10ble-025 manual

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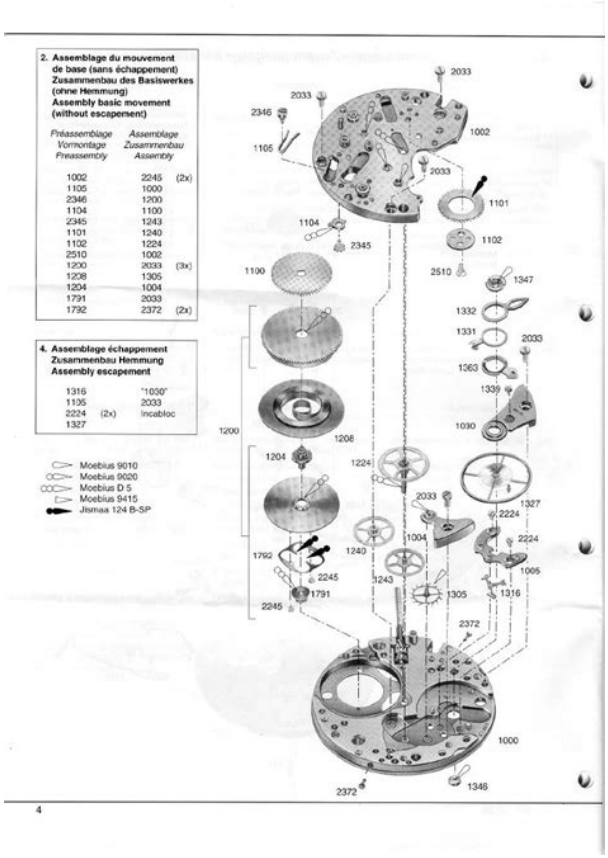

Also, HM10 and all other clones use AT commands for configuration, you can read the datasheets for reference but this tutorial or mobile app does not need you to use any AT command. Evothings Studio is ideal for developing IoT mobile apps as it’s easy to use, gets you started in minutes even if you have “some” knowledge of JavaScript and HTML. Also, it has useful prebuilt libraries and plugins, such as, for this example, the Evothings Studio already has necessary libraries to work with BLE, all you need is to write down a few lines of code to connect and send commands to your BLE module. Upload the sketch to your Arduino. Generate an anonymous Cloud Key further down on the download page, paste it into the Workbench software. Correct UUID should be given in the app.ledOn and app.ledOff functions of index.html. See this tutorial on more details about them. As, for now, we don’t need to go in detail of how these libraries are working, we can just focus on the code in the “index.html” file. We simply switch the LED on if we receive anything other than 0 on the software serial, similarly, if it’s 0, we turn the LED off. Feel free to look around all the other tutorials at and visit our forum on evothings.freshdesk.com and use the Gitter chat channel where many IoT developers like to hang out. Dont worry, we only inform you about major updates. Kablovsku stopicu kabla za uzemljenje postaviti. Staviti drugu zubcastu plocu. Maticu naviti i zategnuti. Postavite usisnu glavu na posudu i zatvorite je bravicama. Uklonite nakupljenu prljavstinu na strani cistog vazduha. Ukoliko smetnje i dalje postoje, obratite se servisnoj sluzbi Karcher. Ukljucite uredaj. Zubehor reinigen. Zamenite filtersku vrecicu. Zamenite ulozni filter. Zamenite ulozni filter. Zamenite ulozni filter. Eventualne smetnje na uredaju za vreme trajanja garancije uklanjamo besplatno, ukoliko je uzrok greska u materijalu ili proizvodnji.http://esthetique-laser-lamarsa.com/userfiles/electronic-ab-solution-manual.xml

