

REPLACEMENT OF A LINN MOVING COIL CARTRIDGE

IMPORTANT NOTE:

Please do not attempt this work without expert professional assistance or the appropriate skills and qualifications. Linn retailers are all highly trained and would be happy to do this work on your behalf. Linn cannot be held liable for any injury or damage. This information is provided for reference only and does not imply any acceptance of responsibility for any injury.

WARNING: Always disconnect the product from the mains and from other products connected to the mains before carrying out any adjustments

INSTRUCTIONS

The cartridge you are about to remove is worn out or broken but the LP12 and the Arm are still in perfect condition and I am sure that you would like them to remain that way, so please read through the instructions carefully before proceeding.

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TOOLS YOU WILL REQUIRE.

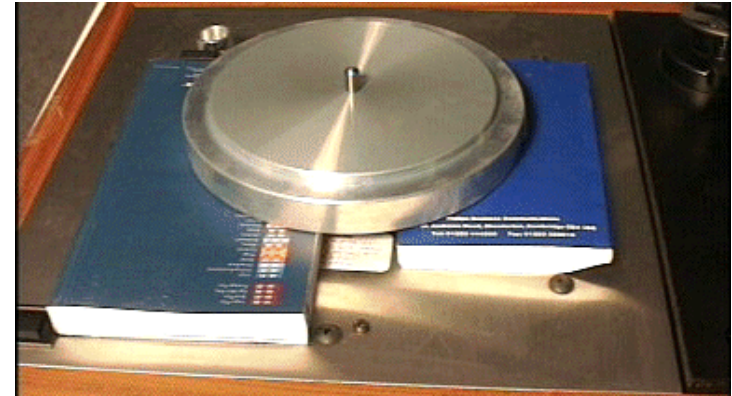
- 5 mm spanner
- Set of Metric Allen (hex) keys
- No 1 Pozi-drive Screwdriver
- Small needle nose pliers
- Alignment protractor. See page 12. You can print this off, but check that your printer has retained the correct scale before use!



How to remove your Linn Tonearm from your Linn LP 12



1. Switch off your amplifier before you unplug anything!
Then disconnect the turntable from everything
ESPECIALLY MAINS!* See Warning on Cover Page.
Fit stylus guard and lift off outer platter.



2. Remove the belt and store it safely. Lift up the inner platter a few inches and place a couple of paperback books under the inner platter to protect the bearing- do not remove the inner platter as oil could be lost and dirt could enter the bearing housing.

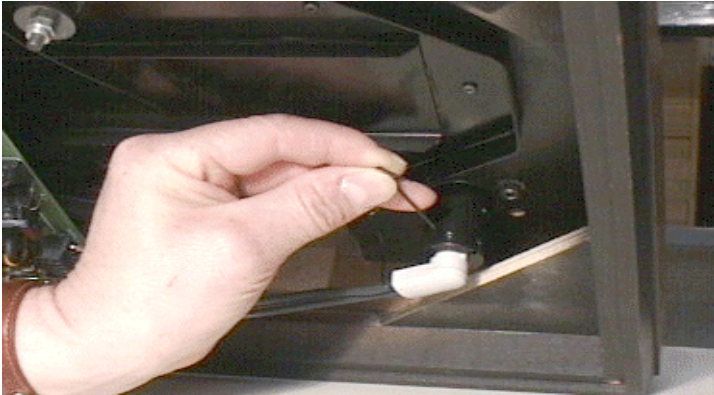


3. With the Turntable placed on some books..

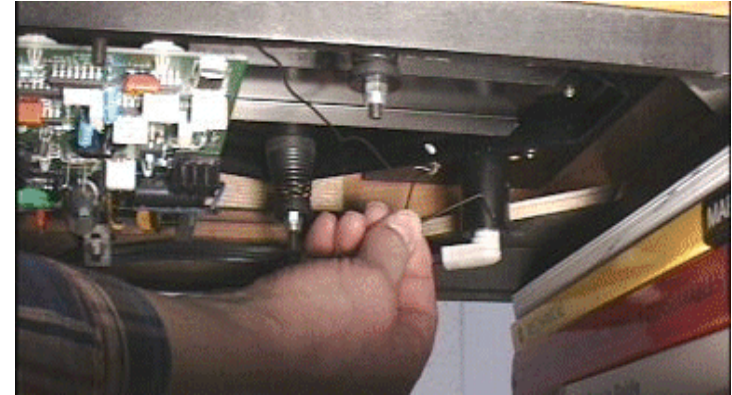


4. . . or over the edge of a table,
remove all the base screws and feet.

