



UNIQUE METAL PRODUCTS

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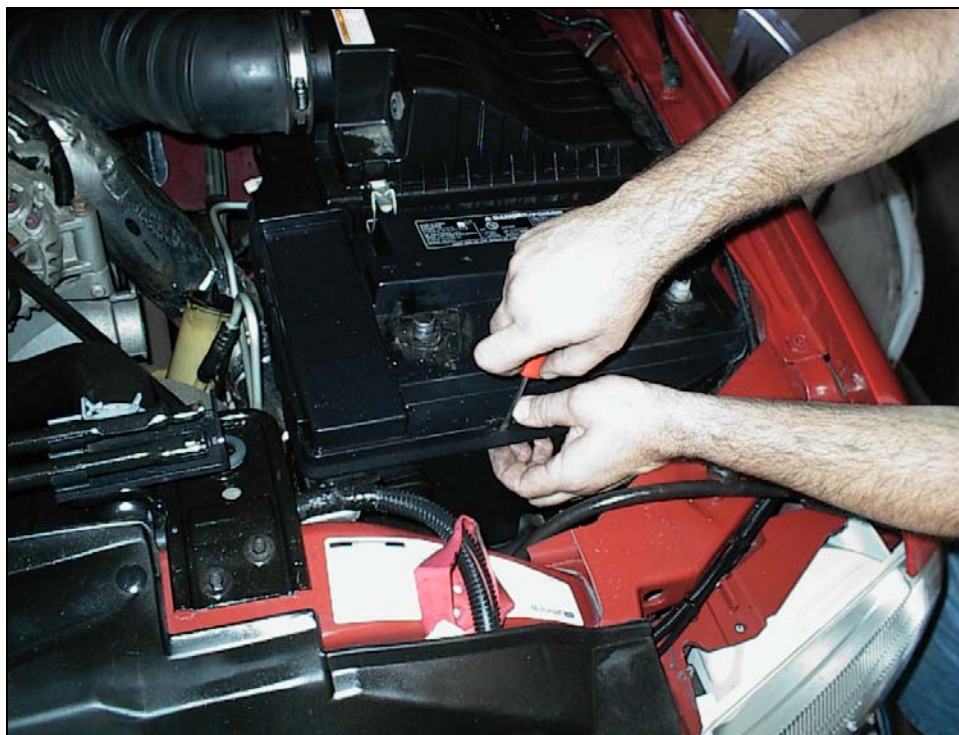
SUPER-DUTY FILTER INSTALLATION INSTRUCTIONS FORD DIESEL POWERSTROKE

1999 TO 2002

F-250 THRU F-550, UMP PART NO. 10940D

INSTALLATION INSTRUCTIONS:

- 1) DISCONNECT NEGATIVE BATTERY CABLES FROM BOTH BATTERIES AND SECURE SO THEY CAN'T TOUCH BATTERY POSTS.**
- 2) REMOVE POSITIVE CABLE FROM DRIVER'S SIDE BATTERY.**



3) UNSNAP BATTERY COVER FROM DRIVERS' SIDE. THIS IS A REAL PAIN, STICKING A SCREWDRIVER IN THE SLOT HELPS.

4) REMOVE BATTERY. SAVE THE BATTERY HOLD DOWN BOLT AND BLOCK. THIS WILL BE REUSED ON THE UMP BRACKET.



- 5) DISCONNECT THE **INTAKE AIR TEMP SENSOR** FROM THE REAR OF THE STOCK AIR BOX LOCATED ON THE BACK OF THE AIRBOX BY THE BRAKE MASTER CYLINDER, REMOVE THE SENSOR AND SAVE, THIS WILL BE REUSED IN THE UMP SUPERFILTER.



6) DISCONNECT THE AIR INTAKE HOSE FROM THE AIR BOX AND REMOVE AIR FILTER LID. PULL OUT THE **FILTER GAUGE** AND SAVE TO BE REUSED.



