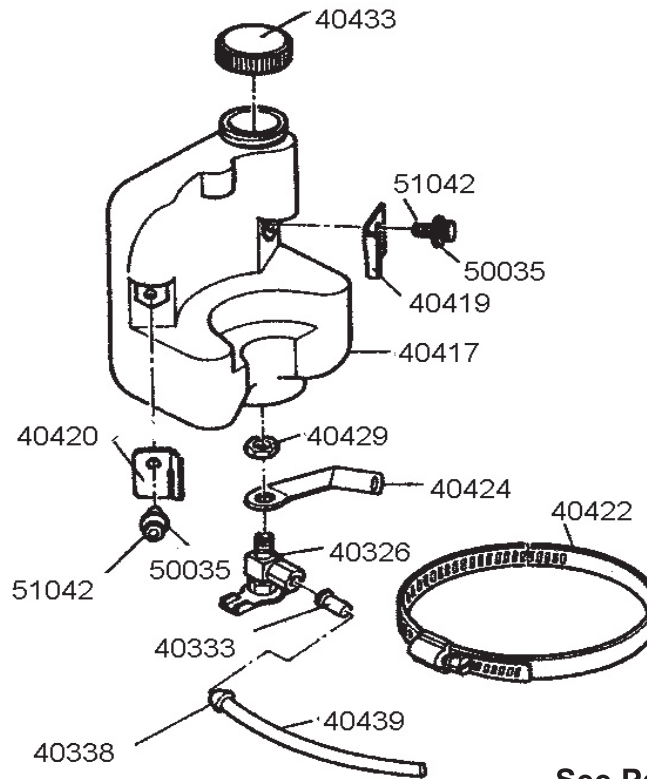


COOLANT BOTTLE ASSEMBLY - P/N: 40442



See Parts List on Page 15

Checking Operation of Automatic Cutting Fluid Inducer

Note: The automatic cutting fluid inducer system works on a gravity flow basis. Therefore, it is only effective when the drill is mounted on a horizontal or slightly inclined work surface.

1. With Magnetic Drill in operation position, turn feed handle so that the cutter and pilot are above the work surface.
2. Fill cutting fluid bottle with cutting fluid.
3. To test automatic cutting fluid inducer (with the magnet ON and motor OFF), feed the arbor gently toward the work surface until the pilot is pushed up into the cutter. Open the needle valve until fluid is visible filling the plastic tube. Fluid should filter down onto the work surface through the groove in the pilot.
4. To insure proper cutter lubrication, always make sure that the slot in the pilot is kept clean from residual buildup.

Checking Operation of Cutting Fluid Arbor Reservoir (10914S)

1. With magnetic drill in operating position, turn feed handle so that cutter and pilot are above the work surface.
2. With magnet turned ON and Motor OFF, fill reservoir by introducing cutting fluid through slots in Arbor. Cutting fluid should not leak out.
3. Test metering capabilities of Arbor/Cutter/ Pilot assembly (magnet ON-motor OFF) by feeding the Arbor gently toward work surface until pilot is pushed up into Cutter, thus allowing fluid to filter down onto work surface through groove in pilot.
4. For proper lubrication, all cutting fluid in reservoir should empty onto work surface in no less than 15 seconds and no more than 30 seconds.

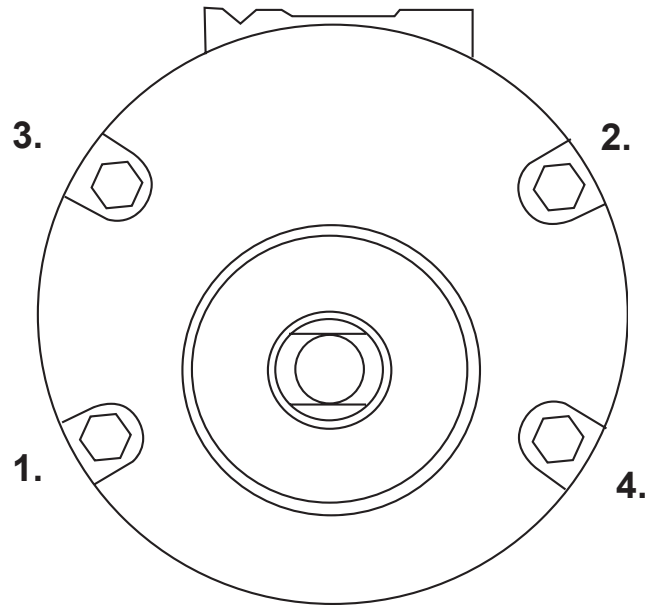
This diagram is an exploded view of a mechanical assembly, showing various components and their relative positions. The components are labeled with reference numerals:

