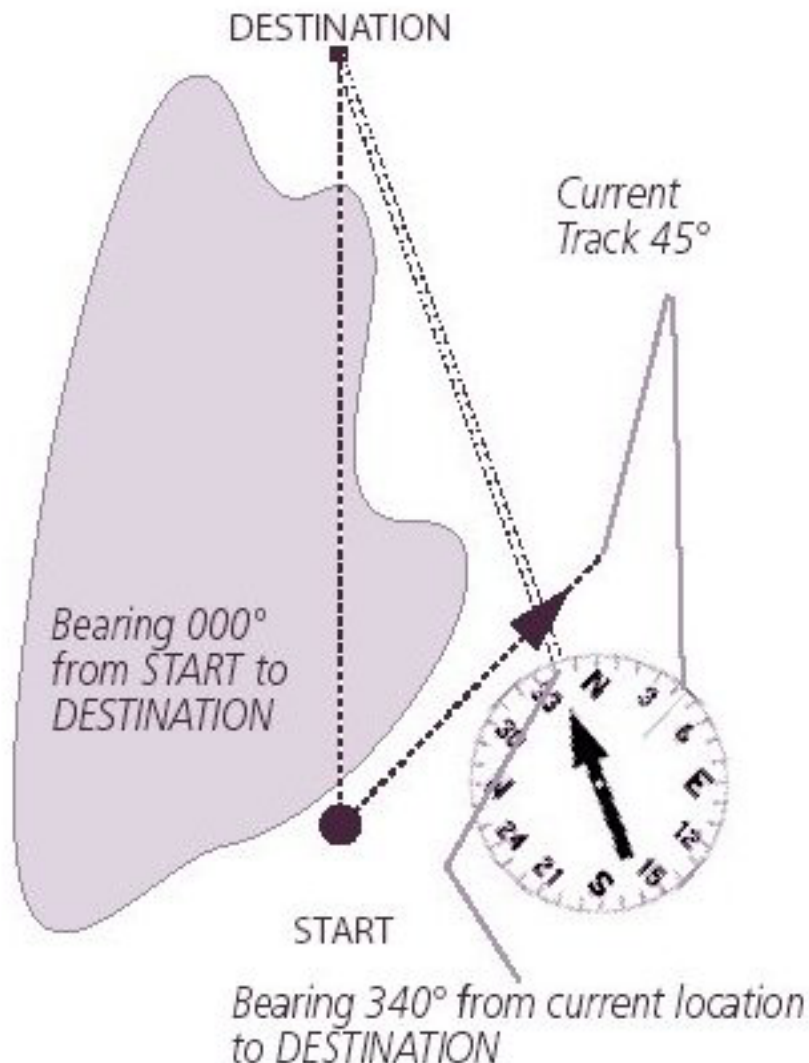


MLEP Introduction to GPS

Field Exercise Three

Exercise requires pencil/pen to answer questions

Navigating: *The purpose of this exercise is to help you understand how to use the GPS receiver to find a corner or other point designated on a sale map. You will be navigating to several pre-loaded destinations using the compass screen display. Each location is marked by a colored sticker to alert you when you successfully located the destination.*



MLEP Introduction to GPS

Field Exercise Three

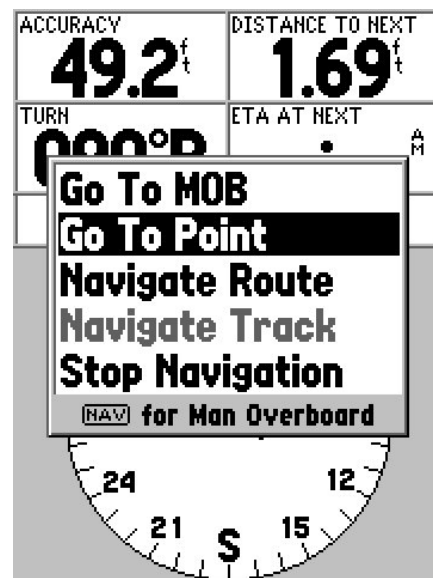
Exercise requires pencil/pen to answer questions

Procedure: Part one ~ selecting a point to find.

