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CHALLENGAIR 850

Forced Air Dryer Instruction Manual

Please read all instructions before operating your dryer. Keep for future reference.

Congratulations on your purchase of the Double K Challengair 850/850-XL Forced Air Dryer. The Double K Challengair 850 and 850-XL Dryers produce high velocity warm air under pressure to make your grooming tasks easier. Your new dryer is designed to provide long, reliable service.

The **850** and **850-XL** are available in both stand and portable models. The stand model is equipped with a grooming arm for use during table drying. The **850-XL** model produces 15% more air than the **850**. Both the 850 and the 850-XL are available with a variable speed option for greater air flow control.

A warranty card is included with your dryer and should be filled out completely and mailed to Double K Industries within 30 days of the purchase date of your dryer to validate your warranty. It is also important to retain your sales receipt as proof of purchase should service ever be needed.

Your 850/850-XL Challengair Dryer has brush type motors (Both the 850 and 850-XL have two motors). It is important that the brushes be changed when they become worn down to prevent damage to your dryer motors (Brushes are a maintenance procedure and are not covered under warranty). We suggest checking the motor brushes after every 600 hours of dryer use. Please see section on "Brush Changing" in this manual for instructions.

Important Safeguards

DO NOT TURN ON DRYER WITH OUT FIRST HOLDING THE DRYER HOSE as the air volume from the dryer can cause the hose to move and swirl and may cause injury.

- 1. Do not leave dryer unattended while in use. Check animal often during drying.
- 2. Unplug unit when not in use.
- Do not use extension cords with dryer.
- Do not expose dryer to rain or water.
- Do not use or store where it can fall or be pulled into tub or sink or standing water. If dryer falls into water... UNPLUG IT... DO NOT REACH INTO THE WATER!
- Do not unplug unit by pulling on cord.
- 7. Do not operate while standing in or near water.
- 8. Unplug unit before attempting any service or maintenance.
- 9. Do not direct air toward eyes.
- 10. Keep loose clothing, jewelry and hair away from dryer openings.
- 11. Keep filters clean. Hair build-up limits air intake and may damage motor.
- 12. Plug only into a properly grounded receptacle. Always make sure the amperage of the electrical outlet is sufficient for the amperage rating of the product. (Read further into manual for amperage rating of this product)
- 13. Do not use this product for anything other than its intended use.
- 14. Do not attempt to perform any service or maintenance not outlined in this manual. Contact Double K Industries or Authorized Service Center if additional service is needed. Do not block dryer intake or put into dryer openings.

A NOTE ABOUT HEAT: Your Challengair 850/850-XL dryer has no heating element. The Challengair produces heat by a "flow-thru" motor system meaning the air is pushed through the motor and is warmed by the natural heat of the motor that occurs during use. This means greater electrical savings and efficiency for you and that the dryer will reach maximum heat after about 3-5 minutes of use. Obviously the greater the ambient temperature, the warmer the air from the dryer.

Specifications:

Model 850 Voltage – 115

Model 850-XL Voltage - 115 *Model 850-230* Voltage - 230

 Amps - 12.98
 Amps - 17.72
 Amps - 10.32

 Watts - 1493
 Watts - 2038
 Watts - 2374

 Air Volume - 240 CFM
 Air Volume - 240 CFM
 Air Volume - 240 CFM

 (Combined Motor Specs)
 (Combined Motor Specs)
 (Combined Motor Specs)

Operation- Switches and Controls:

- **1. Standard Speed-** The standard two speed unit has two toggle switches. Each switch operates one of the two motors in your dryer. You may use just one motor for low air or turn on both switches for high air volume. "On" is in the up position and "Off" is down.
- **2. Variable Speed-** This unit has a dial speed control and a three position toggle switch. Center position of the toggle switch is "Off". The down position of the switch is full power, the up position of the toggle switch activates the variable speed control knob which allows the dryer to run at lower air volumes by turning the knob "counter-clockwise" and higher by turning "clockwise."

To Control Lower Air Outlet: Turn the black control knob counter-clockwise to close the lower outlet and clockwise to open the outlet.

*NOTE: The upper outlet is open at all times.

** NOTE: Stand Dryers Only... If you wish to do only hose drying with the highest possible air flow, the arm extension on the upper air outlet may be removed by loosening the black thumb nuts at the base of the arm. A hose may then be used in the upper air outlet with the bottom outlet turned off.

