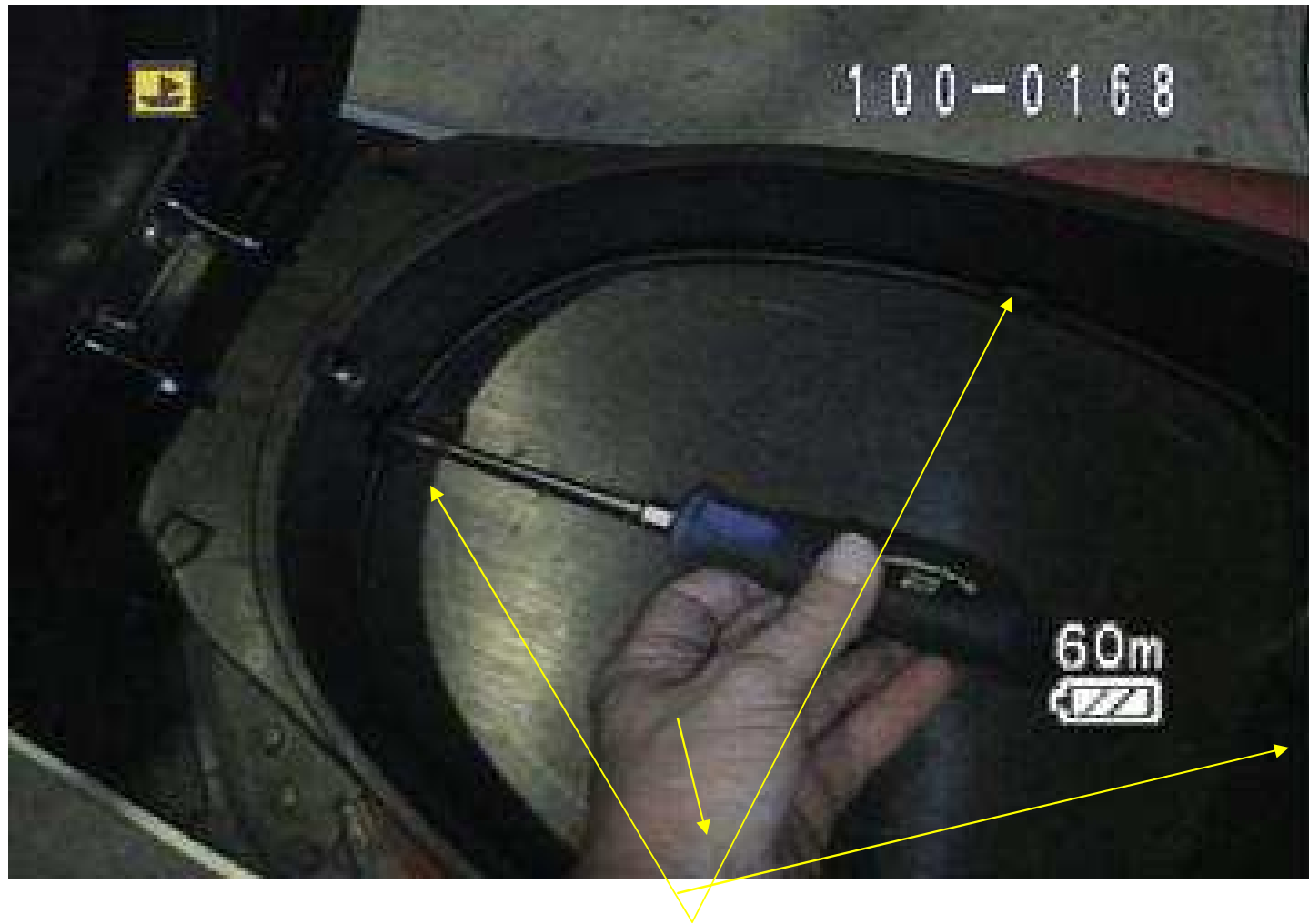


XM-2000 Seat and Side Cover Removal

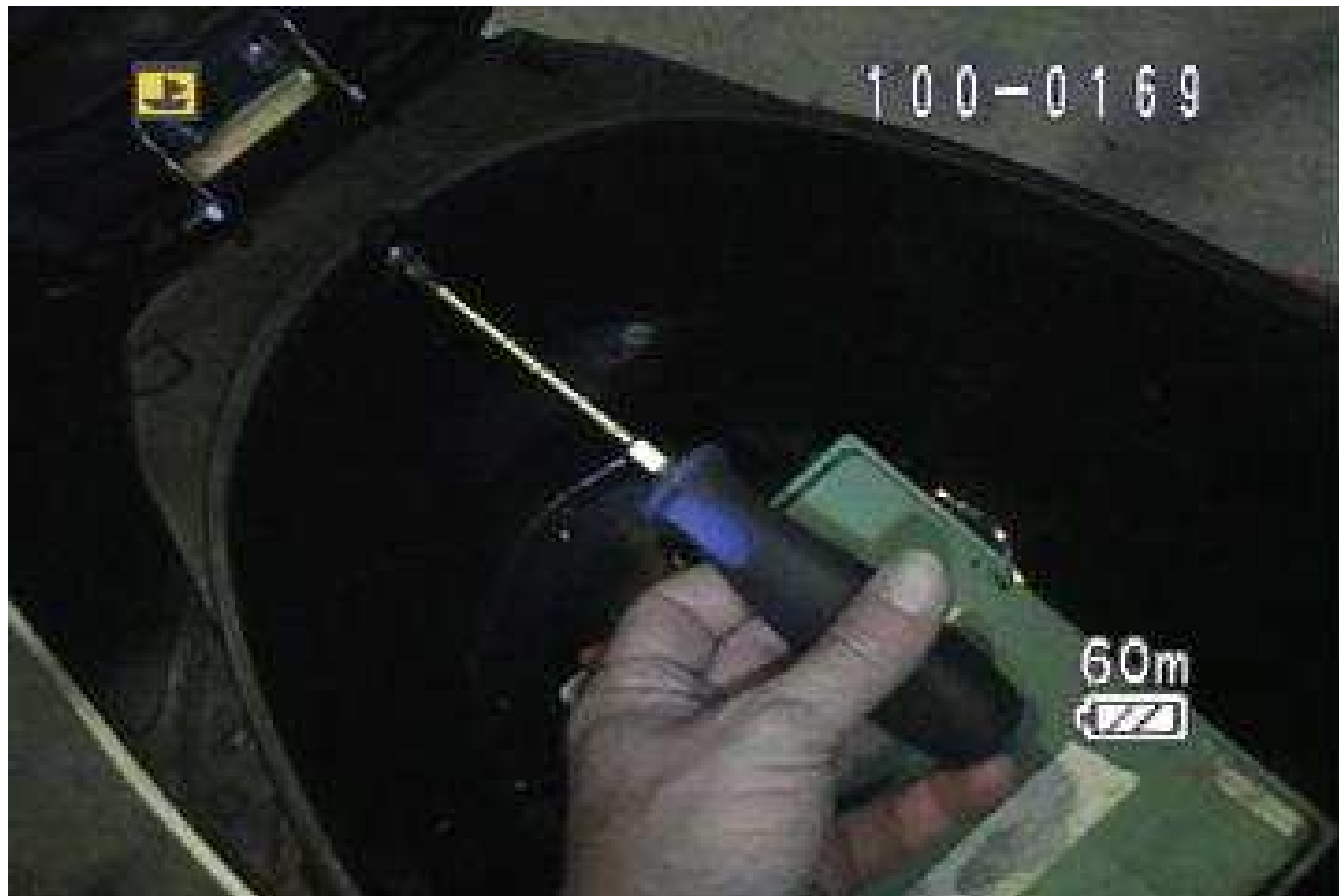
by USATracy



1 – Removing the seat/tower, luggage rack and seat base to gain access to battery compartments and controller. Couple of ways to do this, the hard way, the