1. If you have not done so already, power on your GPS receiver. As in Exercise One, the receiver goes through the advertisement (Splash) screens before it gets to the satellite screen.

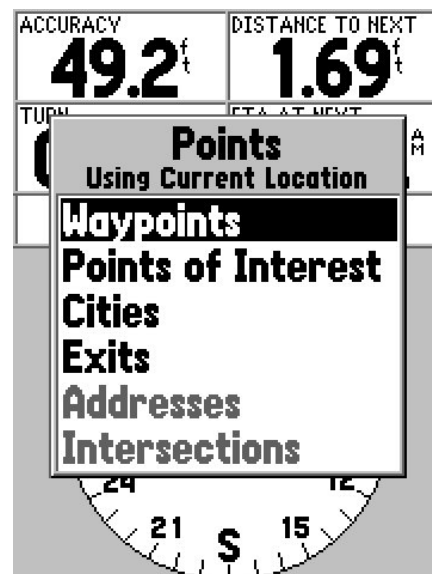
2. Next, press the <NAV> key to bring up the “Navigation Menu” screen.

3. Using the <ROCKER> key, highlight “Go To Point” and press the <ENTER> key.



4. You are now at the “Point Type” menu screen that allows you to select the type of point we want to navigate to.

5. Using the <ROCKER> key, highlight “Waypoints” and press the <ENTER> key to access the list of points.



MLEP Introduction to GPS

Field Exercise Three

Exercise requires pencil/pen to answer questions

6. Press <ENTER> again to access the entire list of points.
7. Use the <ROCKER> key to move up and down through the list of points until you find the one you were requested to locate.

Waypoints by Name

103

- 103
- COOK
- ELY
- LAND
- PIKELAKE
- VIRGINIA

Distance 307^{ft} 2.10^{ft}

MENU to find nearest

Waypoints by Name

103

- 103
- 104
- 105
- 106
- 107
- 108
- 109

Distance 214^m 0.22^m

MENU to find nearest

8. Once you have your point highlighted, press the <ENTER> key. You will be taken to the “Waypoint” screen.

9. Use the <ROCKER> key to ensure that the “GOTO” button is highlighted and then press the <ENTER> key and you will be taken back to the “Compass” screen to begin your navigation.

Waypoint

▪ 103

28-SEP-04 08:38

Location

N 46°50'42.7"
W 092°27'40.1"

Elevation 1341^{ft} Depth

☒ Show Name on Maps

Delete Map

Goto OK

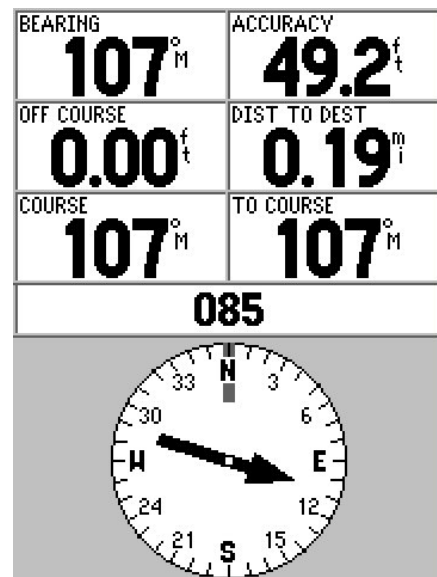
MLEP Introduction to GPS

Field Exercise Three

Exercise requires pencil/pen to answer questions

Procedure: Part two ~ navigating using the Compass screen

1. You are now ready to navigate to your point.
2. Proceed along the course shown on the screen
3. Adjust your direction right or left to keep the “Bearing” equal to the “Course.”
4. As you proceed the distance will reduce in hundredths of a mile.
5. Once you are within 528 feet, the display will change to feet and continue to reduce until you reach your point.
6. With GPS you can walk around objects on your line that are impassible and use the “Off Course” or “Bearing” to bring you back to the correct “Course.”

