Shuttlecraft Type-9 Shuttlecraft Controls Reference
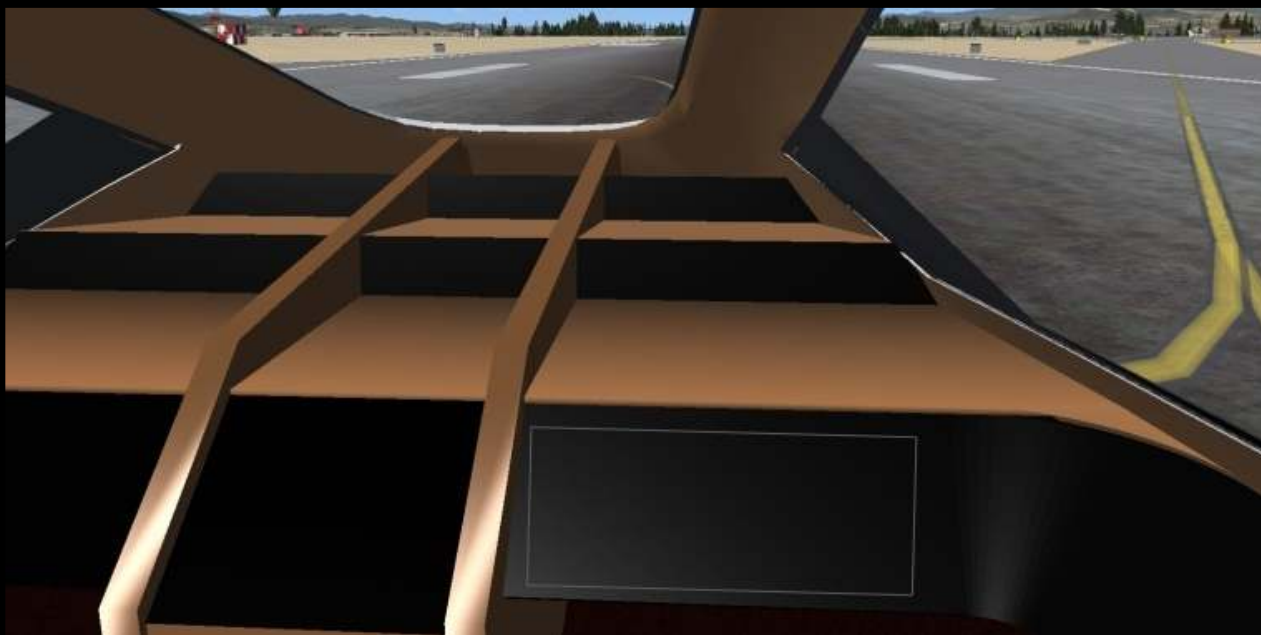

