

CHARACTERISTICS, INSTALLATION AND MAINTENANCE INSTRUCTIONS WITH PARTS LIST FOR

CRAFTSMAN $\frac{1}{3}$ H.P. MOTOR

Split-Phase, 115 Volts, 60 Cycle, 1750 R.P.M.

MODEL NUMBER 115.19751

This is the Model Number of your CRAFTSMAN MOTOR. It will be found on the nameplate attached to the Motor. Always mention this Model Number when communicating with us regarding your Motor or when ordering parts.

HOW TO ORDER REPAIR PARTS

All parts listed herein may be ordered through SEARS, ROEBUCK and CO. or SIMPSONS-SEARS LIMITED. When ordering parts by mail from the mail order store which serves the territory in which you live, selling prices will be furnished on request or parts will be shipped at prevailing prices and you will be billed accordingly.

WHEN ORDERING REPAIR PARTS ALWAYS GIVE THE FOLLOWING INFORMATION:

1. The PART NUMBER
2. The PART NAME
3. The MODEL NUMBER 115.19751.
4. The NAME of item — $\frac{1}{3}$ H.P. Motor.

COAST TO COAST NATION-WIDE SERVICE FROM SEARS FOR YOUR CRAFTSMAN MOTOR

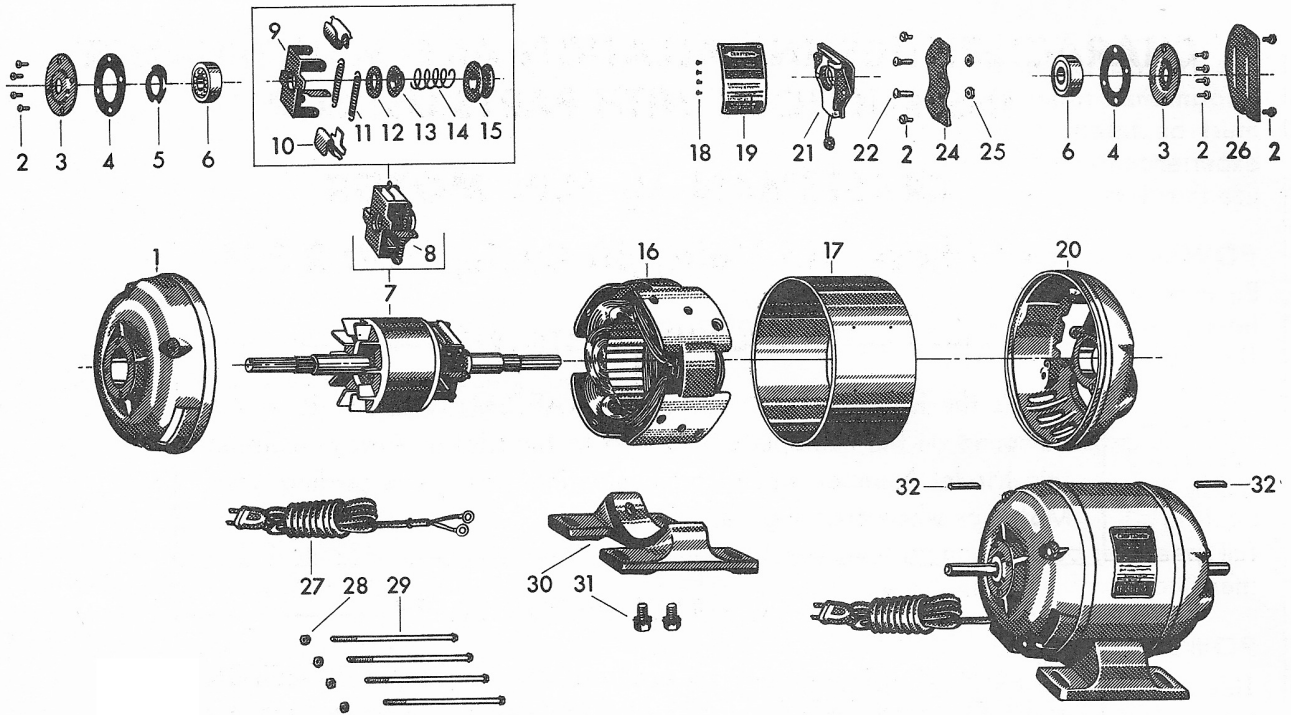


SEARS, ROEBUCK AND CO. and SIMPSONS-SEARS LIMITED in Canada back up your investment with quick, expert mechanical service and genuine CRAFTSMAN replacement parts.