7) REMOVE THE FOUR BOLTS INSIDE THE BATTERY BOX...

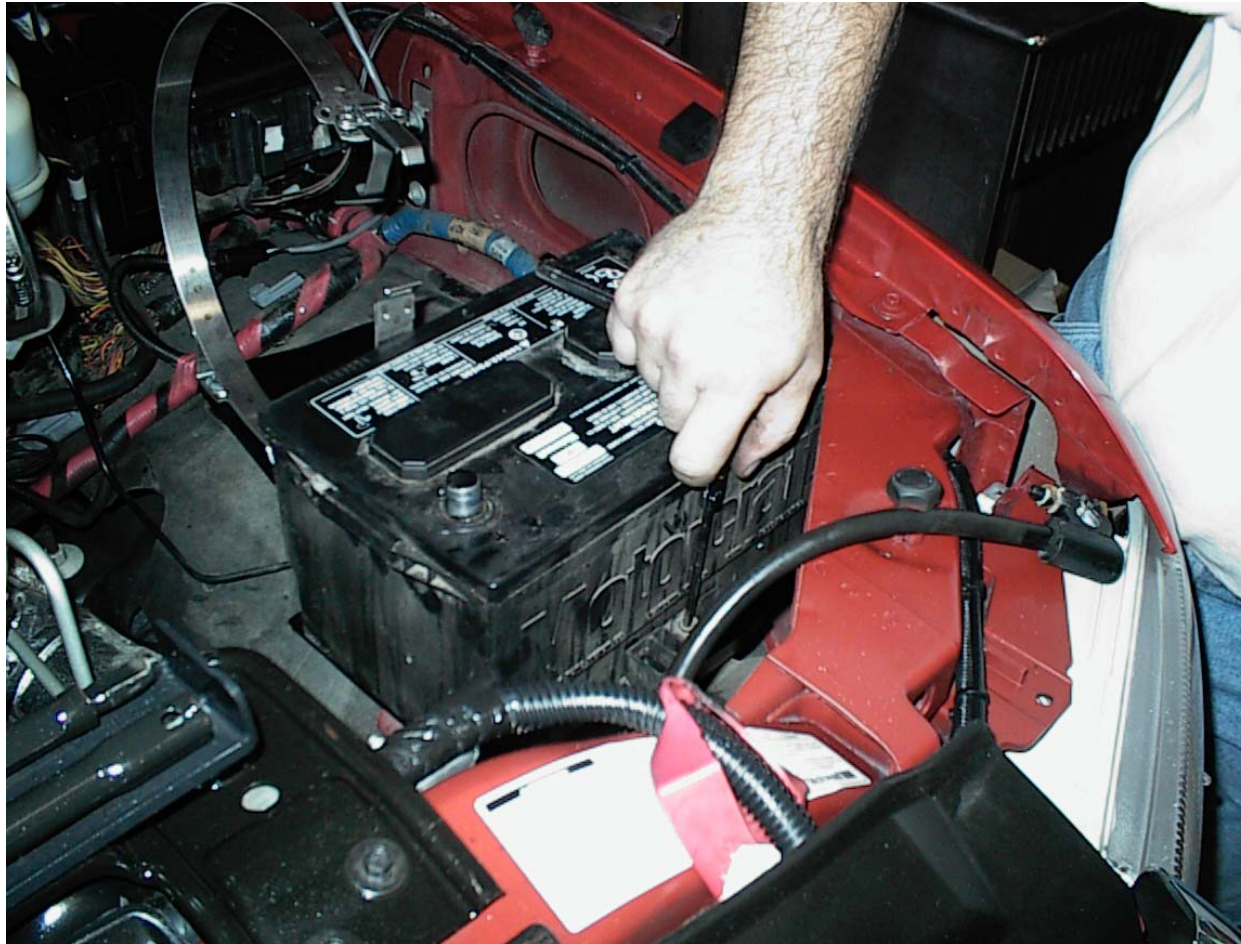


...AND LIFT OUT THE ENTIRE PLASTIC BATTERY/AIR BOX ASSEMBLY.

