

AmRRON JS8 Time Sync Exercise

Exercise Plan v1.3

Redeeming the time, because the days are evil (Ephesians 5:16)

Objective: Give participants an opportunity to practice and master the JS8 Time Sync training outlined in training document: "JS8 TimeSyncWhitePaper"

Overview: During the exercise hours, participating stations will disconnect all time keeping devices (GPS and Internet), tune to the exercise frequency, and sync their JS8 to the time of a designated time keeping station. Once you are able to decode their heart beats and/or transmissions you will attempt to query their "Station info" and retrieve the contents thereof.

Exercise Focus: Time sync of JS8 to a "Heartbeat" station in an environment with no GPS or internet time available.

Venue: Participants may operate from any location using grid power, but simulating no internet or GPS for JS8 to set time. (As always should you decide to test yourself and your equipment, feel free to use gird-down energy.)

Date/Time & Frequencies:

Region	Date/Time Local	Frequency
Eastern	Sat 3/12/2022 10:00am-11:00am	7.115
Central	Sat 3/12/2022 10:00am-11:00am	7.115
Mountain	Sat 3/12/2022 10:00am-11:00am	7.115
Pacific	Sat 3/12/2022 10:00am-11:00am	7.115
Region	Date/Time Local	Frequency
Eastern	Sun 3/13/2022 08:00pm-09:00pm	3.578
Central	Sun 3/13/2022 08:00pm-09:00pm	3.578
Mountain	Sun 3/13/2022 08:00pm-09:00pm	3.578
Pacific	Sun 3/13/2022 08:00pm-09:00pm	3.578

JS8 Group and Offset: JS8Call using the group address @AMRRON, with a JS8Call offset transmitting between 1900 and 2300 on the waterfall.

Heartbeat Station instructions:

1. Set your JS8 "Time Delta" to significantly off actual time. (You want to be sure that any listening station will not decode your signal until they adjust to a time more in sync with your station.)
2. Set your JS8 Group to @AMRRON
3. Disable Heartbeats, Heartbeat Networking, and Heartbeat Acknowledgments
4. Set your radio to the exercise frequency
5. Set your JS8 Call-sign to include a "/H" (Heartbeat station signifier)
6. Set your "Station info" field to contain the exercise words "You did it".
7. During the exercise hours heartbeat several times on the quarter of each hour.
8. Participant stations will attempt to sync to your station and query your "Station info". Once successful they have completed the assignment.
9. Best practice would be for Heartbeat stations to sync with the original exercise Heartbeat station from the Eastern region. If successful all Heartbeat stations will be in sync and able to decode all exercise activity.

Participant Instructions: Participant stations will attempt to time sync to a Heartbeat station and query the "Station info". Once successful you have completed the assignment. If you wish you may practice several times.

1. Set your radio to the exercise frequency
2. Set your JS8 Groups to include @AMRRON
3. Disable Heartbeats, Heartbeat Networking, and Heartbeat Acknowledgments
4. Every quarter hour a Heartbeat Station (designated by a "/H" after their FCC Call) will heartbeat several times. Using your JS8 skills and the instruction document posted on AmRRON.com and titled "JS8 TimeSyncWhitePaper" sync your JS8 time to the Heartbeat station.
5. Once you have decoded the Heartbeat Stations call-sign, Query their "Station info" field for the exercise phrase.
6. Once you have received and decoded the Heartbeat Station's "Station info", you have completed the exercise.
7. As a participant, you may sync to any Heartbeat station in any region. (Courtesy would dictate that if you have already successfully synced to a Heartbeat station, you would allow other stations to take a priority.)
8. A Zello "Help Desk" will be available on the AmRRON Digital Zello channel during exercise hours.