STAND MODEL ASSEMBLY

Your dryer is packaged in two boxes. Your boxes include: Box 1: The dryer body. Box 2: Stand base with casters, Y-bar, stand assembly, two 6' twist-on hoses, one arm extension, one air diffuser, 3 nozzles, 2 hose to cage attachments with tie-wrap fasteners and two hose adapters. To assemble your dryer, first attach the Y- of the Y-bar between the washers on the knob post. The Y-bar slot has a slight angle to it and should be positioned pointing toward the front of the dryer. Make sure the electrical cord exits toward the back of the dryer and the back of the Y-bar. Re-tighten knobs to hold dryer at desired angle. Attach the arm extension to the dryer body by loosening the finger nuts around the upper air outlet on the dryer body. Align the holes in the arm extension with the bolts in the dryer face. Tighten finger nuts securely for a snug fit.

Assembly of Stand

The stand tube assembly is pre-assembled and wrapped in paper. The stand tube assembly is compressed and held in position by the center clamp. Loosen the handle on the clamp and allow the spring to extend the tube assembly. Place the end of the larger outer tube down into the center of the stand base. Twist and push down firmly. Lift the dryer head assembly, and position over the assembled stand and slide the tube of the Y-bar into the upper stand tube. With clamping handle still loose, raise or lower dryer to desired height and tighten stand adjustment handle as explained in the next paragraph.

Stand height Adjustment and dryer angle adjustment: Your dryer has "ratchet" type adjustment handles on the stand and the dryer. To tighten an adjustment handle, turn the handle clockwise as far as is comfortable. As necessary, for additional tightening, pull the handle out to disengage the "ratchet" and while keeping the handle pulled out, turn the handle counter-clockwise to a suitable position for continued tightening. Release the handle to engage the "ratchet" again and repeat these procedures until the adjustment handle is tight. Reverse the turning direction of these actions to loosen an adjustment handle. NOZZLE: The nozzle at the end of the extension arm may be rotated to change the direction of the airflow. Simply rotate nozzle to the desired direction.

Dryer Stand: Your dryer stand has two locking casters to keep the dryer from rolling inadvertently. To lock wheels, press down the small tab on the locking casters. To unlock, lift up on tab. For long life and smoother operation, avoid rolling casters through cut hair that has fallen on the floor.

PORTABLE MODEL

Your Portable 850 should include: One 6' twist-on hose (two with dual outlet dryers), one air diffuser, 3 nozzles, 2 hose to cage attachments with tie-wrap fasteners (4 with dual outlet dryers) and one hose adapter (two with dual outlet dryers)

ACCESSORIES AND ATTACHMENTS

Your dryer is equipped with twist-on hoses and nozzles. To attach hoses to dryer place hose into air outlet and twist "counter-clockwise". To attach nozzles to hose, twist the nozzles "counter-clockwise". **Cage Diffuser Attachment**: This attachment is used for diffused air into the animal's cage. To attach the hose to the diffuser, attach the hose adapter to the hose by twisting it counter-clockwise. Then insert the adapter into the hose to cage attachment.

Hose To Cage Attachments: These attachments are used to attach the hose to the cage for forced air drying in the cage. Use the plastic tie-wraps to hook the round attachments to the cages. Be sure

to cut off the excess tie-wrap material after attaching to cages. Place the hose adapter on the end of the hose by twisting counter-clockwise and then place the adapter into the hose to cage attachment. **MAINTENANCE- Brushes**

Your 850/850-XL dryer has a brush-type motor. The brushes should be checked for wear after approximately 600 hours of use. If the carbon brush is worn shorter than ¼ inch, the brushes should be replaced. Brushes may be ordered from Double K Industries or an authorized service center. Please be sure to specify whether your dryer is an 850 or 850-XL as the brushes are slightly different from one another.

To Check and/or Replace brushes: (a) Unplug electrical cord from wall outlet. (b) Detach your front plate by loosening the fastening screws. (See Fig. 1). (c) Remove front plate and set aside (motors and brushes are now visible and accessible). (d) Remove tab from brush assembly using a flat blade screwdriver to push it out of the brush housing. (See fig. 2) (e) Loosen and remove the two screws in the brush bracket and remove brush. (f) Insert new brush assembly in place and replace brush holding bracket by replacing and tightening the two screws. (g) Insert the brush tab into the cavity of the new brush. (h) Replace dryer front plate and securely tighten all fastening screws.

