



Proudly Canadian

2017

REFRIGERATOR MAINTENANCE INSTRUCTIONS & PARTS LIST



Engineering Department

World Part Supplier Inc.

11/13/2017

<http://www.PSupplier.com>

All rights are reserved for World Part Supplier Inc.



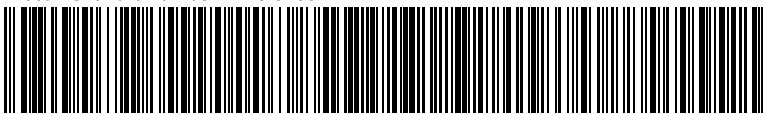
**World Part Supplier Co.
Engineering & Technical Group**



Maintenance Instruction

Locomotive cab refrigerator
WPS-3000

REF-MI-001-EN REV. A
Document Part Number: WPS-3100-EN



ALL RIGHTS RESERVED FOR WORLD PART SUPPLIER GROUP

<http://www.WPSupplier.com>
info@WPSupplier.com

A word from World Part Supplier 2

1. Technical Specification of Locomotive Refrigerator WPS-3000:..... 3

2- Exploitation of Refrigerator:..... 3

 2-1) Refrigerator Carriage:..... 3

 2-2) Warranty Clauses: 3

 2-3) Turning the refrigerator on: 4

 2-4) thermostat: 4

 2-5) Condenser Coil: 5

 2-6) Operational temperature limit for refrigerator:..... 5

 2-7) Wiring and Security Warnings: 5

3- Refrigerator Maintenance: 5

 3-1) Scheduled Maintenance:..... 5

 3-2) Cleaning instructions: 5

 3-2-1) Cleaning of condenser coil: 5

 3-2-2) General Cleaning: 6

4- Parts Change Instruction: 6

 4-1) Inverter Replacement: 6

 4-2) Condenser Cooling Fan Replacement: 6

 4-3) Compressor Replacement: 6

 4-4) Condenser Radiator: 7

 4-5) Thermostat Replacement: 7

 4-6) Input Power Cable Replacement: 7

 4-7) Refrigerator Door Handle (Latch) Replacement: 8

 4-8) Refrigerant Gas Recharge or Change: 8

5- Refrigerant's Standard Pressure: 9

 5-1) Basic instruction to use this section:..... 9

 5-2) Standard Conditions of Repair Process: 9

6- Compressor Technical Specification: 9

7- Condenser Cooling Fan Technical Specification:..... 10

8- Refrigerator Troubleshooting Guidance: 10

9- Parts List, Parts Numbers and Quantity: 11

10- List of Technical Drawings and Wiring Schematics for WPS-3000: 12

A word from World Part Supplier

World Part Supplier Co. decided to design and produce a refrigeration system compatible with rail vibration to provide more convenience services for the locomotive drivers. In our design, we have tried to localize parts and technology suitable for Middle East climate and atmosphere. Countries in that region geographically located in semi dry and dry zone, therefore design must comply with these conditions.

The manufactured refrigerator has passed all sever laboratorial tests as well as passing 18 months of practical exploitation in high temperature and dry places.

We are proud to inform that all parts of this refrigerator is World Part Supplier product except the compressor.

In this book, you will collect more information about refrigerator part number WPS-3000 such as operation, maintenance periods, and troubleshooting and repair guidelines.

Technical team of World Part Supplier eagerly looks forward to get your points about this product and the contents of this maintenance booklet.

We suggest you to visit our official website at <http://www.WPSupplier.com> and see more products of World Part Supplier Group.

1. Technical Specification of Locomotive Refrigerator WPS-3000:

- Nominal capacity equal to 70 liters
- Cooling capacity equal to 1050BTU
- Working input voltage range from 60 to 90 VDC
- Usable with all environmental friendly coolants such as R22, R134a, etc.
- Completely localized condenser coil (radiator) for Middle East climate that will work in other ambient as well.
- Inverter with Sine Wave and modulated output
- Inverter nominal output current is equal to 9A
- Intelligent control on Overload Current
- Field reversible refrigerator door
- Non-adjustable thermostat
- On condenser coil mounted 110VAC fan for better air flow
- 20 minutes needed time to cool down in normal condition
- Good door insulation for sever operation condition
- Appropriate door insulator rubber to reduce cool lose
- Exclusive design of mechanical circuit to achieve maximum cooling using minimum energy
- Local science in design and manufacturing
- Approximate weight of unit is equal to 45KG
- Approximate weight of unit including packing is equal to 50KG

2- Exploitation of Refrigerator:

2-1) Refrigerator Carriage:

Manufactured refrigerators are mounted on wooden pedestal and packed in carton. Units are secured with thick polystyrene sheets.

