

Jaguar XJ8L Motorola TK30 Bluetooth Installation



This article covers the installation of a Motorola TK30 Bluetooth car kit into a 2007 Jaguar XJ8L with the standard (premium) sound system. This car has navigation but does not have the Audiophile sound system which means it has no external amp. The TK30 can't be installed this way if you have an external amplifier.

I started by researching my options. This car has an optical audio network which makes it more difficult to attach aftermarket audio equipment. Jaguar does make an Audio Connectivity Module for this car. I checked into it and saw several part number that seemed to apply. I contacted a few Jaguar parts retailers but only got one response. Their response is below. I asked about both my 2007 XJ8L and my 2005 X-Type.

To view your reply, Goto <http://www.JaguarMerriamParts.com> and login, then Click on "Your Account", then "Messages".

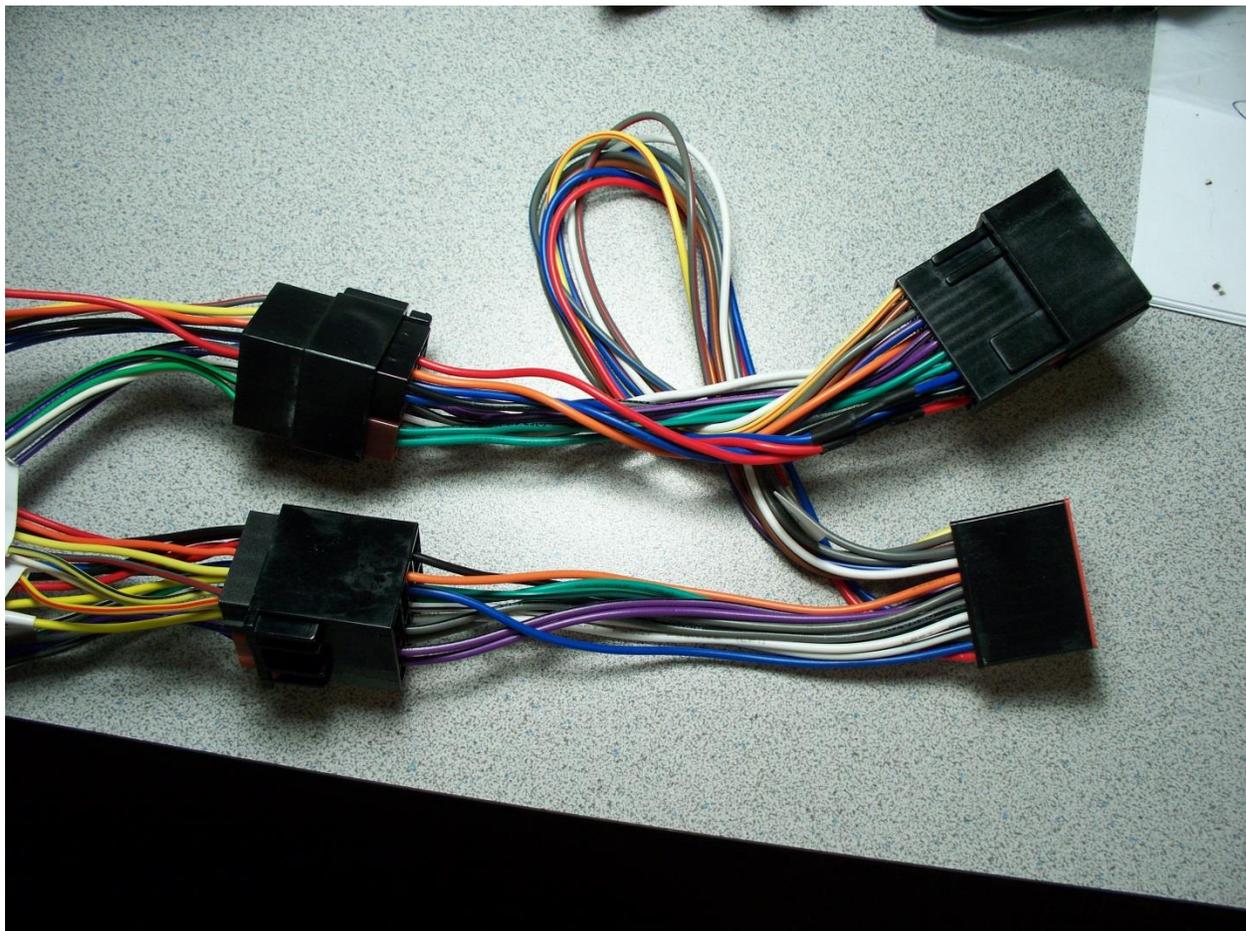
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Jim, The part number for this kit is the same for both vehicles. The part number is C2S44674. Your price is \$614.25 each, plus shipping. Tom

I also found other website listing it as low as \$299 but sometimes with different part numbers. For my X-Type, which does have the premium Alpine sound system, I may still go this route. Since the XJ8L did not have an external amp, I kept looking for other options.