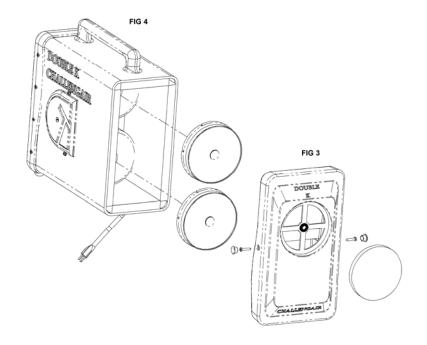
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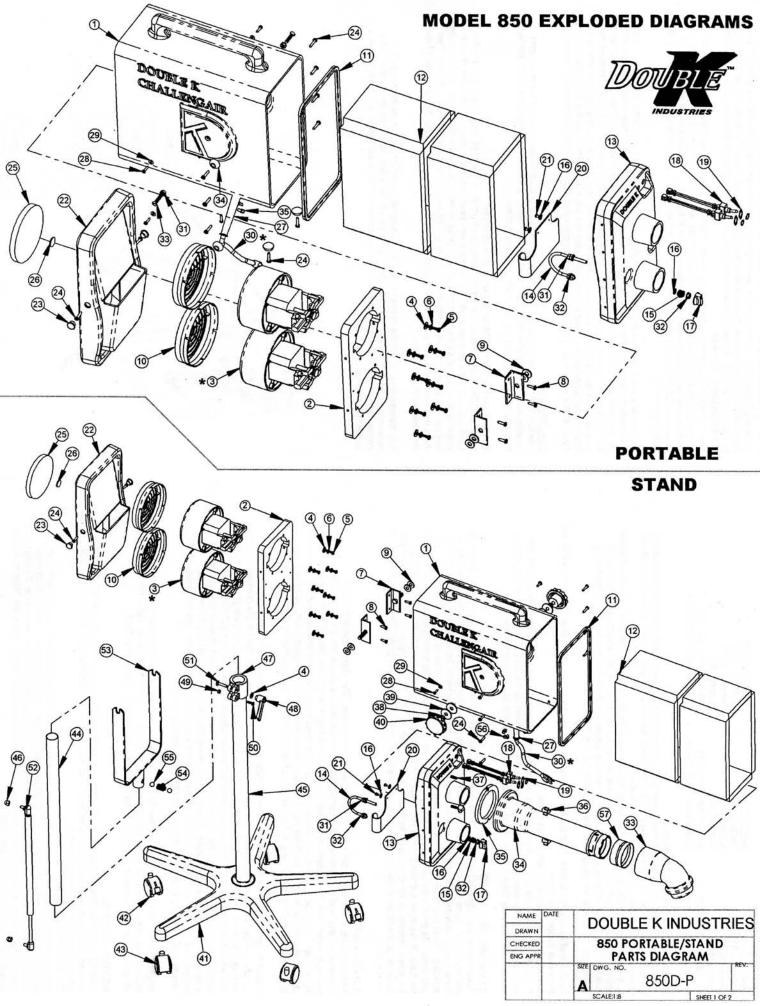
The filters of the 850/850-XL Challengair Forced Air Dryer should be kept clean. If these become heavily coated with hair and/or dirt, it could reduce the air output of your dryer and cause damage to the motor. Never operate the dryer without filters in place.

To clean the back external filter of the 850/850-XL dryer:

(a) Unplug Dryer (b) Remove the fastening screws from the dryer back plate. (see fig.3) (c) Remove the dryer back plate and set aside. (d) Remove individual motor filter discs on the back of each motor by turning and pulling filter off motor. (See fig. 4) (e) Clean motor filter discs by vacuuming off hair and dirt or wash filters gently in cool water and allow to air dry completely. (f) Replace filter discs on motor by pushing in place and turning to secure. (g) Replace dryer back plate and replace fastening screws securely.

Any maintenance or service not explained in this manual should be performed by **Double K Industries** or an authorized service center. Call **Double K Industries** for the name of the service center nearest you. All warranty service must be performed by an authorized service center to protect your warranty status.