If and when you need repairs or service, call on us to protect your investment in this fine piece of equipment.

SEARS, ROEBUCK AND CO. - U.S.A.
IN CANADA, SIMPSONS - SEARS LIMITED

CRAFTSMAN 1/3 H.P. MOTOR — MODEL NUMBER 115.19751



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2. The PART NAME.

4. The NAME of item—1/3 H.P. Motor

DO NOT USE KEY NUMBER WHEN ORDERING REPAIR PARTS, ALWAYS USE PART NUMBERS.

PARTS LIST

Key No.	Part No.	DESCRIPTION	Key No.	Part No.	DESCRIPTION
1	5220528	End Frame (Opp. Term.)	17	5217865	Band
* 2	5223166	Screw, 8-32 x 5/16 Hex. Head	18	5216239	Eyelet
3	5220539	Retainer	19	5222832	Nameplate
4	5000412	Gasket	20	5220701	End Frame (Term.)
5	5201078	Spring	21	5214636	Switch and Insulator Assembly
6	900026	Bearing	22	5221037	Terminal Post
7	5222831	Rotor Assembly	24	5216575	Terminal Bar
8	5213085	Centrifugal Switch Assembly	25	5218330	Terminal Post Nut
9	5215470	Back	26	5217254	Terminal Cover
10	5213107	Finger	27	5222836	Cord
11	5200990	Side Spring	*28	120614	Nut, 10-32 Hex.
12	5213090	Washer	29	5222835	Thru Bolt
13	5215895	Spring Cup	30	5222834	Base
14	5211992	Center Spring	31	5221347	Bolt and Washer Assembly
15	5211969	Sleeve	*32	5211981	Shaft Key — 3/16 x 3/16 x 1-1/8
16	5219677	Stator		5222837	Instructions and Parts List

* Standard Hardware Items—May Be Purchased Locally

CHARACTERISTICS, INSTALLATION AND MAINTENANCE INSTRUCTIONS

CHARACTERISTICS

The NAMEPLATE of your motor carries basic information regarding the characteristics that must be taken into consideration if you are to experience the dependable performance and long life that was designed and built into your motor.

POWER RATING

Be certain you are using a motor of the rated horsepower, speed and type recommended by the manufacturer of the unit to be driven.

TYPE

This 1/3 H.P. Craftsman motor is of the split phase type and is designed for light starting loads or where the rated load is not imposed until full speed has been attained, such as with washing machines, ventilating fans and light power tools.

POWER SUPPLY REQUIRED

This motor is designed to operate on a power supply with the following characteristics:

1. Volts—115 (at the motor terminals).
2. Cycles or Frequency—60 (which is generally standard in the United States).

If you are not certain of your current rating, check with your power company.

BEARINGS

Sealed ball bearings make it possible to mount this motor in any position for normal thrust load applications.

SPEED

The shaft of this motor will revolve at 1750 revolutions per minute and cannot be regulated.

ROTATION

This Craftsman motor is designed to drive in either direction. For reversing, interchange yellow leads in terminal box in end frame.

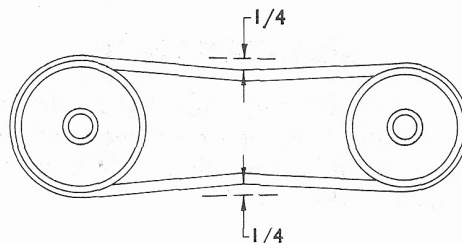
INSTALLATION

PRE-MOUNTING CHECK

1. As a precautionary measure, BEFORE RUNNING motor, rotate the shaft with your fingers. If it does not turn, please return it to the point of purchase for inspection.
2. Connect to power supply indicated on name plate.
3. Operating normally, this motor will have a low electrical hum.