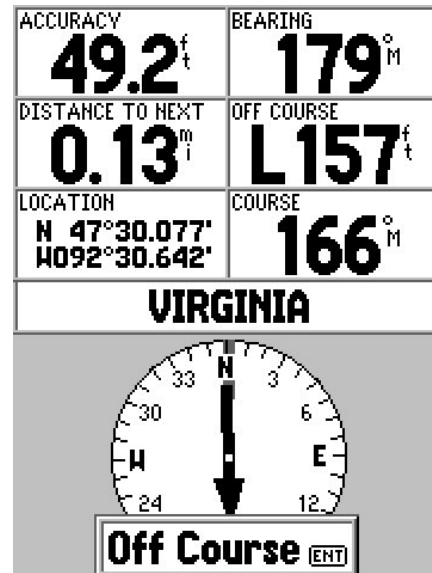


MLEP Introduction to GPS

Field Exercise Three

Exercise requires pencil/pen to answer questions

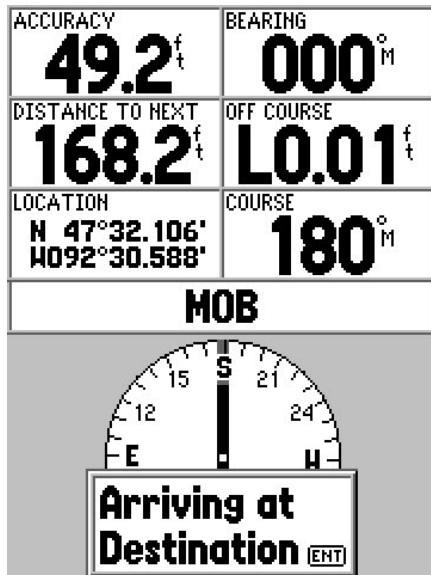
7. *When you exceed 50 feet left or right of the course, an alarm will sound and the “Off Course” message will display.*
8. *Press enter to clear the message and adjust your path right or left according to the “OFF COURSE” information.*
9. *When you are left of the correct “Course”, there will be an “L” in front of the “Off Course” distance. Adjust by moving to your right.*
10. *Likewise, when you are right of the correct “Course”, there will be an “R” in front of the “Off Course” distance. Adjust by moving to your left*
11. *This is one of the most confusing elements of navigation. Just remember: when you see the “L” you must bear to the right to correct and when you see the “R” you must bear to the left to correct. This may take some practice to get used to.*



MLEP Introduction to GPS

Field Exercise Three

Exercise requires pencil/pen to answer questions



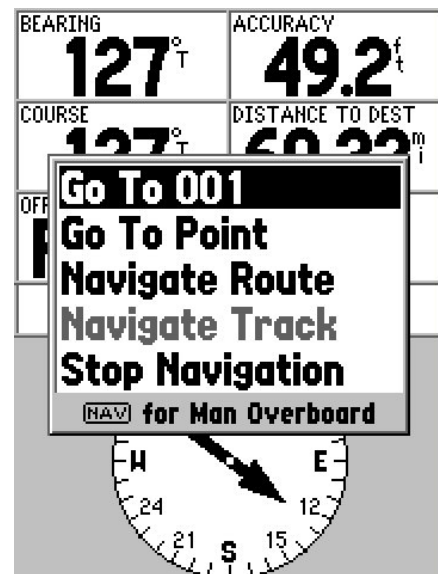
12. As you approach the destination the “Arriving at Destination” message will display and an alarm will sound.

13. Press the <ENTER> key to clear the alarm message.

14. Stop and verify the remaining distance and direction by pressing the <NAV> key which displays the Navigation Menu.”

15. Using the <ROCKER> key, ensure “Go To ###” is highlighted (where ### is the point you are navigating to).

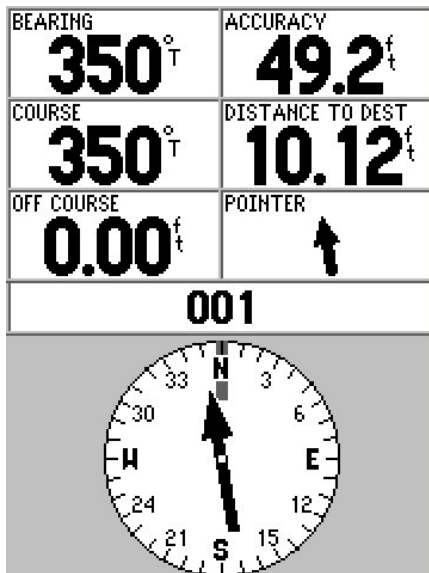
16. Press the <ENTER> key to recalculate the distance to the point.