- 40258**: A long, thin rectangular plate.
- 40450**: A small, tapered pin or plug.
- 40285**: A small, cylindrical pin.
- 40286**: A small, coiled spring.
- 40289**: A small, rectangular block.
- 40287**: A small, rectangular block.
- 40261**: A large, cylindrical component with a flange.
- 40292**: A small, cylindrical pin.
- 40262**: A small, rectangular block.
- 40263**: A small, rectangular block.
- 40290**: A small, rectangular block.
- 40264**: A small, rectangular block.
- 40441**: A large, rectangular component with a circular opening.
- 40445**: A small, rectangular block.
- 40449**: A small, rectangular block.
- 40260**: A large, rectangular component with a circular opening.
- 40284 (115V)**: A large, rectangular component with a circular opening.
- 40384**: A small, rectangular block.
- 40382**: A small, rectangular block.
- 40383**: A small, rectangular block.
- 40265**: A small, rectangular block.
- 40266**: A small, rectangular block.
- 40267**: A small, rectangular block.
- 40269**: A small, rectangular block.
- 40276**: A small, rectangular block.
- 40349**: A small, rectangular block.
- 40271**: A small, rectangular block.
- 40273**: A small, rectangular block.
- 40298**: A small, rectangular block.
- 40274**: A small, rectangular block.
- 40275**: A small, rectangular block.
- 40270**: A small, rectangular block.
- 40348**: A small, rectangular block.
- 40280**: A small, rectangular block.
- 40279**: A small, rectangular block.
- 40281**: A small, rectangular block.
- 40268**: A small, rectangular block.

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Motor Bolt Sequence

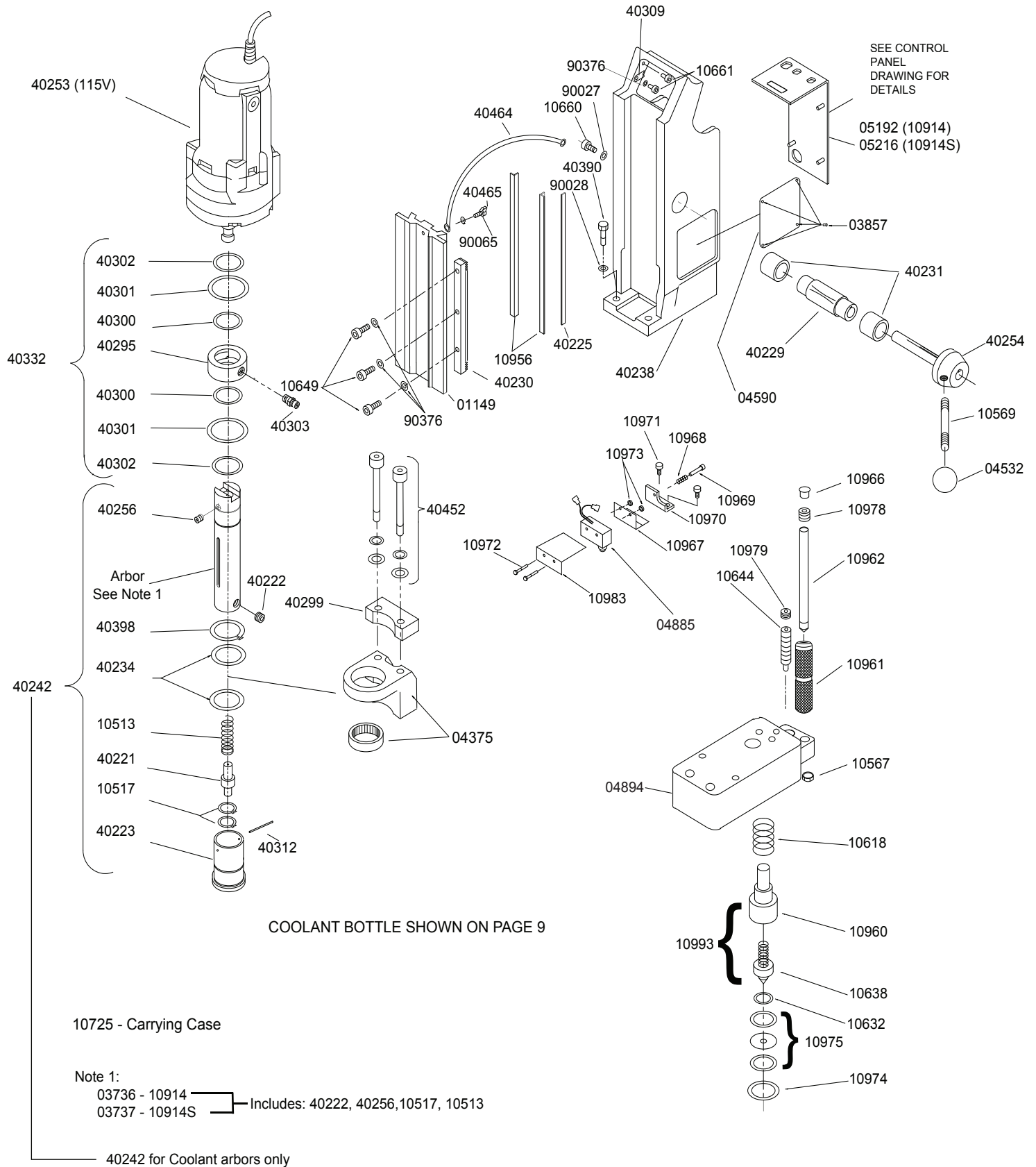
1. Tighten bolts in the sequence shown to 5 - 10 in/lb.
2. Retighten bolts in the same sequence to 35 - 40 in/lb.



