

# Do you really understand your car radio function?

<https://blog.autopumpkin.com/wp-content/uploads/2019/10/RDS.mp4>

Radio is a basic but must-have function in the car stereo. However, you may get in trouble with the poor signals, phase noise, and slow tuning. Now, most of the car stereos support RDS function, this can solve the above problems.

RDS is Radio Data System, in which digital signals are transmitted with normal radio program to effect automatic tuning of receivers and other functions. This system has gained a considerable amount of popularity and is widely used in Europe. While in the US, its official name is RBDS(Radio Broadcast Data System).

The car stereo supports RDS can receive traffic reports more easily. It provides much information to be displayed on the radio, including time, station identification and program information. Which are of great use to all radio listeners, particularly to those radio listeners in cars.

RDS has 30 program types, such as current affairs, science, or popular music. Besides, a listener who is driving can arrange to have special traffic bulletins break into programs automatically.

Therefore, RDS can elevate user convenience and enhance driving safety, because it lets the driver pay attention to the road instead of to the radio controls.

BTW, all Pumpkin car stereos support the RDS radio.

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# RDS Radio data system in car stereo

At present, All car DVD Player can support RDS Radio function. It plays an important role in the car entertainment. RDS Radio data system can display received show the broadcast name and other information. It can find what you need the radio broadcast show via program type. If you listen the music shows, it can display the song and artist name on the stereo screen. It can automatically search radio station and you can press already searched radio station for long time( normal above 3 second), the station is saved. If you listening the traffic broadcast station, you can know more traffic knowledge and road condition, it is good for transportation safety.

This is our car DVD player RDS radio data system frequency range:AM/ FM Tuner(Worldwide)AM frequency range: Europe(522-1620), America(530-1710), Russia(522-1620), 18 stations preset. FM Tuning range: Europe(87.5-108), America(87.5-107.9), Russia(65.0-108.0)



The following information fields are normally contained in the RDS data:

## **AF (alternative frequencies)**

This allows a receiver to re-tune to a different frequency providing the same station when the first signal becomes too weak (e.g., when moving out of range). This is often utilized in car stereo systems.

## **CT (clock time)**

Can synchronize a clock in the receiver or the main clock in a car. Due to transmission vagaries, CT can only be accurate to

within 100 ms of UTC.

### **EON (enhanced other networks)**

Allows the receiver to monitor other networks or stations for traffic programmes, and automatically temporarily tune into that station.

### **PI (programme identification)**

This is the unique code that identifies the station. Every station receives a specific code with a country prefix. In the US, PI is determined by applying a formula to the station's call sign.

### **PS (programme service)**

This is simply an eight-character static display that represents the call letters or station identity name. Most RDS capable receivers display this information and, if the station is stored in the receiver's presets, will cache this information with the frequency and other details associated with that preset.

### **PTY (programme type)**

This coding of up to 31 pre-defined programme types (e.g., in Europe: PTY1 News, PTY6 Drama, PTY11 Rock music) allows users to find similar programming by genre. PTY31 seems to be reserved for emergency announcements in the event of natural disasters or other major calamities.

### **REG (regional)**

This is mainly used in countries where national broadcasters run "region-specific" programming such as regional opt-outs on some of their transmitters. This functionality allows the user to "lock-down" the set to their current region or let the radio tune into other region-specific programming as they move into the other region.

### **RT (radio text)**

This function allows a radio station to transmit a 64-character free-form text that can be either static (such as station slogans) or in sync with the programming (such as the title and artist of the currently playing song).

### **TA, TP (traffic announcement, traffic programme)**

The receiver can often be set to pay special attention to this

flag and, for example, stop the tape/pause the CD or retune to receive a traffic bulletin. The TP flag is used to allow the user to find only those stations that regularly broadcast traffic bulletins whereas the TA flag is used to signal an actual traffic bulletin in progress, with radio units perhaps performing other actions such as stopping a cassette tape (so the radio can be heard) or raising the volume during the traffic bulletin.

So you can see RDS radio data system is very usefull and important in car stereo. It is widely used Europe, America and Russia. Welcom to visit to our site get more car stereo: [www.autopumpkin.com](http://www.autopumpkin.com).

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