The paint of unit is electrostatic powder anti scratch type.

Please carry the unit in the position that wooden pedestal is in bottom side.

Figure 1- Unit Carrying Handle



Please avoid any kind of impact to the body of refrigerator. We will not accept any responsibility about the squeeze of refrigerator's body.

After unpacking the unit, use the side mounted handles to carry the refrigerator to the locomotive driver cabinet.

Please do not stress refrigerator door handle to push unit forward or backward or pulling.

2-2) Warranty Clauses:

All manufactured refrigerators in this company, have engraved serial number on body bracket. This is an exclusive number that each unit's compressor and inverter will be marked with the same serial number.

You can check the serial number of each unit on the identification plate of that unit in the left or right side of refrigerator.

Refrigerator rear and front inspection doors have a special sealant. If you attempt to dismantle doors, sealant will break.

We present a warranty card with each refrigerator unit that consists the delivery date of unit. This card must be signed and sealed by company. Unit buyer must keep this card up to the end of the warranty period. We may use this card to extract necessary information.

In case of removing any inspection doors or non-accommodation of serial number on critical parts with others, the warranty will void.

- Squeeze of any parts of refrigerator body will not be covered with warranty.
- Any broken part will not be in warranty coverage.
- Damage on power input cable will be out of warranty issues.
- Broken door handle (latch) or hinges will be out of warranty responsibilities.
- Slit on door insulation rubber is not a part of warranty coverage.
- Damage or lose of refrigerator carriage handle is not part of warranty conditions.
- Scratch on refrigerator paint and the rust subsequently will not cause any warranty objection.

2-3) Turning the refrigerator on:

If you carry the unit with the angle more than 45 degree, we recommend waiting for 30 minutes before plugging the unit to power.

As you plug the unit to power line, refrigerator will run. The operation process is as following:

- A) Inverter will check itself automatically when refrigerator is plugged to power. It will check itself for some seconds and if it does not encounter a defect, power line will cut in.
- B) First the condenser cooling fan will start. It will run for 130 seconds to condense the coolant in the circuit and get the unit ready for operation.
- C) After 130 seconds of cooling fan start, compressor will turn on.

If after plugging the unit to power, refrigerator did not run, follow the instructions:

2-3-1) First make sure that power line to refrigerator is intact.

2-3-2) Make sure that you have power feed to inverter.

2-3-3) Does inverter check its switching circuit with siren voice when you plug unit to power?

2-3-3-1) If the answer is NO, check for the connectivity of thermostat to inverter. If the thermostat is connected to inverter but refrigerator does not run, contact World Part Supplier's after sale supports department.

2-3-3-2) If the answer is YES, Make sure the condenser coil cooling fan is intact. If the fan is ceased, contact World Part Supplier's after sale supports department.

2-3-3-3) If cooling fan comes into the circuit but compressor does not get under load, make sure appropriate overload relay has been used on the compressor. If you have the right Over Load Relay on compressor, contact World Part Supplier's after sale supports department.

2-4) thermostat:

Applied thermostat on this type of refrigerator is non-adjustable. The operation range of thermostat is as the following:

When the ambient (Refrigerator Container) temperature is above 4 Celsius, thermostat cuts the power in thus refrigerator turns on. When the temperature drops down to minus 4 Celsius, thermostat cuts the power off and refrigerator turns off.

The operational temperature range of thermostat has been set up in the manner to have the temperature of container around +2 Celsius.

2-5) Condenser Coil:

Knowing the fact, that refrigerator will be used in the locomotive's driver cabin and due to high contamination of environment with dust, oil and other things, designing a condenser coil that can provide sufficient cooling capacity is very important and mandatory. World Part Supplier (WPS) uses a special condenser coil that in addition to high air vent has increased cooling efficiency. Manufactured condenser coils in this company have passed practical tests with very high temperature in dry districts in Middle East for at least 18 months. During this period of test, there was no maintenance on refrigerator and no cleaning on the coil. This test showed the positive results of our design and its excellent efficiency.