easy way and the right way, this is one way.



2 – Open the seat and remove the four screws that hold the flat black plastic storage/battery compartment divider plate



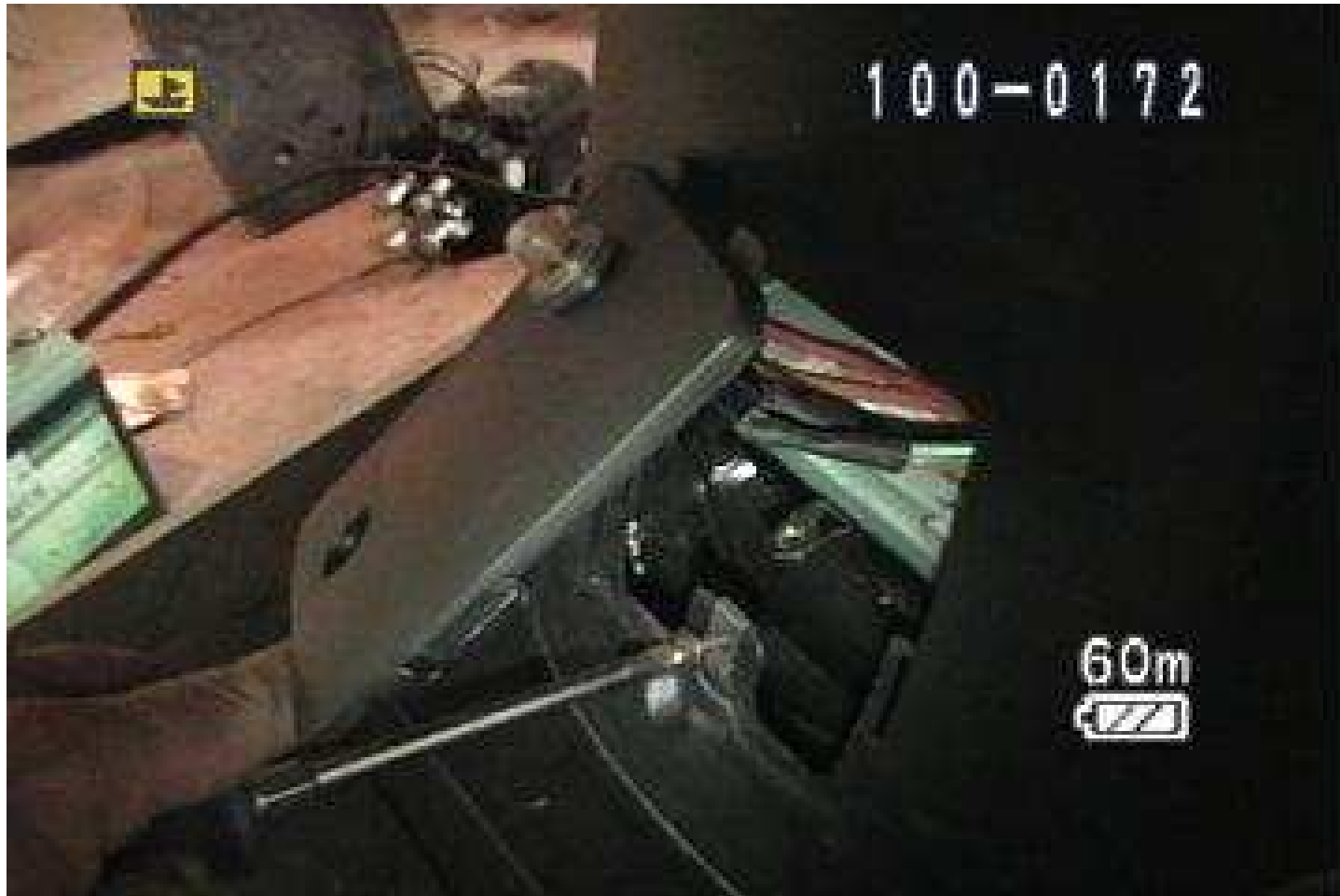
3 – Remove the large head “seat tower” to “seat base” retaining screw



