

Customers are advised to dispose off unusable components through appropriate disposal agencies to avoid the harmful impact (if any) on environment

***CONGRATULATIONS...** on your acquiring one of the finest pumps in the country. The KIRLOSKAR pumps in your possession is the result of over half a century of progressive hydraulic engineering. It is scientifically designed and built to give you long and dependable service. Careful selection of materials and manufacturing assures you a satisfactory performance as per the pump rating. This pump will give you years of trouble free performance if it is handled with due care. This pamphlet is a step in that direction. It covers general instructions on installation, operation and maintenance of KIRLOSKAR pumps. Please read & comply with the instructions and your pump is bound to serve you well. **While reporting the damages or missing parts always quote name plate details including its Sr.No. Features:**

- Efficiency at par with internationally available pumps. • Efficiency higher by up to 10 points than minimum specified in Indian Standards Specifications. • Top flat efficiency curve; minimum variation in efficiency over the entire operating range. • Withstand wide voltage fluctuations. Voltage range from 180V to 240V (Single-phase) Voltage range from 300V to 440V (Three-phase)
- Non-overloading power characteristic. • Replaceable wearing parts and hence longer life. • Dynamically balanced rotating parts. • Grease lubricated deep groove ball bearing. • Easy maintenance and spares availability. • Designed for automatic air release during priming. • Suction lift up to 7.5 meters.

RIGHT

LEADS FROM MOTOR

PHASE NEUTRAL

SINGLE PHASE 50 HARTZ SUPPLY

CONNECTION DIAGRAM OF 1 PHASE MOTORS

TYPE OF THE FAILURE	Failure to deliver water	Pump does not deliver rated discharge	Pump does not deliver rated head	Pump discharges water after priming	Pump overloads primemover	Vibration	Stuffing box overheats	Bearing overheats	Bearing wears rapidly	Motor heating up	Sealed pump	Irregular delivery	Pump does not prime
REASON FOR FAILURE													
Viscosity in lubricant								✓	✓				
Failure of lubricating system								✓	✓				
Bearings too tight						✓		✓					
Excessive thrust								✓	✓				
Lack of lubrication								✓	✓				
Bearings badly installed								✓	✓				
Too much grease in bearings								✓	✓				
Pump does not deliver rated capacity	✓		✓				✓						
Pipes exert forces on pump							✓				✓		✓
Vibration	✓	✓		✓						✓			
Foreign matter in pump											✓		
Viscosity lower than rated	✓	✓											
Speed too low	✓	✓	✓										
Foundation bolts loose, motor supports loose							✓	✓	✓				
Leak in delivery pipe-work	✓												
Mechanical seal fault						✓							

