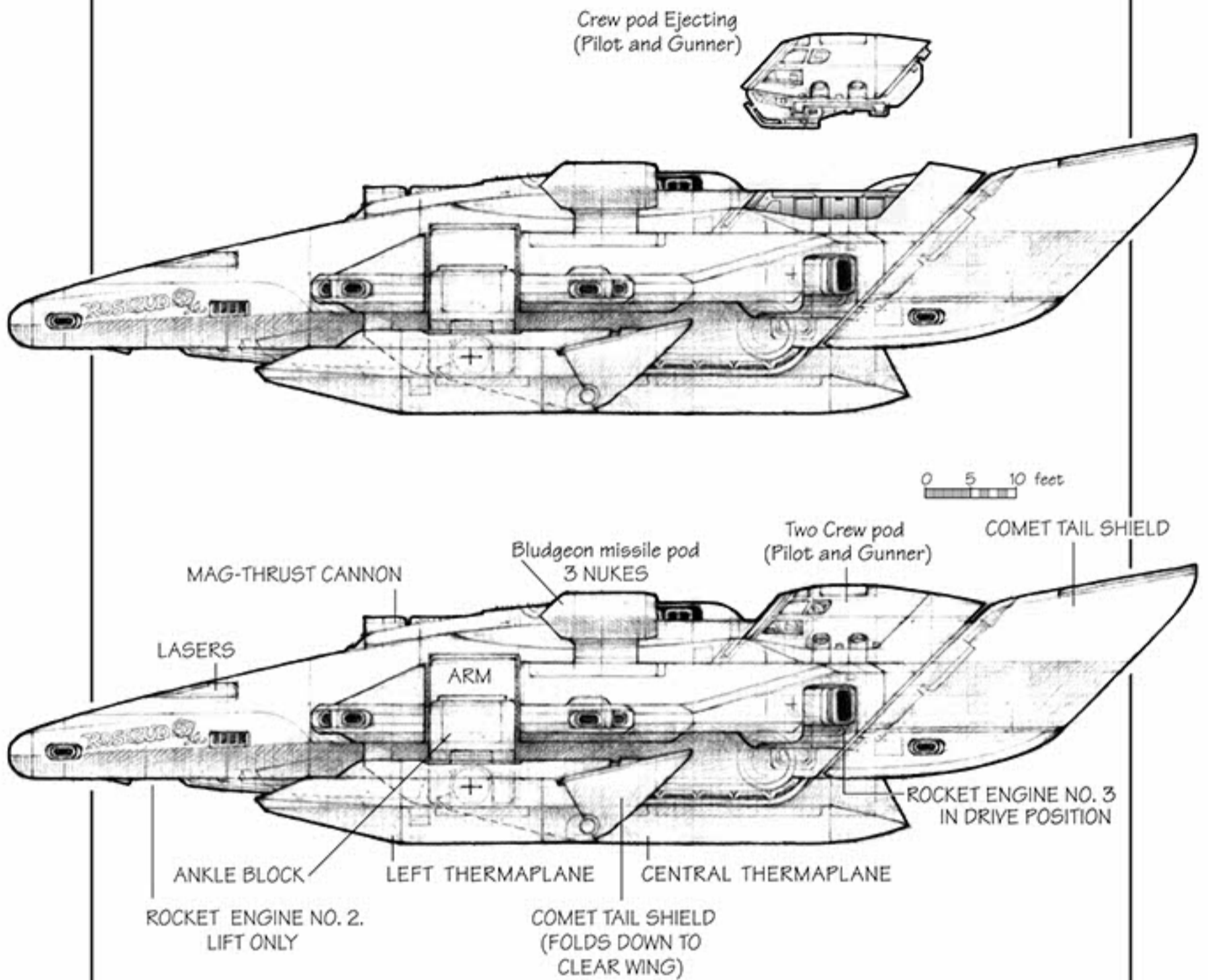


Figure 2.



Y-2
VAPORSLED

Figure 3.

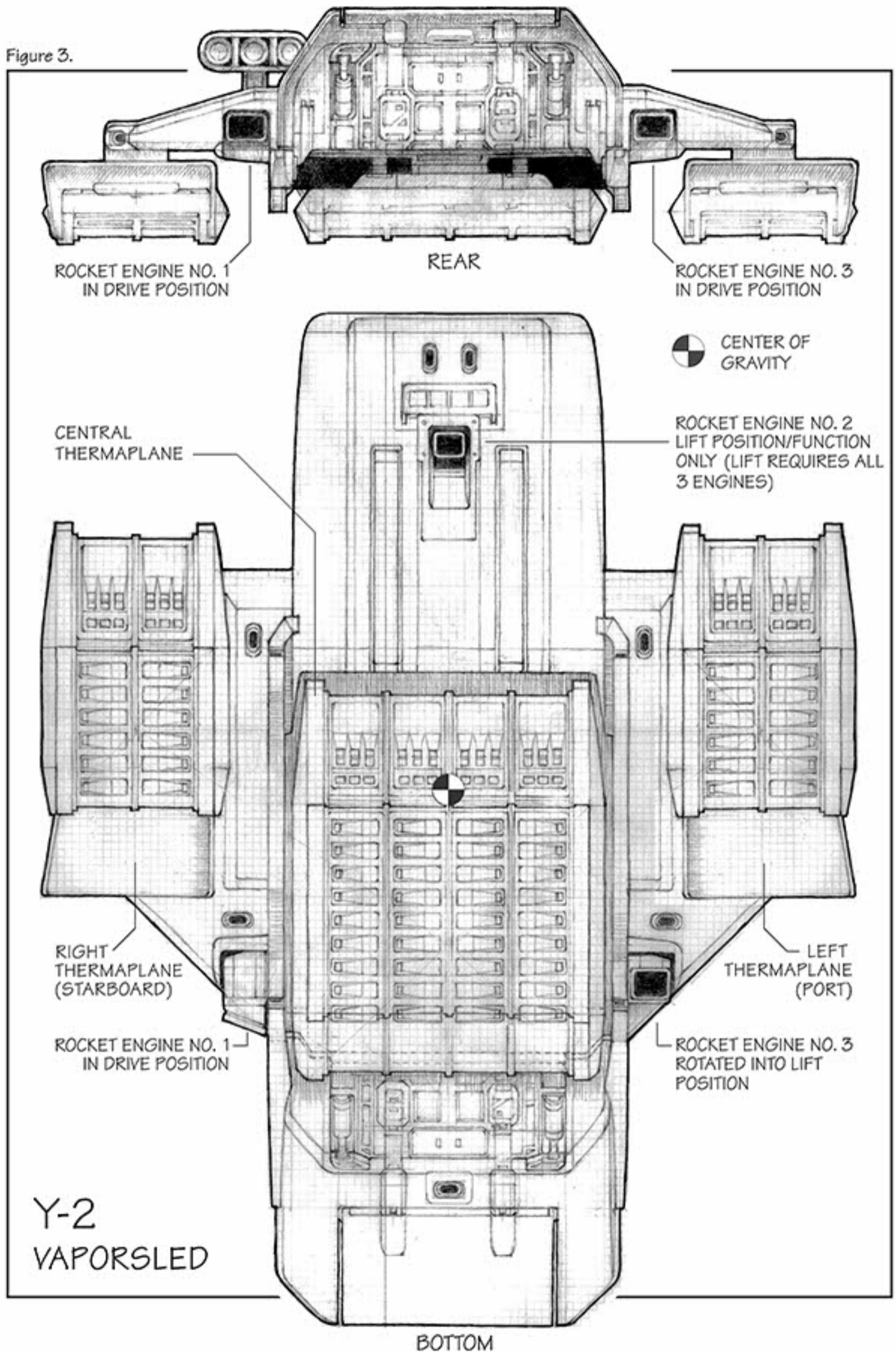


Figure 4.

THERMAPLANES

CENTRAL Thermaplane - Pre heaters, compressor: 24 laser units
Support grid: 36 laser units.