4 – Using a 10mm socket or the 10mm driver that came with your tool kit, remove the two bolts that hold the rear of the seat tower to the seat latch assembly

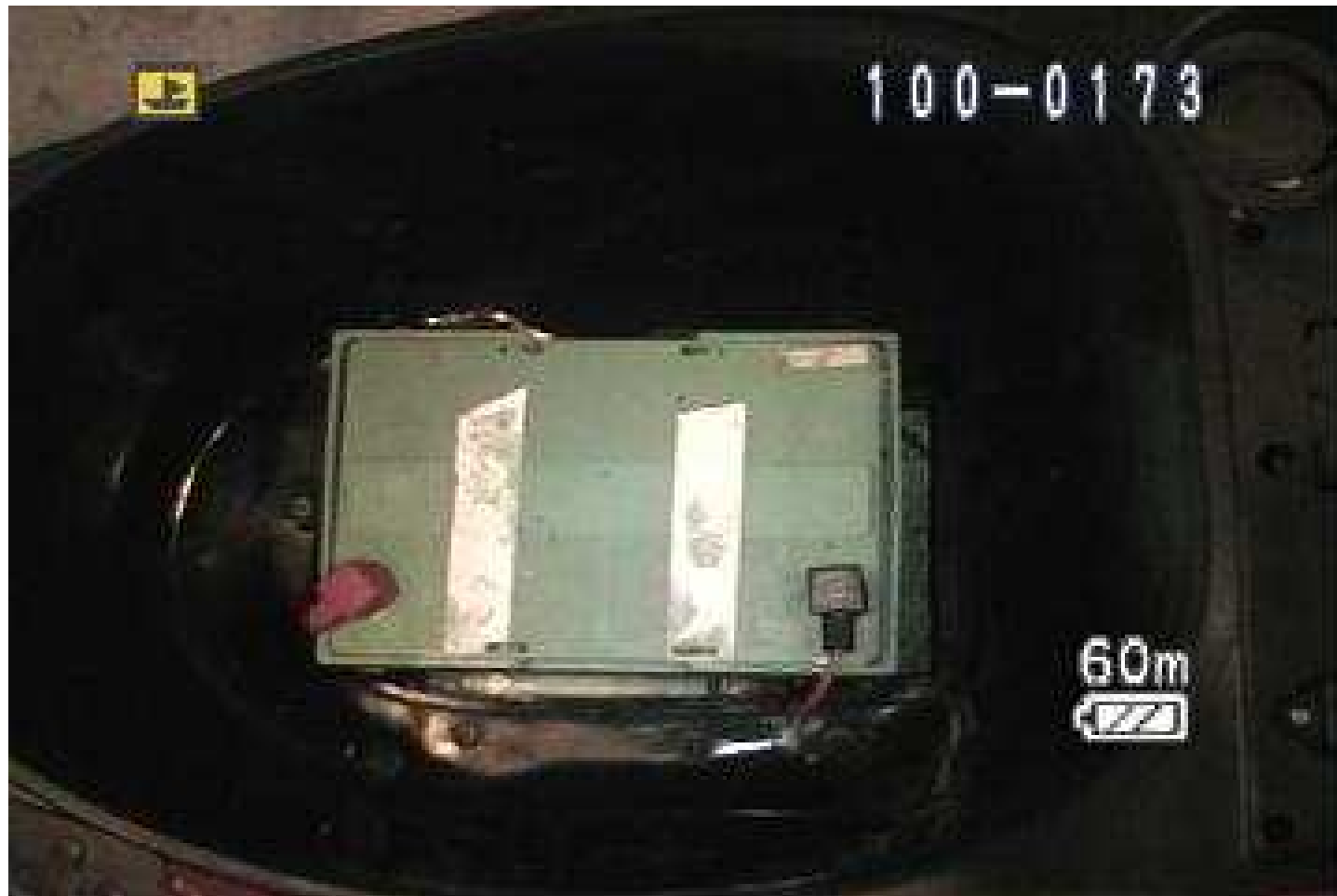


5 – Remove the screw that holds the breaker plate to the seat base, this is located between your feet when seated on the bike.
(If your bike draws more than 60 amps then this breaker may pop out and your motor will not work until you press the breaker stem back in. Wait one minute before resetting.)