2-6) Operational temperature limit for refrigerator:

Presented refrigerator has been tested under the sever conditions such as very high temperature (+70 Celsius) and no air flow on condenser coil to cool down. Under this circumstance, refrigerator cooled the internal area down to +10 Celsius in 43 minutes.

Under the above-described circumstance, inverter could not have airflow thus; inverter could not operate in normal condition. Even so, inverter showed a good performance.

This refrigerator has been designed to cool the container down to +2 Celsius within 20 minutes while the ambient temperature is between +45 to +50 Celsius.

Logically for the first run, compressor will have maximum time under load. After it, per each run, compressor will have less and less time under load.

Considering the type of insulation for the body and door of refrigerator, the dissipative factor of cooling reduces and based on this fact, all mechanical and electronic elements will remain less time under load therefore serviceable life of each part increases.

2-7) Wiring and Security Warnings:

- Be sure all protection elements are used according to the wiring schematics given in this book.
- Before any maintenance activity, unplug the unit from power.
- Before any possible Hi-Pot tests in locomotive (Not recommended), unplug the refrigerator.
- Before Megger Test, make sure that you have disconnected refrigerator from receptacle.
- Under any circumstances, do not try to bypass or deactivate security circuits of refrigerator. All these circuits are designed to protect the unit and avoid unit working under abnormal situations.
- Never refer to un-authorized persons to maintain and repair units.

3- Refrigerator Maintenance:

3-1) Scheduled Maintenance:

In order to use the refrigerator in normal condition, please follow the given schedule:

Cleaning and Washing of Condenser Coil	Every 3 to 6 months or earlier if needed
Complete inspection of all Mechanical and Electrical Circuits	Every 15 Months

3-2) Cleaning instructions:

3-2-1) Cleaning of condenser coil:

When the space between fins is clear, condenser coil will have the best efficiency.

The best method to clean the air gap of fins is a special cleaning spray. However, if you do not have access to described spray, use compressed air to blow the fins and sweep out the dust.

Make sure of condenser coil cleanliness within schedule.

We suggest periodically do cleaning by mean air hose through the hatches on the side body of refrigerator.

3-2-2) General Cleaning:

3-2-2-1) For scheduled cleaning of refrigerator outer body, use cleaning napkin and water jet and detergent. Please do not wet the electrical connections and elements.

Figure 2 - Hatches of side body



After general cleaning of refrigerator, dry out the remained water on the door sealing rubber to avoid icing. Because it may absorb microbes and hazardous particles, which are harmful for human's health.

3-2-2-2) Use appropriate spray to clean and de-parasite steel body and aluminum.

You can order this spray to World Part Supplier Co. at <http://www.WPSupplier.com> or contact sales department of our company.

4- Parts Change Instruction:

4-1) Inverter Replacement:

- 4-1-1) Unplug refrigerator cable.
- 4-1-2) Disconnect all wires and connections from inverter.
- 4-1-3) de-attach the inverter from refrigerator and change with a new one.
- 4-1-4) do wiring according the wiring diagram presented in schematic.

4-2) Condenser Cooling Fan Replacement:

- 4-2-1) Unplug refrigerator cable.
- 4-2-2) Disconnect red color wires from inverter.
- 4-2-3) Remove holding bolts of cooling fan from the fixture plate and change the defected fan by a new one.
- 4-2-4) Re-connect the red color wires to inverter.

4-3) Compressor Replacement:

Please notice that compressor will never get out of order unless it is ceased or has burnt winding due to the over current or over voltage.

- 4-3-1) Unplug refrigerator cable.
- 4-3-2) Disassemble overload relay from compressor.

- 4-3-3) Discharge the coolant refrigerant from circuit using appropriate recycling unit. This gas can be re-used if it is not contaminated.
- 4-3-4) Unbolt compressor mounting bolts from pedestal.
- 4-3-5) Open the mechanical joints of compressor connection to cooling coil by heating up.

Attention: Knowing the type of used refrigerant –environmentally friend- if you discharge it to atmosphere it will not cause environmental disease but we strongly recommend collecting refrigerant by mean recovery device.

- 4-3-6) After mounting new compressor on pedestal, weld the refrigerant passage pipe by acetylene welding.
- 4-3-7) After welding the pipe remove the humidity of circuit using appropriate hygrosopic machine.
- 4-3-8) Check for any possible leak caused by bad welding. You can use blowing compressed air to check it out.
- 4-3-9) After performing above items, charge the refrigerator with 500 grams of refrigerant.
- 4-3-10) While charging the gas, run compressor to increase the pressure of refrigerant. If the pressure of gas reached to 225PSI And remained constant for 20 minutes after first run it will indicate that you have reached to suitable gas pressure. Otherwise, continue adding amount of gas to achieve the adequate gas.