OUTRIGGER Thermaplanes - Pre heaters, compressors: 12 laser units each
Support grid: 12 laser units each

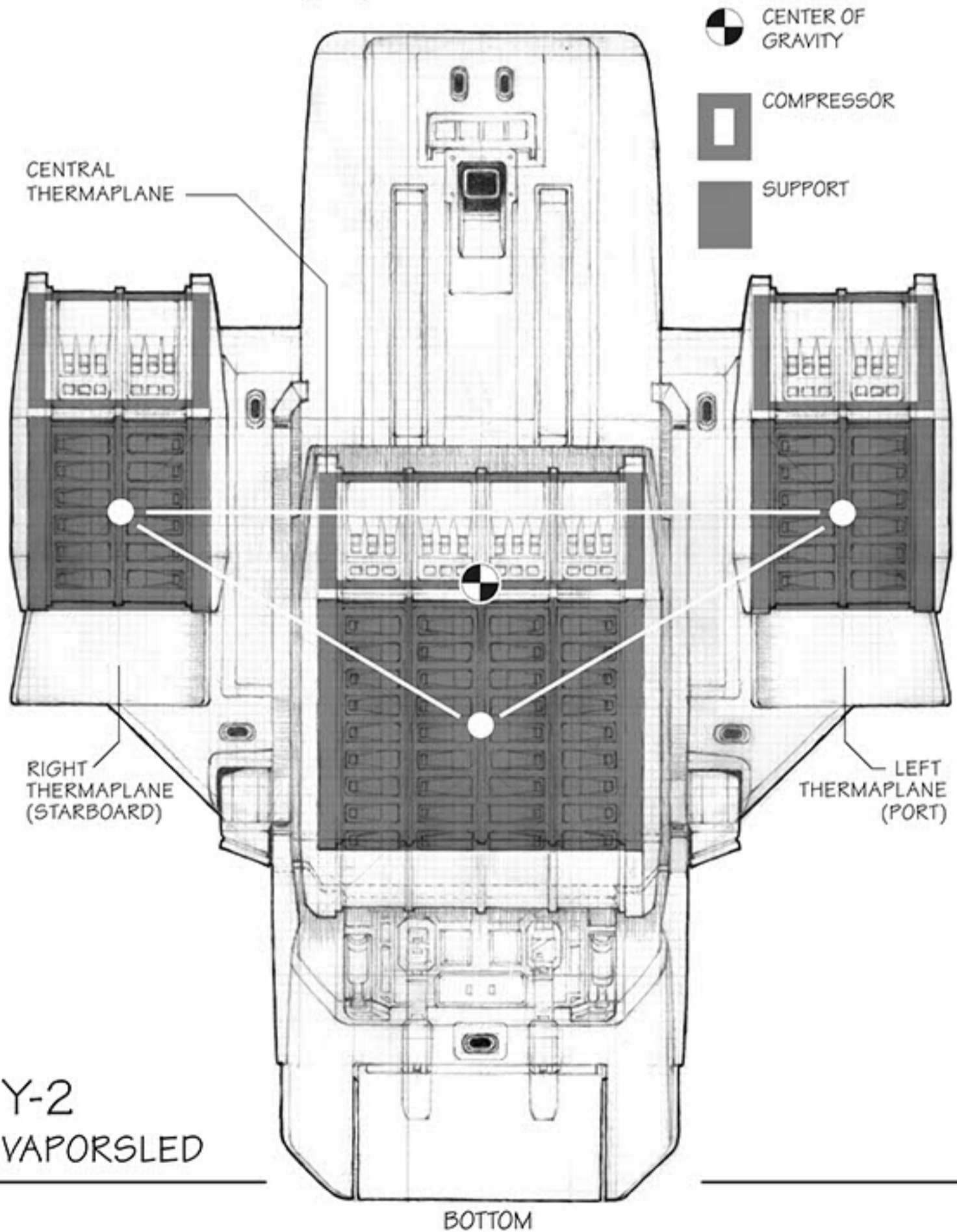


Figure 5.

MODE 1. VAPORSLEDDING

Y-2 VAPORSLED PERFORMANCE ON THE SURFACE OF GANYMEDE (0.15 G)

VAPORSLEDDING BASICS

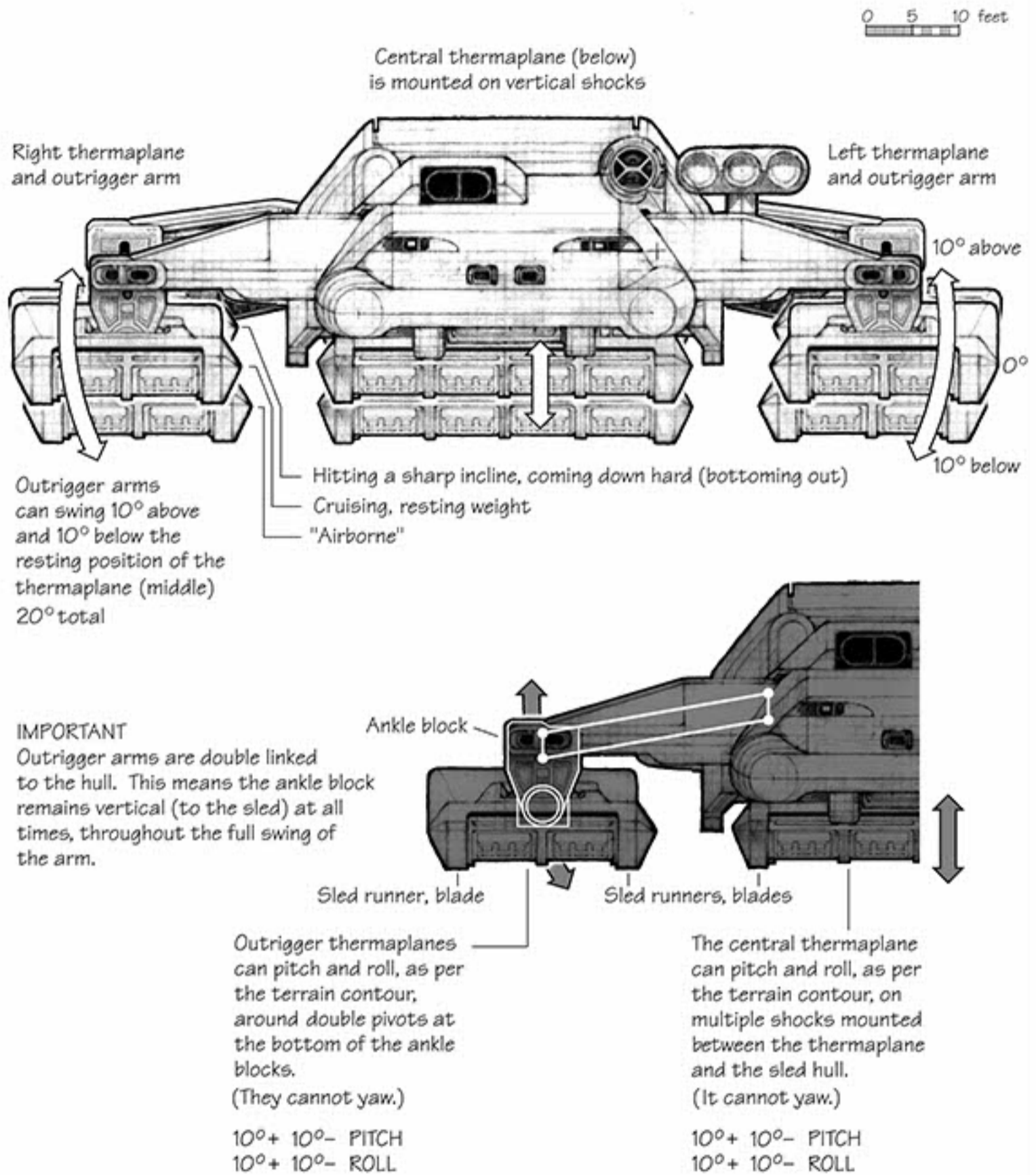
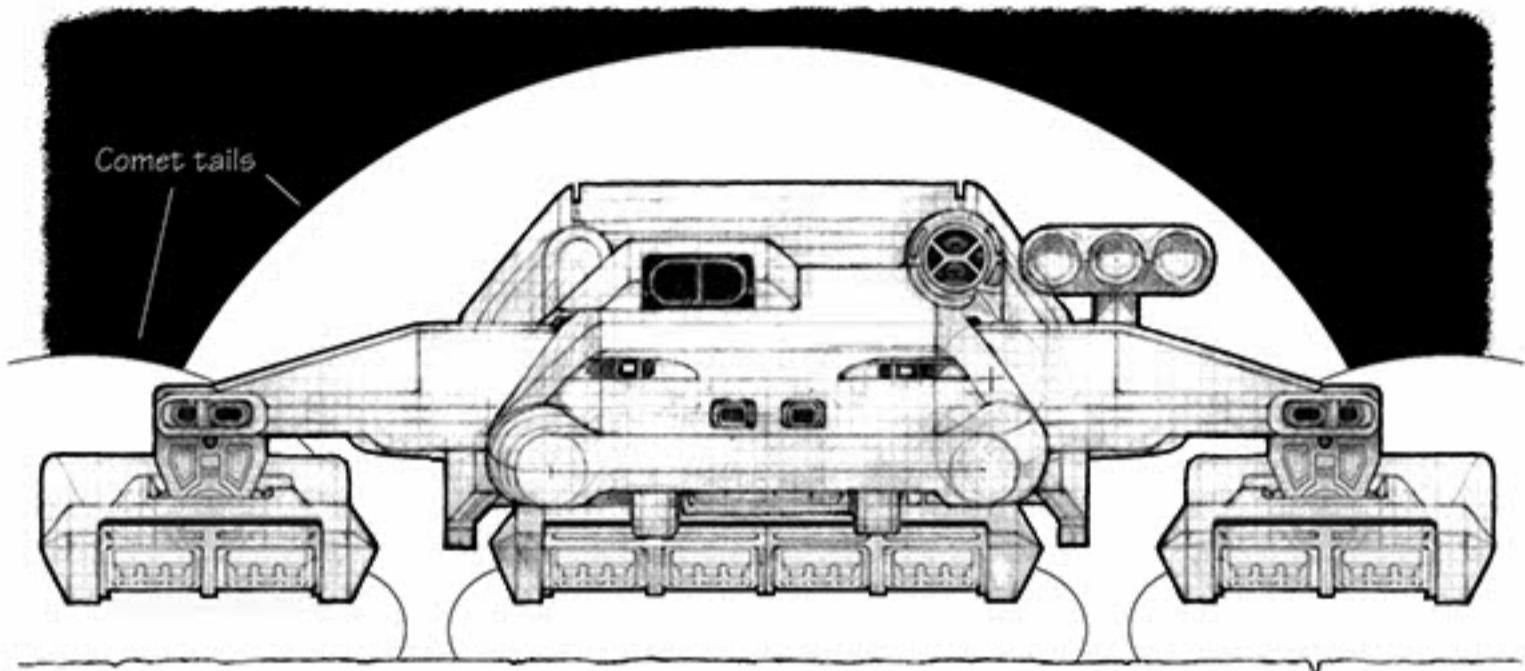


