

DD

Rev-Low

Maintenance Manual

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DD REV-LOW Maintenance and Operating Manual

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INTRODUCTION

Thank you for selecting a SPRING AIR SYSTEMS INC. Commercial kitchen exhaust Rev-Low dry extractor. Your system consists of a dry extractor, exhaust fan and on/off switch or control panel. Others manufacturers may have supplied the exhaust fan and on/off operator.

Your SPRING AIR SYSTEMS INC. Dry extractor model was selected to best meet the design requirements of your commercial kitchen application.

The DD series dry ventilator is a UL/ULC listed "Exhaust Hood with Exhaust Fire Damper".



Typical SPRING AIR SYSTEMS Dry Rev-Low Ventilator Installation

An ON/OFF selector switch or touchscreen located in the kitchen area or mounted on the exhaust fan starter coil electrical enclosure normally controls the exhaust fan.

SPRING AIR SYSTEMS HOOD MODEL NUMBER DESIGNATIONS

There are numerous types and styles of SPRING AIR SYSTEM Rev-Low ventilator available. Refer to the UL/ULC label for the complete model number and exhaust flow requirement for your dry ventilator. The UL/ULC label is located on the underside of the grease through on the right hand side of the dry ventilator.

SPRING AIR SYSTEMS HOOD MODEL NUMBER DESIGNATIONS

		D	D	В	F	10	4
С	Cold water spray/hot water wash	-					
Н	Hot water wash						
D	Dry grease extractor						
Т	Thermostatic Fire Damper		_				
F	Fusible link, spring loaded fire damper						
D	Fusible link, dead weight fire damper						
S	Shelf type hood			-			
В	Box type hood						
BS	Box shelf type hood						
DB	Double box type hood						
	· · · · ·						
MG	Make up air through front grilles				-		
MP	Make up air through perforated panels						
MI	Make up air internally						
MB	DynaFlow Tri-Zone control system						
MJ	DynaFlow perimeter defense system						
F	Single row canopy finished on all sides, Rev-Low						
-	•						
10	The length of the ventilator in feet						
4	The width of the ventilator in feet						-

Model Number Designation - Ventilators

Chart No1

PRINCIPLE OF OPERATION

A commercial kitchen cooking line consists of many different appliances depending on the type of restaurant or

institution. In every commercial kitchen the cooking vapors that comprise of grease, smoke, and products of combustion rise off the cooking surface. Natural convection forces drive the cooking vapors up towards the back wall as shown in figure 2. The kitchen dilution air is entrained into the cooking vapors and the air mixture generally follows the profile of the back and top of the hood. The mixture of grease, smoke, products of combustion, lint, dirt and kitchen dilution air proceed along the roof of the hood and follow a path down towards the core extractor slot (the core extractor slot extends along the length of the hood). Most of the air mixture enters the slot and a small amount rolls back into the hood canopy to meet the main air stream again.



The REV LOW Hood Model DD-B-F Figure 2

Optimizing the amount of air mixture that enters the core extractor slot is the key to the RevLow design. The RevLow hood must incrementally maximize the amount of the air mixture that enters the slot and minimize the amount of roll back into the canopy as the total amount of the air mixture deviates along the length of the cooking lineup.

VARIFLOW BAFFLES



The RevLow accomplishes this complicated process with a unique core extractor profile that contains a series of specially designed variflow baffles located along length of the core extractor. See Figure 3 above. The variflow baffles are adjusted prior to shipment to allow the optimum amount of the air mixture to enter the core extractor slot and thereby minimize roll back into the hood canopy. For instance the variflow baffles located above a Charbroiler are opened to the maximum 450 CFM/ft position and the variflow baffles located above ovens or steamers are closed to the minimum 90 CFM/ft position. This variable adjustment along the length of each hood provides an exhaust system that truly minimizes the amount of exhaust air to properly ventilate any kitchen line up.

VARIFLOW BAFFLE SETTINGS







Section View of RevLow Extractor with Detail of Variflow Baffle Figure 4

REMOVEABLE INSERT INSTALLATION



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ARRANGMENT "D" FIRE DAMPER ASSEMBLIES

The section view of the exhaust fire damper to the right shows a cross section of the exhaust duct collar, fire damper blade, fusible link, adjustable cable block, spring, and stainless steel cable when the damper is in the set position.

