

PVI-800 Manual Target Point¹

1. PVI Master Mode → EDIT
2. Select PVI NAV TGT
3. Select target point number
4. Enter coords (decimal, press '0' before coords for north/east)
5. Press ENTER
6. PVI Master Mode → OPER

PVI-800 Shkval Target Point²

1. PVI Master Mode → EDIT
2. PVI INU/UPDATE switch → INU³ (up)
3. Select PVI NAV TGT
4. Select target point number
5. Shkval designate and uncage
6. Press ENTER
7. INU/UPDATE switch to UPDATE (down)
8. PVI Master Mode → OPER

PVI-800 Slew Shkval to Target

1. Select PVI NAV TGT
2. Select target point, verify on ABRIS
3. Disable helmet-mounted sight
4. Uncage Shkval
5. (K-041 panel) Auto turn on target if necessary

PVI-800 Reorder Waypoints

1. Disable hover and route autopilots
2. Deselect PVI WP
3. Select PVI WP
4. Select waypoint number, press ENTER
5. Verify coordinates disappear⁴
6. Repeat 4-5 until new course set
7. Deselect PVI WP
8. Select PVI WP
9. Route mode now follows new order

ABRIS Add Waypoint⁵

1. MENU master mode
2. PLAN submode
3. EDIT → DRAW⁶
4. EDIT → INSERT
5. Place waypoint with right knob (depress to switch movement axis)

ABRIS Delete Waypoint

1. MENU master mode
2. PLAN submode
3. EDIT
4. Highlight waypoint with right knob
5. DELETE

ABRIS Restore Default Flight Plan⁷

1. MENU master mode
2. PLAN submode
3. SELECT → REVISE

ABRIS Save Flight Plan⁸

1. MENU → PLAN → ACTIV

ABRIS Points/Lines

1. MENU master mode
2. PLAN submode
3. SELECT → ADD INF

Kh-25ML Launch Procedure

1. Select target, select Kh-25 station
2. Designator mode NORM → STBY (switch bottom right of left front dash)
3. Designate target, launch

Ballistics Mode Knob Settings^{9,10} (Center dial, rear panel)

1. 0: S-8KOM (AT)
2. 1: S-8TsM (Smoke)
3. 2: S-13 (122mm)
4. 4: S-8OFP (HE/Frag)
5. 5: UPK-23 (Guns)

5 ABRIS waypoints must be manually programmed into PVI for HUD symbology and autopilot operation.

6 Activate menus/select with ABRIS right knob push.

7 Follow next procedure to show changes in NAV mode.

8 Prior to ACTIV, flight plan changes will be saved in MENU → PLAN, but changes will not appear in NAV mode.

9 Set automatically at mission start, must change manually if carrying ballistically dissimilar unguided munitions.

10 Other modes correspond to bombs, outside of scope of this document.

Datalink Receive Target

1. Press SEND/MEM after EKRAN message/voice cue/flashing datalink panel lights

Datalink Save Target¹¹

1. Lock/designate with Shkval
2. Select target type (top row, 4th button is initial point)
3. Select recipient (second row)
4. SEND/MEM

Datalink Send PVI-800 Point

1. Select point on PVI-800 panel
2. Select target type, recipient
3. SEND/MEM

Datalink Slew Shkval

1. Press datalink target type button to cycle targets of that type
2. Verify proper target selected, flashing on ABRIS
3. INGRESS on datalink panel
4. Uncage Shkval

Datalink Route Mode Ingress

1. Press datalink target type button to cycle targets of that type
2. Verify proper target selected, flashing on ABRIS
3. INGRESS on datalink panel
4. Engage autopilot route mode
5. Shkval may be used during ingress

1 Can also be used to manually enter waypoints by substituting WP button.

2 Datalink targets easier, PVI-800 easier to find coords for data sharing with A-10.

3 Switch badly labeled: INU Update is the function; up means Shkval coords, down means helo coords.

4 If coordinates do not disappear, verify autopilots correctly disabled.

11 Before this datalink procedure and following procedures, reset targeting system and verify datalink panel is clear of lights.