Figure 6.

MODE 1. VAPORSLEDDING

Y-2 VAPORSLED PERFORMANCE ON THE SURFACE OF GANYMEDE (0.15 G)

1. CRUISING



300 TO 400 Kilometers per hour over flat ice.



ELEVATION ABOVE SURFACE:

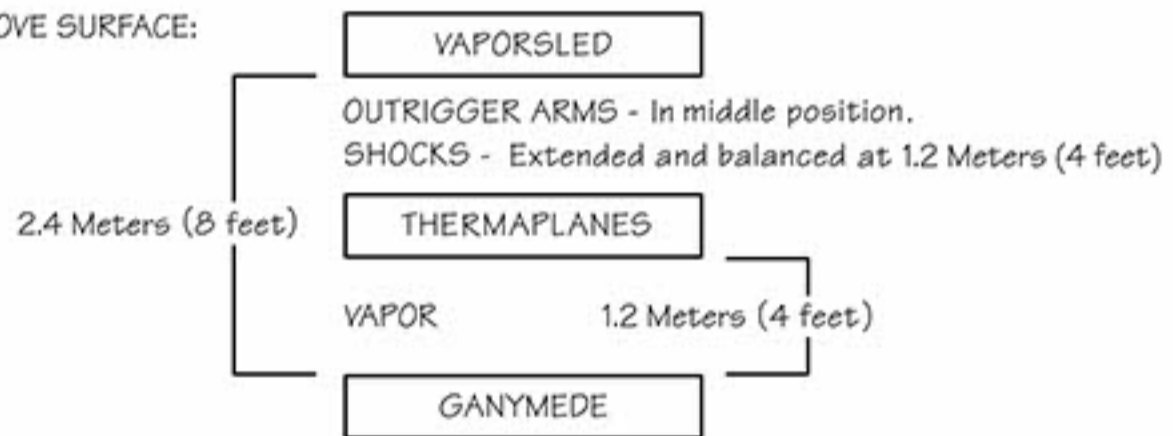
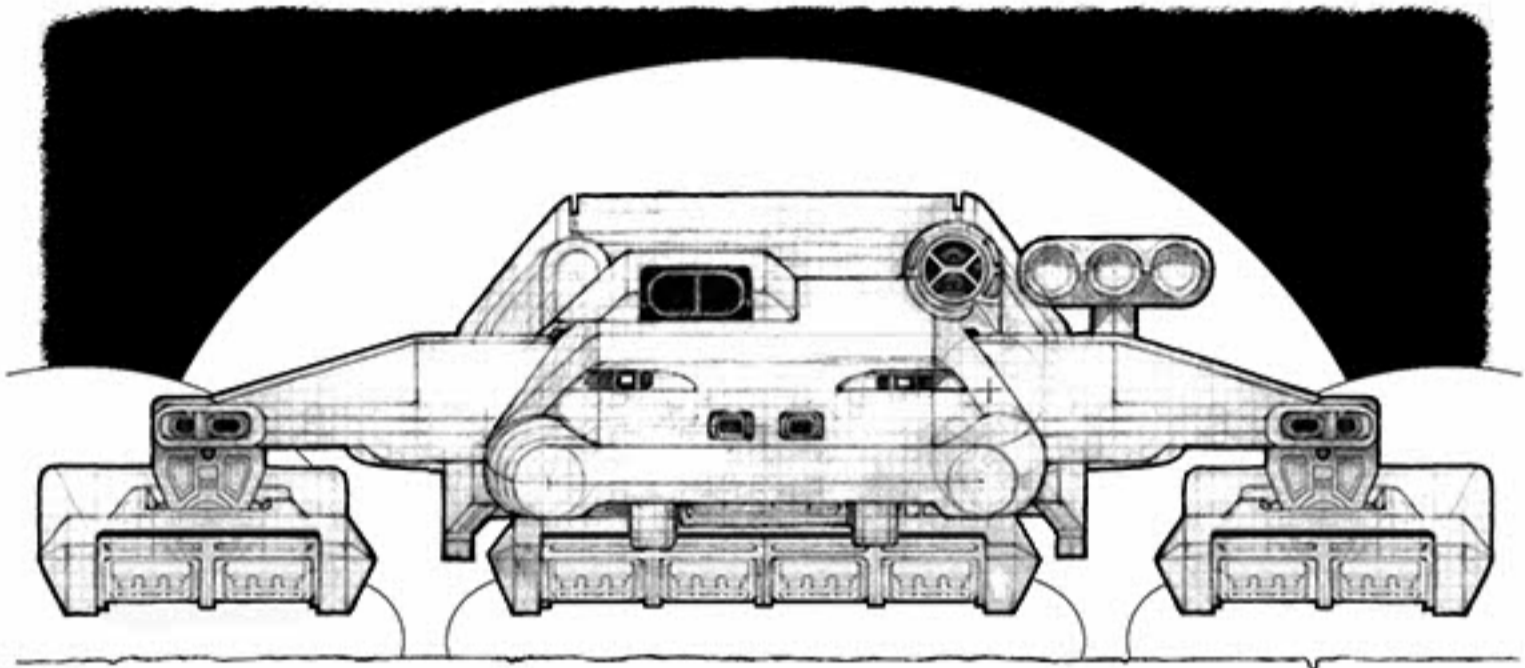


Figure 7.

