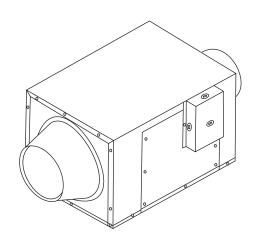
Service Manual



Super Quiet IN-LINE Fan WhisperLine™ (North American Market)

FV-10NLF1 FV-20NLF1 FV-30NLF1 FV-40NLF1

SPECIFICATIONS

Model	Air direction	V	Hz	Power consumption (W)	Speed (rpm)	Air delivery (cfm)	Weight kg(lb.)
FV-10NLF1				36	1590	120	6.3(13.9)
FV-20NLF1	Exhaust	120	60	57	1260	240	7.5(16.5)
FV-30NLF1	LAHAGST	120		98	1340	340	10.9(24.1)
FV-40NLF1				132	1150	440	11.9(26.3)

^{*}Power consumption, speed and air delivery values have been measured at 5mm WG (0.2" WG).

⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

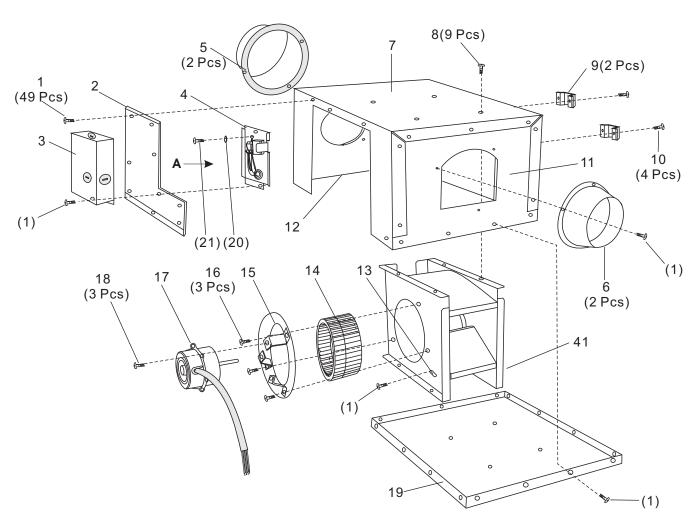
IMPORTANT SAFETY NOTICE -

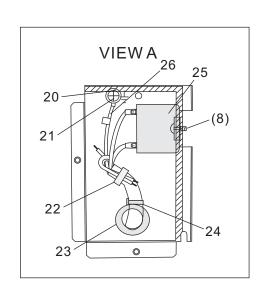
There are special components used in this equipment which are important for safety. These parts are marked by \triangle in the Schematic Diagrams, Exploded Views and Replacement Parts List. It is essential that these critical parts should by replaced with manufacturer's specified parts to prevent shock, fire or other hazards. Do not modify the original design without permission of manufacture.

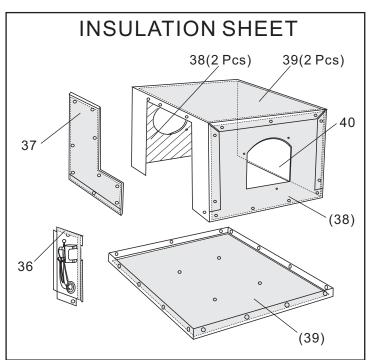
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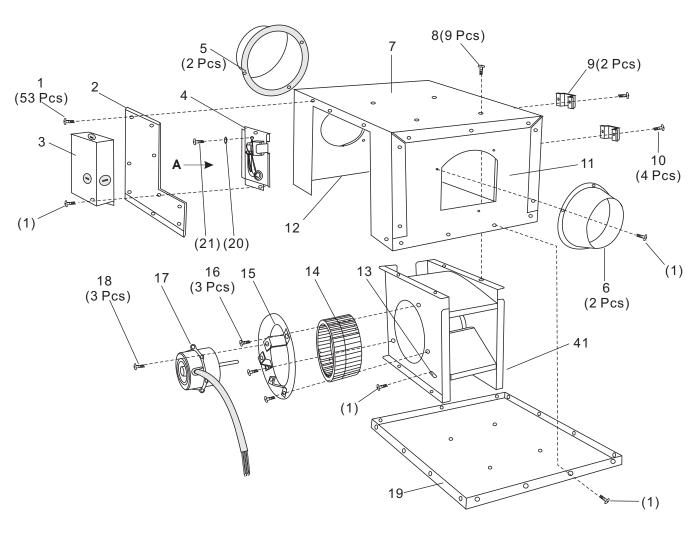
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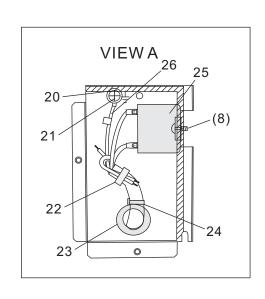
Panasonic®

