

**Summary Report for Individual Task**  
**113-COM-7046**  
**Navigate using the Defense Advanced Global Positioning System (GPS) Receiver (DAGR)**  
**Status: Approved**

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DISTRIBUTION RESTRICTION: Approved for public release; distribution is unlimited.

DESTRUCTION NOTICE: None

**Condition:** Given a requirement to navigate to waypoints on the ground. Soldiers will have an AN/PSN-13 DAGR, TO 31R4-2PSN13-8-1, full Military Orientated protective Posture (MOPP) gear, and pre-determined waypoints 10 digit grid coordinates. The student will be aware of Contemporary Operational Environment factors such as extreme temperature differences, unstable political state and hostile locals are of the essence to maintain vital communications. Some iterations of this task should be performed in MOPP.

**Standard:** Navigates using a DAGR to locate 5 out of 7 waypoints within 1 hour.

**Special Condition:** None

**Safety Level:** Low

**MOPP:** Sometimes

<b>Task Statements</b>
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**Cue:** None

<b>DANGER</b>
None

<b>WARNING</b>
None

<b>CAUTION</b>
None

**Remarks:** None

**Notes:** None

## Performance Steps

1. Acquire DAGR information.
  - a. Acquire current position.
  - b. Identify the sections on the Pos Page Set.
    - (1) Present Position Page.
      - (a) Present position coordinates.
      - (b) Coordinate and grid system.
      - (c) Datum identifier.
      - (d) Current operating mode.
      - (e) Estimated horizontal error.
      - (f) Figure of merit.
      - (g) Elevation.
      - (h) Elevation reference.
      - (i) Ground speed.
      - (j) Track.
      - (k) Estimated time error.
      - (l) Time figure of merit.
      - (m) Time and date.
    - (2) Identify the relationships between sections on the Situational Awareness Page.
      - (a) Present position.
      - (b) Track.
      - (c) Waypoints.
      - (d) Routes.
      - (e) Alerts.
      - (f) North reference indicator.
      - (g) Ground speed.

(h) Track.

(i) Position error data.

(j) Range scale.

(3) Identify the sections on the NAV Pointer Page.

(a) Current navigation method.

(b) Destination waypoint number and name.

(c) Azimuth.

(d) Range information.

(4) Identify the sections on the Image Viewer Page.

(a) Current position.

(b) Landmarks.

(c) Map objects.

(d) Selected waypoints.

(5) Identify the sections on the SV Sky View Page.

(a) Tracked satellites (current operating status shown at the top of the display).

(b) Numbers inside black circles (indicate satellites in use by the DAGR, with corresponding number at left side of display).

(c) A bar graph of each satellite.

Note: Indicates signal strength and code status. A long black bar indicates good signal strength and ephemeris data.

A thick black bar indicates receiving Y or P code. If the DAGR is unable to display satellite information, no bars appear at all.

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2. Input waypoints into DAGR.

a. Mark present position waypoint.

(1) From any display, push and hold the "WP ENTER" key.

(2) Select MARK a WP, then push the "WP ENTER" key. The MARK PRESENT POSITION message is displayed.

(3) Push the "WP ENTER" key to store the marked waypoint. A waypoint stored message is briefly displayed.

(4) Push the “WP ENTER” key to acknowledge, or just let display time out. Display returns to previously viewed display.

b. Create a new waypoint.

(1) Push and hold the “WP ENTER” key.

(2) Highlight Create New WP, and then push the “WP ENTER” key.

(3) The Waypoint Editor page is shown. The first unused waypoint is populated with current position information (if tracking satellites).

(4) Revise information in all fields as necessary.

(5) Push the “MENU” key.

(6) Highlight Save and Exit, then push the “WP ENTER” key. After the waypoint is stored, a waypoint stored message is briefly displayed.

(7) Push the “WP ENTER” key to acknowledge, or just let display time out. Display returns to the Waypoints page with the new waypoint information saved and highlighted.

3. Navigate to waypoints using the DAGR.

a. Waypoint goto navigation.

(1) From any display except a message pop-up, push and hold the “POS PAGE” key, the Present Position page is displayed.

(2) Push and hold the “WP ENTER” key.

(3) Highlight GOTO a WP, then push the “WP ENTER” key.

(4) Scroll through the waypoint name list using the “UP, DOWN, LEFT, or RIGHT ARROW KEYS” to select the desired destination waypoint.

NOTE: For waypoint selection sorting options, push the “MENU” key. Select desired option, and then push the “WP ENTER” key.