Motor Parts List

Part #	Description	Qty	Part #	Description	Qty
40258	Motor Cord	1	40281	Motor Slug	1
40260	Housing, Brush End	1	40284	Field Assy 115V	1
40261	Armature Assy 115V	1	40285	Brush Plug	2
40262	Bearing	2	40286	Brush	2
40263	Flat Spring	1	40287	Brush Holder	2
40264	Seal	1	40289	Screw #10-32 x 1/4"	2
40265	Flat Spring	1	40290	Washer	1
40266	Washer	1	40292	Retaining Ring	1
40267	Bearing	2	40298	Screw 1/4-20 x 3-1/2"	4
40268	Gear Housing	1	40348	Seal	1
40269	Gear Cluster	1	40349	Plug	1
40270	Gasket	1	40350	Syntech grease	8 oz.
40271	Cap. Gear Housing	1	40382	Baffle	1
40273	Lock Washer 1/4"	4	40383	Screw #10-32	2
40274	Bearing	1	40384	Baffle Spacer	2
40275	Flat Spring	2	40441	End Cap	1
40276	Gear Output	1	40445	Strain Relief	1
40279	Bearing	1	40449	Spacer	2
40280	Ball	1	40450	Screw #10-32 x 1"	2
			90424	Brush Holer Clip	2

MODEL 10914(S) EXPLODED VIEW



PARTS LIST

Part #	Description	Qty	Part #	Description	Qty
03736	Arbor 10914	1	40230	Gear Rack	1
03737	Arbor 10914S	1	40231	Bushing Bronze	2
04375	Arbor Sup. Bracket Assy	1	40234	Thrust Washer	2
04532	Feed Handle Knob	3	40237	Set Screw 1/4-28	5
04590	Warning Label	2	40238	Housing	1
04885	Safety Switch	1	40242	Arbor Assy (Coolant)	1
04894	Magnet	1	40253	Motor 115V	1
05192	Control Panel (10914)	1	40254	Hub Assy	1
05116	Control Panel (10914S)	1	40256	Set Screw 5/16-18	1
10513	Arbor Spring	1	40294	Motor Slide	1
10517	Retaining Ring	1	40295	Inducer	1
10567	Jamb Nut	1	40297	Screw-Slotted Hex	4
10569	Feed Handle	3	40299	Arbor Support Brkt	1
10618	Safety Switch Spring	1	40300	O-Ring	2
10632	Retaining Ring	1	40301	Thrust Washer	2
10638	Safety Switch Brg Assy	1	40302	Retaining Ring	2
10644	Glide Post	1	40303	Coolant Fitting	1
10649	Screw SHC #10-32	3	40304	Tubing 1/4" OD	1
10660	Screw SHC 1/4-20 x 5/8	1	40309	Cord Clamp	1
10661	Screw BHC #10-24	2	40312	Roll Pin-Modified	1
10725	Carrying Case	1	40326	Cutting Fluid Valve	1
10956	Brass Gibbs-Pair	1	40332	Inducer Assy	1
10960	Plunger body	1	40333	Brass Insert	1
10961	Slide Hammer	1	40338	Nylon Ferrule, 1/4" Tube	1
10962	Impactor	1	40377	Shrink Tube	1
10966	Dust Cap-Plastic	1	40390	Bolt-HH 1/4-20	3
10967	Microswitch Mount. Spring	1	40398	Ejector Collar Re. Ring	1
10968	Microswitch Adj. Spring	1	40417	Coolant Bottle	1
10969	Microswitch Mount. Screw	1	40419	Retaining Bracket-Right	1
10970	Safety Switch Adj. Brkt	1	40420	Retaining Bracket-Left	1
10971	Screw SHC 1/4-20	2	40422	Coolant Bottle Clamp	1
10972	Screw BHC #6-32	2	40424	Anti-Rotational Finger	1
10973	#6-32 Nylon Insert Nut	2	40429	Nut-Locking	1
10974	Retaining Ring Plunger	1	40433	Coolant Bottle Cap	1
10975	Pivot Point Seal	1	40442	Cutting Fluid Bottle Assy	1
10977	Screw BHC 1/4-20	1	40452	Arbor Bolt Kit	1
10978	Screw BHC 5/16-24	1	40464	Ground Strap	1
10979	Glide Post Lock Screw	1	40465	Screw HH 1/4-20	1
10983	Safety Switch Ins. Shield	1	50035	Washer 1/4" Int. Tooth	6
10993	Safety Switch Pivot Assy	1	51042	Screw SHC 1/4-20	2
40221	Spring Seat	1	90027	Washer Flat	1
40222	Set Screw - Arbor	2	90028	Washer 1/4" Helical	3
40223	Ejector Collar	1	90052	Washer Ground Screw	1
40225	Steel Gib	1	90065	Washer 1/4" Star	2
40229	Feed Gear	1	90352	Screw SHC 1/4-28	4
			90376	Washer #10 Interal	3