- 8) UNLATCH QUICK RELEASE CLAMP ON THE UMP SUPERFILTER
AND SET FILTER HOUSING ASIDE FOR NOW.**



9) INSTALL THE UMP BATTERY TRAY IN THE STOCK LOCATION USING THE FORD BOLTS IN THE FENDER HOLES AND THE SUPPLIED COUNTERSUNK ALLEN BOLTS IN THE BATTERY TRAY.

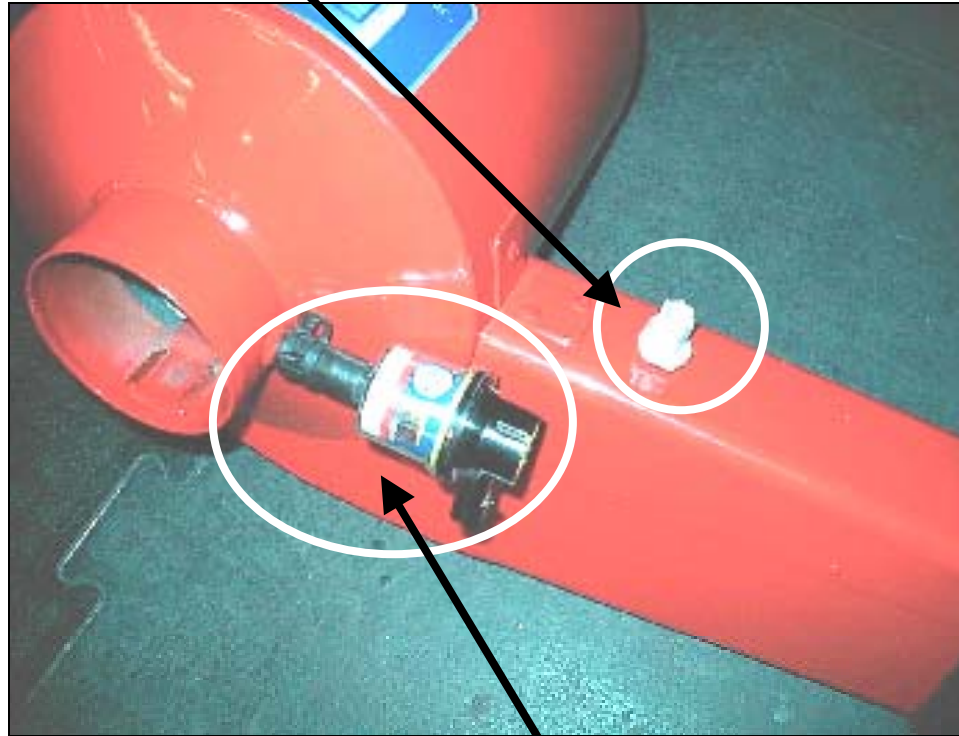


10) INSTALL THE BATTERY USING THE STOCK HOLD DOWN BOLT REMOVED EARLIER. THE BATTERY CABLES CAN NOW BE RECONNECTED, GROUNDS FIRST THEN POSITIVES. IF THE VEHICLE HAS ANY ACCESSORY CABLES TO THE POSITIVE SIDE THEY SHOULD BE RE-ROUTED NOW TO RUN UNDER THE SNORKEL OF THE NEW FILTER CANISTER. THIS WILL MAKE FILTER MAINTENANCE MUCH EASIER WHEN IT IS TIME FOR SERVICE. MAKE SURE THE COVER IS INSTALLED ON THE POSITIVE CABLE. THE SNORKEL ON THE UMP SUPERFILTER COMES VERY CLOSE TO THIS WHEN SLIDING IT IN.