PARTS LIST 850D-SX WITH STAND

15-GA GREEN 8"

MOTOR WIRE WHITE MOTOR WIRE BLACK WIRE BLACK 12 GA BLACK 16" 14 GA BLACK 6"

14-GA WHITE 16"

9015-0

PARTS LIST 850D-PX

NUMBER 812S 855 819 10031 832 967 882 5514 846 868 813A 840 888S 847 841 842 5509 851 523 898 443 800 413 5544 817 5544 817 5538 571 843 902 881 881 883 883 885 885 885 885 885 885 885 885	850 MOTOR HOUSING MOTOR MOUNT 850 MOTOR UNIVERSAL SINGLE STAGE 120 V WASHER 1/4 SAE FLAT PLTD SCREW #10-32X 1-1/4 PHP WASHER 1/4 INCH SPLIT LOCK ANGLE 1/8 X 1 1/4 X 1 1/4 STEEL SCREW 10-24 X3/4 SMS WASHER 5/16 USS FLAT PLTD INTAKE AIR FILTER GASKET 41' 850 FRONT HOUSING FOAM, 850 SOUND PROOFING KIT 850 FACE PLATE, STAND UBOLT 1/4-20 2.0 ID STEEL COMPRESSION SPRING WASHER #10 USS FLAT KNOB SWITCH BLACK SWITCH TOGGLE 2 POS 20A 125V, (SW ASSY 851A) FACE PLATE ON/OFF NEOPRENE COVER MODIFIED SCREW #8 x 3/8 SHT METAL PHP 850 BACKPLATE 855 HOUSING PLUG SCREW 10-24 X 1 SMS FILTER INTAKE 5.8 DIA. VELCRO, MVA 8 BLACK VELSTICK CORD RELIEF PROTECTOR SCREW #8 x 3/4 SHT METAL PHP WASHER #8 SAE FLAT PLATED ASSY CORDSET WITTLE 120V 14 FT NUT 1/4-20 UNC KEPS LOCKING ANN EXTENSION GASKET ARM EXTENTION	1 1 2 9 8 8 8 2 4 4 4 2 1 1 1 1 1 1 2 2 1 1 1 2 1 2 1	12 13 14 15 16 17 18 19 20 21 22 23 24 25 26	813A 840 888 847 841 842 5509 851 523 898 443 800 413 5544 817 5538 571 843 9028 881-1 835	850 MOTOR HOUSING MOTOR WOUNT 850 MOTOR UNIVERSAL SINGLE STAGE 120 V WASHER 1/4 SAE FLAT PLTD SCREW #10-32X 1-1/4 PHP WASHER 1/4 INCH SPLIT LOCK ANGLE 1/8 X 1 1/4 X 1 1/4 STEEL SCREW 10-24 X3/4 SMS WASHER 5/16 USS FLAT PLTD INTAKE AIR FILTER GASKET 41' 850 FRONT HOUSING FOAM, 850 SOUND PROOFING KIT 850 FACE PLATE UBOLT 1/4-20 2.0 ID STEEL COMPRESSION SPRING WASHER #10 USS FLAT KNOB SWITCH BLACK SWITCH TOGGLE 2 POS 20A 125V, (SW ASSY 851A FACE PLATE ON/OFF NEOPRENE COVER MODIFIED SCREW #8 x 3/8 SHT METAL PHP 850 BACKPLATE 855 HOUSING PLUG SCREW 10-24 X 1 SMS FILTER INTAKE 5.8 DIA. VELCRO, MVA 8 BLACK VELSTICK CORD RELIEF PROTECTOR SCREW #8 x 3/4 SHT METAL PHP WASHER #8 SAE FLAT PLATED ASSY CORDSET W/TIE 120V 14 FT NUT 1/4-20 UNC KEPS LOCKING	2 1 2 1 2 12 1 1 1 1 5 4 1 3
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9028 881-1 835 5506 890 892 807 555 801	WASHER #8 SAE FLAT PLATED ASSY CORDSET WITHE 120V 14 FT NUT 1/4-20 UNC KEPS LOCKING NUT 1/4-20 UNCHEX SERRATED FL NOZZLE DIRECTIONAL ARM EXTENSION	1 1 4 1	29 30 31 32	9028 881-1 835	ASSY CORDSET W/TIE 120V 14 FT NUT 1/4-20 UNC KEPS LOCKING	3