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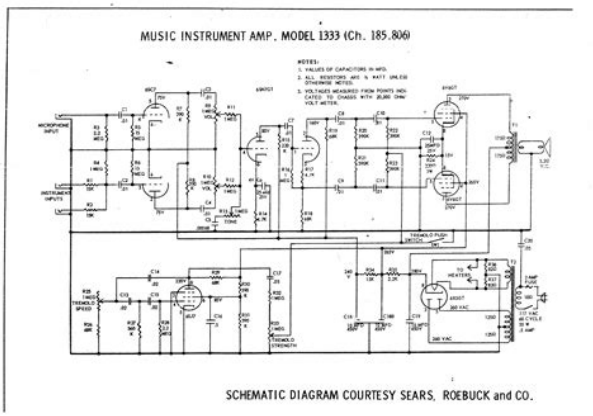
Coloque el aparato en un cuarto seco y protejalo frente a un uso no autorizado. Para aspirar el aparato, se debe emplear como minimo un aspirador de la misma clasificacion o de otra superior. Advertencia Todas las comprobaciones y trabajos en componentes electricos los tiene que realizar un electricista especializado. En caso de averias mas graves, contacte con el Servicio postventa de Karcher. Este aparelho destinase ao uso industrial, p.ex. em hoteis, escolas, hospitais, fabricas, lojas, escritorios e lojas a exploracao. Simbolos no aparelho Nao aspirar fontes de ignicao. Em caso de tempo de uso prolongado tera que ser eventualmente substituido o filtro de cartucho. Advertencia Todos os trabalhos e verificacoes nos componentes electricos so devem ser efectuados por pessoal qualificado. OBS Tom og rengor sugeren hver gang den har vret i brug samt efter behov. Tom beholderen Maskinen rengores indvendigt og udvendigt ved at stovsuge den og torre den af. Skru tandskiven pa gevindtappen. St kabelskoen til jordkablet pa. Skru den anden tandskive pa. Skru

httemotrikken pa og stram den. St sugehovedet pa beholderen og las med beholderlasene. Sett sugeslangen inn i sugeslangetilkoblingen, og las den fast ved a dreie den mot hoyre. Sett pa onsket tilbehor, og skru inn mot hoyre. Tom beholderen. Rengjor maskinen innvendig og utvendig ved a torke av den og bruke sugefunksjonen. Sett maskinen til oppbevaring i et tort rom, utilgjengelig for uvedkommende. Sett sugehodet pa beholderen, og las det fast med beholderens lasemekanismer. Stall apparaten i arbetsposition, sakra med handbromsen om nodvandigt. Satt in sugslangen i anslutningen for denna och las fast genom att vrida at hoger. Satt pa onskat tillbehor och vrid in det at hoger. Tra pa den andra tandade skivan. Skruva pa hattmuttern och dra fast den. Satt sughuvudet pa behallaren och las fast det med lasanordningarna till behallaren.Ohje Tyhjenna ja puhdista imuri jokaisen kayton jalkeen ja aina, kun on tarpeen.