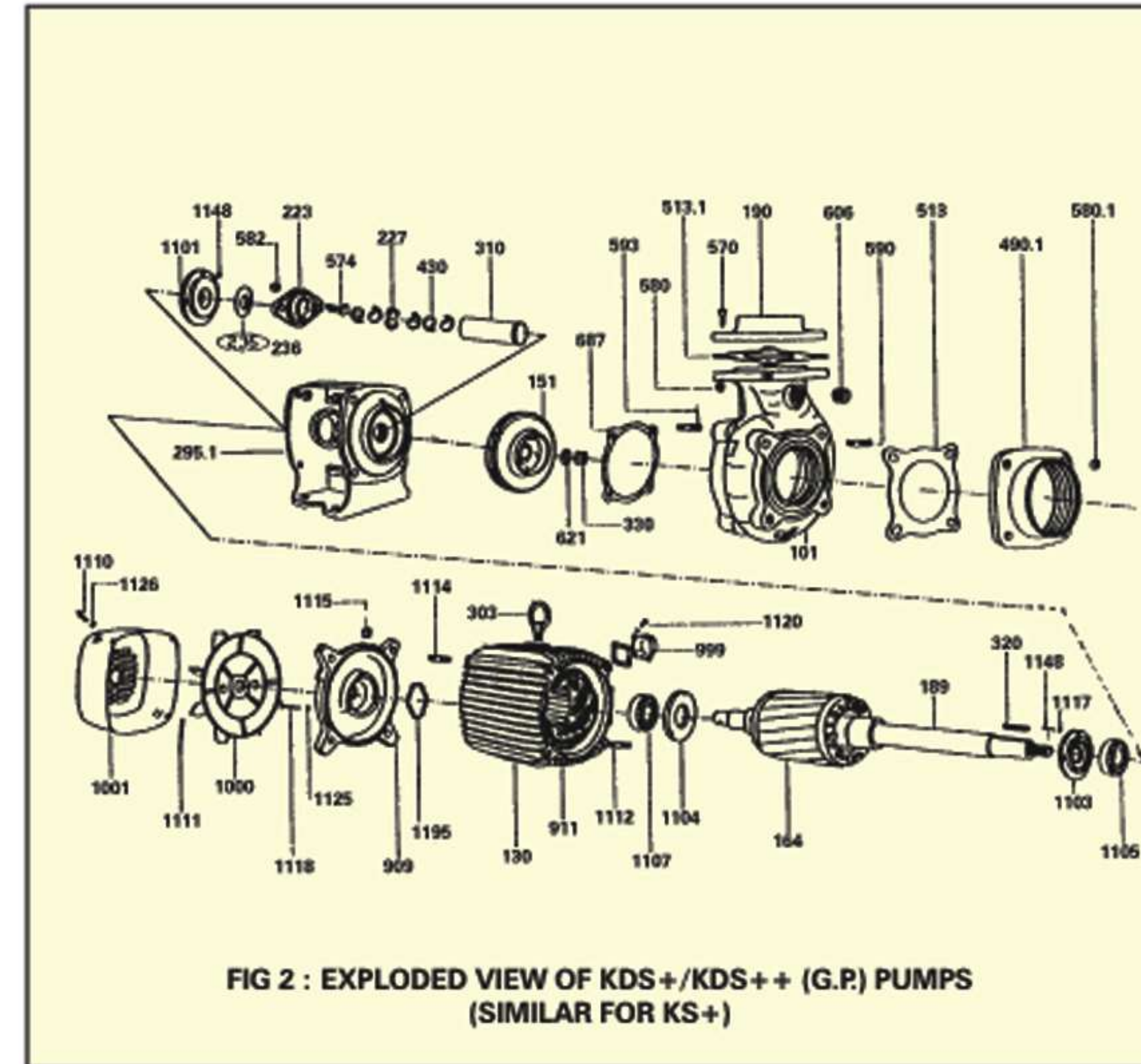
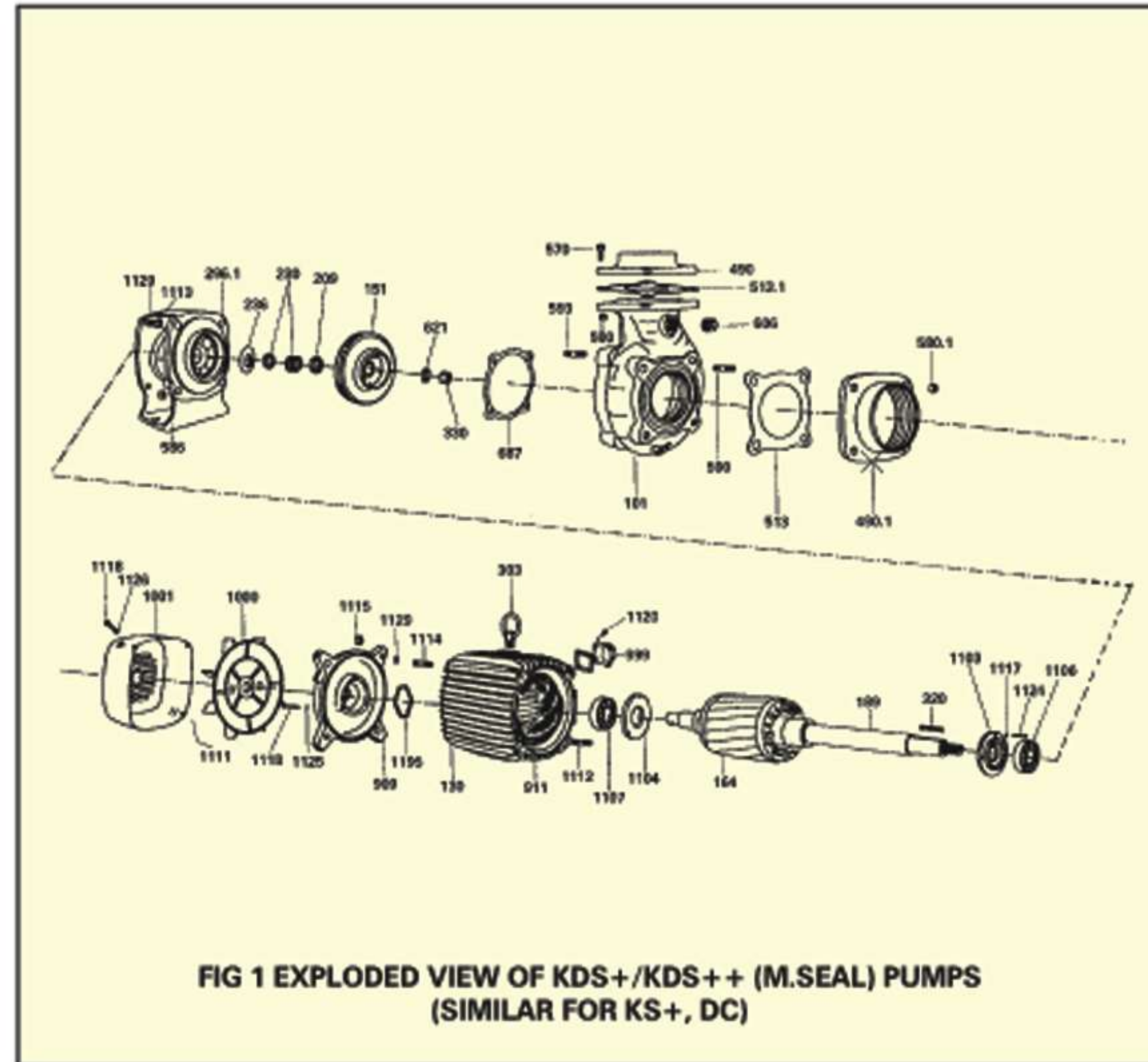
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EXPLODED VIEWS OF KDT+/KS+/KDS+/KDS++