4-4) Condenser Radiator:

- 4-4-1) Unplug refrigerator cable.
- 4-4-2) To reuse the refrigerant gas, vacuum the gas by recovery machine.
- 4-4-3) Disjoint copper pipes from welded point by heating up.
- 4-4-4) Unbolt the condenser and replace it with a new one. While installing the new condenser, take necessary care not harming the aluminum fins.
- 4-4-5) After installing the condenser, weld the pipes and remove moisture as described in compressor section. Refrigerator is ready to be used.

4-5) Thermostat Replacement:

- 4-5-1) Unplug refrigerator cable.
- 4-5-2) Remove the top cover's bolts.
- 4-5-3) Near the back side left hand of opened area you will find separation line in foam. Cut the foam of this part.
- 4-5-4) Disconnect the brown color wires from inverter.
- 4-5-5) Remove thermostat holder rivets on top of the refrigerator.
- 4-5-6) Place the new thermostat and tight it by rivets.
- 4-5-7) Pass the wires through duct and connect to inverter.
- 4-5-8) Refill the hole on top of the refrigerator using the special foam and wait until it dries out.
- 4-5-9) After shaping the foam, put the top cover back.

4-6) Input Power Cable Replacement:

- 4-6-1) Unplug refrigerator cable.
- 4-6-2) Remove the rear inspection cover.
- 4-6-3) Disconnect the 74VDC poles connections from inverter.
- 4-6-4) Open the fitting (tightener) to remove the cable.
- 4-6-5) After inserting the new cable, tight the tightener.
- 4-6-6) Re-apply all connections to inverter.
- 4-6-7) Put the rear inspection door back to its place.

Attention: Inverters made by World Part Supplier are bi-polar input. Therefore, you do not need to control the polarity of input.

4-7) Refrigerator Door Handle (Latch) Replacement:

- 4-7-1) Remove the Handle holder bolts.
- 4-7-2) Grease the roller of handle.
- 4-7-3) Install the new handle.
- 4-7-4) Make sure of door well tightening.
- 4-7-5) If you need to adjust the door, use the knob adjuster bolt on the clapper.
- 4-7-6) If the above adjustments did not give good result, try the hinges adjustment.

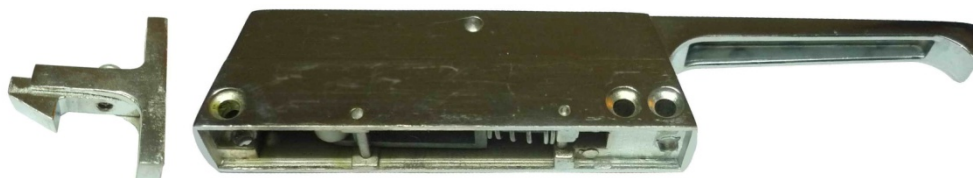


Figure 3- Refrigerator Door Handle

To buy spare parts such as refrigerator door handle, hinges and inverter or other parts please refer to parts list index in this book. Then knowing the part number, go to World Part Supplier official website at <http://www.WPSupplier.com> and place your order at "Online Order" page. Our Sale Department will supply your requested part(s) in the shortest time.

4-8) Refrigerant Gas Recharge or Change:

For any possible reason, the level of refrigerant gas can reduce. It can happen while repairing and / or maintaining or any other causes. To recharge or repair the leakages of gas follow these steps:

- 4-8-1) Use an intact manometer. Connect the low-pressure hose to accumulator and high-pressure side to compressor.
- 4-8-2) Open low and high pressure valves. If you have a pressure in the refrigerant circuit, before you plug the compressor to electricity, you can read a value for low pressure.
- 4-8-3) If you cannot read any value for low pressure on the manometer, feed some R22 refrigerant and check for any probable leak in circuit.
- 4-8-4) Should you find any leakage, please use appropriate material suitable for vibration on locomotive deck.
- 4-8-5) apply vacuum pump after repairing the leakage to remove humidity in refrigerant circuit. Remember if you let even a drop of water, can cause clog in the pipe and destroy your compressor.



Figure 4- a view of bottom deck of refrigerator and its low and high pressure needles.