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Tyhjenna sailio. Puhdista laite sisalta ja ulkoa imemalla ja pyyhkimalla. Sailyta laite kuivassa tilassa ja suojaa se asiattomalta kaytolta. Pujota hammaslevy kierretappiin. Laita massakaapelin kaapelikenka paalle. Pujota toinen hammaslevy. Aseta hattumutteri paikalleen ja ruuvaa se kunnolla kiinni. Not Supurgeyi her kullanmdan sonra bosaltn ve her gerektiginde temizleyin. Kab bosaltn. Cihazn dsn ve icini tozunu alarak ve silerek temizleyin. Disli plakay disli pimden biraz acn. Sasi kablosunun kablo muhafazasn acn. Ikinci disli plakay acn. Baslk somununu takn ve skn. Emme baslgn yerlestirin ve kap kilitlerle kilitleyin. Korlatozas Nem szabad rakkelto anyagokat, a fureszpor kivetelevel, felszivni. A keszuleket szaraz helyisegben allitsa le es biztositsa illetektelen hasznalat ellen. A keszulek leszivasahoz legalabb ugyanolyan vagy eggyel jobb osztalyu porszivot hasznaljon. Tovabbi folytatolagos uzemzavarok eseten ertesitse a Karcher ugyfelszolgalatat. Prumyslove vysavace prumysloveho typu 1 nejsou urceny k vysavani na pracovnich strojich. V techto pripadech se vsak nejedna o zavadu, ale o upozorneni, ze se podle vyse uvedeneho zmensilo mnozstvi vzduchu a zvysil podtlak. Upozorneni Na bezpecnostnich zarizenich urcenych k predchazeni nebezpeci je treba pravidelne provadet udrzbu. To znamena, ze vyrobce nebo jina vyskolena osoba prezkousi bezvadnou funkcnost zarizeni z pohledu technicke bezpecnosti, zkontroluje tedy napr. Pripadne poruchy zarizeni odstranime behem zarucni lhuty bezplatne, pokud byl jejich pricinou vadny material nebo vyrobni zavady. V prikljucek sesalne cevi vtaknite cev za sesanje in jo zapahnite z vrtenjem v desno. Nataknite zelen prikljucek in ga privijte v desno. Izpraznite posodo. Napravo znotraj in zunaj posesajte in obrisite. Napravo pospravite v suh prostor in jo zavarujte pred nepooblasceno uporabo. Nataknite drugo zobato podlozko. Privijte klobucastno matico in jo pritegnite. Na posodo postavite sesalno glavo in jo zapahnite z zapirali.

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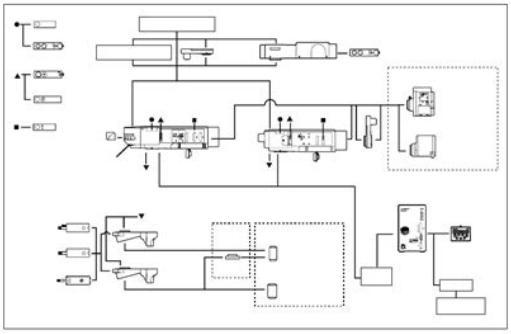

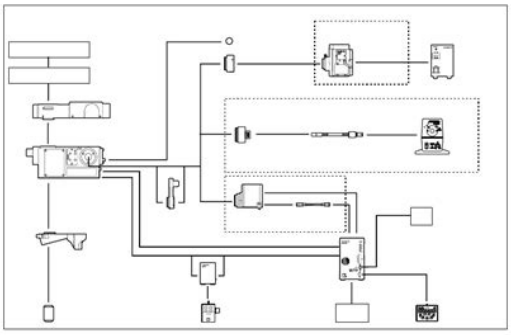

Napotek Pazite na pravilno lego sesalne glave fiksiranje, polozaj stikala zadaj. Odsysac tylko ze wszystkimi filtrami, gdyz w przeciwnym razie moze to prowadzic do uszkodzenia silnika ssacego i stanowic zagrozenie dla zdrowia w wyniku zwiekszonego wydmuchu drobnego pylu. Do odkurzania urzadzenia nalezy stosowac odkurzacz co najmniej tej samej lub wyzszej klasy. Automatyczny nadzor sily ssania Urzadzenie wyposazone jest w nadzor sily ssania. Wyczyscic akcesoria. Wymienic worek filtracyjny. Respectati masurile de siguranta aplicabile in cazul materialelor ce urmeaza sa fie aspirate. In aceste cazuri nu este vorba despre o defectiune, ci despre o indicatie cum ca asa cum sa mentionat mai sus cantitatea de aer a scazut si subpresiunea a crescut. In cazul in care defectiunea persista, apelati la serviciul pentru clienti al companiei Karcher. Obmedzenie Nie je povolene vysavat rakovinotvorne latky, okrem prachu z dreva. Nevysavajte bez filtracnych prvkov, inak sa poskodi saci motor a vznika riziko ohrozenia zdravia v dosledku zvyseneho vylucovania jemnych prachovych castic. Pri vysavani vysavaca je nutne pouzivat vysavac minimalne rovnakej alebo lepsej triedy. Automaticka kontrola sacieho vykonu Zariadenie je vybavene kontrolou sacieho vykonu. Pozor Vsetky kontroly a prace na elektrickych dieloch moze vykonat len odbornik. Prikladno za usisavanje zapaljivih prasina klasa eksplozije prasina u zoni 22. U takvim se slucajevima ne radi o kvaru, vec to samo ukazuje na to da se, kao sto je gore navedeno, smanjio protok zraka i povecao podtlak. Kod radova na odrzavanju npr. Originalan pribor i originalni pricuvni dijelovi jamce za to da stroj moze raditi sigurno i bez smetnji. Uredaj odmah iskljuciti i ispraznit rezervoar. U slucaju nuzde U slucaju nuzde npr.Napomena Usisivac nakon svake upotrebe kao i inace po potrebi ispraznite i ocistite. Ispraznite posudu. Uredaj ocistite iznutra i spolja usisavanjem i brisanjem.