MLEP Introduction to GPS

Field Exercise Three

Exercise requires pencil/pen to answer questions



17. *Note the “Distance To Dest” and bearing.*
 18. *Pace the displayed distance to the target following the correct bearing indicated by your receiver.*
 19. *If all went according to plan you should be within 5 or 10 feet of your target point.*
 20. *This is as close as you will probably be able to get to the navigation target.*
 21. *Once you locate the target, make a note of what color the target sticker is.*
-

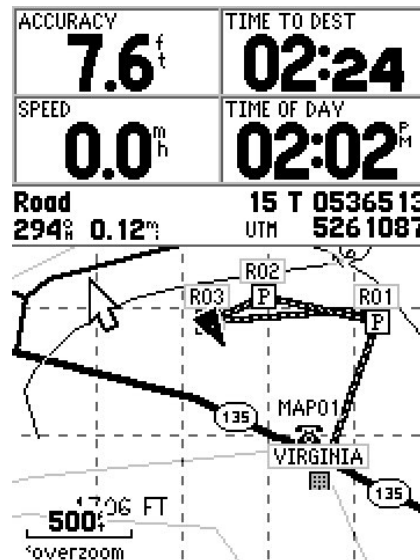
MLEP Introduction to GPS

Field Exercise Three

Exercise requires pencil/pen to answer questions

Procedure: Part Three ~ navigating using the Map screen

1. Press the <PAGE> key until the “Map” screen is displayed.



2. Next, press the <NAV> key to bring up the “Navigation Menu” screen.

3. Using the <ROCKER> key, highlight “Go To Point” and press the <ENTER> key.

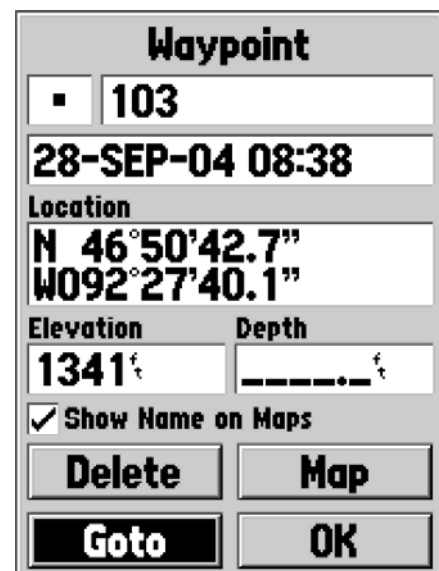
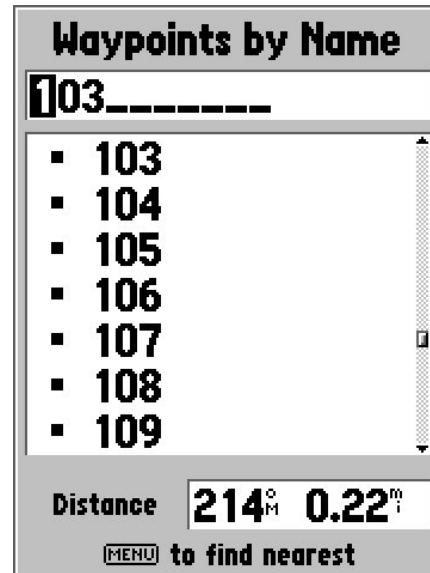


MLEP Introduction to GPS

Field Exercise Three

Exercise requires pencil/pen to answer questions

4. You are now at the "Waypoints by Name" screen.
5. Press the <ENTER> key to access the list of points.
6. Use the <ROCKER> key to move up and down through the list of points and select a new point to locate.
7. Once you have your point highlighted, press the <ENTER> key again. You will be taken to the "Waypoint" screen.
8. Use the <ROCKER> key to ensure that the "GOTO" button is highlighted and then press the <ENTER> key and you will be taken back to the "Map" screen to begin your navigation.
9. You are now ready to navigate to your point.