Reference Manual Notes

- This manual will use Star Trek terminology whenever possible. FSX terminology will be shown in Yellow.
- When you see "Touch" : it means Click.
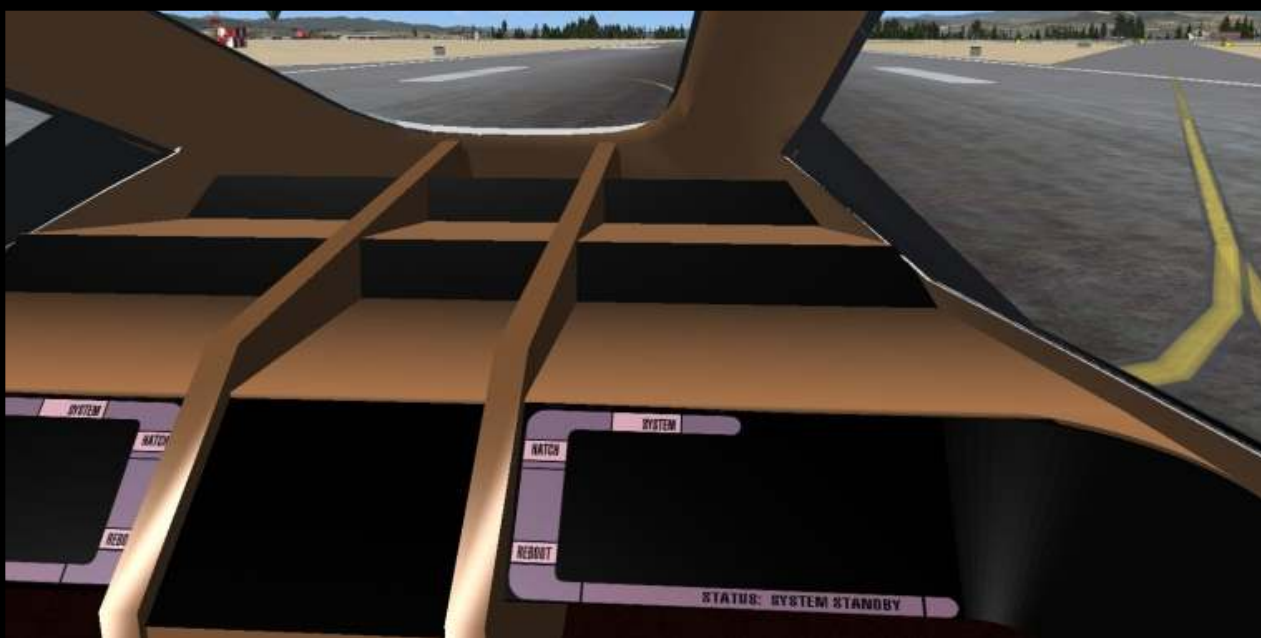
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Panel Orientation

When the Shuttlecraft Type-9 is shut down, the cockpit panels will display nothing:

To activate the panel, touch anywhere in the gray box. This box if shown only on this illustration and not on the actual panel.

This puts the system in Standby Mode.

- **SYSTEM**: brings all systems online.
- **HATCH**: opens and closes the back hatch (**Shift F2**).
- **REBOOT**: reboots the computer system.

If you reboot or your speed exceeds Mach 2.3 and the system automatically reboots the panel displays the reboot sequence:
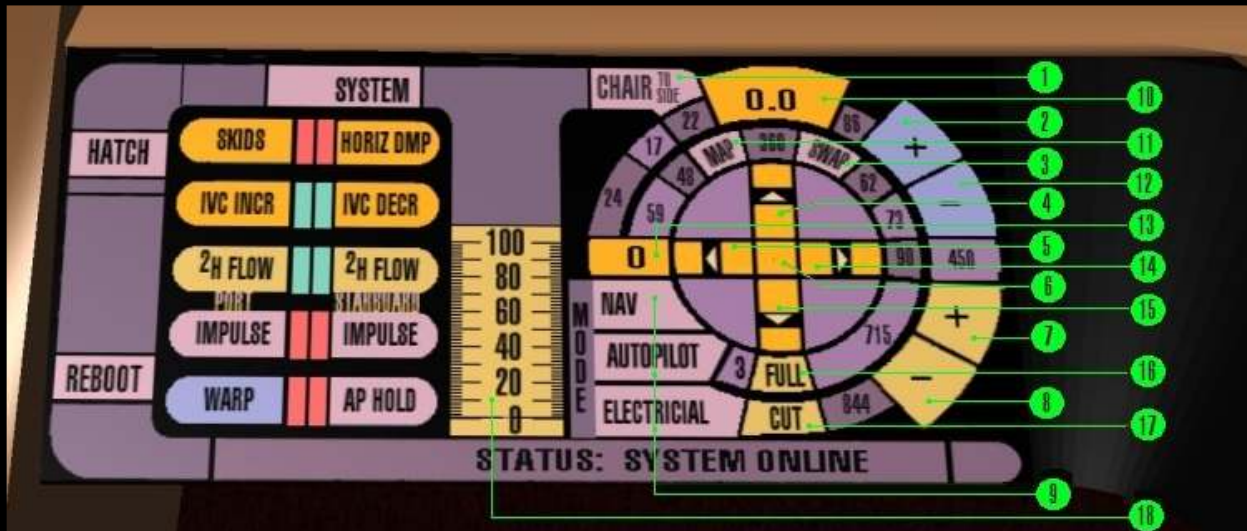
To bring systems online, touch SYSTEM:

Display Legend:

1. Astronavigation / Planetary Position display.
2. Flight Status / Autopilot settings display.
3. Navigational control.
4. Stardate display.
5. Annunciator
6. Primary MFD. A secondary MFD in is located behind the pilot's seat.
7. GPS-MFD. A second GPS-MFD is located on to co-pilot's side.
8. Large-MDF (not shown): to the right of the pilot and next to the GPS-MFD.
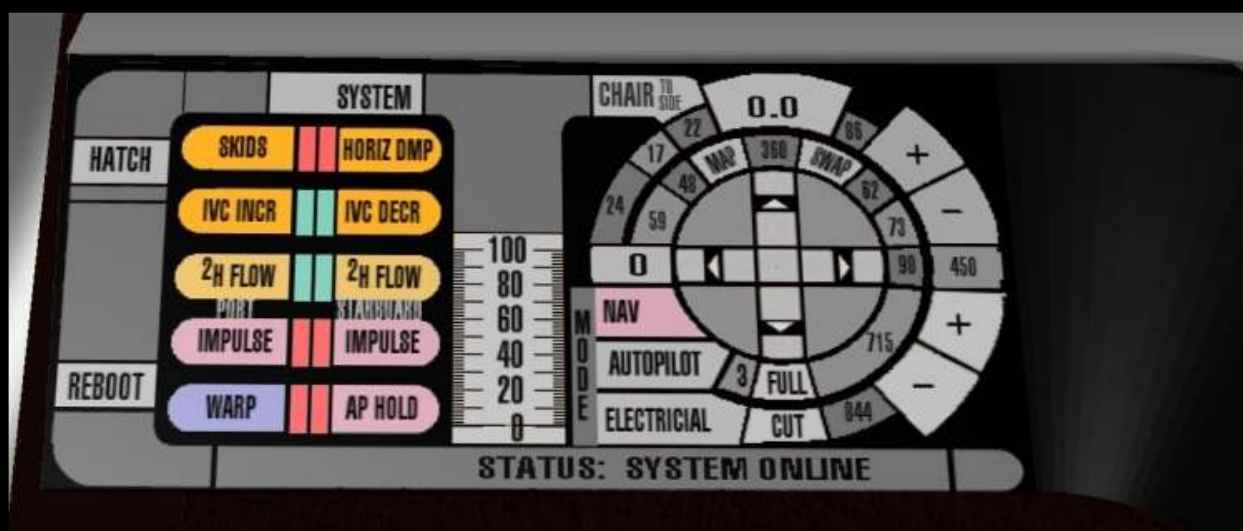
Navigational Control

Display Legend:

1. **CHAIR TO SIDE**: Touch to reposition the chair to view starboard side and rear panels. (You will have to pan to view the MFDs.).
2. **Warp** - Increase: Increases Time Warp. Note - Warp Engines must be engaged. (Time Warp is Sim Rate).
3. **SWAP**: Toggles between the Astronavigation and Planetary Position display.
4. **Maneuvering Thrusters** - Pitch Down. (Elevator Down - Num Pad No Lock 8)
5. **Maneuvering Thrusters** - Yaw Port. (Rudder Port - Num Pad No Lock 4)
6. **Maneuvering Thrusters** - Pitch Centered. (Elevator Centered - Num Pad No Lock 5)
7. **Impulse Power** - Increase. (F3)
8. **Impulse Power** - Decrease. (F2)
9. **MODE**: Changes the left side of the Navigational Control (see below).
10. **Maneuvering Thrusters** - Pitch percentage trimmed.
11. **MAP**: Toggles between the two modes of each map.
12. **Warp** - Decrease: Decreases Time Warp. Note - Warp Engines must be engaged. (Time Warp is Sim Rate).
13. **Maneuvering Thrusters** - Yaw percentage trimmed.
14. **Maneuvering Thrusters** - Yaw Starboard. (Rudder Starboard - Num Pad No Lock 6)
15. **Maneuvering Thrusters** - Pitch Up. (Elevator Up - Num Pad No Lock 2)
16. **Impulse Power** - Full. (F4)
17. **Impulse Power** - Cut. (F1)
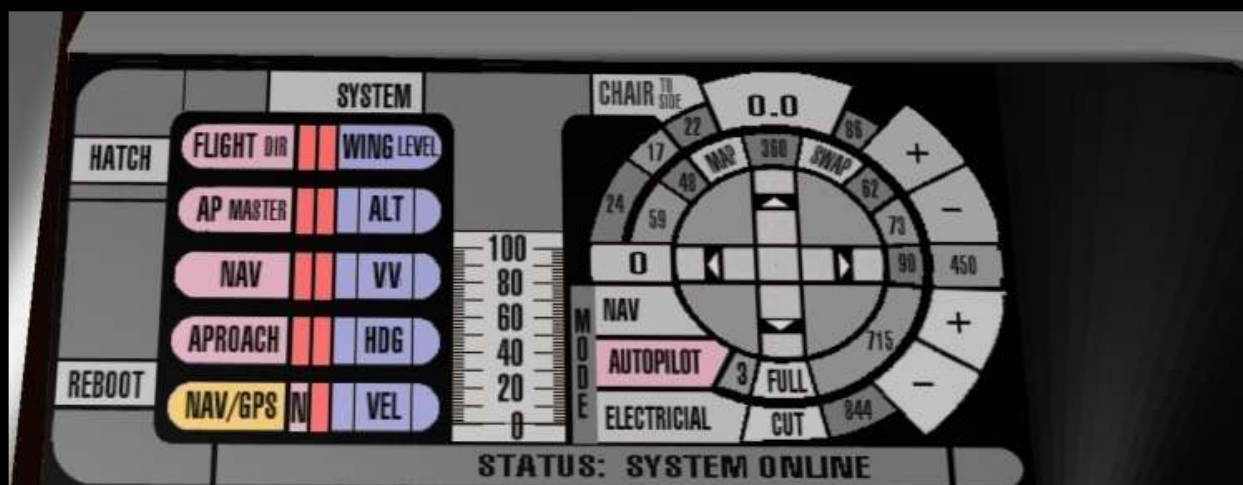18. **Impulse Power** - Percentage of power to Impulse Engines (Throttle Lever Position).

MODE Legend:
▌Indicates the command is engaged.
▌Indicates the command is disengaged.