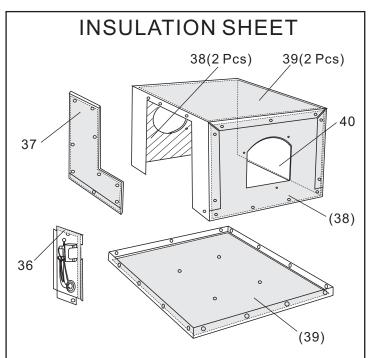


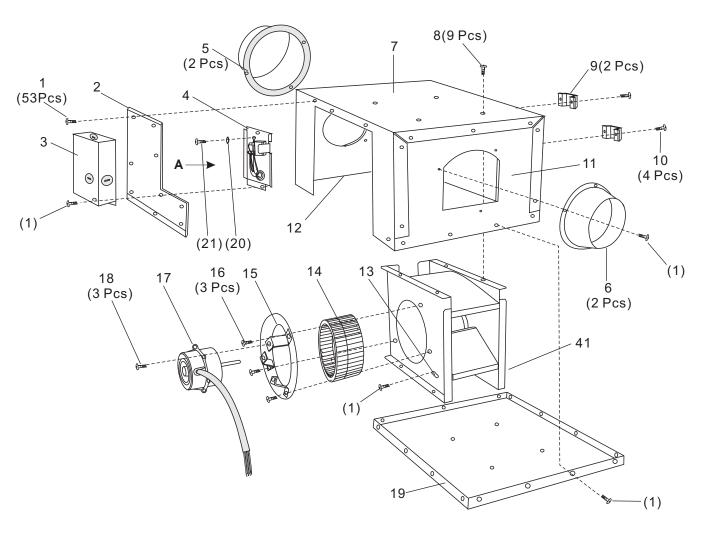


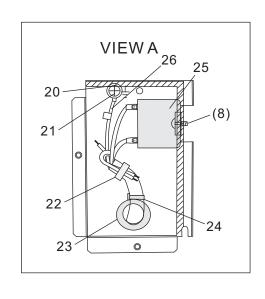


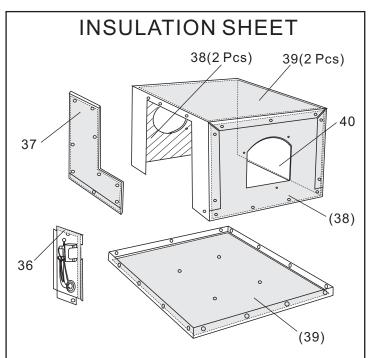


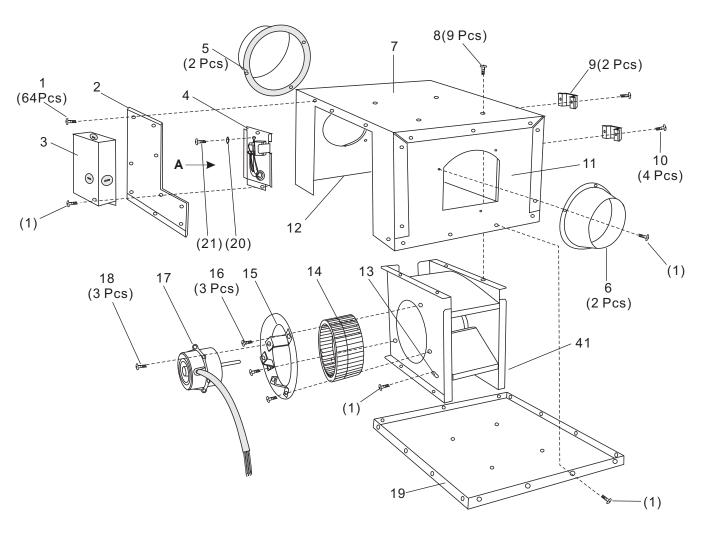


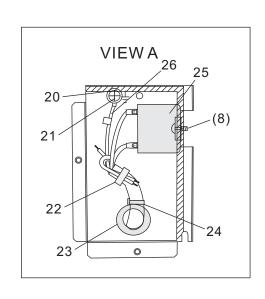


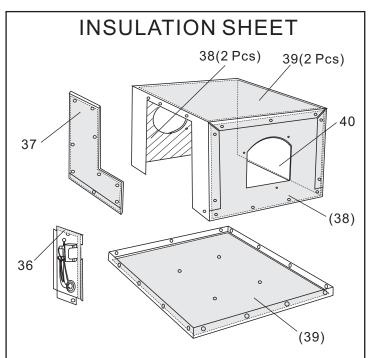


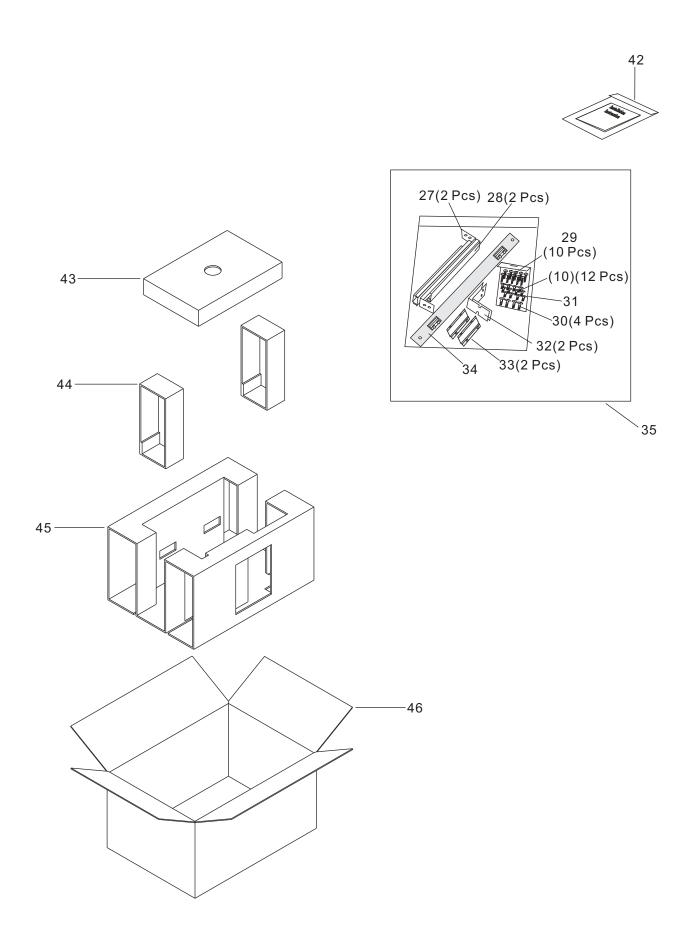


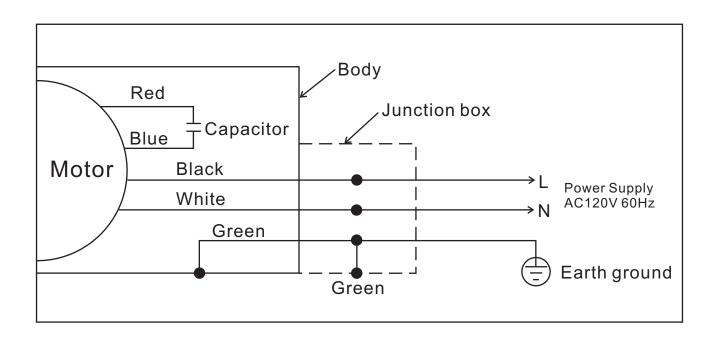












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38 FFV2520004S INSULATION D 2 STICKED ON INLET/OUTLET PANEL 39 FFV2520002S INSULATION B 2 STICKED ON KONOJI/BOTTOM PANEL 40 FFV2520003S INSULATION C 1 STICKED ON KONOJI PANEL 41 FFV0790006S CASING ASSY. 1 42 FFV2540050S INSTALLATION SET 1 FOR USA MARKET (42) FFV2540051S INSTALLATION SET 1 FOR CA MARKET 43 FFV4710311S PAD 1 44 FFV4710312S ADAPTER PAD 1 ONE SET INCLUDE TWO PIECES 45 FFV4710313S FRAME PAD 1					
