

QUICK REFERENCE MANUAL of GPS 315, Sportrak and Sportak Pro

This reference manual is culled out from the guidelines apparently being developed by the GIS specialist in the application of GIS and GPS on LUB-BDP. Only the relative functionalities that will be used during the perimeter survey were reflected in this manual. Irrelevant functionalities which you prefer to learn are found in the user manual of the GPS unit.

Please return this manual to the GPS unit box for reference of the next LGU.

Basic GPS unit operations and maintenance

NOTE: All the instructions, technical steps and operations in this annex are assumed that you are using Magellan GPS units having models **GPS315**, **Sportrak and Sportrak Pro**. If not, you can find similar functionality on the current model of GPS unit you have.

I. GPS UNIT USER INTERFACES



As the GPS unit improves its features and interface, some of its buttons has slightly been repositioned and redesigned. For the purpose of creating a general term for these buttons, this annex used a general term in relation to the buttons used by each model of GPS units. Kindly refer to the "Button Name" indicated below and the corresponding button used by your GPS unit.

Button Name	GPS 315	Sportrak	Sportrak Pro
POWER	PWR	0	
QUIT	QUIT	\otimes	\otimes
ENTER	ENTER	\odot	\odot
NAV	NAV		
MARK	MARK	x2	x

			Press 2 to 3 seconds
MENU	MENU		
GOTO	GOTO	×	×
LIGHT	N.	ŤQ÷	Press 2 to 3 seconds
ARROW KEYS	4 4 7 7	\bigcirc	\bigcirc

MARKING A WAYPOINT using GPS315/SporTrak

Step 1) Getting a Fixed Position.

- **NOTE:** If you are getting only landmarks, be sure that your tracking is turned off (See Tracking Roads/Rivers on how to set the tracking mode of the GPS unit off)
- Step 1.1) After turning your GPS unit ON, wait for a few seconds for the unit to acquire signal from the satellites. You will know the progress of the signal acquisition on the STATUS screen.
- Step 1.2) Once the unit has computed a fixed position, the POSITION screen will be displayed. You have to wait for at least three minutes for the satellites to compute your final coordinate.
- NOTE: In cases where there are weak satellite signals and the unit does not get a fixed position, press the **NAV** button of the unit until your screen is like the image in your 1.2. When it is not yet in averaging mode, do not proceed to the next step. You have to wait until the unit is in averaging mode for your location to be computed.

Step 2) Marking a Waypoint.

- Step 2.1) When the averaging reaches three minutes, you may save your position by clicking the **MARK** button. This will stop the averaging but do not move from your position yet.
- Step 2.2) Highlight the given waypoint name just like image 2.1 and change it by clicking the ENTER button (This will enable you to change the waypoint name). Enter the characters of waypoint bv pressing the ARROW UP/DOWN KEYS. ARROW Press LEFT/RIGHT **KEYS** if you want to move from

2.1)







one character to another. If finished, press ENTER button		
Step 2.3) Press the DOWN ARROW KEY and highlight the DESCRIPTION menu.		
 Step 2.4) Press the <i>ENTER</i> button. Enter a very brief description of the waypoint by pressing UP/DOWN ARROW KEYS for displaying the characters and LEFT/RIGHT <i>ARROW KEYS</i> for creating or replacing a character. Repeat the process until you are have entered the waypoints description. NOTE : If you are finished entering the description of the waypoint, 	MARK BB1 07°06.574N 125°37.936E 29M 1:48:00AM 30MAR06 REATE MSG SAVE LMK SAVE TO RTE 2.3)	DT * 0G . 574N BB1 07 * 0G . 574N 125 * 37 . 936E 29M 11:48:00AM 30MAR05 ACACIEN WE LMK WE LMK WE TO RTE 2.4)
reflect the waypoint name, coordinates (latitude and longitude) and detailed description of the waypoint on the form provided for the GPS surveyors.	2.5)	
Step 2.8) Press ENTER if finished and press the DOWN ARROW KEY to highlight the SAVE LMK menu. Step 2.9) Click the ENTER button. This time, the waypoint has been	MARK 3B1 07°06.574N 125°37.936E 29M 11:48:00AM 30MAR06	
saved in the GPS unit.	2.8)	

TRACKING ROADS/RIVERS using GPS315/SporTrak

Step 1) Turning the tracking on/o	off	
 Step 1.1) After turning your GPS unit ON, wait for a few seconds for the unit to acquire signal from the satellites. You will know the progress of the signal acquisition on the STATUS screen. Step 1.2) To know whether you can start tracking, click the NAV button until the display is similar to the image in 1.2. If it is in averaging mode, you can continue to the next step. However, if not, try to wait for a few minutes for the GPS unit to acquire satellite signals. 	1.1)	POSITION 07°06'34N 125°37'56E ELEW S2M 09:00:50AM AVERAGING 00:00:39 SPEED TRIP 0.0% 48.2% HEADING 000° 11.2) 400°
 Step 1.3) If it is in the averaging mode, click the NAV button until you reach the PLOT screen (see image 1.3). Step 1.4) From the PLOT screen, click the MENU button. Select TRACK HIST. Press ENTER button 	1.3)	TO: MENU PAN-N-SCAN IRACK HIST CLB TRACK PLOT SETUP HIDE DATA LANDMARKS ROUTES SETUP SUN/MOON FISH/HUNT CONTRAST A'ARM/MSG LANGUAGES KEY LEGEND
 Step 1.5) If you want to turn on the tracking of the GPS unit, select an interval on the list. Step 1.6) If you want to turn off the tracking of the GPS unit, select OFF on the list. Press <i>ENTER</i> button 	1.5)	1.6)