6 – Put the screw back in so as not to lose the special nut clip.

When the seat based is removed in a later step, the breaker and the cover will be pushed through the square cutout of the seat base so as not to require disassembly of the breaker from the cover plate.



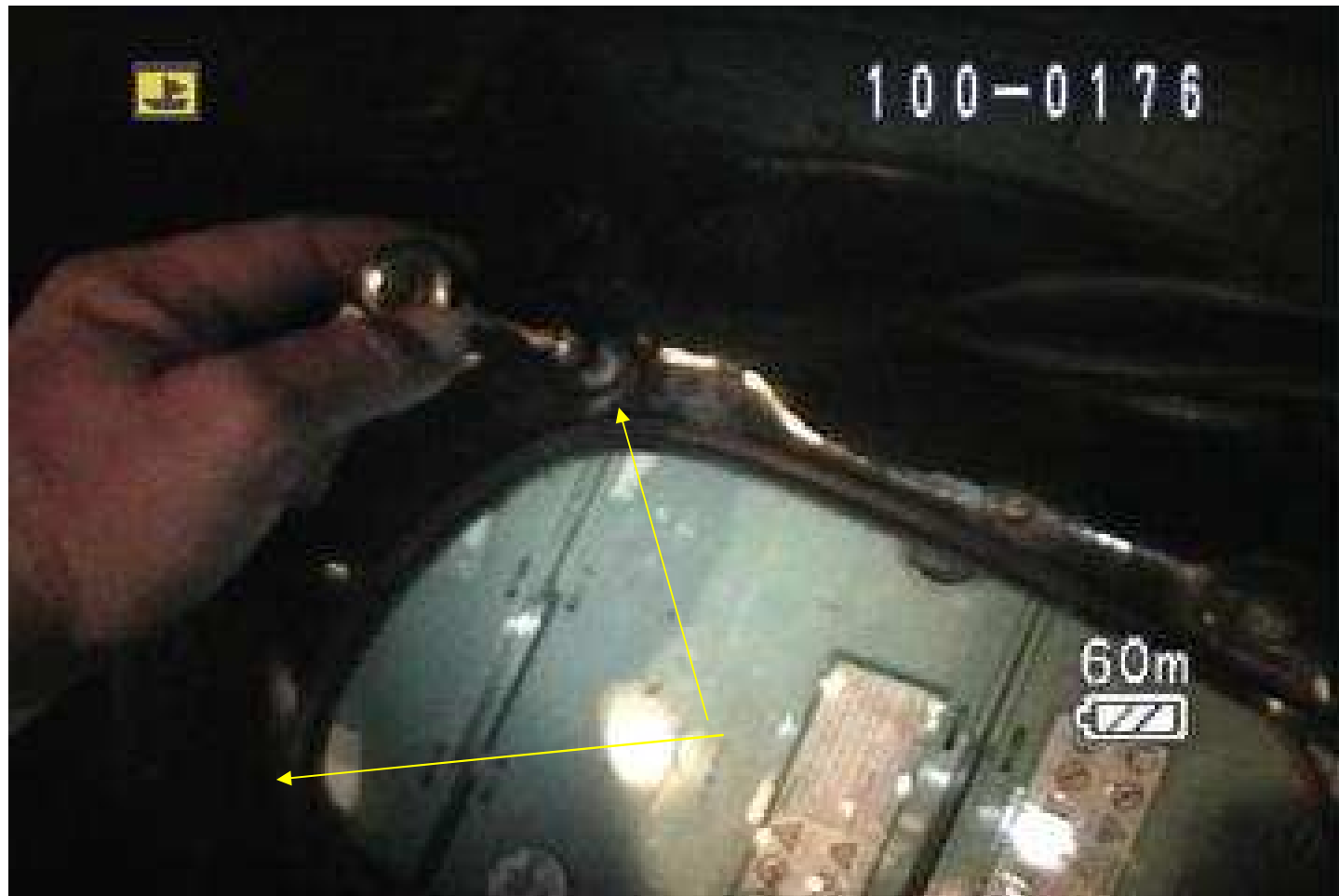
7 – The battery is held onto the batteries below by double sided tape, DO NOT REMOVE the battery by pulling it out, you WILL rip the vent caps off the batteries it is sitting on. Once you have gained access to the battery compartment you can elect to twist this battery loose so future teardowns will allow its removal at this point.