39 FFV2520002S INSULATION B 2 STICKED ON KONOJI/BOTTOM PANEL 40 FFV2520003S INSULATION C 1 STICKED ON KONOJI PANEL 41 FFV0790006S CASING ASSY. 1 42 FFV2540050S INSTALLATION SET 1 FOR USA MARKET (42) FFV2540051S INSTALLATION SET 1 FOR CA MARKET 43 FFV4710311S PAD 1 44 FFV4710312S ADAPTER PAD 1 ONE SET INCLUDE TWO PIECES 45 FFV4710313S FRAME PAD 1					
40 FFV2520003S INSULATION C 1 STICKED ON KONOJI PANEL 41 FFV0790006S CASING ASSY. 1 42 FFV2540050S INSTALLATION SET 1 FOR USA MARKET (42) FFV2540051S INSTALLATION SET 1 FOR CA MARKET 43 FFV4710311S PAD 1 44 FFV4710312S ADAPTER PAD 1 ONE SET INCLUDE TWO PIECES 45 FFV4710313S FRAME PAD 1	1				
41 FFV0790006S CASING ASSY. 1 42 FFV2540050S INSTALLATION SET 1 FOR USA MARKET (42) FFV2540051S INSTALLATION SET 1 FOR CA MARKET 43 FFV4710311S PAD 1 44 FFV4710312S ADAPTER PAD 1 ONE SET INCLUDE TWO PIECES 45 FFV4710313S FRAME PAD 1					
42 FFV2540050S INSTALLATION SET 1 FOR USA MARKET (42) FFV2540051S INSTALLATION SET 1 FOR CA MARKET 43 FFV4710311S PAD 1 44 FFV4710312S ADAPTER PAD 1 ONE SET INCLUDE TWO PIECES 45 FFV4710313S FRAME PAD 1					STICKED ON KONOJI PANEL
(42) FFV2540051S INSTALLATION SET 1 FOR CA MARKET 43 FFV4710311S PAD 1 44 FFV4710312S ADAPTER PAD 1 ONE SET INCLUDE TWO PIECES 45 FFV4710313S FRAME PAD 1					I IFOR LISA MARKET
43 FFV4710311S PAD 1 44 FFV4710312S ADAPTER PAD 1 ONE SET INCLUDE TWO PIECES 45 FFV4710313S FRAME PAD 1					
44 FFV4710312S ADAPTER PAD 1 ONE SET INCLUDE TWO PIECES 45 FFV4710313S FRAME PAD 1					
45 FFV4710313S FRAME PAD 1					ONE SET INCLUDE TWO PIECES
					CITE OLI INCLUDE IVVO I ILOLO