MOUNTING

Mount the motor on the unit for which it was purchased, making certain all pulleys are tightened securely on their shafts and properly aligned. The belt tension should be such that the pressure of the fingers on the belt will deflect it readily as shown.



Excessive belt tension increases the motor load and bearing wear. Loose belts reduce tool efficiency and belt life. Before tightening the mounting bolts, be certain all points of the motor base are in contact with the mounting bracket on the tool or bench. Then tighten the motor mounting bolts securely. This motor should be used in as COOL and DRY a place as possible, and should be protected from excessive deposits of dust and dirt. Do not confine it to the extent that the free flow of air through and about it is restricted.

CIRCUIT

If this motor is not required to start under load and is not overloaded after starting, the standard 15 ampere lighting circuit fuses should be satisfactory. Otherwise, a delayed-action type fuse such as a "fustat" or "fusetron", which is designed to meet the demands of motor protection in addition to the demands of lighting circuit protection, should be used.

WIRE SIZE

The following wire sizes are recommended for extensions or special circuits from the source of power supply:

Length of Two-Conductor Extension	Wire Size Required (American Wire Gauge No.)
15 feet or less	No. 14
50 feet or less	No. 12
100 feet or less	No. 10

GROUNDING

As a precaution against the possibility of electrical shock from a ground in the motor or a static electrical charge built up in the driven unit, which is common with belt driven equipment, both units

should be grounded. If the two units have metal to metal contact, grounding of either one will be sufficient protection for both. This can be accomplished by running a wire from the frame to a water pipe, steam pipe, or any other metal object making direct contact with the earth. Good electrical contact can be established between the metal surfaces and ground lead by removing all paint and other foreign material from the surface of the metal at the point of connection.

MAINTENANCE

Installed as instructed, this motor should give trouble-free service when kept clean and supplied with power of the same rating as described on the motor nameplate.

LUBRICATION

This motor was lubricated at the factory for life under normal operating conditions.

CLEANING

Make every effort to prevent foreign materials from entering the motor. Beyond that, visually inspect it periodically. Usually, normal accumulations of dry dust can be blown out successfully. Motors used on wood working tools, especially, should be vacuumed or blown out often to clear accumulations of saw dust that prevent proper motor ventilation and which may clog the centrifugal starting switch.

Should disassembly be necessary, refer to competent service personnel as recommended under SERVICE, since disassembly by others voids the guarantee of the manufacturer.

LOW VOLTAGE

Approximately 90% of all motor failures are the result of low voltage at the motor terminals or serious motor overloading. Although your motor is designed for operation on the voltage and frequency specified on the motor nameplate, normal loads can be handled safely on voltages that are not more than 10% above or below the rated voltage. However, heavy loads require the specified voltage at the motor terminals.

SOME CAUSES OF LOW VOLTAGE ARE:

1. Overloaded circuits
2. Under-sized wires
3. Overloading power company's facilities

SOME EFFECTS OF LOW VOLTAGE ARE:

1. Motor doesn't develop full power
2. Motor starts slowly
3. Motor overheats
4. Fuses blown frequently

SERVICE

Only qualified persons who have the proper tools and equipment should attempt to service this motor. The Guarantee covering it is void if either end frame (Key Nos. 1 and 20) has been removed by anyone other than an Authorized Sears Service Station. External parts such as the Base (Key No. 30), Terminal Cover (Key No. 26), and Band (Key No. 17) may be removed without voiding the Guarantee. The nearest Sears retail or mail order store will have your motor serviced for you promptly at a reasonable rate.

GUARANTEE

This CRAFTSMAN motor was thoroughly inspected and tested before shipment. Should it fail due to faulty material or workmanship, we will repair it free of charge if returned to your Sears retail or mail order store within one year from date of purchase. This guarantee is void if the motor has been misused, abused, or disassembled.

SEARS, ROEBUCK AND CO.