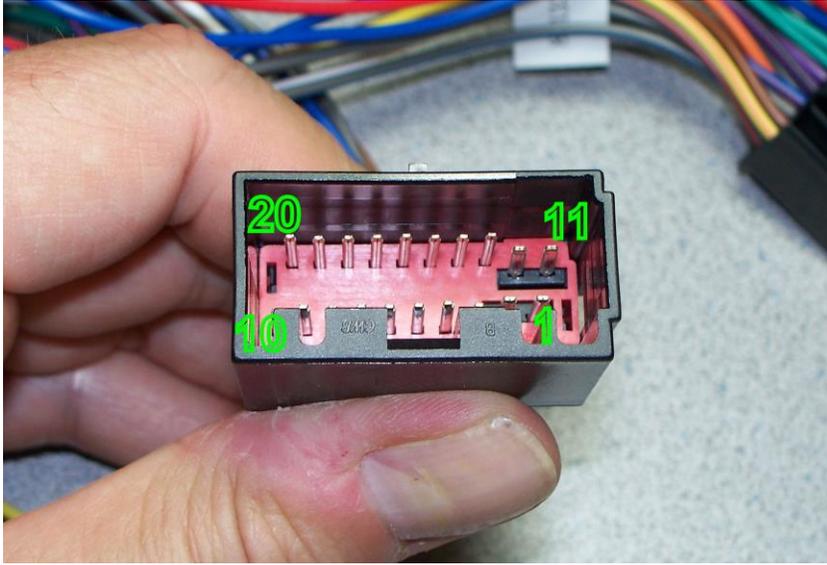
My XJ8L does have factory Bluetooth handsfree. To be honest, it is terrible. It can only pair to one phone at a time. You must unpair that phone to pair another. I am not referring to connecting, I am talking about pairing. Then it keeps the Bluetooth connection after you turn OFF the car for up to 6 minutes to sync your contacts. There are no voice commands and it does not even allow the use of the phones voice commands. If you pay the big bucks you can get Jaguar Voice that does offer voice commands but why should you have to do that when the phones all support it? Of course it does not support stereo streaming (A2DP) either. Nearly useless.

I have installed Motorola T605 car kits in many cars before, including my 1998 XJR. That worked fantastic. I looked into that but I could not find a way to connect into the factory system for either phone or stereo. My XJR was actually quite easy to do this but the newer cars are different. Then I found the TK30. It has its own stereo amp so it connects after the factory system, directly to the speakers.

To make the installation much easier, and it can be completely removed with no modifications to the factory wiring, I also purchased an ISO adapter harness for the Jaguar. A company called Complex Solutions Ltd in Peterborough England sold me the ISO adapter harness. It is part number 220790654315. It is called ISO-SOT-082-h for Motorola TK30 Jaguar. The place that makes the adapter harness is KRAM (<http://www.kram.dk/>). This cost £10.83.