No.	Part No.	Part Name	Q'ty	Remark
1	FFV7000074S	TRUSS TAP SCREW	53	FOR MAIN BODY FIXING
2	FFV4660006S	INSPECTION PANEL	1	
3	FFV0760023S	CONDENSER COVER	1	
4	FFV5830002S	TERMINAL BASE	1	
5	FFV4610003S	SPONGE	2	STICKED ON ADAPTER
6	FFV0000008S	ADAPTER	2	
7	FFV4660008S	KONOJI PANEL	1	
8	FFV7000089S	TRUSS TAP SCREW	9	8 PCS FOR CASING ASSY.,1 PCS FOR CONDENSER
9		HOLDER	2	
10	FFV4000001S	TRUSS SCREW	16	12 PCS IN ACCESSORY SET A
11	FFV4660009S	OUTLET PANEL	1	
12	FFV4660007S	INLET PANEL	1	
	FFV0740020S	CORD CLIP	1	FOR FIXING MOTOR LEAD TO CASING ASSY.
		BLADE ASSY.	1	INCLUDED BLADE FIX SCREW
	FFV3730002S	MOTOR SUPPORT ASSY.	1	
		TRUSS TAP SCREW	3	FOR FIXING MOTOR SUPPORT ASSY.
17		MOTOR ASSY.	1	120V,60Hz <u> </u>
	FFV7000123S	PAN SCREW	3	FOR FIXING MOTOR ASSY.
	FFV4660010S	BOTTOM PANEL	1	
	FFV7010041S	WASHER	1	FOR EARTH
21	FFV7000165S	PAN SCREW	1	FOR EARTH \triangle
	FFV0740022S	CORD CLIP	1	FOR FIXING MOTOR LEAD TO TERMINAL BASE
	FFV0740008S	CORD BUSHING	1	
		TIE 1	1	FOR FASTENING MOTOR LEAD
25	FFV0750043S	CONDENSER	1	250V,5.0uF <u> </u>
	FFV1300021S	EARTH LEAD WIRE	1	\triangle
27	FFV0420009S	BRACKET	2	
28	FFV0420010S	SUSPENSION BRACKET 2	2	
		TRUSS TAPPING SCREW	10	
	FFV7000018S	TRUSS TAPPING SCREW	4	
		ACCESSORY SET A	1	
_		ATTACHMENT	2	
		BRACKET COVER	2	
		HANGER	1	
	FFV0010028S	ACCESSORY SET	1	OTICKED ON TERMINAL DAGE
		INSULATION E	1	STICKED ON TERMINAL BASE
		INSULATION A	1	STICKED ON INSPECTION PANEL
		INSULATION D	2	STICKED ON INLET/OUTLET PANEL
		INSULATION B	2	STICKED ON KONOJI/BOTTOM PANEL
		INSULATION C	1	STICKED ON KONOJI PANEL
	FFV0790007S FFV2540050S	CASING ASSY.	1	EOD LICA MARKET
	FFV2540050S FFV2540051S	INSTALLATION SET	1	FOR USA MARKET FOR CA MARKET
		PAD	1	FON CA WARKET
				ONE SET INCLUDE TWO DIFOES
		ADAPTER PAD FRAME PAD	1	ONE SET INCLUDE TWO PIECES
		PACKING CASE	1	
40		FAUNING CASE	ı	

No.	Part No.	Part Name	Q'ty	Remark
1	FFV7000074S	TRUSS TAP SCREW	53	FOR MAIN BODY FIXING
2	FFV4660011S	INSPECTION PANEL	1	
3	FFV0760023S	CONDENSER COVER	1	
4	FFV5830002S	TERMINAL BASE	1	
5	FFV4610003S	SPONGE	2	STICKED ON ADAPTER
6	FFV0000008S	ADAPTER	2	
7	FFV4660013S	KONOJI PANEL	1	
8	FFV7000089S	TRUSS TAP SCREW	9	8 PCS FOR CASING ASSY.,1 PCS FOR CONDENSER
9		HOLDER	2	
10	FFV4000001S	TRUSS SCREW	16	12 PCS IN ACCESSORY SET A
	FFV4660014S	OUTLET PANEL	1	
	FFV4660012S	INLET PANEL	1	
13	FFV0740020S	CORD CLIP	1	FOR FIXING MOTOR LEAD TO CASING ASSY.
14	FFV0400052S	BLADE ASSY.	1	INCLUDED BLADE FIX SCREW
15	FFV3730003S	MOTOR SUPPORT ASSY.	1	
		TRUSS TAP SCREW	3	FOR FIXING MOTOR SUPPORT ASSY.
		MOTOR ASSY.	1	120V,60Hz <u> </u>
18	FFV7000123S	PAN SCREW	3	FOR FIXING MOTOR ASSY.
19	FFV4660015S	BOTTOM PANEL	1	
	FFV7010041S	WASHER	1	FOR EARTH
	FFV7000165S	PAN SCREW	1	FOR EARTH \triangle
22	FFV0740022S	CORD CLIP	1	FOR FIXING MOTOR LEAD TO TERMINAL BASE
	FFV0740008S	CORD BUSHING	1	
24	FFV2530003S	TIE 1	1	FOR FASTENING MOTOR LEAD
25	FFV0750044S	CONDENSER	1	250V,6.0uF <u> </u>
	FFV1300021S	EARTH LEAD WIRE	1	\triangle
	FFV0420009S	BRACKET	2	
	FFV0420010S	SUSPENSION BRACKET 2	2	
	FFV7000166S	TRUSS TAPPING SCREW	10	
		TRUSS TAPPING SCREW	4	
		ACCESSORY SET A	1	
		ATTACHMENT	2	
		BRACKET COVER	2	
		HANGER	1	
		ACCESSORY SET	1	
		INSULATION E	1	STICKED ON TERMINAL BASE
		INSULATION A	1	STICKED ON INSPECTION PANEL
		INSULATION D	2	STICKED ON INLET/OUTLET PANEL
		INSULATION B	2	STICKED ON KONOJI/BOTTOM PANEL
		INSULATION C	1	STICKED ON KONOJI PANEL
		CASING ASSY.	1	500 1104 1445
		INSTALLATION SET	1	FOR USA MARKET
	FFV2540051S	INSTALLATION SET	1	FOR CA MARKET
	FFV4710311S	PAD	1	
		ADAPTER PAD	1	ONE SET INCLUDE TWO PIECES
	FFV4710317S		1	
46	FFV9000929S	PACKING CASE	1	