11) SLIDE THE PROVIDED RUBBER BELLOWS OVER THE INTAKE SNORKEL ABOUT HALFWAY. THIS WILL SEAL THE AIR INTAKE TO THE CORE SUPPORT AFTER INSTALLATION.

12) INSTALL THE **INTAKE AIR TEMP SENSOR** IN THE INTAKE SNORKEL USING THE THICKER O-RING PROVIDED.



INSTALL THE **FILTER GAUGE** INTO THE HOSE PROVIDED ON THE INTAKE TUBE. PLUG IN THE SUPPLIED EXTENSION CABLE INTO THE STOCK WIRE LOOM FOR THE INTAKE AIR TEMP SENSOR AND SET ASIDE FOR NOW.



13) INSTALL THE FILTER ASSEMBLY CAREFULLY FEEDING THE RUBBER BELLOWS THROUGH THE STOCK HOLE NEXT TO THE RADIATOR. LIFT UP THE RUBBER FLAP IN FRONT OF THE CORE SUPPORT TO INSURE THE BELLOWS IS NOT PINCHED OFF OR FOLDED OVER.



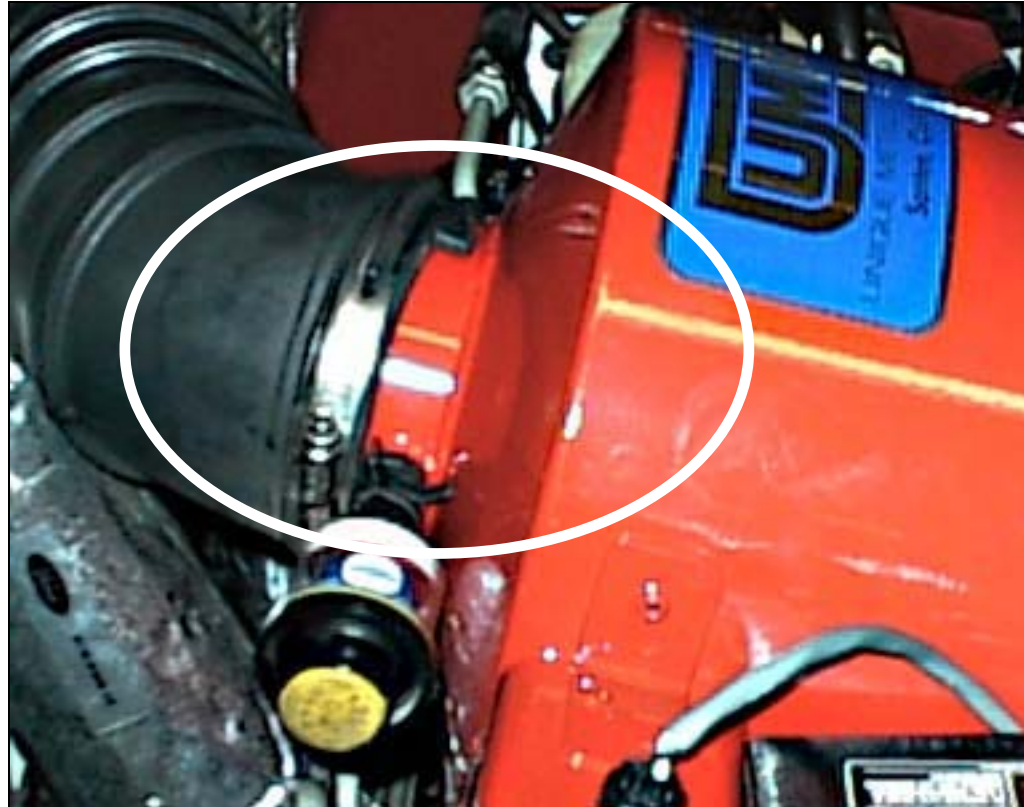
BEFORE THE FILTER CANISTER IS SEATED INTO THE CLAMP, START THE INTAKE HOSE ON TO THE NEW FILTER. IT IS A LITTLE TRICKY HOLDING THE FILTER UP SLIGHTLY AND GETTING THE HOSE STARTED.