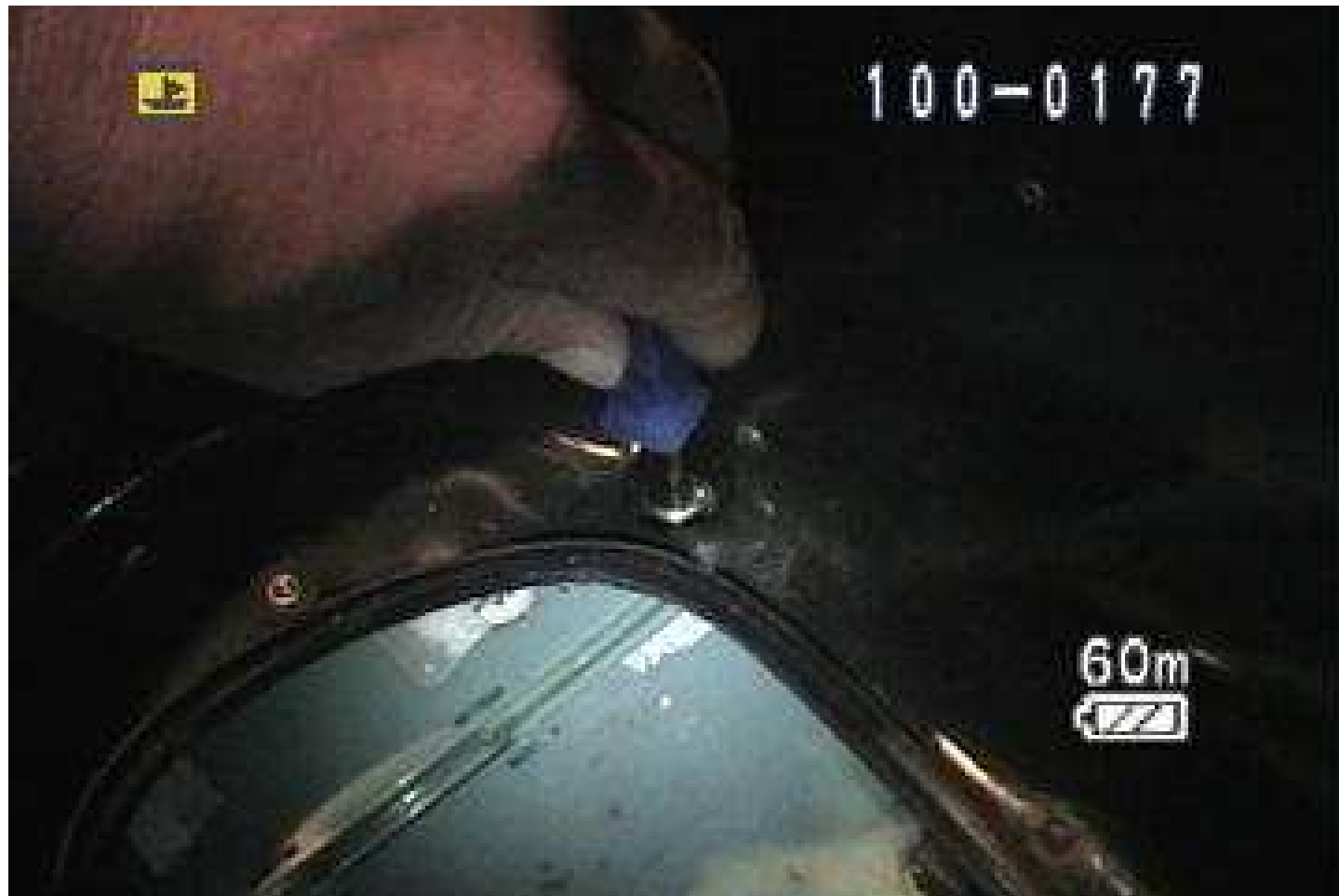
8 – IF YOU HAVE PREVIOUSLY REMOVED THIS BATTERY then remove the terminals.



9 – IF YOU HAVE PREVIOUSLY REMOVED THIS BATTERY then lift the battery out..



10 – Remove the two 10mm nuts that hold the seat tower to the frame, these are located in front of the top battery which has been removed in this photo.



11 – If they are loose, or you broke them loose with a ratchet, the ERATO provide 10mm nut driver comes in handy here



12 – Grab the rear of the seat tower and lift NO MORE THAN one inch.



13 –The front and rear of the seat tower are worked loose. ,You MUST disconnect the charger plug or you will rip out the solder connections to it. There is a plug, it may be hard to get to depending on how much slack there is. Each bike is different depending on how much wire cost in China the day your bike was built ☺



14 –Follow the charger plug wire until you locate the connector.



15 –In RARE cases, it has enough slack to get to it and unplug it.



16 –Typically, you may have to remove this screw and separate the plastic sides a little to give you more room to get to the connector and unplug it.