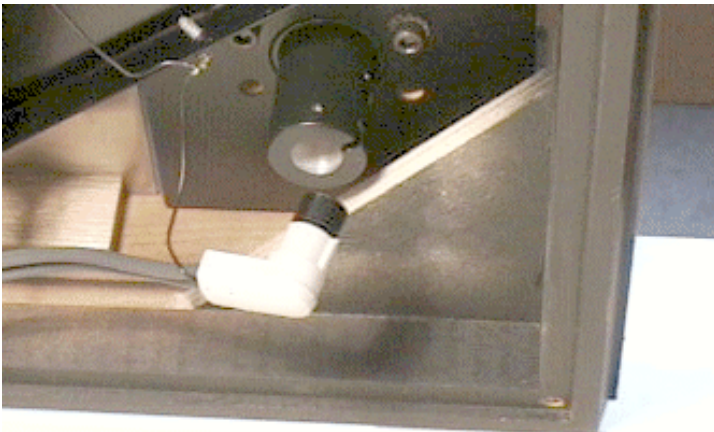
How to remove your Linn Tonearm from your Linn LP 12



5. Using the 1.5 Allen (hex) key (early arms used 1.27 mm) loosen the arm plug locking grub screw at the bottom of the arm by tilting the turntable *slightly*.



6. Or if the turntable is raised on books, don't tilt the turntable but locate and loosen the grub screw.



7. Unplug the arm cable from the bottom of the arm.



8. Supporting the Tonearm as shown loosen the grub screw with 4 mm Allen (hex) key and remove from turntable. With the Ittok LVII, first un-clip from the arm rest and, supporting as shown, lift clear of the turntable.

How to remove your Linn Tonearm from your Linn LP 12

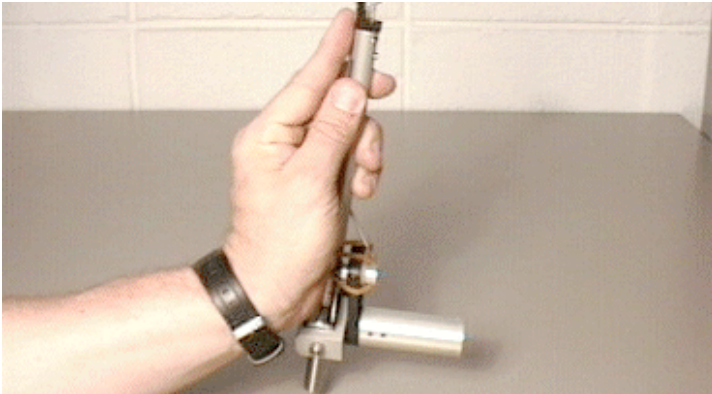


8. Holding the Tonearm by the arm tube, remove the counterweight by *turning* and pulling *gently*. Place the Counterweight in a safe place.

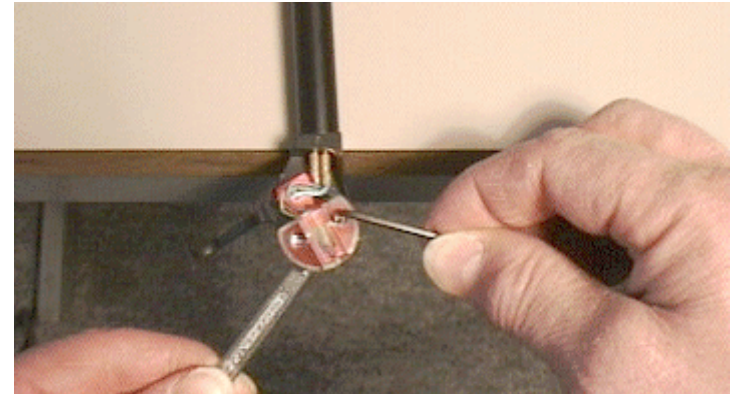
Proceed to next step:

“How to remove Your Linn Cartridge from your Linn Tonearm”.