MODE 1. VAPORSLEDDING

Y-2 VAPORSLED PERFORMANCE ON THE SURFACE OF GANYMEDE (0.15 G)

2. MAXIMUM GROUND SPEED



500 Kilometers per hour over flat ice.



ELEVATION ABOVE SURFACE:

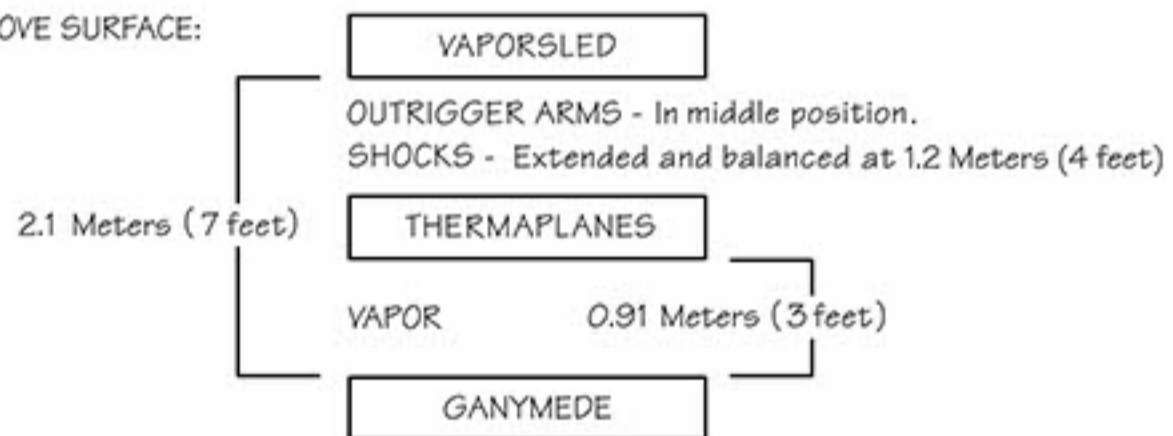
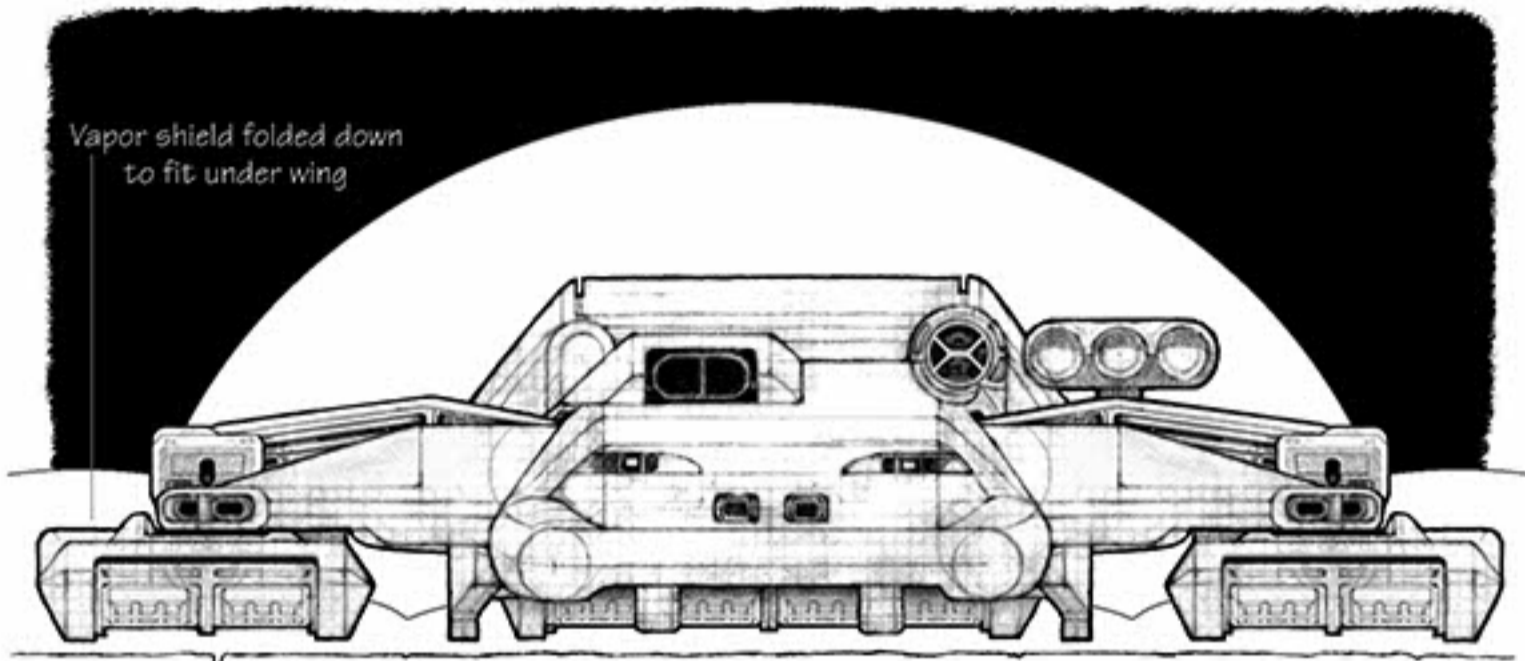


Figure 8.

MODE 1. VAPORSLEDDING

Y-2 VAPORSLED PERFORMANCE ON THE SURFACE OF GANYMEDE (0.15 G)

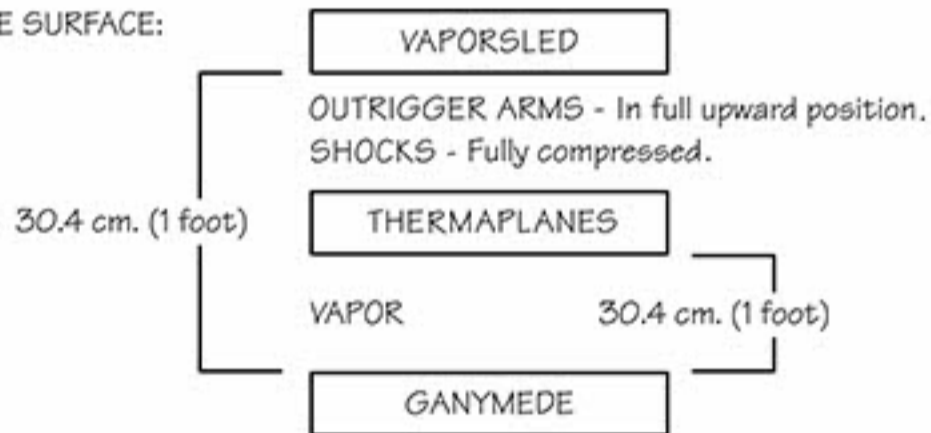
3. HIGH SPEED INCLINE



HIGH SPEED ENCOUNTER with steep incline, ridge or crater edge.
(VAPORSLED Accelerated upward by terrain)
Coming down hard (bottoming out).

0 5 10 feet

ELEVATION ABOVE SURFACE:



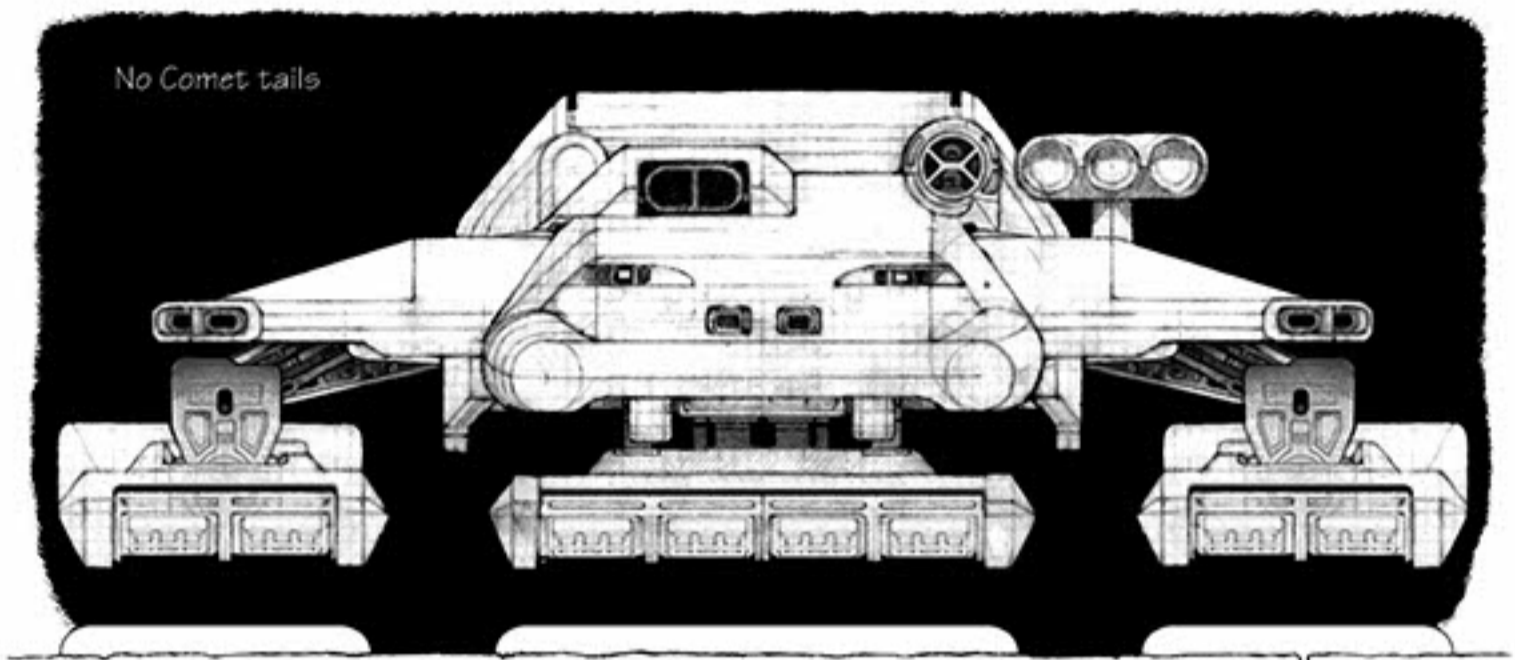
Physical contact with the surface is quite possible if acceleration upward or velocity downward is excessive.