- 4-8-6) After following the above processes, charge the unit with 500 grams of R22 or R134a. Depend on the customer's demand; we can use R22 or R134a. Our design is based

on R22 refrigerant but if customer asks for R134a, we can offer its desire by some changes on the refrigerant circuit.

4-8-7) Check the sight glass. When the compressor runs, you should not see any bubbles in sight glass otherwise; you should add some more refrigerant gas to unit.

4-8-8) If your unit does not have sight glass, wait for 20 minutes after compressor running. If refrigerator's internal walls began to ice, it means that gas level is fine. Otherwise, continue to charging the unit and repeat the test again.

4-8-9) Finally when you finish controlling the refrigerant level, remove the manometer hoses and place the caps back on the needles.

5- Refrigerant's Standard Pressure:

5-1) Basic instruction to use this section:

- Cabin humidity, rather than the direct temperature will affect Low Pressure side of refrigerator.
- High Pressure side of refrigerator will be affected by cabin direct temperature rather than its humidity.
- Definitely use the mentioned value of refrigerant to the circuit as given in units' specification plate on sidewall of refrigerator. Its level is 450 to 500 grams.

5-2) Standard Conditions of Repair Process:

We have considered two conditions for Test, adjustments, and utilization of unit: 1- Standard Condition and 2- Real Usage Condition.

Standard Condition is the condition considered for ideal design.

Temperature levels for both above described conditions are given in this chart:

Temperature level for ideal design condition:	35 to 40 Celsius
Temperature level for operational condition:	45 to 50 Celsius

Refrigerant Pressure in Standard (Ideal) Condition:

High Pressure Side of Circuit:	200 to 225 PSI
Low Pressure Side of Circuit:	25 to 40 PSI

Refrigerant Pressure in Operational (Real) Condition:

High Pressure Side of Circuit:	200 to 250 PSI
Low Pressure Side of Circuit:	30 to 50 PSI

6- Compressor Technical Specification:

Type of Compressor:	Rotary
Power:	1/4 HP
Input Electricity:	110VAC (+/- 5%) ; 50 / 60 Hz
Weight:	5130gr
Consumed Oil Weight:	70cc
Diameter of Discharge Pipe:	6mm
Cooling Method of Compressor:	Static
Nominal Current Value:	2A
Use of Compressor:	LBP, HBP, L/MBP, H/MBP
Certificates:	E4 72/245 95/54 0277 00
Hold of Standards:	TÜV, CE

7- Condenser Cooling Fan Technical Specification:

Manufacturer:	Commonwealth Industrial Corporation
Type:	Ball Bearing Rotary
Technical Part Number:	WPS-3005
Input Electricity:	110VAC (+/- 5%) ; 50/60Hz
Fan Effective Ventilation Diameter:	150mm
Other Specifications:	Impedance Protected
Made in:	TAIWAN

8- Refrigerator Troubleshooting Guidance:

Refrigerator does not turn on:

- 1- Make sure that refrigerator is plug to locomotive driver cab power.
- 2- Check for any possible disconnection in power cord of refrigerator.
- 3- Make sure that power cable is connected to inverter's inlet connectors (+/- 74VDC)
- 4- Make sure the thermometer wires are connected properly to inverter
- 5- Check for inverter run. Do you hear the inverter's health whistle?
- 6- If inverter runs but refrigerator still does not turn on, inspect the compressor.
- 7- Check for correct connectivity of compressor wires according to the presented wiring diagram at the end of this book.
- 8- If all the wirings are fine, check RUN and START capacitors. If they are defected, change them.
- 9- If you have inspected all the above items and everything is good, check the OVERLOAD relay.

Not enough cooling:

- 1- Check coolant gas pressure in both high and low pressure sides.
- 2- If unit had lost its pressure, find the leak in circuit.
- 3- If you did not find any leakage, one of the causes for insufficient cooling can be the gap in door. Check whether the door rubber seals the seat properly.
- 4- If you have checked all the above items and everything is in good manner, make sure compressor or fan is not working with maximum current consumption. Because when system consumes high current, inverter in order to save the parts of failure, cut the power off.

Compressor does not run:

- 1- Make sure of good level of coolant gas in circuit. It is possible compressor run free of gas and you do not feel its running.
- 2- Check Run and Start capacitors using appropriate tools.
- 3- Check for correct connectivity of compressor's wires according to wiring schematics of this book.
- 4- Check for right connection of overload relay to compressor.
- 5- Make sure the overload relay is intact.