In the event of a fire in the exhaust duct collar the fusible link melts releasing the fire damper, which closes tight on the damper blade stops and seals. The second drawing shows the damper as the fusible link has been removed. The damper will rotate clockwise against the damper bar weight and close.

The complete assembly is part of the UL/ULC listed Spring Air Systems "Commercial Kitchen Exhaust Hood with Fire Damper".







SECTION VIEW OF DISASSEMBLE FUSIBLE LINK



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ADJUSTING THE FIRE DAMPER BLADE POSITION:

The fire damper fusible links, springs and cable blocks are all accessible through the front on the hood. For dry extractors and cartridge remove the inserts near the center of the hood.

Remove the insert



The blade position is adjusted by removing the fusible link/cable and block assembly from the damper pin. The fire damper will close and the complete assembly will hang loose from the spring. Loosen the set-screw on the adjustable block and pull the stainless steel cable through the block to open the damper or release cable from the stainless steel block to close the fire damper. Once the correct position is reached, re-tighten the set screw on the adjustable block and re-ached the fusible links on the damper pins.

The single fusible link damper has one block to adjust.



Single Fusible link Damper

The double fusible link damper has two blocks to just and the three fusible link damper has up to four blocks to adjust.



Two fusible link Damper

REVLOW MAINTENANCE INSTRUCTIONS

Hood with Spring Air Systems RPD Controller {TruFlow Control Panel}

At the start of the day

1. Rotate the occupied/Unoccupied switch to the occupied position to start the exhaust system {*Touch the fan on/off icon on the Power window if system is not setup on automatic start/stop schedule*}. The exhaust fan(s) will turn on and after a minute time delay the supply unit(s) will turn on.

2. Check each hood for air movement in the slot. Put your hand up to the entrance of the slot and feel if there is air movement. The air movement should feel the strongest over the heavy appliances. (broilers)



Check Air Flow in slot

3. If there is no air movement check if the green fan light on the Spring Air remote panel is on (If not check the breaker panel or fuse), check if the motor starters have pulled in (Press the red reset button), and finally check fan belts in exhaust fan(s) on the roof. {*TruFlow systems – check Operation Status* window for messages}. If necessary, call a service technician.

4. Go to the makeup air diffusers and check for air movement from the supply unit. If no air movement check, motor starter (push red reset button), check fan belts on unit on roof. {*TruFlow systems – check Operation Status window for messages*}. If necessary, call a service technician.

5. Check that all the grease inserts are in the hoods and installed properly.

At the end of the day

1. After the cooking equipment has been turned off rotate the occupied/Unoccupied switch to the unoccupied position to shut off the exhaust system. *{Touch the fan on/off icon on the Power window if system is not setup on automatic start/stop schedule}* The exhaust and supply fan(s) will shut down.

2. The RevLow hood will deposit particulate on both the hood backwall and roof. Wipe down the stainless steel backwall above the appliances and the interior of the hood, including the back and roof. Use a recognized hood degreaser. Wipe down the underside of the grease trough. This is located directly above the cooks' head.



Wipe Interior of Hood



Empty Grease Cup



Steam Clean Interior

At the end of every other cooking day

- 1. Empty the grease cups located under the grease trough.
- 2. Remove the grease inserts and wash in a dishwasher or pot sink. Use a recognized hood degreaser and clean to bare metal.
- 3. Replace the insert in the hood.

At the end of the cooking day every six months

1. After removing the grease inserts for cleaning check the position of the Variflow Baffles in the hood. The Variflow Baffles should be open over the heavy equipment and closed over the lighter equipment. (Baffles should be wide open over charbroilers and closed over ovens.

2. Steam clean the interior of the grease extractor

3. Go to the roof and check the condition of the exhaust fan and makeup air fan belts. Tighten or replace as necessary.

Replace the makeup air filters. (Filter replacement times will vary with location of the restaurant).



Inspect Baffle Positions



Check Baffle Setting

CLEANING THE EXTERIOR

Normal soil can be removed with a mild detergent and water mixture applied to a cloth. To remove baked on grease, apply a cleanser to a damp cloth or sponge and rub on the metal in the direction of the polishing lines. DO NOT RUB IN A CIRCULAR MOTION.