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Uredaj odlozite u suvu prostoriju i zastitite ga od neovlascenog koriscenja. Postavite usisnu glavu na posudu i zatvorite je bravicama. Hadaolukorras Hadaolukorras nait.Kui padrunifilter on liiga tugevasti maardunud voi katki, tuleb see uuega asendada. Markus Tuhjendage imur parast igakordset kasutamist ja puhastage alati vajaduse korral. Tuhjendage paak. Puhastage seade imedes ja puhkides seest ja valjast. Kruvige seadekruvi maha, tommake padrunfilter maha ja asendage uuega. Kerige hammasseib keermetega poldile. Pange kohale maanduskaabli kaabliking. Kerige peale teine hammasseib. Saja gadijuma tas nav jauztver ka aparata darbibas traucejums, bet gan, ka jau ieprieks minets, tas norada uz gaisa daudzuma samazinasanos un zemspiediena paaugstinasanos. Garantijas termina ietvaros iespejamos Jusu iekartas darbibas traucejumus mes noversisim bez maksas, ja to celonis ir materiala vai razosanas defekts. Prietaisa tuoj pat isjunkite ir istustinkite rezervuara. Oro srove isdziovins lizdini filtra. Jei lizdinis filtras per daug uzterstas ar pazeistas, ji reikia pakeisti nauju. Pastaba Panaudoje siurbli ir kitais atvejai, kai tai butina, istustinkite bei isvalykite siurbli. Istustinkite kamera. Nusukite vainikine verzle ir nuimkite izeminimo kabeli su abiem poverzlemis. Atsukite rievetaji varzta, istraukite lizdini filtra ir pakeiskite ji nauju. Uzverkite poverzle ant srieginio kaiscio. Originaliu priedu ir atsarginiu daliu naudojimas uztikrina saugu, be gedimu prietaiso funkcionavima. Jei masinos modelis keiciamas su mumis nepasitarus, si deklaracija nebegalioja. I am trying to scan for all beacons around me and then store the beacon names. String inputTXT;String inputTXT;Please be sure to answer the question. Provide details and share your research. Making statements based on opinion; back them up with references or personal experience. To learn more, see our tips on writing great answers. Therefore, I decided to redo the guide.

For the main article I am using modules with firmware 5.49 regular except the one I am using for the firmware update guide which started with v5.40 and become 5.47. Here are all the changes since v700. I have not used any of the 7xx firmwares. If you update from. P2 4 Bytes, Char Handle. P1 1 Byte, Devie type. P2 12 Bytes, Device MAC P3 4 Bytes, Notify Handle P4 4 Bytes, Write Handle P5 2 Bytes, Write property. P1 and P2 must be input; I never got them to fully work with modules like the BT05 and the AT09. I emailed Huamao a few times about this a while ago and didn’t get any replies but it looks like they at least addressed the problem. I haven’t had time to try though. I note that firmware v703 and v701 are no longer available. See the readme file that comes with the

