ATK646
Drive Motor Board with Harness
INSTALLATION INSTRUCTIONS

1. Unplug the power cord to the unit before proceeding.
2. Remove or stand the developer and fixer racks on their sides. Remove the **Electrical Compartment Cover** by removing the two (2) **Mounting Screws**. (See Figure A.)
3. Remove the **Gear Cover** by removing the two (2) **Mounting Screws** (See Figure A).
4. Remove the **Water Level Sensor** (RPI Part #ATS641) from the **Drive Block Assembly.** Unplug Connector #J5 from the Base PC board (RPI Part #ATB643). Unplug Motor Drive Harness Connector #J6 from the Base PC board. (See Figure A.)
5. Remove the seven (7) Drive Block **Mounting Screws** (See Figure A).
6. Remove **Drive Block Assembly** by pulling upwards. Note: Do not remove the **Water Inlet Tube**, simply straighten the tube at the bend while removing the **Drive Block Assembly**.
7. Remove the **Drive Motor Board** from the motor by using the enclosed Torx® T20 wrench or a Philips screwdriver. Note the position in which the PC board is mounted before it is removed so that it can be replaced in the same position (See Figures B and C).
8. Remove the cable tie, blue capacitor wire and green ground wire. Cut the white motor wire at the butt connector (RPI Part #RPB011). Rewire the new harness according to Figure B.
9. Remove the **Mounting Bracket** from the old **Drive Motor Board** and remount it on the new board (See Figure B). Mount the new board to the motor but do not tighten the mounting screws yet.
10. Position the **Drive Motor Board** so that the Optic Sensor Wheel is centered with the Optic Sensor then tighten the mounting screws. Mount the enclosed Cable Tie (RPI Part #RPT278) in the same position as the old cable tie. Using the two (2) smaller Cable Ties (RPI Part #RPT083), gather the excess wires to clear the Optic Sensor Wheel. Replace the Drive Block Assembly, carefully feeding the water inlet tube through the assembly.
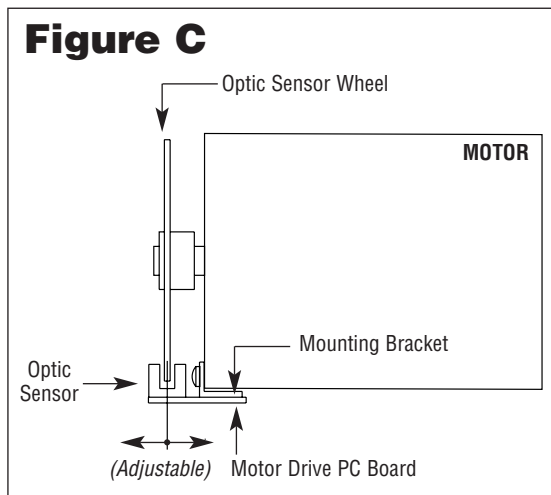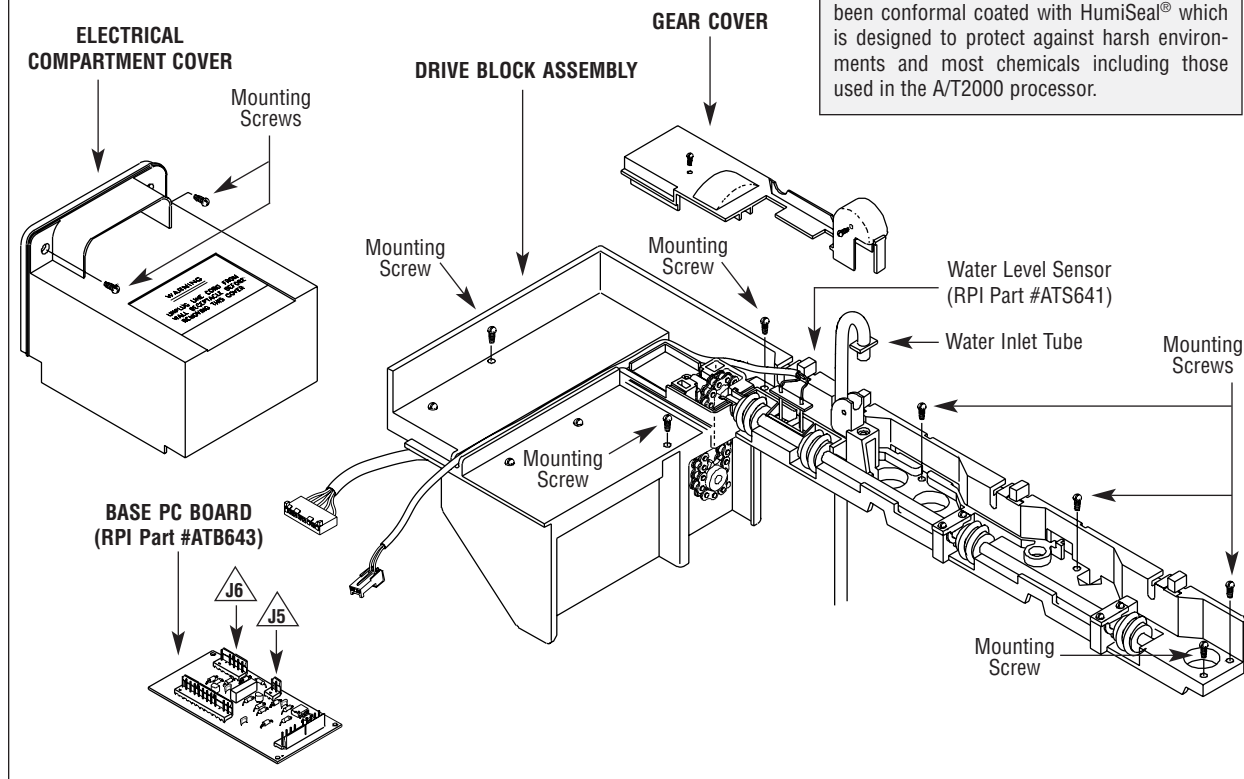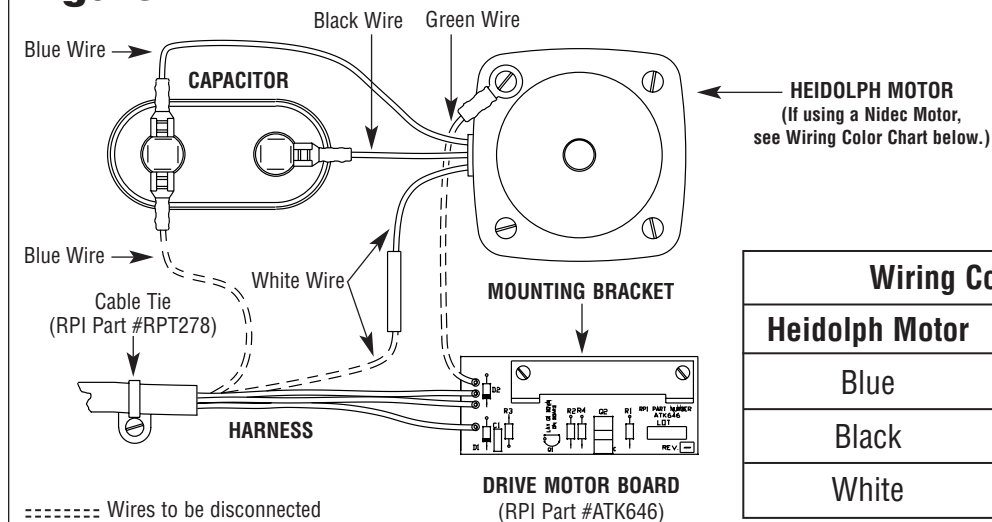11. To complete the installation, reassemble the remaining components.