Touch **NAV** to display the Engine and Vector Controls. This also sets the Flight Status / Autopilot settings display to Flight Status.
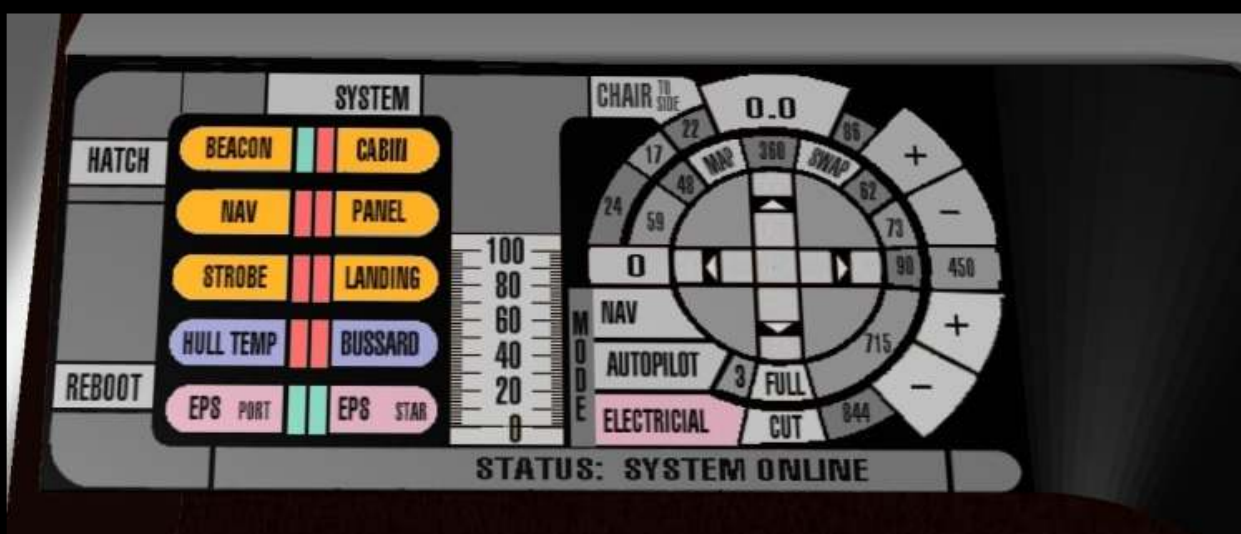
- **SKIDS**: lower and raise Skids (**Parking Brakes**)
- **HORIZ DMP**: Horizontal Dampener slows forward speed (**Spoiler**)
- **IVC INCR**: Impulse Vector Control Increase points Impulse nozzles from horizontal movement form (0 degrees) to vertical movement (90 degrees). See the tech notes on the GPS-MFD for specific performance. (**Flaps Down**)
- **IVC DECR**: Impulse Vector Control Decrease points Impulse nozzles from vertical movement (90 degrees) to horizontal movement (0 degrees). See the tech notes on the GPS-MFD for specific performance. (**Flaps Up**)
- **2H FLOW (Port)**: toggles the valve controlling the flow of 2H (also known as Deuterium or **Fuel**)
- **2H FLOW (Starboard)**: same as the Port Side 2H FLOW
- **IMPULSE (Port)**: igniter for Port Side Impulse Engine.
- **IMPULSE (Starboard)**: igniter for Starboard Side Impulse Engine.
- **WARP**: engages and disengages Warp Engine.
- **AP HOLD**: sets and engages Autopilot to Leveler, Current Altitude and 850 knot velocity.

Touch **AUTOPILOT** to display the Autopilot Setting Controls and the Autopilot display on the Flight Status / Autopilot settings display. The bottom 4 right hand commands have 3 parts:

touching the center part engages the function, touching the left part decreases the setting and touching the right part increases the setting.

- **FLIGHT DIR**: Engages and disengages the Flight Director.
- **WING LEVEL**: Engages and disengages the Wing Leveler. This is strange on the Shuttlecraft Type-9, but it seems Lt. Paris insisted on calling it a "Wing Leveler".
- **AP MASTER**: Engages and disengages the Autopilot.
- **ALT**: Engages disengages and sets the Altimeter parameter.
- **NAV**: Turn towards the currently selected target.
- **VV**: Engages disengages and sets the Vertical Velocity (Vertical Speed) parameter.
- **APPROACH**: Engages and disengages Autopilot ILS Approach mode.
- **HDG**: Engages disengages and sets the Heading parameter.
- **NAV/GPS**: Toggles Nav or GPS slaving to Autopilot.
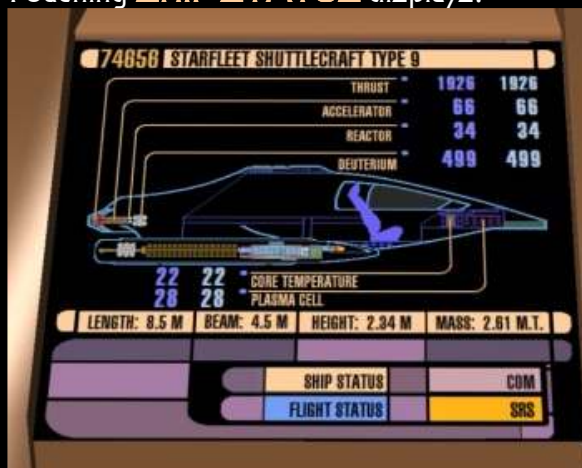- **VEL**: Engages disengages and sets the Velocity (Air Speed) parameter.