download. They have now added a comment on their website saying the HM10 works with Android 8. Not sure if this is just for now or permanently. V603 is the latest firmware available for download. Apart from not releasing the latest firmware the latest HM10s have “HM10” screen printed on the PCB. EDIT looks like they changed their mind. Newer firmwares are now available. Image taken from the Jinan Huamao website See the readme file for details. The manual has not been updated at this time Nov 2017. There are 2 versions; regular and long name. The regular firmware does not have an updated read me so I don’t know what changes, if any, have been made. The long name firmware adds, you guessed it, long names. Device names can now be up to 29 characters. At the same time the iBeacon function and the ANCS function have been removed. Unless you desperately need long names I suggest you stay with the regular firmware. The HM10 is made by Jinan Huamao and is one of many Bluetooth devices they produce including the HM11 which is operationally the same as the HM10 but has a smaller footprint with fewer pins broken out. There may be other differences such as the type of crystal used due to the date of manufacture.

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Operationally the two are the same though. This is the same as the CC2540 except it is lower power and has a shorter range. The CC254x is based on the 8051 and runs at 32MHz. In part due to the standard UART serial connection that makes it fairly straight forward to connect to an Arduino. The UART layer is a good thing and a bad thing, it allows ease of use but it hides the BLE layer so you have no control over the actual BLE side of things.There are a host of commands, some simple, some more complex, and these are covered later. The breakout board includes a 3.3v power regulator that makes them 5V compatible. This makes them ideal for hobbyists like me. You should note that the RX pin is is still 3.3v and when using a 5v Arduino you should covert the Arduino’s 5v TX to 3.3v for the HM10 RX. HIGH when connected It blinks half a second on, half a second off. The LED becomes solid on when a connection is made and returns to blinking when the connection is broken. The LED changes to solid on when pairing. After pairing it returns to flashing. It basically makes a connection to pair and so turns on the LED to show the connection status. After pairing is completed the connection is closed and the LED is turned off. When not connected the LED blinks 500ms on, 500ms off. When connected the LED is solid on. When there is an active connection, bringing the BRK pin momentarily LOW breaks the connection. When there is no connection making the BRK HIGH or LOW has no effect. Although not strictly required, pulling the BRK pin HIGH for normal use will stop the pin floating. I do not see the nonHM10s as fakes, I see them as similar devices with different firmware. To me if they were fakes they would copy the firmware. I think a lot of the problem comes from how the nonHM10s are sold, especially on places like ebay and aliexpress. You will often see modules sold as HM10s when they are in fact not.

One of the easiest ways to spot the nonHM10s was the lack of a crystal, unfortunately you can now buy actual HM10s without the crystal so the confusion is likely to get worse. BLE works in a very different way to the earlier Bluetooth. BLE is designed for low energy applications and achieves this by using infrequent small packets of data. It is not really designed for continuous connections and large amounts of data. For this, Bluetooth Classic is a better choice. In essence, BLE achieves its low power consumption by not being connected very often, unlike Bluetooth Classic which maintains a constant connection. The HM10 can use both methods. When the Central master device finds a Peripheral slave device it wants to connect to it initiates a connection and takes on the master role managing the connection and timings. Characteristics are where the values are, some are READ, some are WRITE, and some are READ and WRITE. This is a custom service that has one custom characteristic. Predefined services and characteristics are ones where the UUID and the name are set by the Bluetooth governing body. For example, the characteristic 0x2A00 is the device name and when a device has this characteristic it should always be the device name. It works by setting the

value of the custom characteristic to the value of the data to be transmitted. It then sends out a notification to the remote device to say there is new data available. When you tell the the HM10 to transmit “HELLO”, it first sets the value of the custom characteristic to “HELLO” and then it sends out a notification telling the remote device “Hey, I have new data, come and get it.” The remote device is scanning for the notifications and when it receives one it knows there is a new value, so it reads the data and then sends back a message saying “Thanks, I have it”. A second characteristic can also be added. Power on the HM10, you can use an Arduino for this but all we need is 5V to HM10 VCC and GND to HM10 GND.