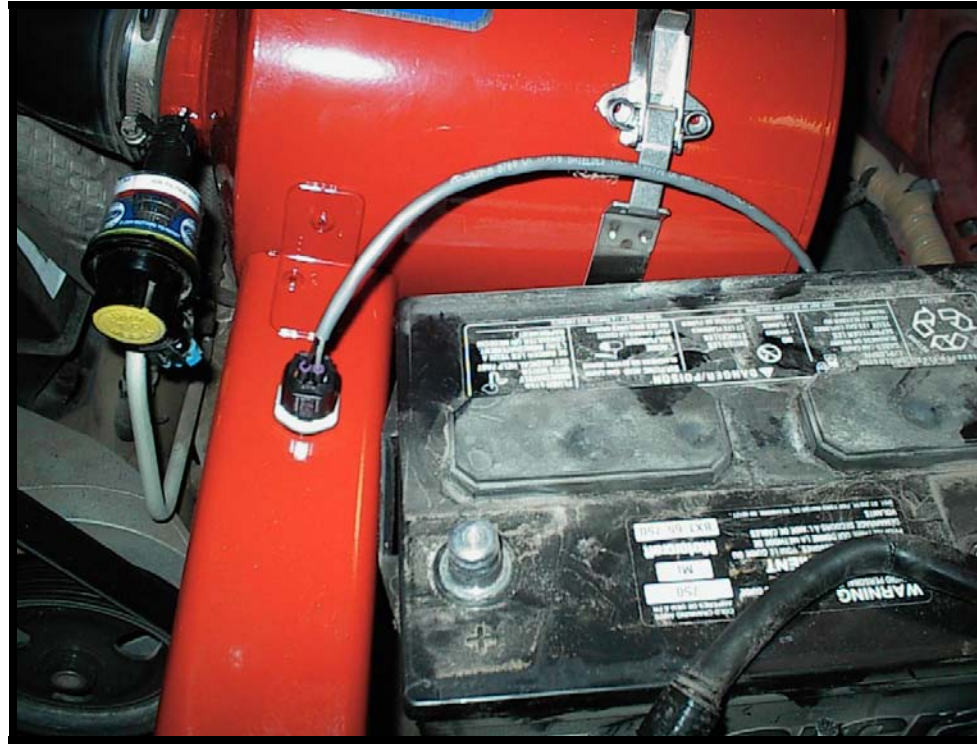
AFTER THE HOSE IS STARTED, THE FILTER CAN BE PUSHED DOWN FULLY INTO THE CLAMP. SNAP THE BAND CLAMP CLOSED.



THE INTAKE HOSE WILL BE HARD AGAINST THE INTER COOLER PIPE AND WHILE THIS IS NOT THE BEST, IT HAS BEEN SHOWN TO BE NO PROBLEM IN TESTING. IF YOU ANTICIPATE FREQUENT FILTER MAINTENANCE, PUT SOME ANTI- SEIZE ON THE STOCK FORD HOSE CLAMP THREADS TO PREVENT GALLING OF THE STAINLESS STEEL CLAMP.



THE INTAKE HOSE IS BEST LEFT AT AN ANGLE ON THE OUTLET TUBE OF THE NEW FILTER AS IT HELPS TURN THE CORNER TOWARDS THE TURBO.



14) SAFELY ROUTE THE **EXTENSION LOOM** FOR THE INTAKE AIR TEMP SENSOR AND PLUG ON TO THE SENSOR. FAILURE TO DO THIS CAN CAUSE THE "CHECK ENGINE" LIGHT TO COME ON. IF YOU FORGET THIS AND THE LIGHT COMES ON, DON'T WORRY. DRIVING THE TRUCK FOR A WHILE AFTER PLUGGING IN THE SENSOR WILL CLEAR THE LIGHT.