		Part Name	Q'ty	Remark
2	FFV7000074S	TRUSS TAP SCREW	64	FOR MAIN BODY FIXING
1	FFV4660011S	INSPECTION PANEL	1	
3	FFV0760023S	CONDENSER COVER	1	
4	FFV5830002S	TERMINAL BASE	1	
5	FFV4610003S	SPONGE	2	STICKED ON ADAPTER
	FFV0000009S	ADAPTER	2	
7	FFV4660017S	KONOJI PANEL	1	
		TRUSS TAP SCREW	9	8 PCS FOR CASING ASSY.,1 PCS FOR CONDENSER
	FFV2230002S		2	
		TRUSS SCREW	16	12 PCS IN ACCESSORY SET A
	FFV4660018S		1	
	FFV4660016S		1	
	FFV0740020S		1	FOR FIXING MOTOR LEAD TO CASING ASSY.
	FFV0400052S		1	INCLUDED BLADE FIX SCREW
		MOTOR SUPPORT ASSY.	1	
		TRUSS TAP SCREW	3	FOR FIXING MOTOR SUPPORT ASSY.
		MOTOR ASSY.	1	120V,60Hz <u> </u>
	FFV7000123S	PAN SCREW	3	FOR FIXING MOTOR ASSY.
		BOTTOM PANEL	1	
		WASHER	1	FOR EARTH
	FFV7000165S		1	FOR EARTH \triangle
	FFV0740022S		1	FOR FIXING MOTOR LEAD TO TERMINAL BASE
		CORD BUSHING	1	
			1	FOR FASTENING MOTOR LEAD
	FFV0750045S	CONDENSER	1	250V,7.0uF
		EARTH LEAD WIRE	1	\triangle
	FFV0420009S		2	
		SUSPENSION BRACKET 2	2	
		TRUSS TAPPING SCREW	10	
		TRUSS TAPPING SCREW	4	
		ACCESSORY SET A	1	
		ATTACHMENT	2	
		BRACKET COVER	2	
	FFV2230001S		1	
		ACCESSORY SET	1	CTICKED ON TEDMINIAL DACE
		INSULATION E	1	STICKED ON TERMINAL BASE
		INSULATION A	1	STICKED ON INSPECTION PANEL
		INSULATION D	2	STICKED ON INLET/OUTLET PANEL
		INSULATION B INSULATION C	2	STICKED ON KONOJI/BOTTOM PANEL
		CASING ASSY.	1	STICKED ON KONOJI PANEL
		INSTALLATION SET	<u>1</u> 1	FOR USA MARKET
		INSTALLATION SET	<u> </u>	FOR CA MARKET
	FFV4710311S		<u> </u>	FOR OA WARRET
		ADAPTER PAD		ONE SET INCLUDE TWO PIECES
	FFV4710318S		<u>1</u> 1	ONE SET INCLUDE TWO PIECES
		PACKING CASE	<u> </u>	