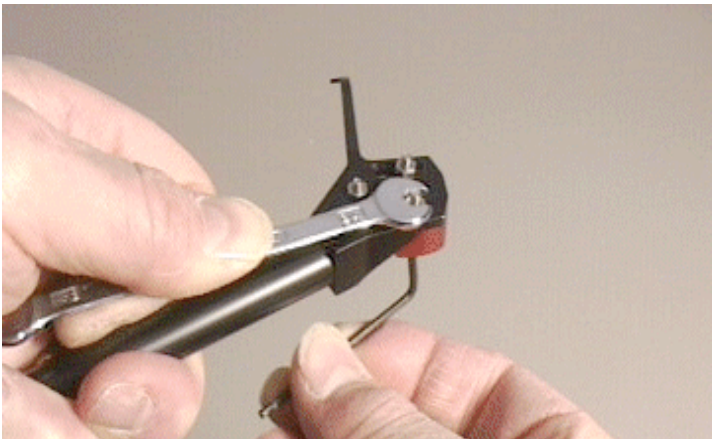
How to remove your Linn Cartridge from your Linn Tonearm



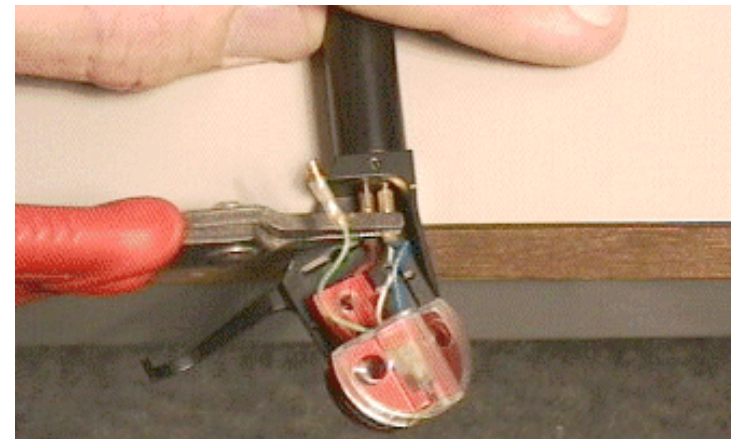
1. If your arm is an Ittok, use a rubber band to secure the arm to the lift lower platform. This will help protect the delicate bearings should you handle the arm roughly.



2. Place the arm over the edge of a clean table and loosen the mounting screws with a 2.5 mm Allen (hex) key. This will avoid stressing the bearings.



3. Hold the 5 mm spanner as shown to prevent the nuts from turning and remove all the cartridge bolts. Keep the nuts and bolts safe- you may need to reuse them.



4. Now carefully remove the tags using a small pair of long nose pliers. Place the arm in a safe place, safest place is back on your LP12!
Proceed to next page for packing instructions.

How to Pack your cartridge.



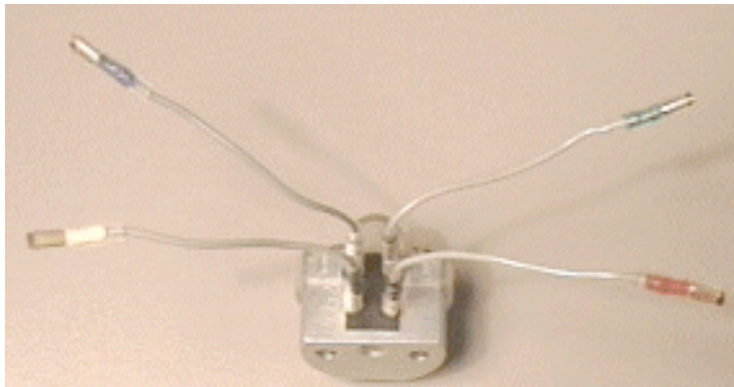
1. Take the cartridge and place in original jewellery box. If you do not have one place in small box with packing wrapped round the cartridge e.g. old film container with paper tissues.
2. Place in a padded envelope or small box with more packing.
3. Complete the returns order form.
4. Return to :

<u>American Customers</u>	<u>All Other Customers Worldwide</u>
Linn Inc. (Cartridge Rebuilds Offer)	Linn Products Ltd. (Cartridge Rebuilds Offer)
PO Box 455	Floors Road
Pompton Plains	Waterfoot
NJ 07444	Glasgow
	G76 0EP
5. Please send registered mail or equivalent.
Linn Products cannot take responsibility for any cartridges missing or damaged in transit, so please ensure that you have packed it securely and have insured it against loss.