Burnt deposits, which do not respond, can usually be removed by rubbing the surface with a SCOTCH-BRITE scouring pad of STAINLESS scouring pads. DO NOT USE ORDINARY STEEL WOOL.

Heat tint can be removed by a vigorous scouring in the direction of the polish lines using a SCOTCH BRITE of STAINLESS scouring pad in conjunction with a powdered cleanser.

TROUBLE SHOOTING (i)

Low air

- Improper exhaust fan rotation.
- Broken or slipping belt. (ii)
- Exhaust ductwork inspection door open. (iii)
- Obstruction in the ductwork. (iv)
- (iv) Flow-flow baffle must be adjusted

No Air

- (i) Broken belt.
 - (ii) Exhaust fan overload tripped.
 - (iii) Exhaust fan disconnect open.
 - Exhaust fan motor fuse blown. (iv)
 - Fire damper closed. (v)
 - Check if baffles are upside down in extractor. (vi)

MEASURING THE EXHAUST AIRFLOW

The exhaust air is measured along the inlet slot of the ventilator. To ensure accurate results take a reading every foot along the length of the ventilator is recommended.



Calculating the Exhaust Air

Calculate the average velocity across the inlet slot and refer to the chart below for the corresponding CFM/ft (l/s/m).

Ventilator Type	Veloc	ity	Exhaust A	Air Volume
	Fpm	m/s	CFM/ft	l/s/m
DD-B-F/DD-DI	450	2.3	100	140
DD-B-F/DD-DI	675	3.4	150	210
DD-B-F/DD-DI	900	4.6	200	275
DD-B-F/DD-DI	1125	5.7	250	340
DD-B-F/DD-DI	1350	6.9	300	410
DD-B-F/DD-DI	1575	8.0	350	480
DD-B-F/DD-DI	1800	9.2	400	550
DD-B-F/DD-DI	2000	10.2	450	620
DD-B-F/DD-DI	2250	11.5	500	690
DD-B-F/DD-DI	2450	12.5	550	755

INSTALLING THE TERMINATOR BAFFLE



The TBDD Terminator baffle is available in various lengths to suit adverse site conditions. This will provide additional exhaust air over heavy appliances that are being effected by the surrounding environment.

Installation:

Remove the TBDD from the packing material. Take off all of the Removable Access Doors "A" from the hood. You should be able to clearly see all the adjustable baffles "B" and their settings. Ensure that the adjustable baffle(s) "B" over the heavy appliance is set at 5, or 3 if the baffle is directly beneath the exhaust duct collar. The TBDD baffles "C" are going to be installed on the adjustable baffles "B" over the light appliances. To install the TBDD baffle "C" onto the adjustable baffle "B" simply line up the gap on the TBDD baffle "C" with the lower end of baffle "B". Tap the TBBD along the length until it is snug on baffle "B". If the fit is loose remove the TBBD baffle "C" and gently tap the gap with a hammer in the middle and at each end. Re-attach to baffle "B".

Install these baffles on the two adjustable baffles "B" located on the right or left side of the charbroiler (when looking from the front of the hood).



MEASURING THE SUPPLY AIRFLOW - MB

Measuring the total supply fan airflow through the Blade:

1. Remove Blade front discharge perforated panel with appropriate tools.

2. Turn Blade's threaded rod counter-clockwise until the Blade comes to a fully open position, which is required to determine the total supply volume at each hood.

- ____3. Turn supply fan on.
- 4. Re-install Blade front discharge perforated plate with appropriate tools.

5. Take velocity reading across the perforated plate as shown in the diagram below. Take two vertical readings, one at 2" from the bottom of perforation and one at 4". Repeat these horizontal readings every 12" along the hood.

6. Total all readings and divide by the number of reading to determine the average velocity.

____7. Multiply the average velocity x 72 x length of perforated panel (in inches) to determine the total CFM per perforated panel. (It is critical to take the velocity readings 1" off the surface of the perforated panel to use this formula).

8. If the total supply volume was not correct and Spring Air Systems provided the supply fan/unit then adjust the supply volume at the fan/unit or at field supplied balancing dampers. If the supply fan/unit was not provided by Spring Air Systems advise the general contractor to adjust the supply air volume and do not proceed unit the volume has been correct. The total supply volume required can be found on the Spring Air Systems shop drawings.