Cooling Fan does not run:

- 1- Make sure the wires are connected to inverter.
- 2- Make sure that you have 110VAC power on the connections of fan on inverter.

Not enough air vent:

- 1- Make sure the air gap between the fins are not clogged.
- 2- Turn the refrigerator off and check the fan blades for sediment. If the blade is contaminated, use a wet rag to clean its surface.
- 3- Check for RPM of fan. If it does not have appropriate RPM change it.

9- Parts List, Parts Numbers and Quantity:

	Technical Specification	WPS Part Number	MEI Equal Part Number	Quantity per Unit
0	Locomotive Driver Cab Refrigerator 70 liters	WPS-3000	MEI417	REF
1	Inverter, Sine Wave, 74VDC to 110VAC, Exclusive	WPS-3001	I111684-3*	1
2	Compressor, 110VAC, 1/6 HP, Mitsubishi Electrics	WPS-3002	M111475*	1
3	Cooling Fan, Mount on plate, Diameter 150mm	WPS-3005	K112946*	1
4	Condenser, Aluminum alloy, Exclusive	WPS-3004	M511707*	1
5	Start capacitor, 130-180 μ F	WPS-3006	G911476-4	1
6	Run capacitor, 6.3 μ F	WPS-3007	G911476-5	1
7	Overload relay, Compressor	WPS-3003	N/A	1
8	Dryer, Alco, 1/4	WPS-3008	M310412	1
9	Mounting Plate, Fan mounting bracket	WPS-3031	N/A	1
10	Refrigerator Base Plate-Complete with all brackets, Thickness 3 mm	WPS-3028	N/A	1
11	Compressor vibration damper and absorber	WPS-3032	N/A	1
12	Refrigerator Power Cord, Anti Noise, 2 meters	WPS-3038	Y412085	1
13	Side body- Inverter Side- material ST37, Coated	WPS-3014	N/A	1
14	Side body- Condenser Side- material ST37, Coated	WPS-3015	N/A	1
15	Inspection Plates, Rear & Front, Aluminum Alloy	WPS-3037	N/A	2
16	Door- external plate, material ST37	WPS-3018	N/A	1
17	Door- internal plate, material steel 304	WPS-3019	N/A	1
18	Shelf, mezzanine, material steel 304	WPS-3020	N/A	1
19	Drainer, refrigerator bottom net, coated	WPS-3025	N/A	1
20	Shelf, refrigerator top shelf, coated	WPS-3021	N/A	1
21	L-shape bar, Shelf holder, material steel 304	WPS-3024	N/A	2
22	L-shape bar, Shelf Holder, Small size, Steel 304	WPS-3022	N/A	2
23	L-shape bar, Shelf Holder, Big size, Steel 304	WPS-3023	N/A	2
24	Refrigerator container drainage pipe	WPS-3029	N/A	1
25	L-shape internal section cover bar, Steel 304	WPS-3043	N/A	1
26	Refrigerator carriage handles	WPS-3030	P111699*	2
27	Plate, refrigerator back cover, Material ST37	WPS-3016	N/A	1
28	Rubber, Door Sealing, Exclusive	WPS-3026	N/A	1
29	Hinge, Refrigerator Door, RH2331	WPS-3009	P110501	2
30	Door Latch, RH3350	WPS-3010	P110500	1
31	Blot, Auto Drive, External Body's bolt	WPS-3033	N/A	34
32	Bolt, Side body to Basement	WPS-3034	N/A	6
33	Bolt, Inverter holder to side body	WPS-3035	N/A	2
34	Cap, Side body, Condenser Side	WPS-3036	N/A	2
35	Plate, Refrigerator top external cover, ST37	WPS-3017	N/A	1
36	Thermometer	WPS-3011	G411938	1
37	Fitting (Tightener), power cable, steel	WPS-3012	N/A	1
38	Accumulator	WPS-3013	Y412968	1
39	Foam, Insulator	WPS-3041	N/A	A.R
40	R22 refrigerant	WPS-3040	N/A	A.R