Figure 9.

MODE 1. VAPORSLEDDING

Y-2 VAPORSLED PERFORMANCE ON THE SURFACE OF GANYMEDE (0.15 G)

4. SLIGHT INERTIAL JUMP



VAULTING OVER THE CREST OF A HILL, the speeding Vaporsled is almost weightless. (This is very near the upper limit of the vaporsled effect.)

"Airborne"

ELEVATION ABOVE SURFACE:

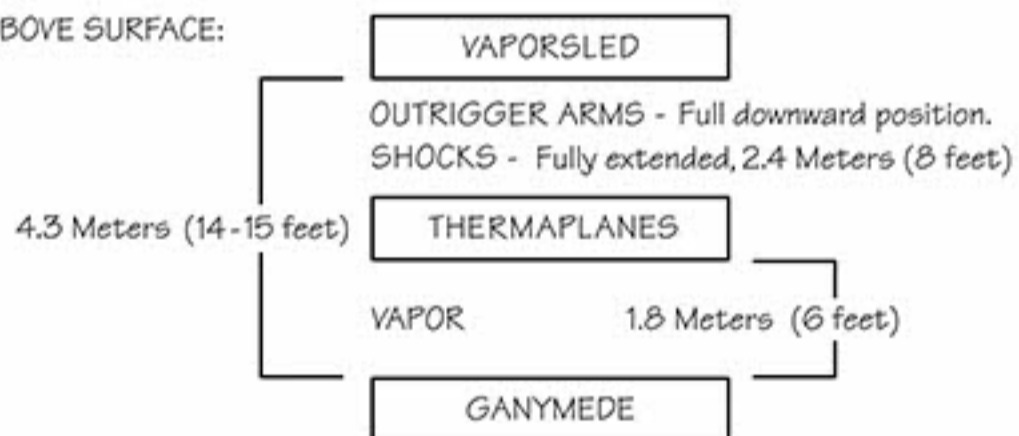
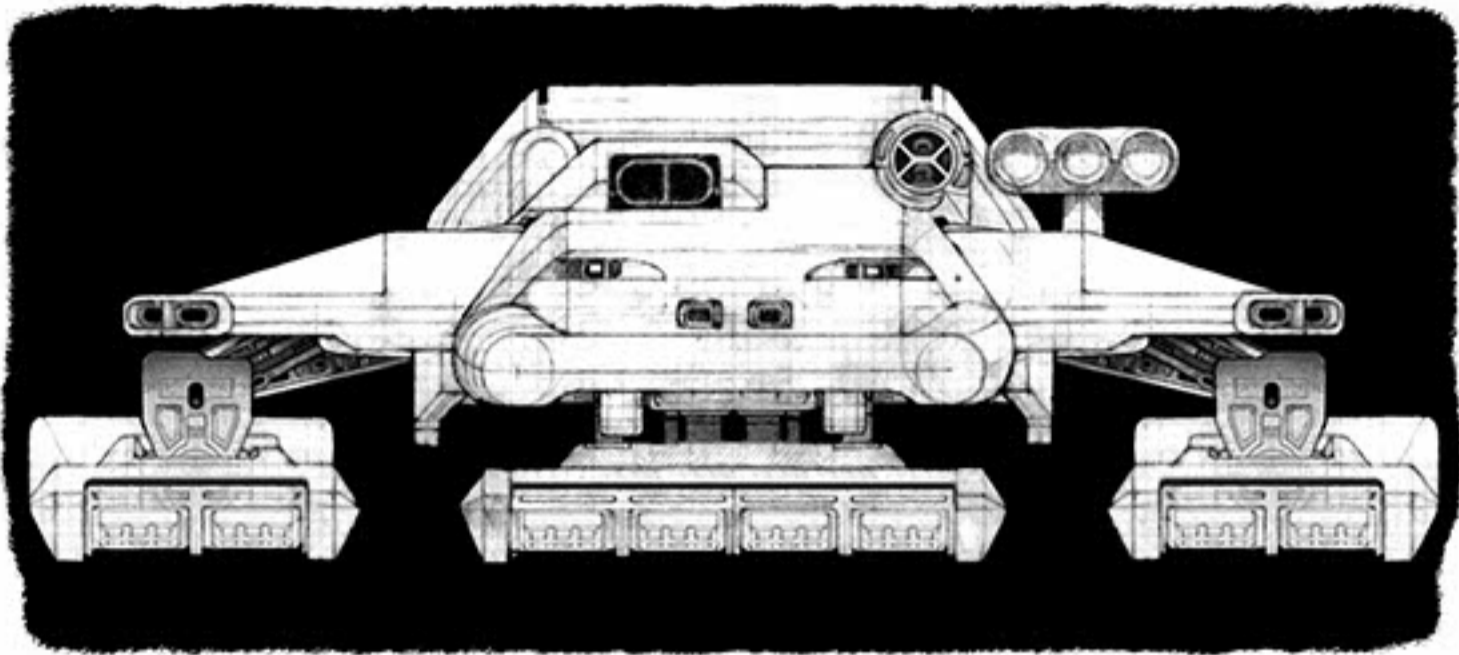


Figure 10.

MODE 2. INERTIAL JUMPING NO. 1.



BALLISTIC TRAJECTORY (ZERO G)

0 5 10 feet

VAPORSLED

OUTRIGGER ARMS - Full downward position.
SHOCKS - Fully extended, 2.4 Meters (8 feet)