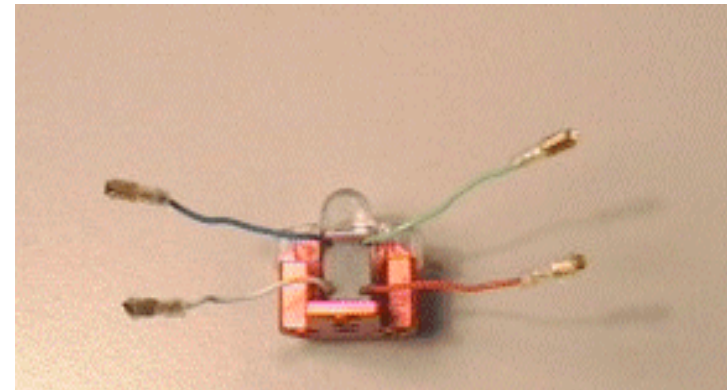
How to fit your Linn Cartridge to your Linn Tonearm

Taking the old cartridge off was fairly painless. The new one is perfect and worth a lot of money. Please keep the stylus guard on at all times and only remove when aligning on the record.

If you get stuck, or are unsure on how to proceed please contact your retailer or drop us an e-mail or fax and we will do all we can to help you.

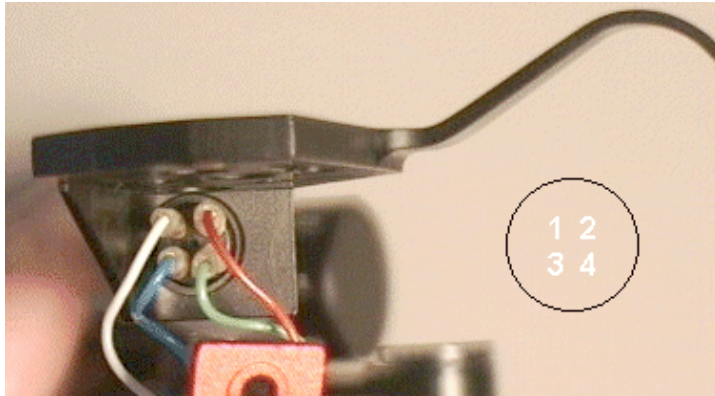


1. Unpack the cartridge and remove from box. Fit the tags to the cartridge if required as shown above.



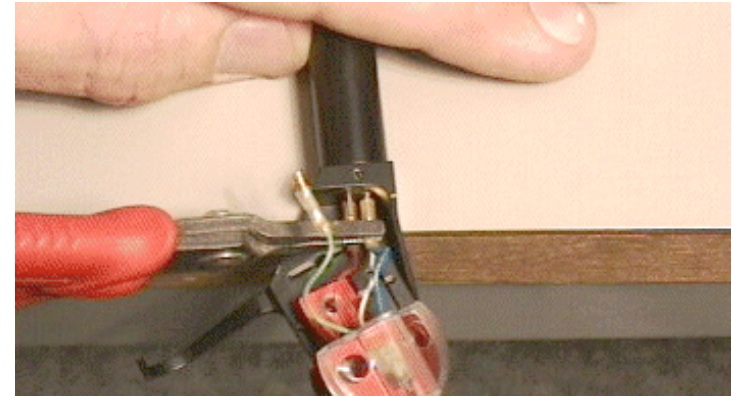
2. Note the colours of the wires as shown above if tags are already fitted.

How to fit your Linn Cartridge to your Linn Tonearm

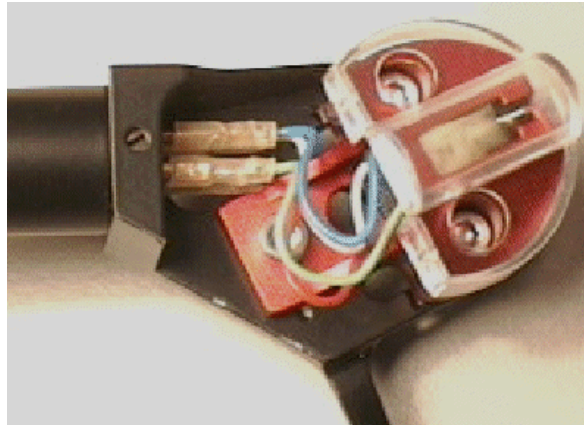


3. Using the colour codes as shown:

- 1. left hot (+) = white
- 2. right hot (+) = red
- 3. left earth (-) = blue
- 4. right earth (-) = green



4. ...carefully fit the tags to the arm.