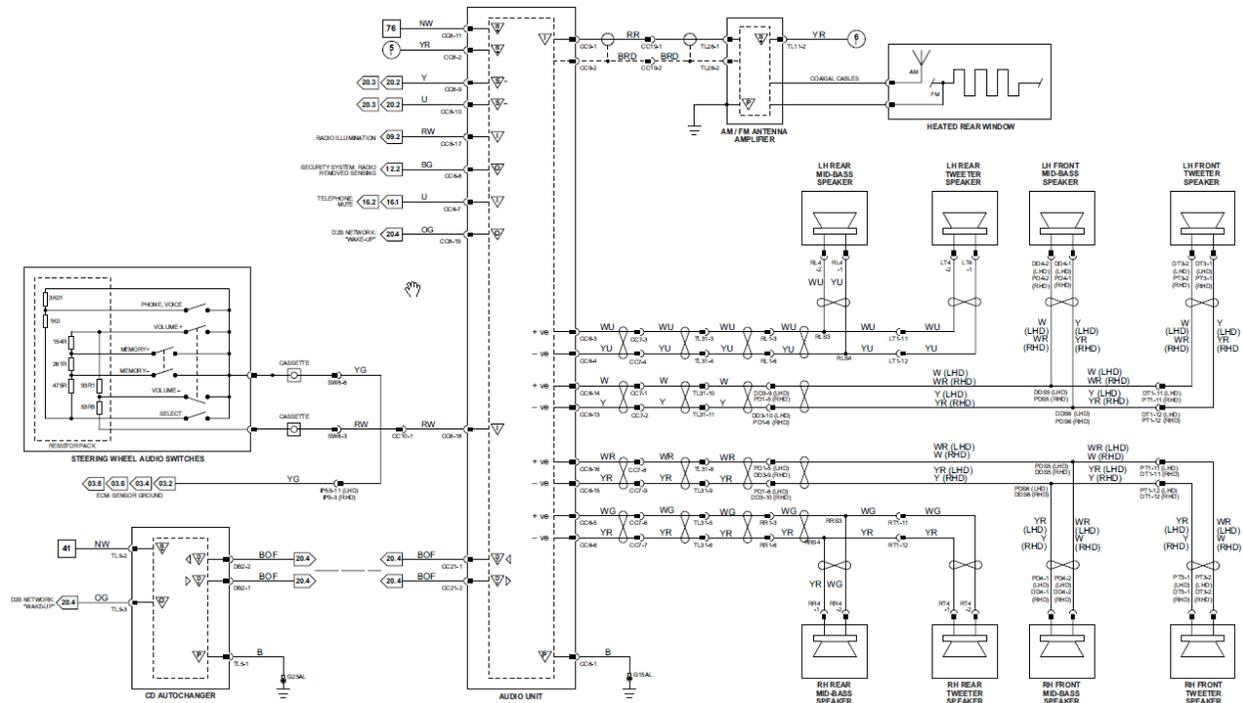
I bought the Motorola TK30 Car Kit from Amazon for \$57.99.



The photo above shows the harness side connector for the ISO harness. I also labeled the corner pins (the rest are in order). The harness also has labeled wires so you know what each one is. Below is the schematic for the standard sound system my car has.

Audio Unit – Premium

	Pin	Description and Characteristic
PG	CC8-1	POWER GROUND: GROUND
B+	CC8-2	IGNITION SWITCHED POWER SUPPLY (I): B+
O	CC8-3	LH REAR AUDIO +
O	CC8-4	LH REAR AUDIO -
O	CC8-5	RH REAR AUDIO +
O	CC8-6	RH REAR AUDIO -
I	CC8-7	TELEPHONE MUTE SIGNAL
O	CC8-8	SECURITY SYSTEM GROUND SENSING: GROUND WHEN AUDIO UNIT INSTALLED
S	CC8-9	SCP +
S	CC8-10	SCP -
B+	CC8-11	BATTERY POWER SUPPLY: B+
O	CC8-13	LH FRONT AUDIO -
O	CC8-14	LH REAR AUDIO +
O	CC8-15	RH FRONT AUDIO -
O	CC8-16	RH REAR AUDIO +
I	CC8-17	DIMMER-CONTROLLED ILLUMINATION: PWM, 80 Hz, GROUND = 0% DUTY CYCLE, B+ = 100% DUTY CYCLE
I	CC8-18	STEERING WHEEL SWITCHES: STEPPED RESISTANCE
O	CC8-19	D2B NETWORK WAKE-UP



Installation

I found a nice article on the web showing how to remove the center console (step 1). The link is here: <http://www.jaguarforums.com/forum/xj-x350-x358-xj6-xj8-xjr-28/removing-2006-xj8-console-install-satellite-radio-30043/>