Measuring supply airflow through the Custom Comfort Dial:

1. Remove Blade front discharge perforated panel with appropriate tools.

2. Turn Blade's threaded rod clockwise until the blade is 1.5 inches off the vertical front surface of the hood. See diagram below.

3. Set the velometer parallel to the bottom discharge with the face open perpendicular to the perforated screen where the air discharges and take a reading every 12" apart for the full length of the hood. See diagram below.

4. Total all velocity readings and divide by the number of reading to determine the average velocity.

5. Refer to Custom Comfort Dial Velocity Chart below. Based on the hood length and the temperature rating indicated on the UL/ULC plate determine the Custom Comfort Dial Velocity.

6. If the measured average velocity is too high, turn the Blade threaded rod counter-clockwise 5 times. Re-measure average velocity. Repeat until the measured velocity at Custom Comfort Dial is correct.

7. If the measured average velocity is too low, turn the Blade threaded rod clockwise 5 times. Re-measure average velocity. Repeat until the measured velocity of Custom Comfort Dial is correct.



FN or FB Hood Custom Comfort Dial Velocity Chart

		Hood		CITY (fpm)
APPLIANCES	TEMP.	Length	FRONT	SIDE
	1 121011 .	(ft)		FLOW
		(11)	Set point	Set point
Heavy - Charbroiler	$600^{\circ} \mathrm{F}$	9 - 14	500	450
Heavy - Charbroiler	$600^{\circ} \mathrm{F}$	6 - 9	500	450
Heavy - Charbroiler	$600^{\circ} \mathrm{F}$	4 - 6	550	450
Heavy - Charbroiler	$600^{\circ} \mathrm{F}$	Up to 4	550	450
Medium – Griddle, fryer	$400^{0} \mathrm{F}$	9 - 14	450	400
Medium – Griddle, fryer	400^{0} F	6 - 9	450	400
Medium – Griddle, fryer	400^{0} F	4 - 6	450	450
Medium – Griddle, fryer	$400^{\circ} \mathrm{F}$	Up to 4	450	450

MEASURING THE SUPPLY AIRFLOW – MJ

The supply air is measured along the bottom inside discharge opening of the make up air plenum. To ensure accurate results take a reading every one foot along the length of the ventilator.

Measure supply air flow through comfort dial:

- _____1. Ensure the MJ blowers are powered when the exhaust fan is activated.
- _____2. Locate the rheostat on the back of the MJ Blower which is on top of the MJ plenum.
- 3. Turn the rheostat 120 degree clock-wise to activate the MJ blower.

4. Set the velometer parallel to the bottom discharge with the face open perpendicular to the perforated screen where the air discharges and take a reading every 12" apart for the full length of the hood. The first reading should be one inch from the end and continue every twelve inches to the opposite end of the ventilator.

5. Total all velocity readings and divide by the number of readings to determine the average velocity.

6. Refer to Custom Comfort Dial Velocity Chart below. Based on the hood length and the hood temperature rating indicated on the UL/ULC plate determine the Custom Comfort Dial velocity on the chart.

7. If the measured average velocity is not correct adjust the rheostat as follows: Rotate clockwise for lower or counterclockwise for higher velocity. Retake the velocity reading to confirm the recommended set point.





FN or FB Hood Custom Comfort Dial Velocity Chart

		Hood	CCD VELOCITY (fpm)			
APPLIANCES	TEMP.	Length	FRONT	SIDE		
	12	(ft)		FLOW		
		(11)	Set point	Set point		
Heavy - Charbroiler	$600^{0} \mathrm{F}$	9 - 14	500	450		
Heavy - Charbroiler	$600^{\circ} \mathrm{F}$	6 - 9	500	450		
Heavy - Charbroiler	$600^{0} \mathrm{F}$	4 - 6	550	450		
Heavy - Charbroiler	$600^{\circ} \mathrm{F}$	Up to 4	550	450		
Medium – Griddle, fryer	400^{0} F	9 - 14	450	400		
Medium – Griddle, fryer	$400^{0} \mathrm{F}$	6 - 9	450	400		
Medium – Griddle, fryer	$400^{0} \mathrm{F}$	4 - 6	450	450		
Medium – Griddle, fryer	400^{0} F	Up to 4	450	450		