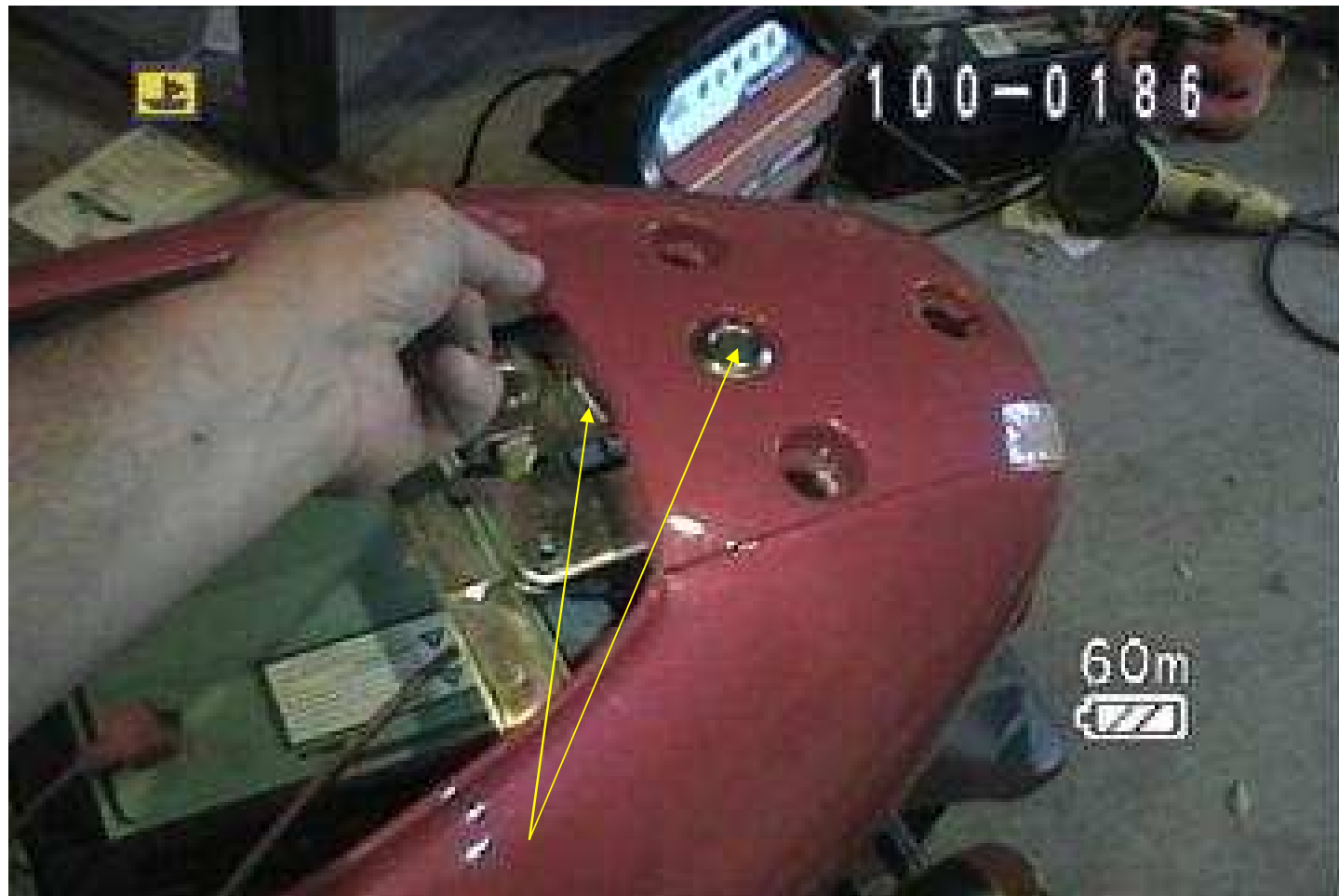
17 –In RARE cases, it is easy to get to and you can disconnect it. Check the solder connections on the charger plug, all this pulling may have pulled them loose. On reassembly, if your charger won't work, then this is probably what has happened.



18 –Now you can lift the seat tower out with the seat still attached.
NOTE: If your battery is still held in by tape, you will have to work things to get this out, but it will come out and go back in with the battery taped in.



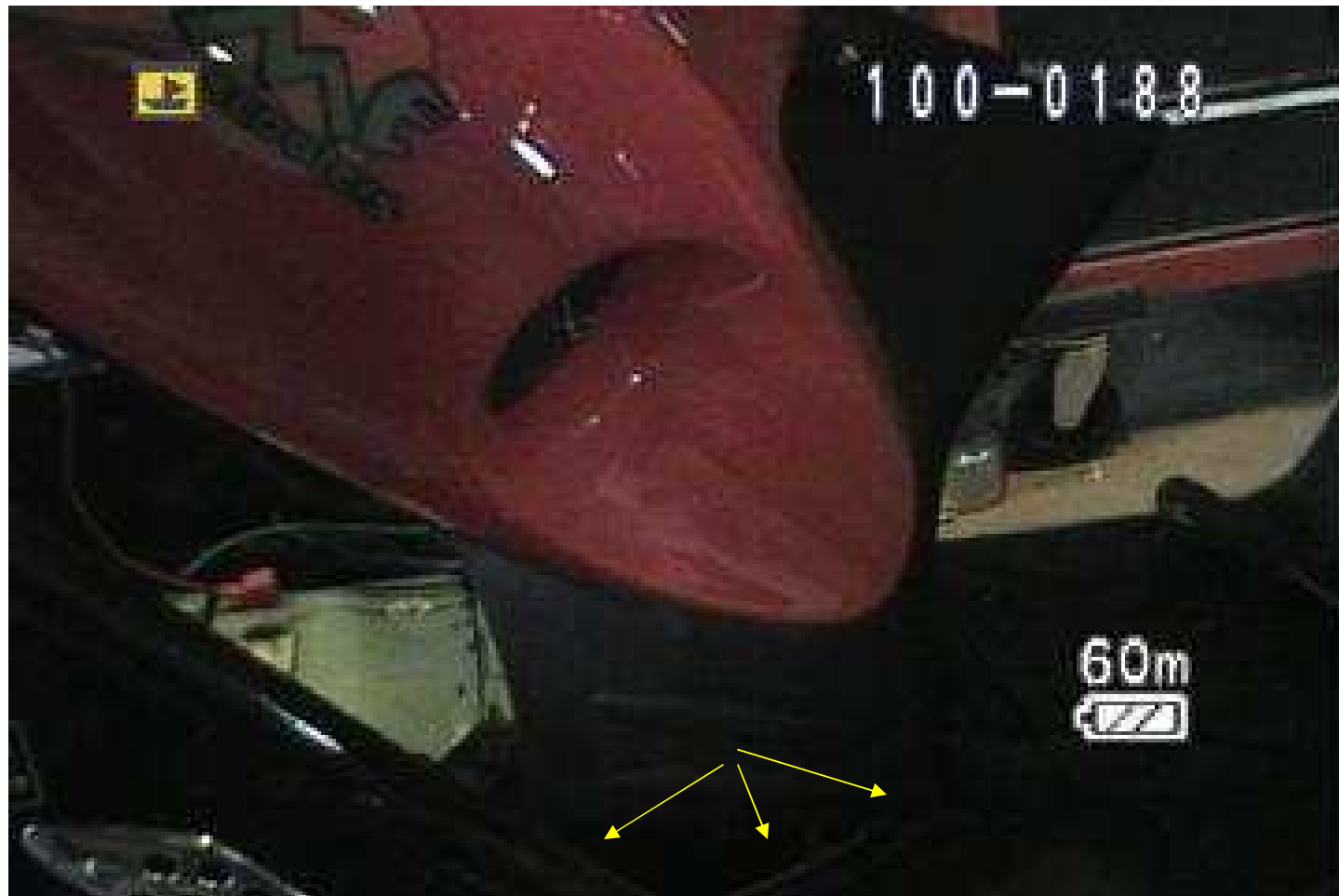
19 –Use a 12mm ratchet and remove the luggage rack.