THANK YOU FOR CHOOSING RPI FOR YOUR REPLACEMENT PARTS NEEDS.

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Figure A

RPI Value Added Treatment of PC Boards
The Motor Drive Board (RPI Part #ATK646) and the Base PC Board (RPI Part #ATB643) have been conformal coated with HumiSeal® which is designed to protect against harsh environments and most chemicals including those used in the A/T2000 processor.

ELECTRICAL COMPARTMENT COVER
GEAR COVER
DRIVE BLOCK ASSEMBLY
Mounting Screws
Mounting Screw
Mounting Screw
Water Level Sensor (RPI Part #ATS641)
Water Inlet Tube
Mounting Screws
Mounting Screw
BASE PC BOARD (RPI Part #ATB643)
J6
J5
Mounting Screw

Figure C

Optic Sensor Wheel
MOTOR
Optic Sensor
Mounting Bracket
(Adjustable) Motor Drive PC Board

Figure B

Blue Wire
Black Wire   Green Wire
CAPACITOR
HEIDOLPH MOTOR
(If using a Nidec Motor, see Wiring Color Chart below.)
Blue Wire
White Wire
MOUNTING BRACKET
Cable Tie (RPI Part #RPT278)
HARNESS
DRIVE MOTOR BOARD (RPI Part #ATK646)
======== Wires to be disconnected

Wiring Color Chart	
Heidolph Motor	**Nidec Motor**
Blue	Blue
Black	Yellow
White	Red