If done correctly, the LED on the HM10 should be flashing. When a connection is established the LED will be become solid on. When using a BLE app all phones can find the HM10 though. Here I am using BLE Scanner. There are many other similar apps available such as BBLE. Tap the CONNECT button to get the app to connect to the HM10 and start reading its properties. For example, under Device Name, tapping the reads and then shows the device name value. You can also see that the HM10s custom characteristic has Read, Write, and Notify attributes. This can be seen when using the BLE Scanner app. You should have something like the below. Use the “AT” command to confirm communication is working. If it is the HM10 will reply with an “OK” You will notice that the value of the custom characteristic changes to whatever you typed. The text should also appear in the serial monitor. After a connection is made the commands are treated as data. “AT” is the exception, the “AT” command breaks the connection. AltSoftSerial uses pin D9 for transmit and pin D8 to receive. You will need add the AltSoftSerial library to the Arduino IDE before you can compile the below sketches. Because I make a lot of this kind of breadboard circuit I make small breadboard modules. One of these is a voltage divider. Remember to add a resistor. The STATE pin is 3.3v when HIGH so using Ohm’s law we find that a 100ohm resistor would be OK. I didn’t have one on hand so I used a 220ohm one that I did have. Using larger resistors is OK but you shouldn’t use smaller ones. The LED will blink in sync with the on board LED. This is a simple serial in, serial out program. Whatever the Arduino receives from the serial monitor it relays to the HM10. What ever it receives from the HM10 it copies to the serial monitor. Here I am using them but noted that although the sketch prints the characters in the serial monitor it does not send them to the HM10. This help make the examples easier to read.

AltSoftSerial BTserial; Here the sketch takes care of the line end characters for us. It does not send them to the Bluetooth module but will print them when echoing the command to the serial monitor main window. This is not really required but it means the commands will be on individual lines and be easier to read in the following examples. Normally, when working with the HM10, everything is printed on one line. The “AT” command is used to confirm communication is working and all it does is return an “OK”. “AT” can also be used to break an active connection. If everything is working you should see “OK”. The default name is HMsoft. As you can see from the below I have changed the name to HMsoft38A3. The “38A3” are the last 4 digits of the mac address. Remember that commands should be in uppercase and not include line ending characters \r\n unless you are using the above sketch in which case it does not matter if you include line end characters or not. The maximum length for a new name is 12 characters. This is the speed a host device like an Arduino uses to talk to the BT module. It is not the the speed used to send wireless signals between different modules. Remember that both devices, the Arduino and the HM10 need to use the same baud rate. Garbage characters are usually a sign of mismatched baud rates.Take care when using with an Arduino. The maximum baud rate the Arduino serial monitor allows is 115200.The default setting is 0 Slave.Data sheet version 5.50 published Jul 2017. In the newer firmwares it auto resets itself evident by the “www.jnhuamao.cn” welcome message. This is the default mode.The x is the index number or list position value. When more than one module is found the addresses will be stored in the order they are discovered. You cannot scan for modules set to Central mode. It is straight forward to make a connection and once the connection is established the HM10s UART layer does all

the work for you.