20 –Grab the colored plastic, red on this bike, and lift up the rear so you are tilting the entire seat base assembly forward as if hinged. Take care to check that the lock assembly is clear as you lift.



21 –Still holding by the colored plastic and lifting up the rear of the seat base as if hinged.



22 –As you tilt forward the black plastic seat base housing that holds the breaker plate should snap out of the black plastic floor of the bike



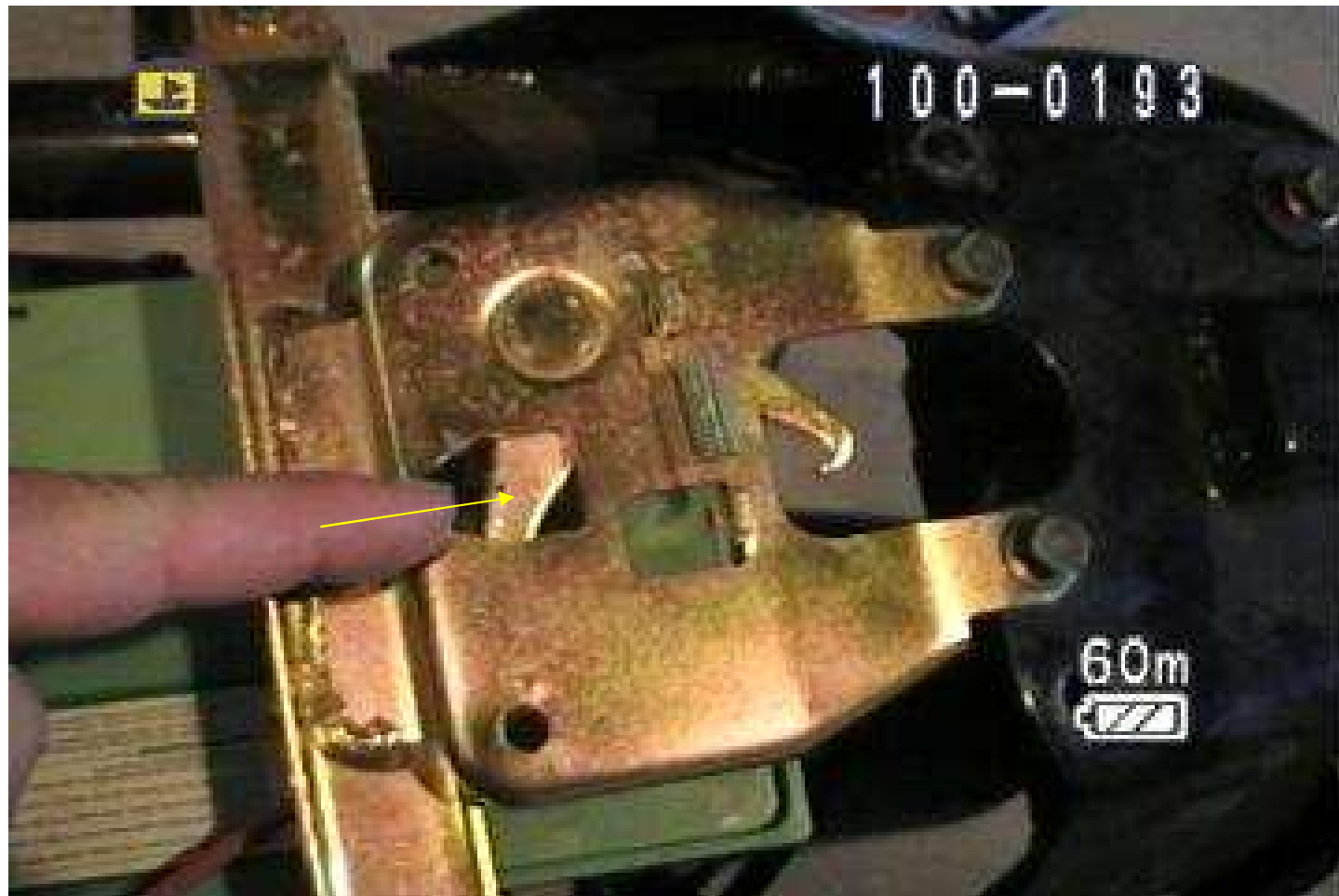
23 –Work the breaker plate housing through the square cutout of the seat base.