NOTE:				
1) If you will delineate a boundary or just getting the waypoint of the landmarks, turn-off the tracking of your GPS unit. If it is turned on, it will continuously get the track wherever you go.				
2) If you want to start getting the reading of the river or road, turn on the tracking of the GPS unit at the actual location where you will start traversing. Turn it off at the end of the river/road. In your form, indicate the river/roads name and its type (Provincial/municipal/sitio etc)				
Step 2) Clearing the track data		Γ		
 NOTE: Perform this function if you have downloaded the existing tracks in your computer. Step 2.1) Click the NAV button until you reach the PLOT screen Step 2.2) Click the MENU button and highlight CLR TRACK. Press ENTER button 	2.1)	PAN-N-SCAN PAN-N-SCAN PAN-N-SCAN PLOT SETUP PLOT SETUP HIDT SETUP SUN/MOR I SN/MUNT CISN/MUNT CISN/MUNT ALAMUMATS LANGUAGES REV LEMEND		
Step 2.3) Highlight the YES option and press the ENTER button	CLEAR TRACK HISTORY? WEST NO 2.3)			

MARKING A WAYPOINT using SporTrak Pro

Step 1) Getting a Fixed Position.		
 Step 1) Getting a Fixed Position. NOTE: If you are getting only landmarks, be sure that your tracking is turned off Step 1.1) After turning your GPS unit ON, press ENTER button three times to go to the screens of the GPS unit. Wait for a few seconds for the unit to acquire signal from the satellites. Click the NAV button to go to the STATUS screen (shown in image 1.1) Step 1.2) If the GPS unit is already acquiring signals from multiple satellites, go to the POSITION screen by clicking the NAV button several times until the screen is similar to the image in 1.2. NOTE: You have to wait until the GPS 	1.1)	07°0¢ 44N 125°375 23m 10:11:56 AM Averaging 00:00:45 Heading Speed 107° Cont Trip 00:00:27m
NOTE: You have to wait until the GPS unit starts averaging your position. If the word AVERAGING or WAAS AVG. is not being displayed in the unit, do not make the mark yet.		

 Step 1.3) If the status of the GPS unit is already in averaging mode, wait until the averaging reaches 3 to 5 minutes. Step 1.4) Once the GPS units averaging reaches 3-5 minutes, click the <i>MENU</i> button and highlight the <i>MARK</i> menu as shown in image 1.4. Step 1.5) Once the MARK menu has been highlighted, click the <i>ENTER</i> button. The GPS unit will display the coordinate of your current location as well as the provided name of the waypoint. To rename the waypoint name, highlight the given waypoint name as shown in image 1.5 and click <i>ENTER</i> button 	Msnu Hide Map Info A Map Setup Clear Track Customize Mark Database Routes Setup Vert. Profile Sun/Moon	Mark Visition Name Item Warte Item Warte
 Step 1.6) To enter the user-defined name of the waypoint, highlight the character you want to reflect on the new name of the waypoint by moving the ARROW KEYS. Step 1.7) If you have selected the character, press the ENTER button. Notice that it will be reflected on the name of the waypoint. Step 1.8) Repeat steps 1.6 to 1.7 until you complete the characters for your waypoint name. If finished, click the OK key. NOTE: If you want to delete the character you have entered, highlight the BACK key and press ENTER button. 	Name A B C D E F G H I J K L M V P Q R S M V V X Y Z I 2 3 4 5 F 7 8 9 0 Shift Back OK Clear JAVE ROUTE	Name BORY1 A B C D E F G H I J K L M N O P Q R S T V W X Y Z I 2 3 4 5 f 7 8 9 0 Shift Back OK Clear 3 dVC ROUTE

 Step 1.9) Move the ARROW KEY down and highlight the CREATE MESSAGE. Step 1.10) Same procedure with renaming a waypoint. Press <i>ENTER</i> button and enter the message using the keyboard keys. Highlight the OK key when characters of the message have been reflected. 	Mark Vie Joon Name PBDRY 1 Location 07° 06'34N 125° 37'56E Elevation 26 M Message CREATE MESSAGE? Save Route 1.9	Message BDRY SITIO 1 AND 2_ A B C D E F G H 1 J K L M N O P Q R S T U V W Y Y Z 1 2 3 4 5 6 7 8 9 0
NOTE: After saving the waypoint, reflect the waypoint name, coordinate and description on the form provided to the GPS surveyor. Step 1.11) Finally, click the SAVE button to save the waypoint.	Mark Vie Isop Name F BDRY 1 Location 07* 06'34N 125* 37*56E Elevation 26 m Message BDRY SITIO 1 AND 2 Save Route	

TRACKING ROADS/RIVERS using SporTrak Pro



(2) You map sc in butto map b KEYS directio	can zoom in, reen by clickin n. You can a y pressing t to your n.	Yout on the g the zoom lso pan the ne ARROW designated		

NOTE:

- 1) If you will delineate a boundary or just getting the waypoint of the landmarks, turn-off the tracking of your GPS unit. If it is turned on, it will continuously get the track wherever you go.
- 2) If you want to start getting the reading of the river or road, turn on the tracking of the GPS unit at the actual location where you will start traversing. Turn it off at the end of the river/road. In your form, indicate the river/roads name and its type (Provincial/municipal/sitio etc)

Step 2) Clearing the track data

NOTE: Perform this function if you have downloaded the existing tracks in your computer.

Step 2.1) Click the **NAV** button until you reach the MAP screen Step 2.2) Once the display is in the MAP screen, click the **MENU** button and highlight CLEAR TRACK and press the **ENTER** button.
Step 2.3) Select YES and press

ENTER.