881-1 835 5506 890 892 807 555 801	ASSY CORDSET W/TIE 120V 14 FT NUT 1/4-20 UNC KEPS LOCKING NUT 1/4-20 UNCHEX SERRATED FL NOZZLE DIRECTIONAL ARM EXTENSION	1 1 4 1	31 32	835	NUT 1/4-20 UNC KEPS LOCKING	3
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892 807 555 801	ARM EXTENSION		33		NUT 1/4-20 UNCHEX SERRATED FL	4
807 555 801		4			SCREW 1/4-20 X 1 1/4 FHSL	4
555 801	GASKET ARM EXTENTION	1	34		RUBBER FOOT QUICK TIEWRAP	2
801		1		877 EM3		
	KNOB 3 AREM BLK 1/4-20 UNC 2B	2		EM3	403 230V CORD BRITAIN 405 230V CORD EUROPEAN	
	SCREW 1/4-20 X7/8 HH	2		EM3	408 230V CORD AUSTRAILIA	
899	WASHER 3/8 INCH SPLIT LOCK WASHER 1.37 OD X .375 X .95T	4		EM 30	805-1 MOTOR 230V/50HZ	
849	KNOB round fluted rim 3/8-16	2	1 17	EM 30	886 MOTOR REGULAR 110V	
9023	STAND BASE 25" 5 LEG	1	1			2
9022	CASTER LOCKING 50mm NYLON	2		DA	RTS FOR 850D-SXV	
9021	CASTER 50mm BLACK	3				5
838	TUBE 1-3/8 OD X 24" LONG .049 WALL	1 1	- 1		(G)	
9020	TUBE 1-5/8 OD X 30" LONG .049 WALL	1 2	- 1		(15)	!(
808	NUT ACORN 5/16-18 UNC ZINC PLATED CLAMP TUBE STAND ADJUSTMENT SLEEVE	1	1 1	/	8	3:400
7003	HANDLE LEVER ADJUSTABLE 1/4-20 UNC	11	1 1	6		-
5531	NUT #10-32 UNF NYLON INSERT	1		Ĭ	13	
7019	SCREW #10-32 X 3/4 PHP	1				
7015	BOLT CARRIAGE 1/4-20 X 1-1/4 LONG	1		11 1)		
830-1	SPRING GAS,36" LIFT-O-MAT	1	4	11		T (12
887	MOUNTING FORK 850 Y BAR	1	4	18		My 1
7048	SPRING COMPRESSION	1	۱. ا		0 11/00 1	VOD
7047	BALL 1/2" CHROMED STEEL	2	1			400
877	QUICK TIEWRAP	2	4 1		1	The W
7046A	ARM EXT. SLEEVE	1			16	// 1
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IRING	DIAGRAM VARIABLE TRIAC	_			BOARD CONTRACTOR	V
		3		POT	NEW AND	
AKIABL	E SPEED GREN				(S)	
	OFF- SSE DOT					1801.
	825 H H 3002	YELLOV		I	4	XXX
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	macvil	BLOE	GRAY			[]] []
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	185.14				PARISLISIO	30D-3V
	GAEE	1 EX 1000		BLACK GREEN	TTEM! DADT	Eleith Elmenn
		WHITE	1	T	L NO I NUMBER I	SCRIPTION
	/ 111 \		1	1 4	3 845 SCREW#8 x	3/8 SHT METAL

INDUSTRIES, INC.

WIRING DIAGRAM STANDARD SPEED

NO.	PART NUMBER	DESCRIPTION				
3	845	SCREW #8 x 3/8 SHT METAL PHP				
4	5514	SCREW 10-24 X3/4 SMS				
5	9015	TERMINAL 1/4 16-14 GA. F				
6	852	TERMINAL 1/4 12-1 GA. F				
7	641	PCB W/CONNECTOR				
8	814	SWITCH TOGGLE 2 POS 20A 125V				
10	523	FACE PLATE ON/OFF				
11	834	LIGHT INDICATOR 125V, 1/3 WATT				
12	5509	KNOB SWITCH BLACK	1			
13	634	RHEOSTAT, SPEED CONTROL, 850				
15	865	U CHANNEL 1.5 X 1.5X 1 TRIAC				
16	640					
NAME DATE		DOUBLE K INDUSTRIES				
DRAW	734	DOODLE IVIIIDOON				
CHECKED		850 PORTABLE/STAND				
ENG APPR		PARTS LIST				
		850D-P	REV.			

SCALE:1:12

SHEET 2 OF 2