Touch **ELECTRICAL** to diplay the lighting and other electrical Controls

- **BEACON**: Toggles Beacon Light.
- **CABIN**: Toggles Cabin Lights.
- **NAV**: Toggles Navigational Lights.
- **PANEL**: Toggles Panel Lights.
- **STROBE**: Toggles Strobe Light.
- **LANDING**: Toggles Landing Lights.
- **HULL TEMP**: Toggles Hull Temperature Regulator (Deice System).
- **BUSSARD**: Toggles the Bussard Collector which collects heavy hydrogen (2H), commonly known as deuterium, for fuel replenishment from space or an atmosphere.
- **EPS (Port)**: Toggles EPS (Electro-Plasma system or Alternator).
- **EPS (Starboard)**: same as Port Side EPS

Primary MFD

The center console and back console have a Multi-Function Display for showing the Ships Status, Flight Status, Communications and Short Range Sensor readings (Traffic Radar).

Touching **SHIP STATUS** displays:

Left column is port / right column is starboard.

THRUST: force of Impulse Engine output (Jet Thrust in pounds).
ACCELERATOR: increases the velocity of the plasma and passes on to the Driver Coil Assembly (DCA)(N2 in percent).
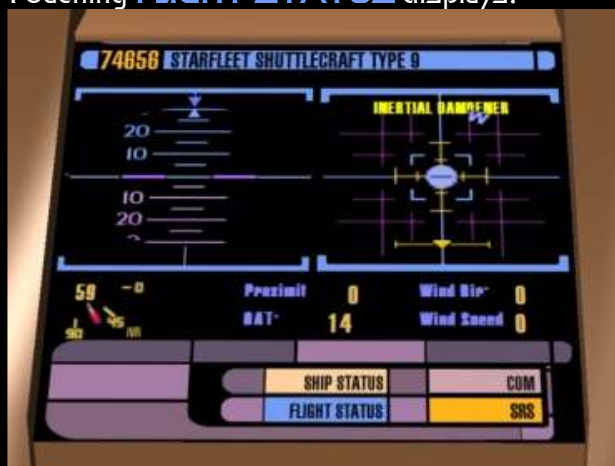**REACTOR**: converts deuterium to plasma (N1 in percent).
DEUTERIUM: Level of 2H in tanks (Fuel Quantity in gallons).
CORE TEMPERATURE: Computer Core Temperature (Oil Temperature in Celsius).
PLASMA CELL: Plasma Cell output (Bus Voltage in volts).

Touching **FLIGHT STATUS** displays:

Attitude Director Indicator is located in the top left quadrant.

Inertial Dampener is located in the top right quadrant. Once you get inside the localizer array it changes to ILS.

Impulse Vector Control is visually displayed in lower right quadrant in degrees.

Proximity is the distance to docking. (Radar Altimeter).

Touching **COM** displays: Tap in the frequency using the number pad. It will be displayed in the top input window. Then touch the window of the radio to change.

United Federation of Planets controls:
  1: COM 1
  2: COM 2

Starfleet Command controls:
  1: NAV 1
  2: NAV 2

Klingon High Command controls:
  10: Transponder

Touching **SRS** displays:

Tags labels on blips.

Zoom + and Zoom - adjusts the Zoom level of
    the SRS. The rings are adjusted according
    to the Zoom Level.