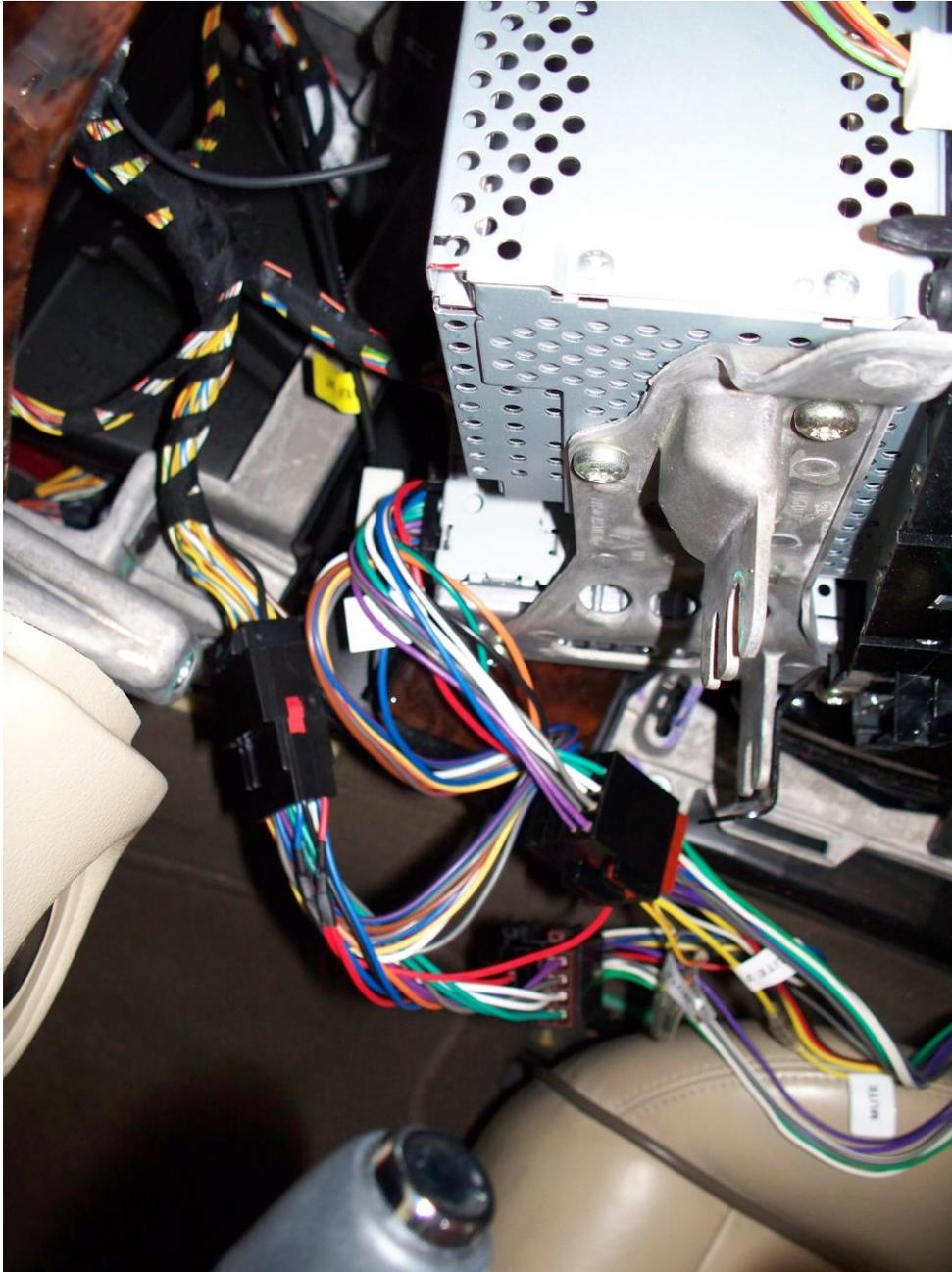
Once you get the center console out (which is easy) there are 4 bolts holding the audio/navigation head unit. I also removed the shifter knob (unscrews).



Now you can slide the head unit out. No need to disconnect it all. The radio connector is on the left side rear of the lower head unit.

The ISO adapter harness can now be connected between the radio head unit and the harness. Simple plug-in installation. Connect the ISO harness to the TK30 harness next.





Space is tight in the dash so I ended up mounting the TK30 module under the glove box on the passenger's side (USA). I routed the wires under the radio to the ISO adapter. I also routed the TK30 control wiring from the ash tray to the module in the same manner.

I routed the line in and USB harness from the TK30 over the AC duct in the center console to the cup holder. The cup holder just pops out the top. The whole center console compartment does too except you must remove the screw holding the Bluetooth radio harness because it retains the compartment. You can access this tiny screw from the back after removing the AC ducts and switches panel.

The microphone wire needs to be routed from the module to the rear view mirror. The A-pillar trip on newer cars has special retaining clips that cannot be reused due to air bags. In order to avoid that hassle, I just pulled the weather seal/trip and tucked the wire under the A-pillar trip and under the headliner. I removed the covers from the rearview mirror and drilled a tiny hole to mount the microphone. I found a tiny screw that does not have a sharp end to mount the microphone mount to the mirror mount cover.



I reassembled everything except I did not install the center console compartment yet. I had the drink holder out of the center console compartment. I used a hole saw to drill a large enough hole to fit the USB connector.



The cup holder can now be placed back in the console and completely cover up the hole.