MLEP Introduction to GPS

Field Exercise Three

Exercise requires pencil/pen to answer questions

10. *Proceed along the “Course” for the “Distance To Dest” displayed on the screen.*

11. *You will notice that the pointer will point you in the direction you need to travel. As you did in part two, you can adjust your direction right or left to keep the “Bearing” equal to the “Course.”*



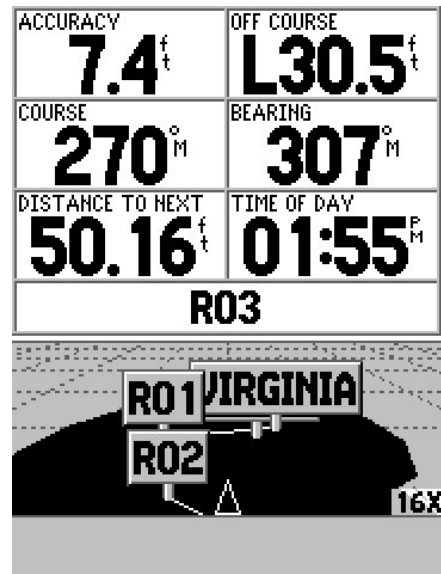
MLEP Introduction to GPS

Field Exercise Three

Exercise requires pencil/pen to answer questions

Procedure: Part Four ~ navigating using the Highway view

1. Press the <PAGE> key until the “Highway” screen is displayed.
2. Next, press the <NAV> key to bring up the “Navigation Menu” screen.



3. Using the <ROCKER> key, highlight “Go To Point” and press the <ENTER> key.

MLEP Introduction to GPS

Field Exercise Three

Exercise requires pencil/pen to answer questions

4. You are now at the “Waypoints by Name” screen.

5. Press the <ENTER> key to access the list of points.

6. Use the <ROCKER> key to move up and down through the list of points and select a new point to locate.

7. Once you have your point highlighted, press the <ENTER> key again. You will be taken to the “Waypoint” screen.

8. Use the <ROCKER> key to ensure that the “GOTO” button is highlighted and then press the <ENTER> key and you will be taken back to the “Compass” screen to begin your navigation.

9. You are now ready to navigate to your point.

Waypoints by Name

103_____

- 103
- 104
- 105
- 106
- 107
- 108
- 109

Distance 214.0 0.22

MENU to find nearest

MLEP Introduction to GPS

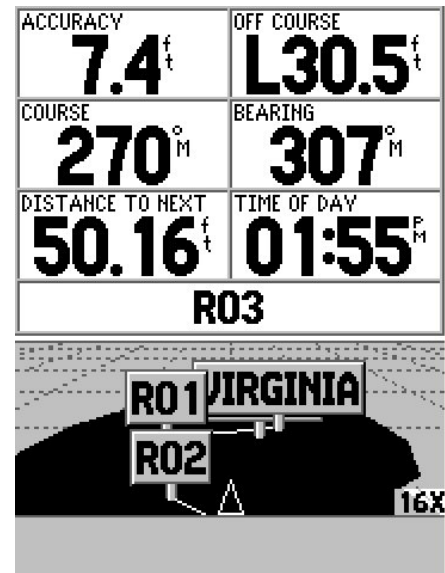
Field Exercise Three

Exercise requires pencil/pen to answer questions

10. *Proceed along the “Course” for the “Distance To Dest” displayed on the screen.*

11. *You will notice that the highway points up the screen when you are on course.*

12. *It will point to the right or to the left when you are off course. To correct, walk in the direction the highway points.*



13. *You can also use the techniques that you developed during the “Compass” screen navigation exercise above.*
14. *To do this, adjust your direction right or left to keep the “Bearing” equal to the “Course.”*
15. *As you proceed the distance will reduce in hundredths of a mile.*
16. *Once you are within 528 feet, the display will change to feet and continue to reduce until you reach your point.*