The UART layer does mean you have no control over the actual BLE details though. Once connected the HM10 transfers data by setting the value of a custom characteristic to the data you are sending. The receiving device then reads the value. Both are wired up exactly the same. This gives me 2 serial monitors.You would need to change the address to suit the modules you are using. When there are 2 or more modules and one is in Central mode it will search and connect to another HM10. This is fully automatic and you have no control over which module it connects to although it would normally pick the one with the strongest signal. Of course, if there are only 2 modules it does not matter. When you have only 2 modules, set one to Peripheral mode and the other to Central mode. They should now connect automatically. Nothing else is required. The modules should now auto connect even when there are addition HM10s in range. Remember that you cannot use AT commands while there is an active connection the commands are treated as data except “AT” which breaks a connection so to enter AT commands you need to turn of the remote module and reset the Central one. This is a very simply example, when a button switch is pressed a remote LED comes on. When the button switch is released the LED goes out. This means pressing the button switch makes the Arduino pin go LOW to HIGH.These are the same commands we used in the manual connection example above. Of course, if the HM10 is already in Central mode and in manual start mode the first 2 commands are not required. The delays allow time for the replies. You could, if you wished, check for the correct reply before moving to the next command. Change the address to suit the modules you are using. This is done by sending a “1” to the remote module.This is done by sending a “0” to the remote module.The LED comes on. There is a few things you can do to stop this happening. The remote device would reply to the message.

The STATE pin is HIGH when there is a connection. In my opinion this is the best option. Unfortunately, the pins we can control are not available on the breakout board so we need to attach a connection directly to the actual HM10 the small daughter board. PIO3 to PIO11 are only designed to supply 4mA. Query the state of pins PIO2 to PIOB 11. Bits 7 to 0 are mapped to pin POI4 to PIOB. Remember that PIO0 and PIO1 are used by the system and only the pins PIO2 to PIOB are available for use.Where this can be useful is where the HM10 is being used standalone. We can do this because the HM10 allows the Peripheral device to receive AT commands over wireless and the pins can be controlled with AT commands. When the HM10 is used remotely and the AT commands are received over wireless, the pin control commands work a little differently. Here we need to to set either MODE1 or MODE2. PIO3 to PIO11 are only designed to supply 4mA. PIO2 and PIO3 to output and pins PIO4 to PIOB to input. PIO2 to PIOB as input. If you try to set one of the other pins the HM10 will not respond, or, depending on the firmware, it may break and then reestablish the connection. First we will do this manually using AT commands and the serial monitor and once we have this working we can add a button switch to the Arduino and have the sketch do the work. The sketch uses the AltSoftSerial library which will need to be installed in to the Arduino IDE before you can compile the sketch. AltSoftSerial BTserial; Unfortunately you cannot do this over wireless so we need to use wires and UART. You can use a computer with a usbtoserial adapter or an Arduino and the serial sketch. I am using an Arduino and the serial sketch. We can now move the module and add an LED to PIO 2. In the meantime you will need to reset the module before continuing. On the Central mode module enter The LDR is connected to peripheral HM10 pin PIOB.

Using MODE1 means we can read the value of PIOB from the Central HM10 over the wireless connection. The Peripheral or Slave HM10 has an LDR connected to PIOB. I have the remote HM10 powered from a bread board power adapter but you could also use a battery.This sketch adds line end characters to the serial monitor window to make the commands easier to see. The sketch also removes any line end characters before sending the data to the HM10.This means we can use it to send data to the HM10 but we cannot use it to READ data. Anything we send to the HM10 is output

is the serial UART the same as the first custom characteristic. Start the app, find and connect to the HM10, expand the custom service and you should now see 2 custom characteristics Enter “HELLO” and tap send. The characteristic value should change to “HELLO” and “HELLO” should also appear in the serial monitor Prior the 5.42 the HM10 connected and communicated with other modules just fine. The HM10 will connect to the other module and data can be sent from the HM10 to the remote device but I cannot receive data from the remote device. This does not seem to be the case though. I get the same results using the self learn mode and not using it. I think there is an issue with the HM10 reading the other devices notifications. I haven’t had chance to try them yet.It simply sends out timed signal letting people know it is there. When an app on a mobile device constantly finds a signal it can react is a specific way. For example, in a shop a special discount may be offered as you approach a pair of shoes. Or, matching chairs may be offered when you approach a sofa. Or, the lights turn on when you enter a room.These are small packets of data sent out at regular intervals. The advertisement has a standard format and includes 4 parts; UUID, Major, Minor, and transmit power. The UUID is generally unique to a manufacturer or company. It can be used to group together related Beacons as well.