5. Line up the cartridge with the cursor line on the headshell. (This is on the Ekos only and helps with the setup but the following alignment gauge will also suffice). Fit the screws and nuts finger tight as alignment still has to be confirmed. Retain the cartridge box in a safe place for future use.

How to fit and align your Linn Tonearm and Cartridge



1. Once the cartridge is fitted to the arm, refit the counter weight to the arm by pushing it on to the tail piece bevelled edge first *whilst turning the counterweight*. **TIP:** Use a sliver of soap to moisten the tail of the arm tube to make this easier.



2. Refit the Tonearm to the turntable and tighten at the approximate height. Turn tracking and Bias dial to 0. See point 4 below.

WARNING:
Turn tracking dial slowly and do not go past 0.



3. Remove the stylus guard and un-clip the arm from the rest, then move the counter weight back and forth in small steps until arm floats horizontally, i.e. is balanced or "calibrated". **TAKE CARE AS THE STYLUS GUARD IS OFF!**

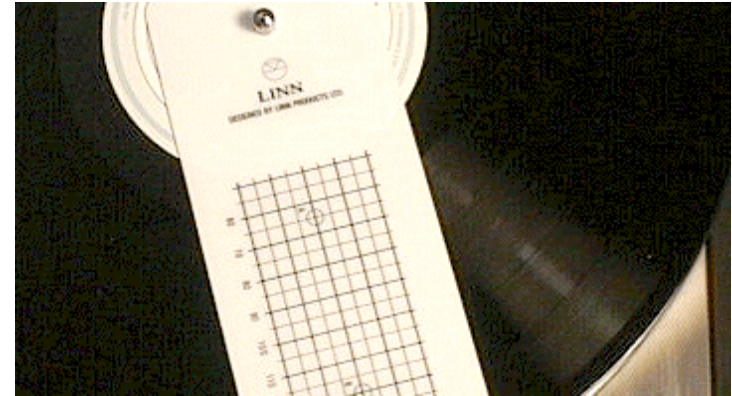


4. Clip the arm in the arm rest and add tracking weight by dialling 1.7 on the tracking force dial (A). Dial B is the Bias or "anti-skate" Dial.

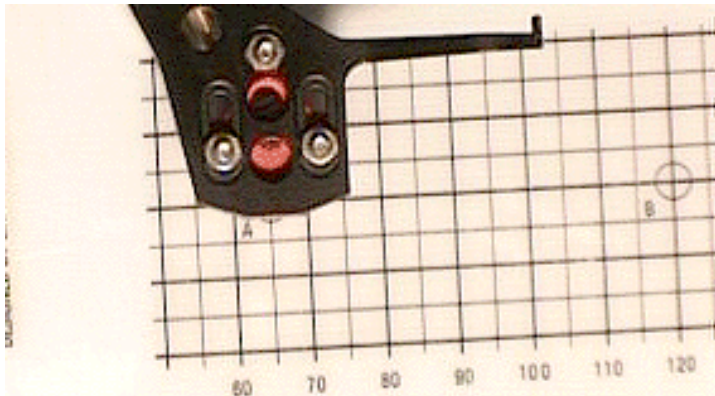
How to fit and align your Linn Tonearm and Cartridge