Enriching Lives

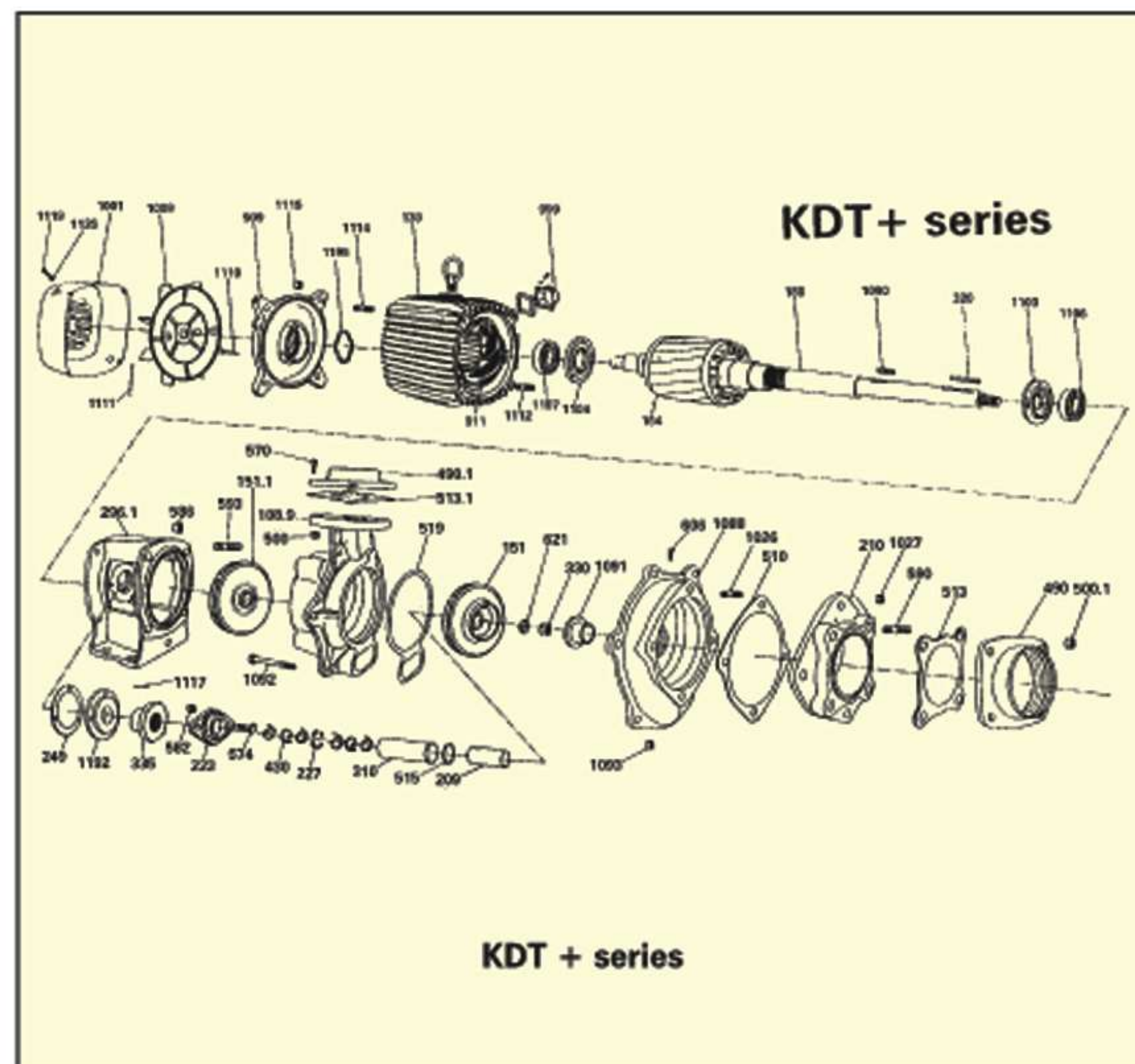


MAINTENANCE MANUAL FOR MONOBLOC TYPES KDT+/KS+/KDS+/KDS++

KIRLOSKAR BROTHERS LIMITED

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CM 0103



PART-LIST (GENERAL) FOR MONOBLOC PUMPS	
PART NO.	PART DESCRIPTION
101	Delivery Casing
130	Motor Body
151	Impeller
164	Rotor
189	Shaft
209	Spacer
223	Gland
227	Lantern Ring
230	Mechanical Seal
236	Water Deflector
296.1	Mounting Casing
310	Sleeve
320	Key (Impeller)
330	Nut (Impeller)
430	Gland Packings
490	Delivery Flange
490.1	Suction Flange
513	Gasket (Suction Flange)
513.1	Gasket (Delivery Flange)
570	Bolt (Delivery Flange)
580	Nut (Delivery Flange)
581	Nut (Suction Flange)
586	Nut (Delivery Casing & Mounting Casing)

(Cont.)

PART-LIST (GENERAL) FOR MONOBLOC PUMPS (Cont.)	
PART NO.	PART DESCRIPTION
590	Stud (Delivery Casing & Suction Flange)
593	Stud (Delivery Casing & Mounting Casing)
606	Priming Plug
621	Washer (Impeller Nut)
687	Gasket (Mounting Casing & Delivery Casing)
909	Cover (INDE)
911	Stator
912	Terminal Board
999	Terminal Box
1000	External Fan
1001	Fan Cover
1002	Lead Bush/Bush for Capacitor
1022.1	Run Capacitor
1106	Ball Bearing (D.E.)
1107	Ball Bearing (N.D.E.)
1111	Split Cotter Pin
1119	Slot Cheese Head/Hexagonal Head Screw (Fan Cover)
1120	Slot Cheese Head Screw (Thermal Box and Body)
1126	Spring/Brass Washer (Fan Cover Cover NDE)
1195	Wavy Washer
3049	Stator Fitted Motor Body
3050	Rotor Fitted Shaft