(5) After waypoint selection, push the “WP ENTER” key. The DAGR automatically displays the NAV Pointer page. The top of the rotating compass dial indicates the current ground track.

b. Alerts.

Note: Alerts are made up of one or more waypoints, and are used to notify the operator is approaching or leaving a point, line, or area of significance (e.g., radius distance from a waypoint, defining a line not to be crossed, or mine field area). The following alerts must be identified:

(1) Anchor - Circular area defined by a radius from a waypoint. This activates when outside a defined radius.

(2) Hazard - Circular area defined by a radius from a waypoint. This activates when inside a defined radius.

(3) Buffer Zone - Rectangular area defined by two waypoints. This prevents the user from entering a defined area.

(4) Corridor - Rectangular area defined by two waypoints. This prevents the user from exiting a defined area.

(5) Other alerts include - Area, Boundary Line/Phase Line, Position Error, and Time/Date.

(Asterisks indicates a leader performance step.)

**Evaluation Guidance:** Score the soldier GO if all performance measures are passed. Score the soldier NO GO if any performance measure is failed. If the soldier fails any performance measure, show what was done wrong and how to do it correctly. Have the soldier practice until the task can be performed correctly.

**Evaluation Preparation:** Provide the Soldier with all material and equipment listed in the condition statement.

PERFORMANCE MEASURES	GO	NO-GO	N/A
1. Acquired DAGR information.			
2. Inputs waypoints into DAGR.			
3. Navigated to waypoints using the DAGR.			

**Supporting Reference(s):**

Step Number	Reference ID	Reference Name	Required	Primary
	TB 11-5820-1172-10	OPERATOR AND MAINTENANCE MANUAL FOR DEFENSE ADVANCED GPS RECEIVER	No	No
	TM 11-5820-1172-13	OPERATOR AND MAINTENANCE MANUAL DEFENSE ADVANCED GPS RECEIVER (DAGR)	No	No

**Environment:** Environmental protection is not just the law but the right thing to do. It is a continual process and starts with deliberate planning. Always be alert to ways to protect our environment during training and missions. In doing so, you will contribute to the sustainment of our training resources while protecting people and the environment from harmful effects. Refer to FM 3-34.5 Environmental Considerations and GTA 05-08-002 ENVIRONMENTAL-RELATED RISK ASSESSMENT.

**Safety:** In a training environment, leaders must perform a risk assessment in accordance with FM 5-19, Risk Management. Leaders will complete a DA Form 7566 COMPOSITE RISK MANAGEMENT WORKSHEET during the planning and completion of each task and sub-task by assessing mission, enemy, terrain and weather, troops and support available-time available and civil considerations, (METT-TC). Note: During MOPP training, leaders must ensure personnel are monitored for potential heat injury. Local policies and procedures must be followed during times of increased heat category in order to avoid heat related injury. Consider the MOPP work/rest cycles and water replacement guidelines IAW FM 3-11.4, Multiservice Tactics, Techniques, and Procedures for Nuclear, Biological, and Chemical (NBC) Protection, FM 3-11.5, Multiservice Tactics, Techniques, and Procedures for Chemical, Biological, Radiological, and Nuclear Decontamination.

**Prerequisite Individual Tasks :** None

**Supporting Individual Tasks :**

Task Number	Title	Proponent	Status
071-COM-1030	Navigate from One Point on the Ground to another Point while Mounted	071 - Infantry (Individual)	Approved
071-COM-1006	Navigate from One Point on the Ground to another Point while Dismounted	071 - Infantry (Individual)	Approved

**Supported Individual Tasks :**

Task Number	Title	Proponent	Status
171-155-0047	Install the Defense Advanced Global Positioning System Receiver DAGR AN-PSN-11 on a Stryker Vehicle	171 - Armor (Individual)	Approved

171-155-0048	Remove the Defense Advanced Global Positioning System Receiver DAGR AN-PSN-11 from a Stryker Vehicle.	171 - Armor (Individual)	Approved
113-610-7005	Implement Land Navigation Skills Using Global Positioning Systems	113 - Signal (Individual)	Approved
101-92M-3001	Confirm Location with DAGR	101 - Quartermaster (Individual)	Approved

**Supported Collective Tasks :**

<b>Task Number</b>	<b>Title</b>	<b>Proponent</b>	<b>Status</b>
08-2-1105	Supervise Medical Logistics (MEDLOG) Support Activities	08 - Medical (Collective)	Approved
05-3-1026	Perform an Area Search	05 - Engineers (Collective)	Approved
01-3-1353	Provide Pathfinder Support	01 - Aviation/Aviation Logistics (Collective)	Approved