

Downloading and Using MSTA

Rally Routes 2025 Rev 24/12/06

Note: As of 12/06/2024, all routes have been calculated to work with Garmin City Navigator North America NT 2025.2 This mapset will be used until a newer version is available which will be noted here.

Download and Unzip

Note: These routes are for FlyBy Week attendees only

1. Download the file(s) that you want from the event web site.
2. Take note of the folder where you are saving the files on your computer.
3. Unzip (extract) zip files to a folder on your computer (Individual route .PDF and .GPX files don't need this step)
4. It's important to select a folder (sub-directory) in the dialog box that opens so you'll be able to find the extracted files.
5. The files will be extracted to the folder (sub-directory) that you selected in step 4.
6. If you can't find the unzipped files go back to step 3 to look at the location in the second box to see where your unlocked files were saved.

Remember- These routes are for MSTA Rally attendees only- please do not share them with others

How to Set Up Your GPS Model for Best Results

a) Zumo 390 series, 590 series, XT, XT2, BMW Nav 5 & Nav 6

Very Important- Use only routes with "TP" suffix in the name

- Settings>Navigation>Calculation Mode>Faster Time> Save
- Navigation Navigation>Avoidances>Disabled (ALL boxes unchecked) > Save
- Settings>Navigation>Off-Route Recalculation>Off
- Settings>Map & Vehicle>Map Detail>More>Save
- Settings>Map & Vehicle>Vehicle>Select Icon>Save

b) Zumo 660 series, BMW Nav 4 (For best results, use only routes WITHOUT the "TP" suffix in the name)

- Tools>Settings>Navigation>Avoidances. (Disabled) Uncheck everything, especially seasonal closures and unpaved roads.
- Tools>Settings>Navigation> Route Preferences = Faster Time
- Tools>Settings>System>Usage Mode = Motorcycle.
- Tools>Settings>Map>Map Detail = High.

c) Zumo 550/450 (For best results, use only routes WITHOUT the "TP" suffix in the name)

- Tools (wrench icon)>Navigation>Avoidances>Disabled (all boxes unchecked). Especially Unpaved Roads and Ferries.
- Tools (wrench icon)>Navigation>Route Preferences = Faster Time
- Tools (wrench icon)>Map>Map Detail = Most

d) Smart Phone GPS App- We recommend and support OsmAnd

- 1. OsmAnd is available for both Android and iOS, so only one app to learn and support that will work for everyone.**
 - 2. You can download and install a free version with up to seven states of map coverage which meets the needs of most rally attendees.**
 - 3. Very easy to download and import GPX files.**
 - 4. Can display and navigate both routes and tracks, plus alert for nearby way points in the GPX file, so it works well with existing FlyBy Week GPX files**
 - 5. If you want unlimited map updates and downloads, you can subscribe for only \$9.99/year.**
- Go to <https://flybyweek.com/osmand.html> for full info- how to install, configure, import and run routes etc.**

All GPS Models- Off-Route Recalculation Mode Setting

MSTA routes contain many points so the GPS is more likely to preserve the route if it needs to recalculate. There are three choices- Automatic, Off and Prompted. There are pros and cons for each.

If Off-Route Recalculation is set OFF, (recommended setting for most GPS, essential for zumo XT) you can look at the screen

and see you are no longer on the route. When this happens, simply zoom out and see where you need to go and navigate manually to get back to the route. This is the safest option if the corresponding track is not visible on the map. See the section “Option: Using Tracks With Routes on Your GPS”

In Automatic Recalculation mode, the GPS will recalculate and autoroute you to the next Via or shaping point on the route if you miss a turn or get off-route. This is OK if you are riding a route with the corresponding track visible on the map where you can see where the route is supposed to go. Not recommended for zumo XT

Do not use the PROMPTED option. It will sometimes recalculate the route without asking you.

Reminder for all GPS models:

Avoidances- Disable All- Very important, as avoidances can prevent correct calculation of routes on the device.

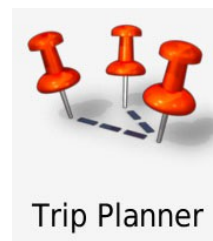
Map detail- More/High/Most- Very important, as route calculation may only use roads visible on the map. You want all roads to be visible.

Import Routes and Tracks into your GPS

1. Copy the route GPX file directly to the GPS, to the Garmin>GPX folder on the internal memory of the device, using a USB cable. If you have successfully used GPX files copied to a memory card, you can use it instead if it has a Garmin>GPX folder to save the files to. Disconnect the USB cable when you are done.

2. The next time you turn on your GPS after transferring routes it will recognize the presence of new routes and offer to import them.

3. Very important: If your GPS uses the Trip Planner App, (groups a and d above) import only routes that have the "TP" suffix.



4. For events with many routes, I recommend only copying the GPX files you are interested in onto the GPS. Then I import only the routes I actually want to use on the current day and delete them when I "debrief" my GPS at the end of each day. I save the day's track, then clear the track log, trip computer etc.