Ring + and Ring - adjusts the Ring level of
    the SRS independent of the
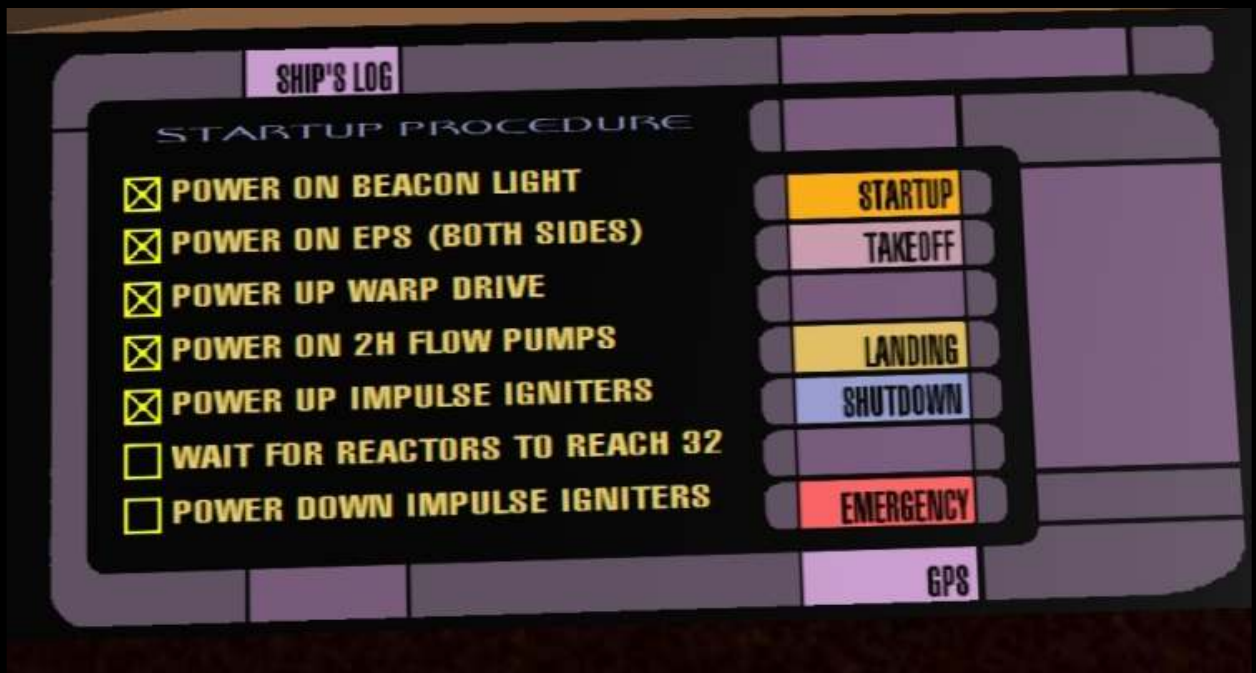   Zoom level.

GPS MFD

The GPS MFD functions as a GPS, Checklist and Ship's log.

GPS MODE:

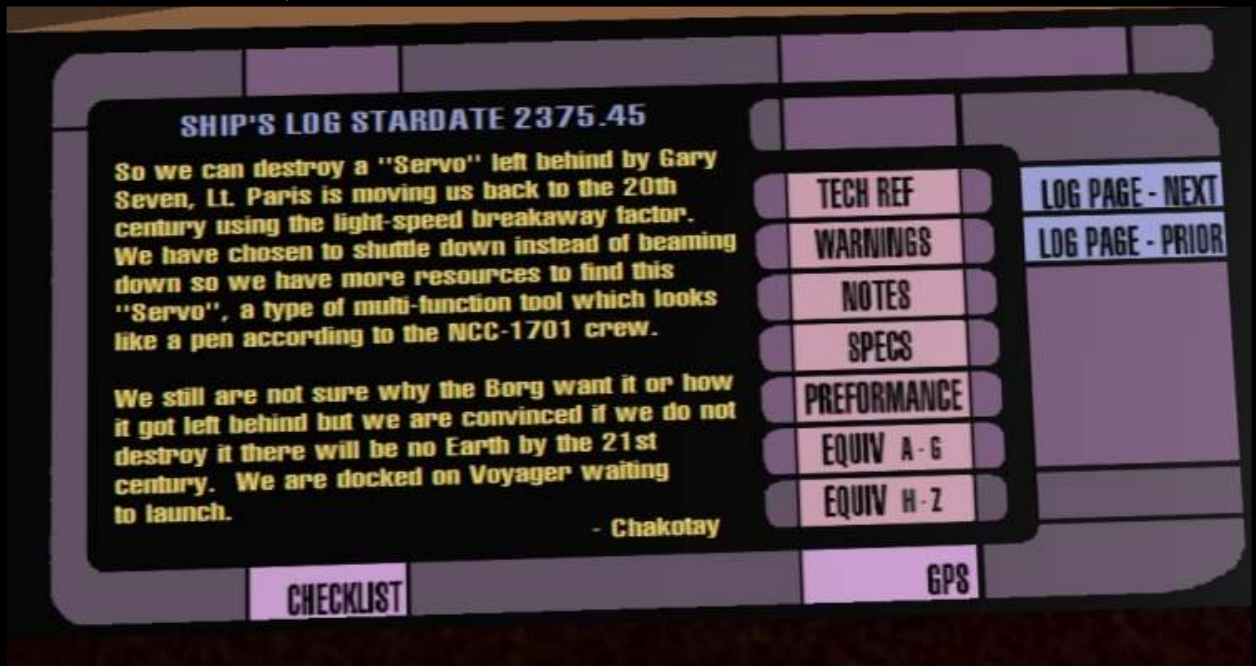In GPS mode, the GPS MFD functions like the GPS A500.

CHECKLIST MODE:

Checklists for STARTUP, TAKEOFF, LANDING, SHUTDOWN and EMERGENCY STARTUP can be displayed by touching the appropriate command. The checkboxes, when touched, will toggle the checking function.

These checklists are brief and our best guess as to the proper procedures. Part of your job as test pilot is to help us develop the proper procedures for each aspect of flying this unique craft.

SHIP'S LOG MODE:

When the Borg Sphere attacked the Shuttle it seems to have wiped out the ship's log. What remains can be viewed by touching the LOG PAGE - NEXT and LOG PAGE - PRIOR commands.

The remaining commands are Technician's Notes about this shuttlecraft and the differences in terminology. Some of the equivalence used are not quite the same, but are as close as we can figure out. An example is the Impulse Engine, it does not function like a Jet Engine but that is as close as we can come to describing it.

Large MFD

To the right of the pilot is a large Multi-Function Display. For best viewing it is recommended to first engage the autopilot (AP HOLD works well for this), then touch the CHAIR TO SIDE command on the right side Navigational Control. This swings the chair toward the side panel for better viewing. To return to forward viewing, touch the CHAIR FORWARD command on the Large MFD.

Touching DIGITAL STATUS displays:

This displays the current state of the shuttlecraft in digital format.

Touching ENGINEERING displays:

This displays the current engineering data in analog format.
   IMPULSE ENGINES and SYSTEMS commands display the various systems.
   ENGAE BUSSARD toggles the Bussard Collector. This is the same as the BUSSARD command as on Navigational Control in ELECTRICIAL mode.

Touching ASTRONAVIGATION displays:

This displays a map of the Milky Way.
   POSITION toggles the current position of the shuttlecraft is located.
   QUADRANTS toggles the quadrant definition layer.
   NAV AIDS toggles Milky Way arms labels layer.
   BOUNDARIES toggles the political boundaries layer.

Touching **PLANTARY POSITION** displays:

This displays a map of the planetary body closest to the shuttlecraft. The cross hairs are the current position of the shuttlecraft.

Technical Notes

- Landing Gear controls the Pilot's seat - pressing the "G" key will have undesirable effects on rotating the seat to view the starboard side panel.
- Warp Glow is controlled by the Logo Lights - pressing the "L" key will cause disruption between to the synchronization of the glow and engine performance.
- Port Impulse Glow is controlled by the Taxi lights and the Starboard Impulse Glow is controlled by the Wing Lights - pressing the "L" key will cause disruption between to the synchronization of the glow and engine performance.