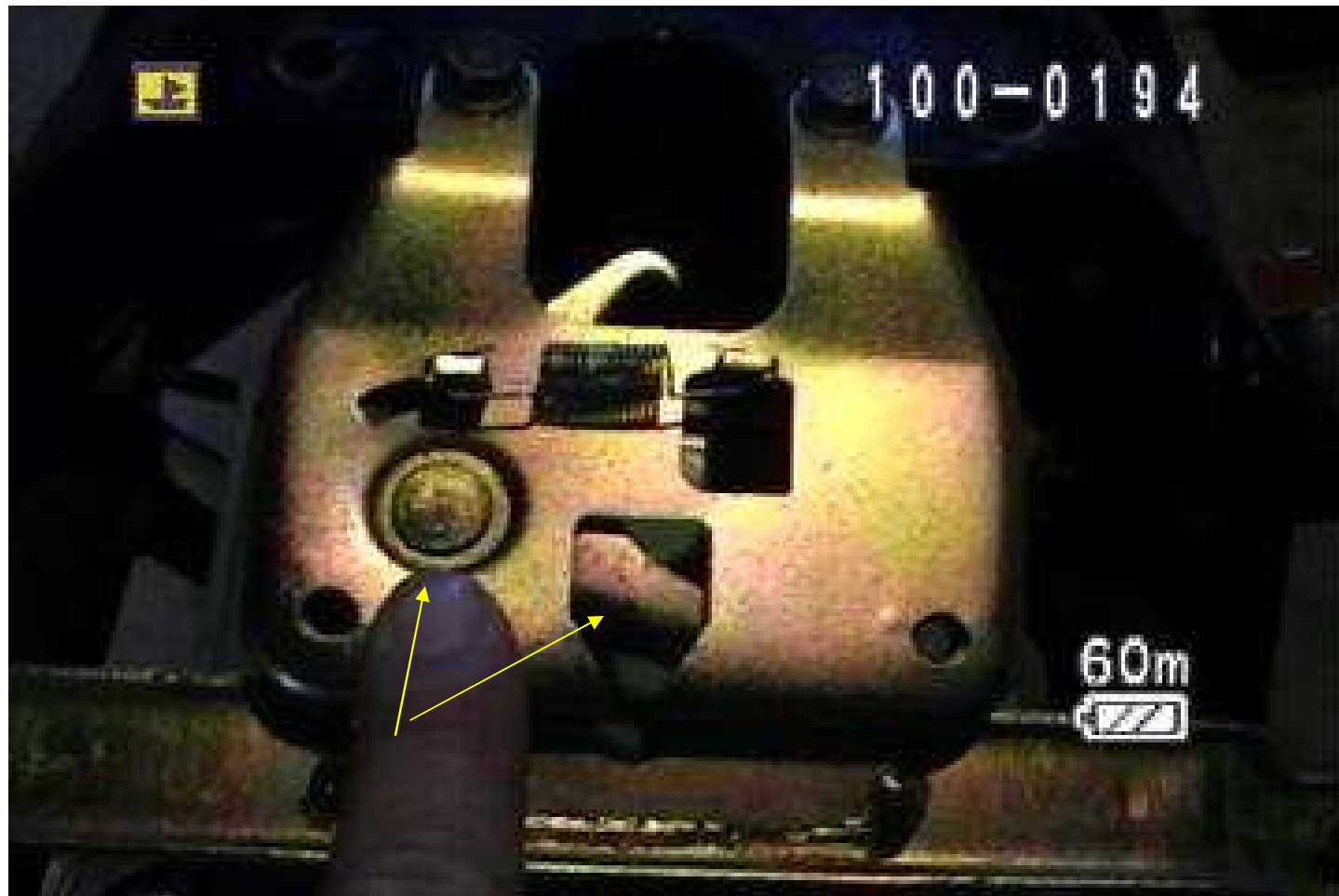
24 – At this point you should have four major components removed. The flat storage/battery compartment area divider , the luggage rack, the seat and tower and the seat base.



24 – If you want to remove the top battery so that it can easily be removed in later tear downs, grab the battery with both hands and twist back and forth until the double sided tape it is sitting on gives way. If you lift or pry it off, you WILL break the vent caps on the bottom batteries.



25 –You should NEVER slam your seat shut to lock it, use the key and open the lock when putting the seat back down, otherwise you WILL bend and break this component off, it is very mild weak steel.



26 –When the latch bends from slamming the seat down, you will also spread and destroy this rivet, you will then need to drill it out, get a special nut and bolt and fabricate a new lever. Easier to use the key when putting the seat back down.



27 –You now have unfettered access to the batteries, controller and wiring. Reassemble in reverse order.