15) INSTALLATION OF YOUR UMP SUPERFILTER IS NOW COMPLETE, YOU SHOULD SEE A DRAMATIC INCREASE IN FILTER LIFE WHICH WILL INCREASE PERFORMANCE AND MILEAGE AND EXTEND YOUR MAINTANANCE SCHEDULE. FOR FILTER REPLACEMENT OR ADDITIONAL INFORMATION, CONTACT US AT UMP, (619) 449-9690.

FILTER ELEMENT REPLACEMENT:

UMP RECOMMENDS SERVICING YOUR ELEMENT WHEN THE FILTER MINDER SHOWS 25% OR GREATER, MILEAGE TO THIS POINT WILL BE DETERMINED BY THE CONDITIONS THE TRUCK HAS BEEN IN. WE ARE GETTING REPORTS OF UP TO FIVE TIMES THE LIFE OF A STOCK AIR BOX AND ELEMENT. MANY TIMES IT IS POSSIBLE TO TAP OUT THE DUST FROM YOUR ELEMENT AND CAREFULLY BLOW THE ELEMENT OUT FROM THE INSIDE. IF YOU CAN SHINE A FLASHLIGHT THROUGH FROM THE INSIDE AND STILL SEE LIGHT YOU CAN GET SOME MORE MILES OUT OF THE ELEMENT, IF NOT IT IS TIME FOR A NEW ONE. REPLACEMENT ELEMENTS ARE AVAILABLE FROM US OR THERE SHOULD BE A HEAVY EQUIPMENT SUPPLIER IN YOUR AREA.

- 1) LOOSEN HOSE CLAMP ON INTAKE HOSE AT CANISTER.**
- 2) UNPLUG WIRE FROM AIR TEMP. SENSOR**
- 3) REMOVE BOLT OR UNLATCH QUICK RELEASE CLAMP FROM CANISTER.**
- 4) LIFT ENTIRE FILTER CANISTER OUT OF TRUCK.**
- 5) REMOVE END CAP BY LOOSENING WING NUT, THE WING NUT IS SNAPPED INTO THE END CAP AND THEY WILL BOTH COME OUT TOGETHER.**
- 6) SLIDE OFF SPACER AND REMOVE INNER WING NUT AND RUBBER BACKWASHER AND SAVE, THIS WILL BE RE-USED.**
- 7) REMOVE ELEMENT AND CLEAN THE INSIDE OF THE FILTER CANISTER, PAY SPECIAL ATTENTION TO THE SEALING AREA WHERE THE ELEMENT'S RUBBER SEAL SEATS INSIDE THE CANISTER, THIS IS THE ONLY PLACE WHERE DIRT CAN GET PAST THE ELEMENT.**
- 8) MAKE SURE THE RUBBER SEAL IS CLEAN AND IN GOOD CONDITION AND SLIDE THE ELEMENT BACK INTO THE HOUSING, ENSURING THAT THE ELEMENT REMAINS CENTERED (LOOK INTO OPPOSITE END). INSTALL THE RUBBER SEALING WASHER AND TIGHTEN THE WING NUT ENOUGH TO FULLY SEAT THE RUBBER SEAL OF THE ELEMENT.**
- 9) INSTALL THE SPACER AND THE END CAP WITH THE DUST EVACUATION VALVE POINTING DOWN WHEN FILTER CANISTER IS IN THE TRUCK. RE-SET THE FILTER MINDER IF REQUIRED BY PUSHING THE YELLOW END CAP OF THE GAUGE.**
- 10) SERVICING OF THE FILTER CANISTER IS NOW COMPLETE, FOLLOW THE INSTALLATION INSTRUCTIONS AND RE-INSTALL THE ASSEMBLY IN THE TRUCK.**