Using the routes

1. For MSTA event routes, starting points have been placed down the road from the hotel so you can load the route and hit Go in the hotel parking lot. The GPS will autoroute you from where you are to the start of the route. (Most zumos default to starting the route at the second Via point of the route, and we have modified routes so that is not a problem.) I use the first or second waypoint of the route at the beginning. The XT and XT2 models default to Nearest Entry Point. I use that option if I need to restart the route at some midway point.

2. Alerts have been added to many routes at about 75 miles for gas stops. They are a handy reference for users of Trip Planner type models if they need to restart or get back on a partially ridden route.

3. All but the shortest routes are divided into two or three parts. The first part usually ends at lunch so just load the part 2 and run that after lunch. This reduces the number of route lines on the GPS map and makes the routes easier to follow.

Using Tracks on Your GPS

Some of the ADV routes for MSTA events are Tracks Only, so they must be navigated using tracks that are visible on the GPS screen. (The Garmin zumo 450 and 550 don't support track display but the rest of the models above work well with them. For the zumo 660 and Nav4, tracks must be selected and imported separately from routes if you want to use them.)

Once tracks are loaded and imported on the GPS, they can be made visible on the map of compatible models in the Track Manager App by selecting the desired track. On the Edit Saved Track screen, set the desired color if you wish, (I prefer bright green) and set the track to Show on Map. You can set multiple

tracks to different colors and make them all visible at once, which is very convenient if your day's route has several options.

Important info for zumo XT users who want saved tracks to be visible on the map: If your unit does not offer an option to display tracks on the map, first make sure your firmware is up to date. If you still have a problem, you are probably connected to the Explore database. You can disconnect it temporarily for the MSTA event or permanently with this procedure:

1. From the Map screen, go to the Trip Meter screen
2. On the Trip Meter screen, press and hold the round speedometer for about ten seconds. You will be taken to the Diagnostic screen.
3. On the Diagnostic screen, scroll down and press Developer Tests and Tools
4. On the Developer Tests and Tools screen, press Reset Explore Database

This will enable the Show on Map option on the Edit Saved Track screen. After the MSTA event, you can re-enable Explore at any time by going to Where To, Explore. Just say Yes you want to set it up, and it reconnects without having to do anything else assuming the XT still has a Bluetooth connection to your phone.

Option: Using Tracks With Routes on Your GPS

MSTA event GPX road route files include matching tracks that can be displayed on the zumo GPS map screen along with the route. Uploading the route also copies the track onto the GPS.

To use a track with its matching route, make it green in color and visible on the GPS map. The route will load over it on the map screen, but if the route and track do not coincide on some part of the route, the bright green line will be visible. (This happens whenever the route does not calculate the same on the GPS as it did in BaseCamp.)

If you see the green track line on the map, ignore the magenta route line and follow the track. The route and track will converge at or before the next via point, where normal routing will resume.

Visible tracks are also an excellent backup if a route fails because they are a trail of data points and don't depend on the

mapset or route calculation- they will always remain the same as the original route and can be used to ensure your route will follow the original intended path.

The width of the track can be widened on newer generation Garmin zumos so it can be seen even when the magenta route line is on top of it by using a modified Garmin Themes file. Contact Norm Kern for more information.

Option: Manage Your Way points

MSTA routes all use conventional way points for beginning, end, some gas stops and lunch stops. These explicit way points will load into your GPS along with the routes. Deleting routes and tracks after the event does not delete these way points To save hunting them down and manually deleting them after FlyBy Week, do yourself a favor and

1. Create a BaseCamp folder called Way points and create a list in the folder with the current date included in the name such as *2408 way points backup*.
2. Copy all of your existing way points from your GPS into the list.
4. When you return home from the MSTa event, save your GPS's way points to a new list for reference in case you added any new ones you want to keep.
5. Clear all the routes and way points from your GPS.
6. Transfer the way point list you saved before going to the event onto the GPS

Additional Info for Advanced BaseCamp Users

All routes were prepared using Garmin BaseCamp Version 4.7.5 software with current City Navigator North America NT map version

Note: If you are recalculating these routes in Basecamp, be sure to go to Edit, Options, Activity Profile, Motorcycle, Routing. Set Preference to Faster time and turn all Avoidances OFF.

If you're using older City Navigator North America mapsets, the routes should work **after** you recalculate them in BaseCamp, but if you want to be sure, you should follow the following steps:

1. Set the routing preferences in BaseCamp as described above for the GPS.
2. After downloading the routes to your computer, open each route file in BaseCamp
3. Make sure your route and tracks are different colors then recalculate the route.
4. Compare the new (re-calculated) route to its track and make any necessary changes to make the route follow the track.
5. Always recalculate your routes after making changes.
6. Once everything looks OK then you are ready to upload the routes and the tracks to your GPS unit.