REPORT

Project Name	
Project Number	
Date	
Customer	
Site Contact	
Site Phone Number	
Site Address	

Your startup package from Spring Air Systems should include:

Description	YES	NO
Complete set of drawings	X	
Appliance lineup under each hood	X	
Operating and Maintenance manuals	X	
Three (3) TBH, terminator baffles per hood	X	

TECHNICIAN TO COMPLETE ALL HIGHLIGHTED SECTIONS

After arriving at site:

Description	YES	NO
Inspect the hoods for damage (if yes add description below)		
Remove the inserts and check the internal adjustable baffle settings for each hood and correct as required to match the drawings.		
Check that all inserts are properly in place in each hood		
Check that each exhaust duct collar is free and clear.		
For DD hoods with fire dampers check that each fire damper operates freely and is set in the open position.		
Check the actual site appliance layout (SIZE AND LOCATION OF APPLIANCES) against the appliance layout received for each hood in the startup package. If the appliance layout is different contact Spring Air head office at 1-866-874-4505 for revised baffle settings.		
Check that the cooking appliances are pushed all the way back against the wall, or as far back as possible. If front edge is closer that 9" to hood front, contact Spring Air head office from site.		
Check if there is a high shelf over any of the appliances. Note which appliance.		
Turn off the all appliances under the hood(s)		
Check the mounting height of lower front edge of each hood to finished floor (inches)		

Damage details:

Exhaust and Supply fan Information

Description	Please Fi	Please Fill In			
Exhaust fan manufacturer					
Exhaust fan model number					
Exhaust fan motor horsepower					
Exhaust fan voltage					
Exhaust fan max FLA					
Exhaust fan operating amperage / leg	1)	2)	3)		
Supply fan manufacturer					
Supply fan model number					
Supply fan motor horsepower					
Supply fan voltage					

Description.	YES	NO
Turn on the exhaust fan		
Turn on the supply fan		
Check that the kitchen is under a negative pressure. Stand in the kitchen doorway and air should be felt moving into the kitchen from the adjacent space.		

Baffle Adjustment



INSERT POSTION IN HOOD



CORRECT

UP SIDE DOWN

Measuring the Exhaust Volume at the Revlow Hood

The exhaust air is measured along the inlet slot of the ventilator. To ensure accurate results take a reading every foot along the length of the ventilator is recommended.

HANDLE IS UP AND OUT





PITOT TUBE OR ANEMOMETER

Hold the instrument perpendicular to the VORTEX BAFFLE and parallel to the throat (inlet slot) of the ventilator. Take three readings across the throat and average the results per insert

Revlow Exhaust Hood

Hood Item No.			
Hood Model No.			
Hood Length (inches)		Hood Width (inches)	
No. of Baffles		Baffle Size (inches)	
No. of 16" Inserts		No. of 20" inserts	
Design Exhaust Volume.		·	
Design Supply Volume.			
Right overhang (wall/hood/op	pen)		
Left overhang (wall/hood/ope	en)		
Front overhand (front of appliance to front of hood)			

1. Confirm appliance lineup. Call Spring Air Systems, 1-866-874-4505 x 28, immediately if different from below:

APPLIANCE LINEUP

2. Set Variflow Baffles to factory recommended setting. Install Terminator baffle on baffles indicated with a * on hoods with Charbroiler on common duct/fan. (Left to Right facing hood):

The baffle directly beneath exhaust duct collar should be set to no higher than 3.

3. Calculate the exhaust air volume for each hood following the formula below. If the exhaust volume is more than 5% over design or under design AT ALL, call Spring Air Systems 1-866-874-4505 x 2 immediately.