THERMAPLANES

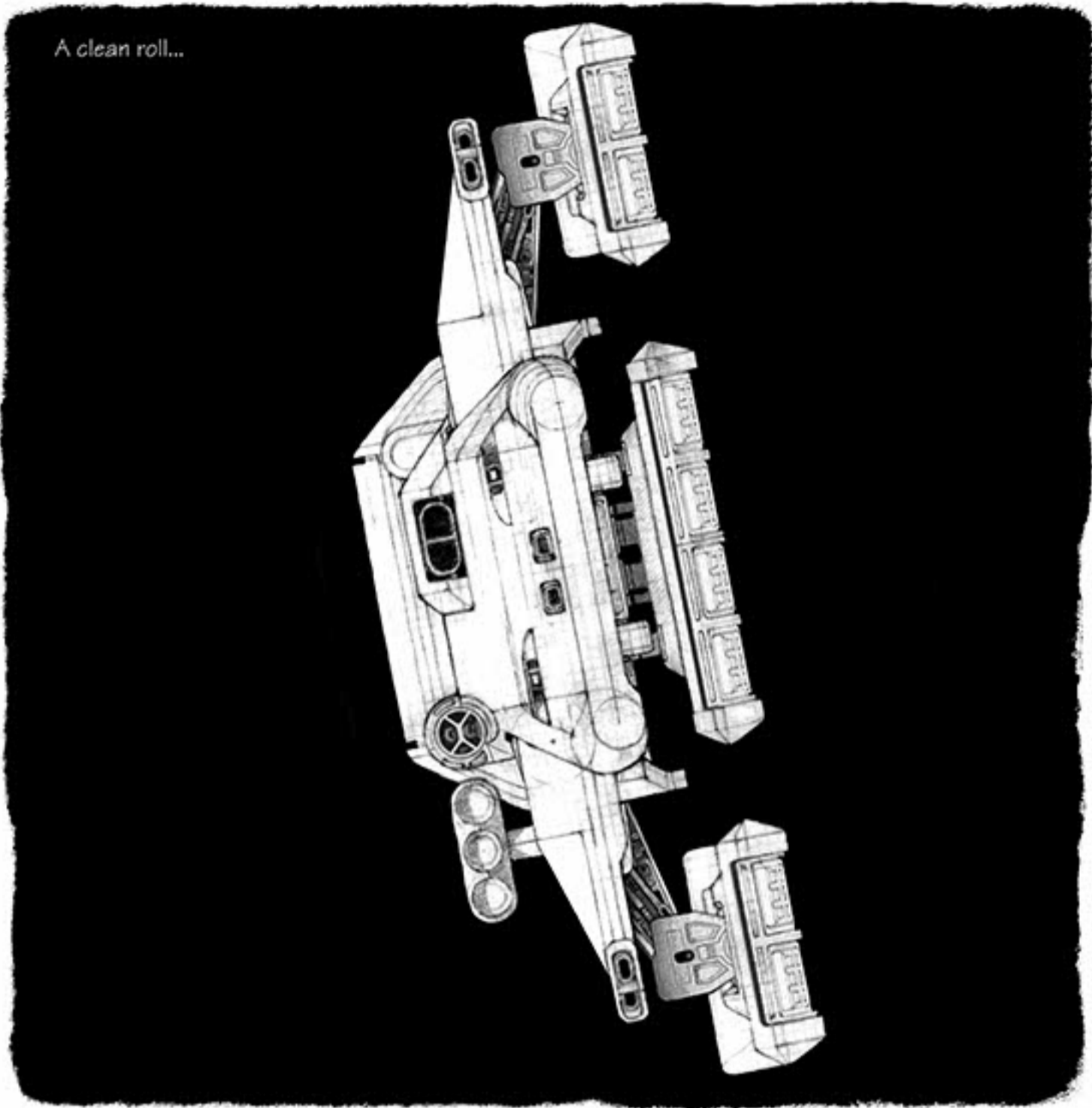
ANY ALTITUDE, ASCENDING - DESCENDING

All rotations are possible (PITCHING, ROLLING and YAWING or any combination). They can be residual, retarded or initiated without effecting the sled's trajectory/flight path in any way.

Figure 11.

MODE 2. INERTIAL JUMPING NO. 2.

A clean roll...



BALLISTIC TRAJECTORY (ZERO G)

0 5 10 feet

VAPORSLED

OUTRIGGER ARMS - Full downward position.
SHOCKS - Fully extended, 2.4 Meters (8 feet)

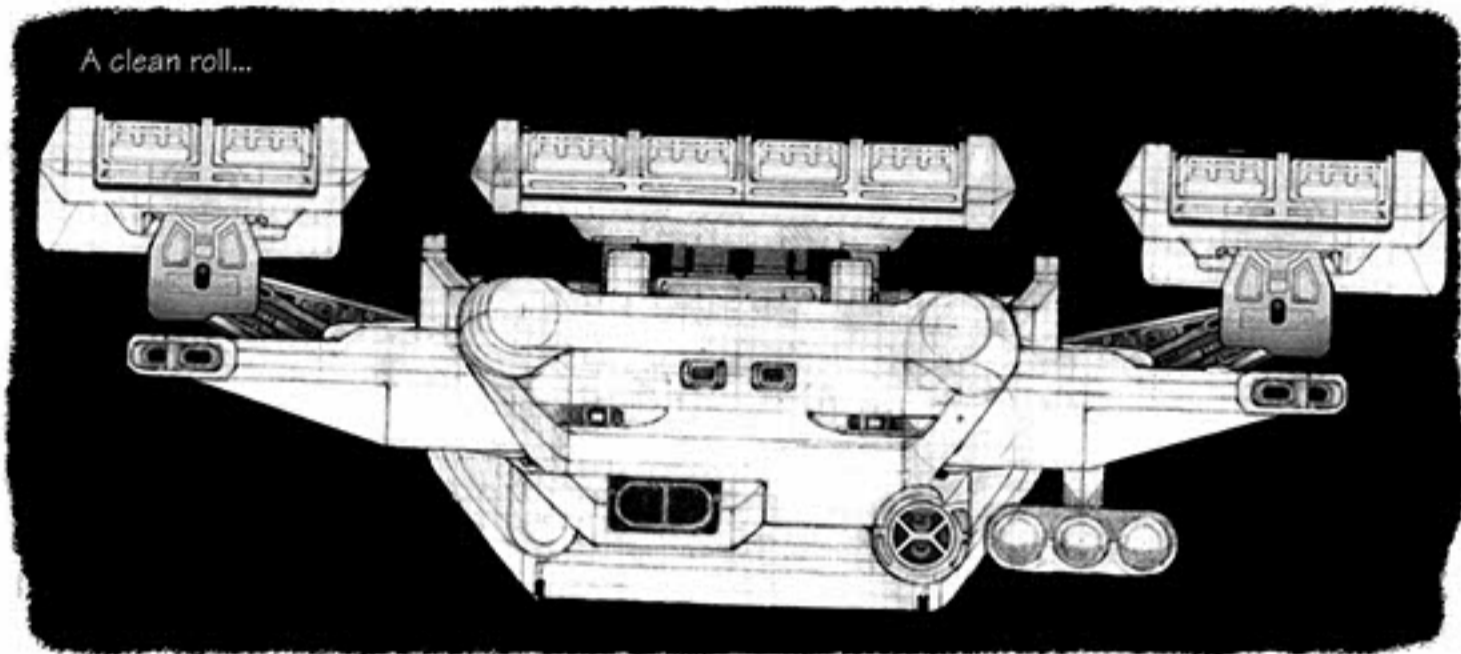
THERMAPLANES

ANY ALTITUDE, ASCENDING - DESCENDING

All rotations are possible (PITCHING, ROLLING and YAWING or any combination). They can be residual, retarded or initiated without effecting the sled's trajectory/flight path in any way .

Figure 12.

MODE 2. INERTIAL JUMPING NO. 3



BALLISTIC TRAJECTORY (ZERO G)

0 5 10 feet

VAPORSLED

OUTRIGGER ARMS - Full downward position.
SHOCKS - Fully extended, 2.4 Meters (8 feet)