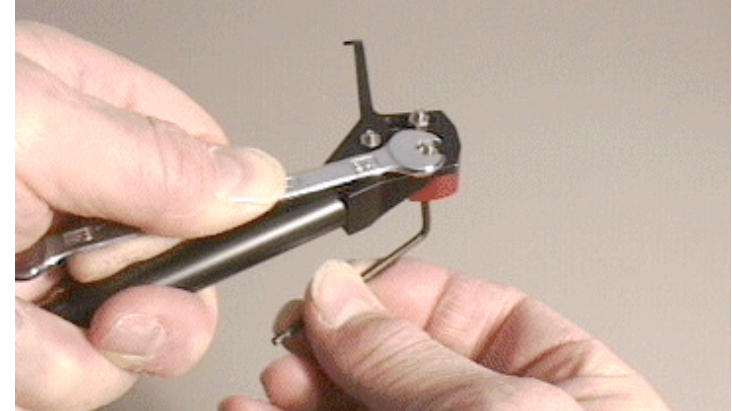
5. Place Arm on record and adjust height until horizontal. If arm is too high or too low, place arm back in clip and adjust the arm height. Repeat this procedure until arm is horizontal. Tip: Use reflection on record and adjust until arm-tube is parallel with it's reflection.



6. Place alignment protractor on the record.

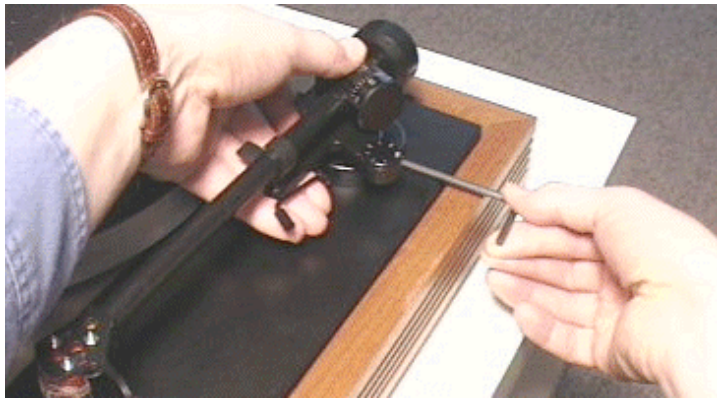


7. Rotate the platter by hand as required to enable placement of stylus on cross-hair (A) so lines are parallel to the cartridge body. Lift the stylus off the protractor while moving the platter. Adjust the Cartridge if necessary forward or back on the headshell ensuring Cartridge remains parallel in the headshell. The outside edge of the headshell (nearest finger lift) will also be parallel so you can use this to line up with protractor. Confirm alignment at point B.

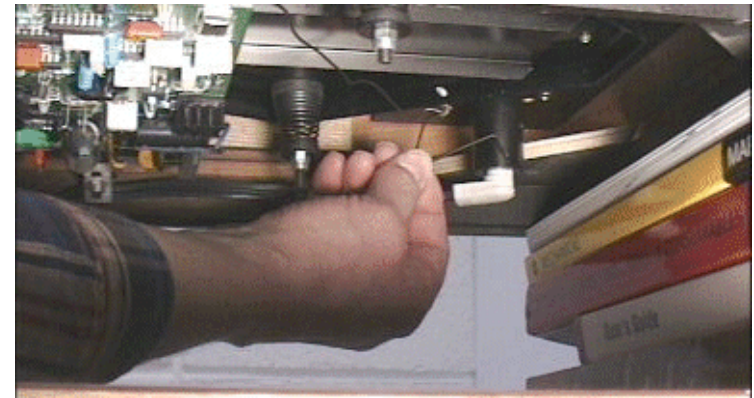


8. Once you are satisfied that the cartridge is aligned **remove the arm from your turntable** and tighten cartridge screws in position until Allen (hex) key *starts* to bend. Use spanner to hold the nuts in place and stop them turning. Refit arm and make final check of alignment (see point 5). When finished place arm in arm clip.

How to fit and align your Linn Tonearm and Cartridge



9. Tighten the arm in place- use the 4mm Allen (hex) key as shown to avoid overtightning.-
WARNING: Overtightning this height locking screw will damage the arm bearings.



10. Refit the arm plug as shown. Tighten securing grub screw but do not over-tighten.



11. Check that the cable does not touch **ANYTHING** and is clear of the base.



12. Remove outer platter. Refit the turntable base and reinstall the turntable in its playing location. Connect the audio and power leads. Refit the belt and outer platter.
Happy listening!

Alignment Protractor:

1. Print off.
2. Check that the scale has been retained with by measuring with a ruler.
3. Past on to thin card.
4. Cut around the border
5. Carefully cut out the spindle hole with a craft knife or scalpel. Please wear safety goggles!
6. Your alignment protractor is ready for use.