1	2	3	4	5
Insert No.	Insert Size	Velocity	Size correction	Exhaust Volume
	(circle one)	measurement	factor (SCF)	CFM
			(circle one)	
Left to right	16" or 20"	(fpm)	16" = 0.29	fpm x SCF
			20" = 0.37	
1	16/20		0.29/0.37	
2	16/20		0.29/0.37	
3	16/20		0.29/0.37	
4	16/20		0.29/0.37	
5	16/20		0.29/0.37	
6	16/20		0.29/0.37	
7	16/20		0.29/0.37	
Total CFM (add colu	mn 5)	•		

Total CFM (add column 5)

4. If adjusted, record FINAL variflow baffle settings (Left to Right facing hood)

Revlow Exhaust Hood					
Hood Item No.					
Hood Model No.					
Hood Length (inches)		Hood Width (inches)			
No. of Baffles		Baffle Size (inches)			
No. of 16" Inserts		No. of 20" inserts			
Design Exhaust Volume.					
Design Supply Volume.					
Right overhang (wall/hood/open)					
Left overhang (wall/hood/open)					
Front overhand (front of appliance to front of hood)					

1. Confirm appliance lineup. Call Spring Air Systems, 1-866-874-4505 x 28, immediately if different from below:

APPLIANCE LINEUP

2. Set Variflow Baffles to factory recommended setting. Install Terminator baffle on baffles indicated with a * on hoods with Charbroiler on common duct/fan. (Left to Right facing hood):

The baffle directly beneath exhaust duct collar should be set to no higher than 3.

3. Calculate the exhaust air volume for each hood following the formula below. If the exhaust volume is more than 5% over design or under design AT ALL, call Spring Air Systems 1-866-874-4505 x 2 immediately.

1	2	3	4	5
Insert No.	Insert Size (circle one)	Velocity measurement	Size correction factor (SCF) (circle one)	Exhaust Volume CFM
Left to right	16" or 20"	(fpm)	16" = 0.29 20" = 0.37	fpm x SCF
1	16/20		0.29/0.37	
2	16/20		0.29/0.37	
3	16/20		0.29/0.37	
4	16/20		0.29/0.37	
5	16/20		0.29/0.37	
6	16/20		0.29/0.37	
7	16/20		0.29/0.37	

Total CFM (add column 5)

4. If adjusted, record FINAL variflow baffle settings (Left to Right facing hood)

Check for Drafts

- 1. Turn on appliances.
- 2. Spray cooking oil on the front right of Charbroiler (or what other appliance?). Observe the smoke pattern and record which insert the smoke enters in hood. Mark that insert.
- 3. Repeat with left side of Charbroiler (or other appliance)

4. If the smoke drifts left or right then the hood baffle settings must be adjusted where the smoke enters.

The broiler baffle settings of 4 and/or 5 must be adjusted to include all the inserts, which the broiler smoke has entered. *For example:* if the smoke drifts 24" left from where it left the Charbroiler, the broiler baffle settings must be adjusted left at least 24". The baffle setting must be reduced to 1 where the broiler smoke is not entering.

Exhaust velocities over broilers and woks

1. It is very important that the exhaust velocity over the broilers and Woks are over 1500 fpm at the slot. When the velocity is below this value with the baffles at the correct setting then Terminator Baffles High (TBH) must be installed. Add a terminator baffle to each baffle in the hood that is to be set at 1 or 2.

2. Measure the exhaust velocities across the hood again and repeat the Exhaust volume calculations.

3. If the exhaust velocity over the broiler is still below 1500 fpm Terminator Baffles Low (TBL) will have to be added to all baffles set at 1 and 2. Contact Spring Air Systems service department for these baffles.

Simple Trouble Shooting

Low air

- Improper exhaust fan rotation.
- Broken or slipping belt.
- Exhaust ductwork inspection door open.
- Obstruction in the ductwork.
- Variflow baffle must be adjusted

No Air

- Broken belt.
- Exhaust fan overload tripped.
- Exhaust fan disconnect open.
- Exhaust fan motor fuse blown.
- Fire damper closed.
- Check if baffles are upside down in extractor.

Other Fine Products From



- RevLow Hoods
- DynaFlow Hoods
- TruFlow Energy Management Systems
- UL/ULC Listed Pollution Control Systems
 - Dry Extractor Hoods
 - Catridge Hoods

- Filter Hoods
- Water Wash Ventilators
- Surface Fire Suppression
- Commercial Kitchen Exhaust Fans
- Commercial Kitchen Supply Units
 - Utility Distribution Systems

Phone: 866-874-4505, FAX: 905-338-0179

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