THERMAPLANES

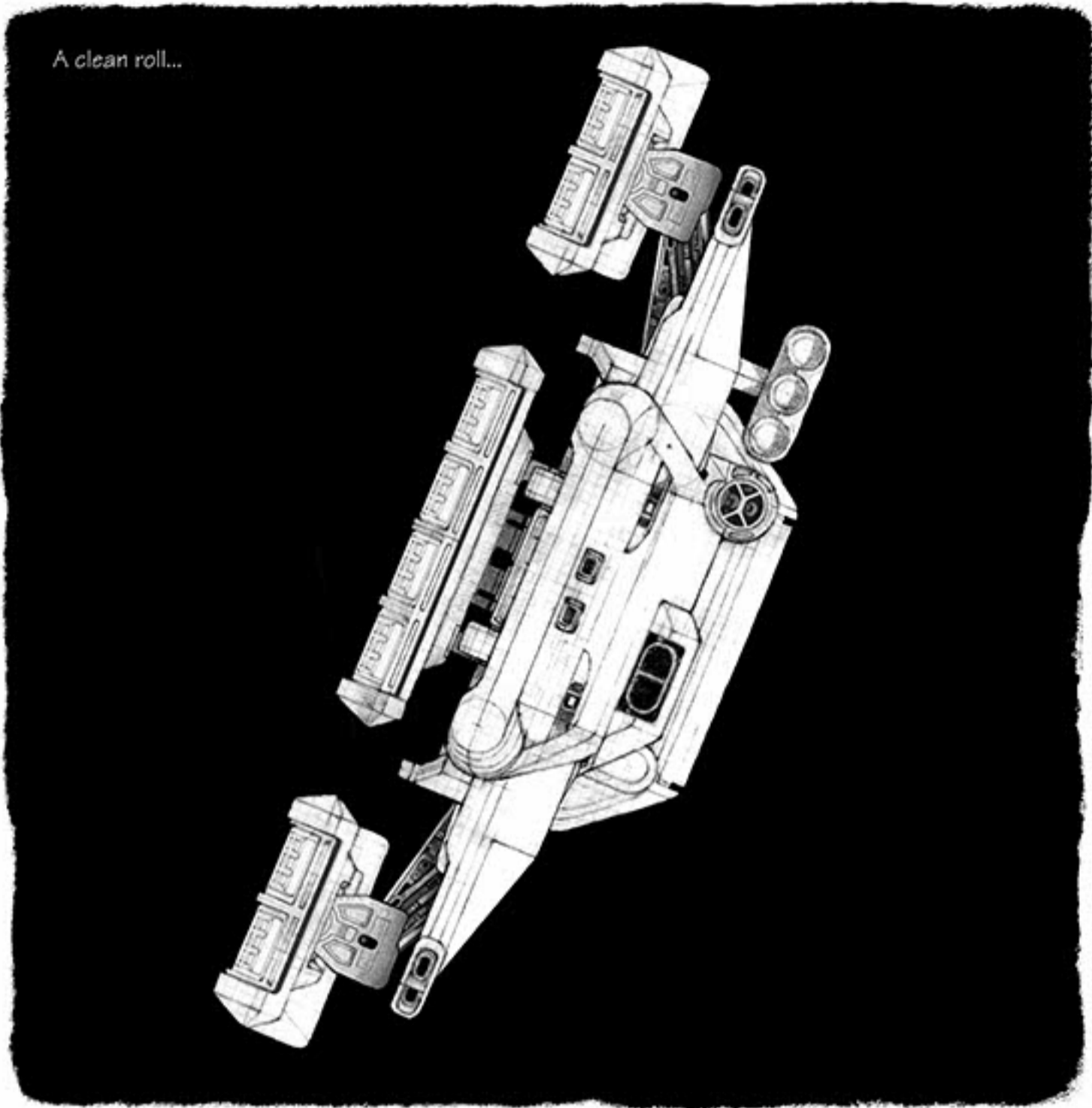
ANY ALTITUDE, ASCENDING - DESCENDING

All rotations are possible (PITCHING, ROLLING and YAWING or any combination). They can be residual, retarded or initiated without effecting the sled's trajectory/flight path in any way .

Figure 13.

MODE 2. INERTIAL JUMPING NO. 4

A clean roll...



BALLISTIC TRAJECTORY (ZERO G)

0 5 10 feet

VAPORSLED

OUTRIGGER ARMS - Full downward position.
SHOCKS - Fully extended, 2.4 Meters (8 feet)

THERMAPLANES

ANY ALTITUDE, ASCENDING - DESCENDING

All rotations are possible (PITCHING, ROLLING and YAWING or any combination). They can be residual, retarded or initiated without effecting the sled's trajectory/flight path in any way.

Figure 14.

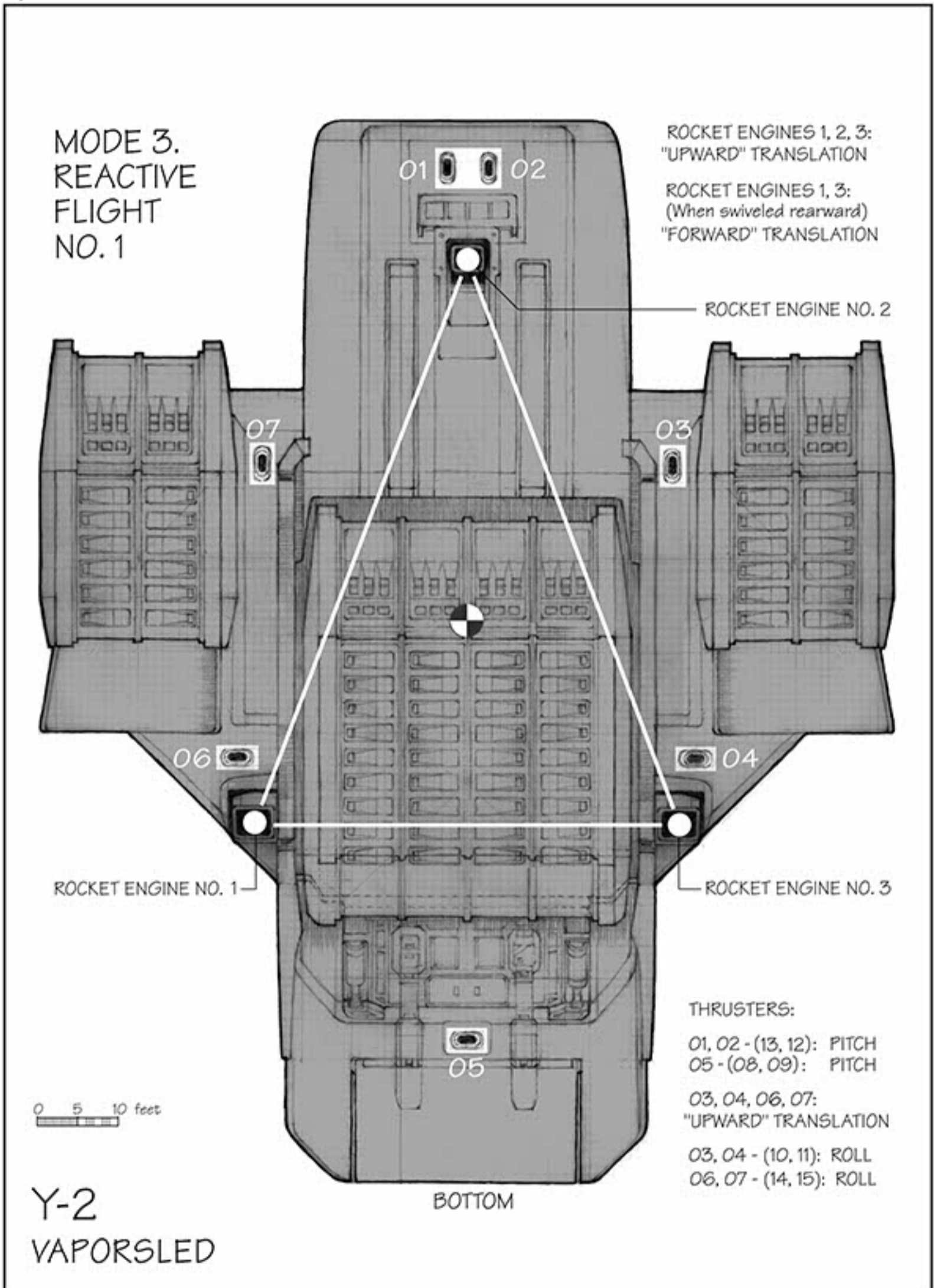
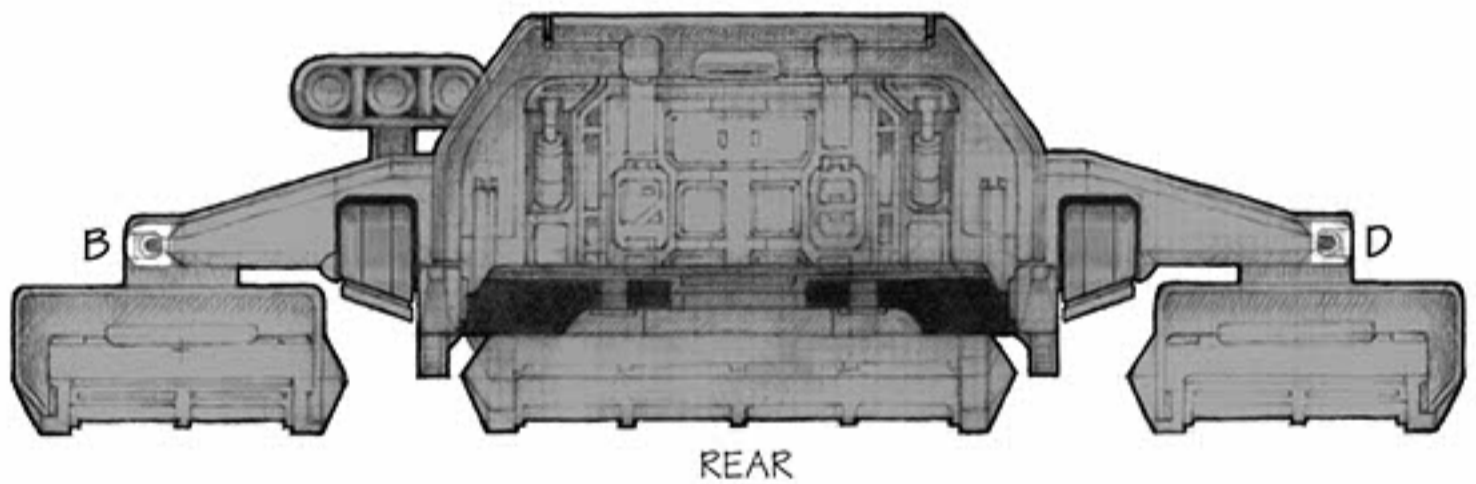
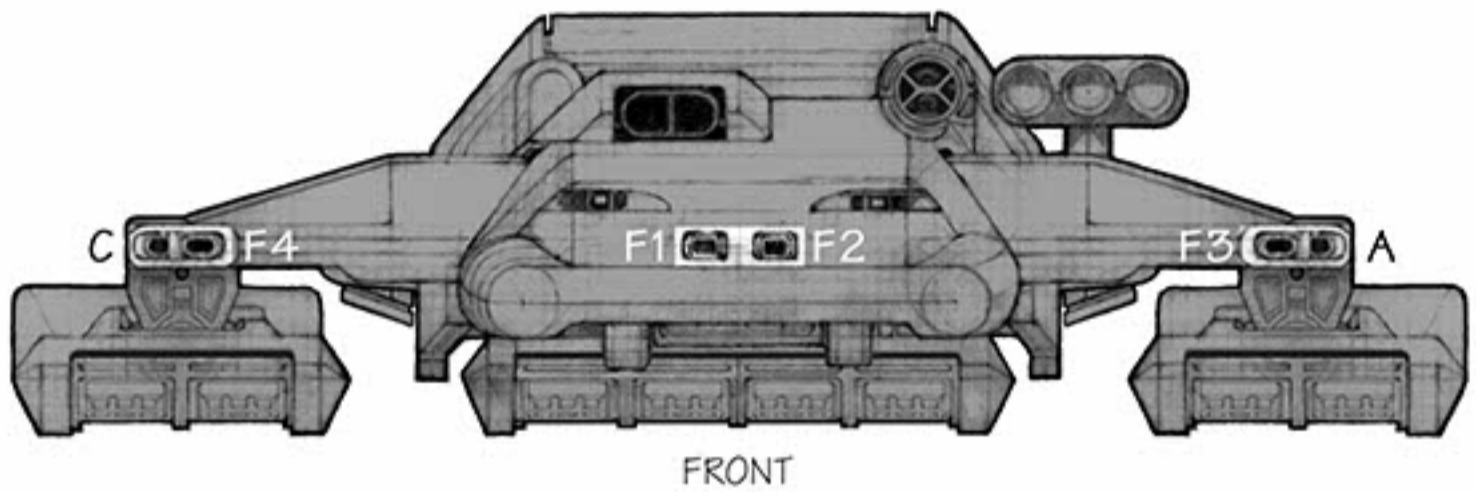