MLEP Introduction to GPS

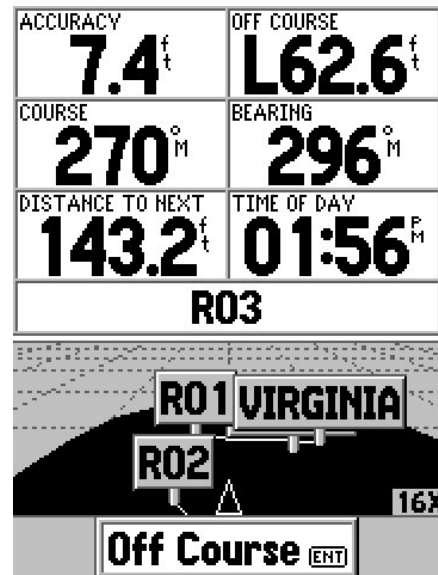
Field Exercise Three

Exercise requires pencil/pen to answer questions

17. *With GPS you can walk around objects on your line that are impassible and use the “Off Course” or “Bearing” to bring you back to the correct “Course.”*

18. *When you exceed 50 feet left or right of the course, an alarm will sound and the “Off Course” message will display.*

19. *Press enter to clear the message and adjust your path right or left according to the “OFF COURSE” information.*



20. *When you are left of the correct “Course”, there will be an “L” in front of the “Off Course” distance. Adjust by moving to your right.*
21. *Likewise, when you are right of the correct “Course”, there will be an “R” in front of the “Off Course” distance. Adjust by moving to your left.*

MLEP Introduction to GPS

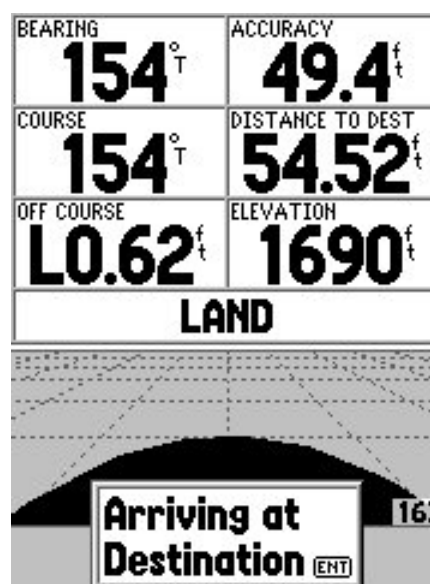
Field Exercise Three

Exercise requires pencil/pen to answer questions

22. *This is one of the most confusing elements of navigation. Just remember: when you see the “L” you must bear to the right to correct and when you see the “R” you must bear to the left to correct. This may take some practice to get used to.*

23. *As you approach the destination the “Arriving At destination” message will display and an alarm will sound.*

24. *Press the <ENTER> key to clear the alarm message.*



25. *Stop and verify the remaining distance and direction by pressing the <NAV> key which displays the Navigation Menu.”*

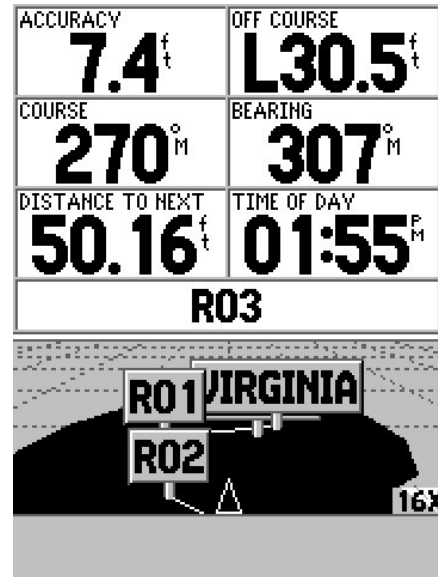
26. *Using the <ROCKER> key, ensure “Go To ###” is highlighted (where ### is the point you are navigating to).*

MLEP Introduction to GPS

Field Exercise Three

Exercise requires pencil/pen to answer questions

27. *Press the <ENTER> key and note the “Distance To Dest” and bearing.*
28. *Pace the displayed distance to the target following the correct bearing indicated by your receiver.*
29. *If all went according to plan you should be within 5 or 10 feet of your target point.*
30. *This is as close as you will probably be able to get to the navigation target.*
31. *Once you locate the target, make a note of what color the target sticker is.*



*****Note:** When you have finished using the navigation function, we recommend you turn this feature off. You can do this by choosing the “Stop Navigation” option in step three of Part I of this exercise instead of “Go To Point”.