Figure 15.

MODE 3. REACTIVE FLIGHT NO. 2

THRUSTERS: F1, F2, F3, F4: "REARWARD" TRANSLATION (BRAKING)



THRUSTERS: A, B, C, D: DIAGONALS, MOSTLY FOR VAPORSLEDDING

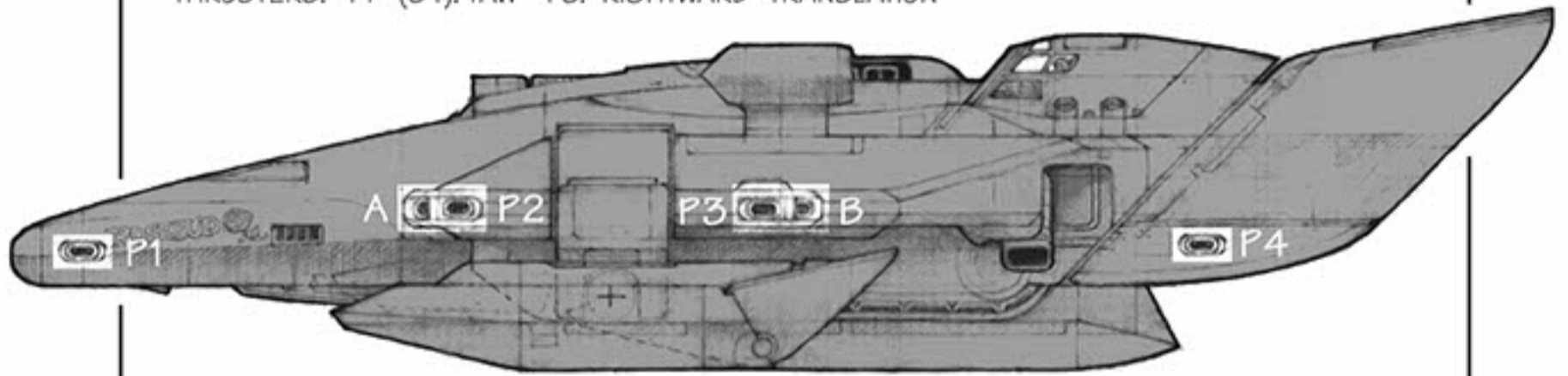
0 5 10 feet

Y-2
VAPORSLED

Figure 16.

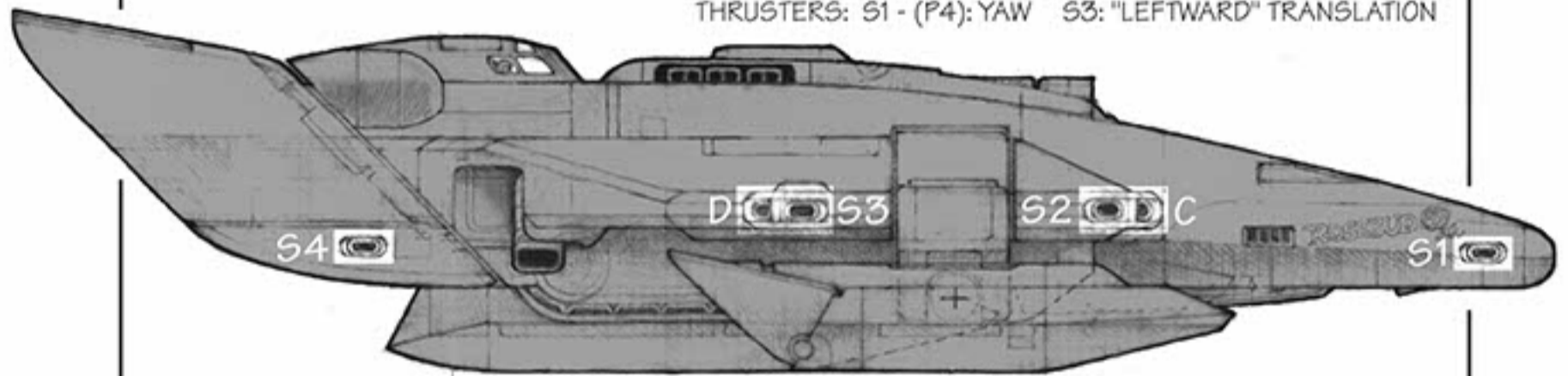
MODE 3. REACTIVE FLIGHT NO. 3.

THRUSTERS: P1 - (S4): YAW P3: "RIGHTWARD" TRANSLATION



PORT SIDE (P)

THRUSTERS: S1 - (P4): YAW S3: "LEFTWARD" TRANSLATION



STARBOARD SIDE (S)

THRUSTERS: A, B, C, D and S2, P2 ARE FOR TURNING WHILE VAPORSLEDDING

0 5 10 feet

Y-2
VAPORSLED

Figure 17.