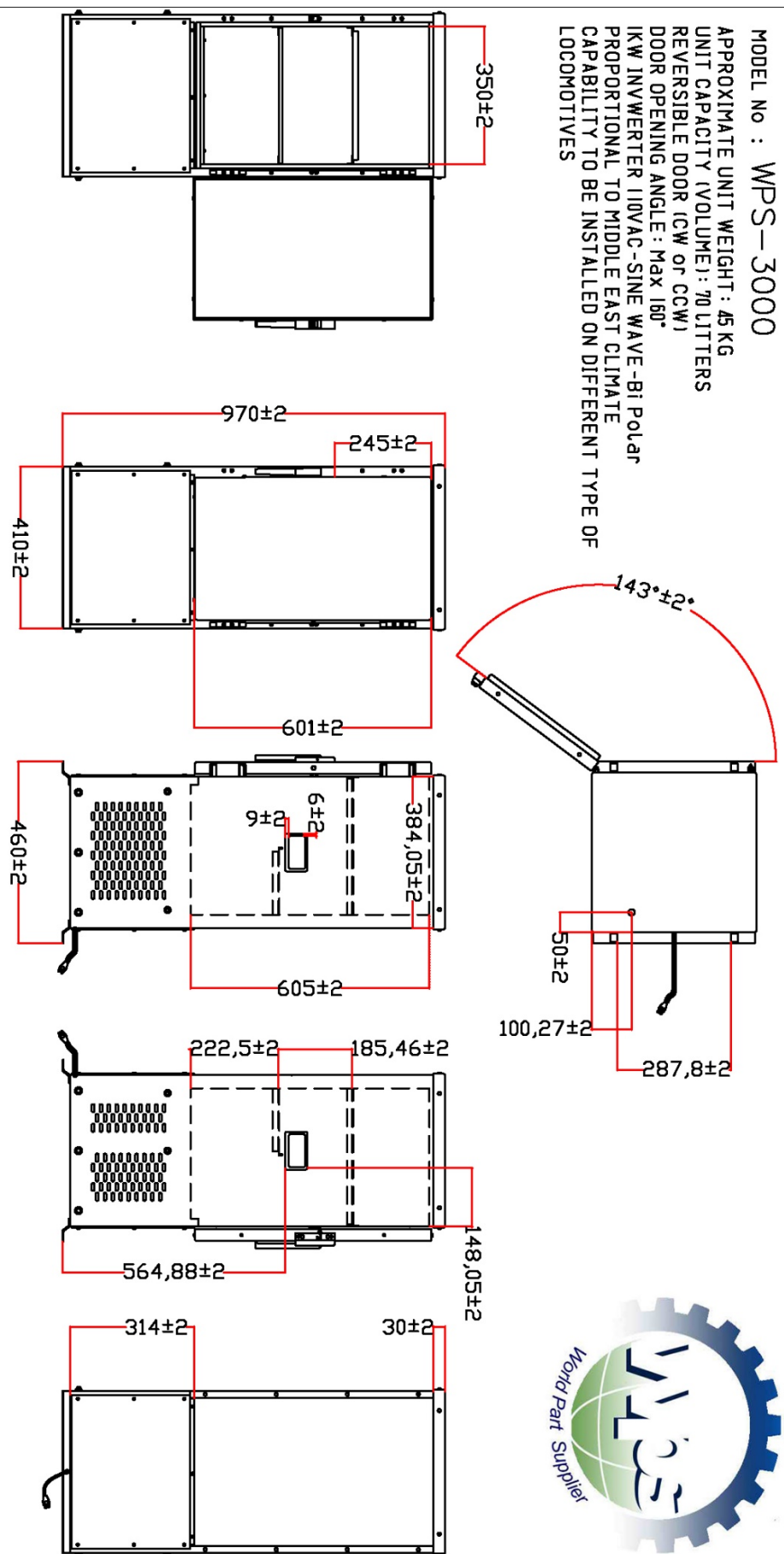
41	Hose, water drainage to the locomotive deck, 0.5m	WPS-3039	O311053A	A.R
42	Disinfection and cleaning spray of steel body	WPS-3042	N/A	A.R
43	Steel body of refrigerator, complete set	WPS-3027	N/A	1
44	Bolt, Internal section cover L-shape bar holder	WPS-3044	N/A	3

(*Items marked by star will be offered in modified condition and you may need to devise new layout.

10- List of Technical Drawings and Wiring Schematics for WPS-3000:

- | | | | |
|----|--|------------------|---------|
| 1. | DWG of External and Top View of Refrigerator With All Dimensions | WPS-3100-REF | 2Pages |
| 2. | DWG of Parts and Part Numbers Table | WPS-PN-LIST-3101 | 2 Pages |
| 3. | Wiring Schematics and Electrical Elements Connection | WPS-3102-REF | 1 page |

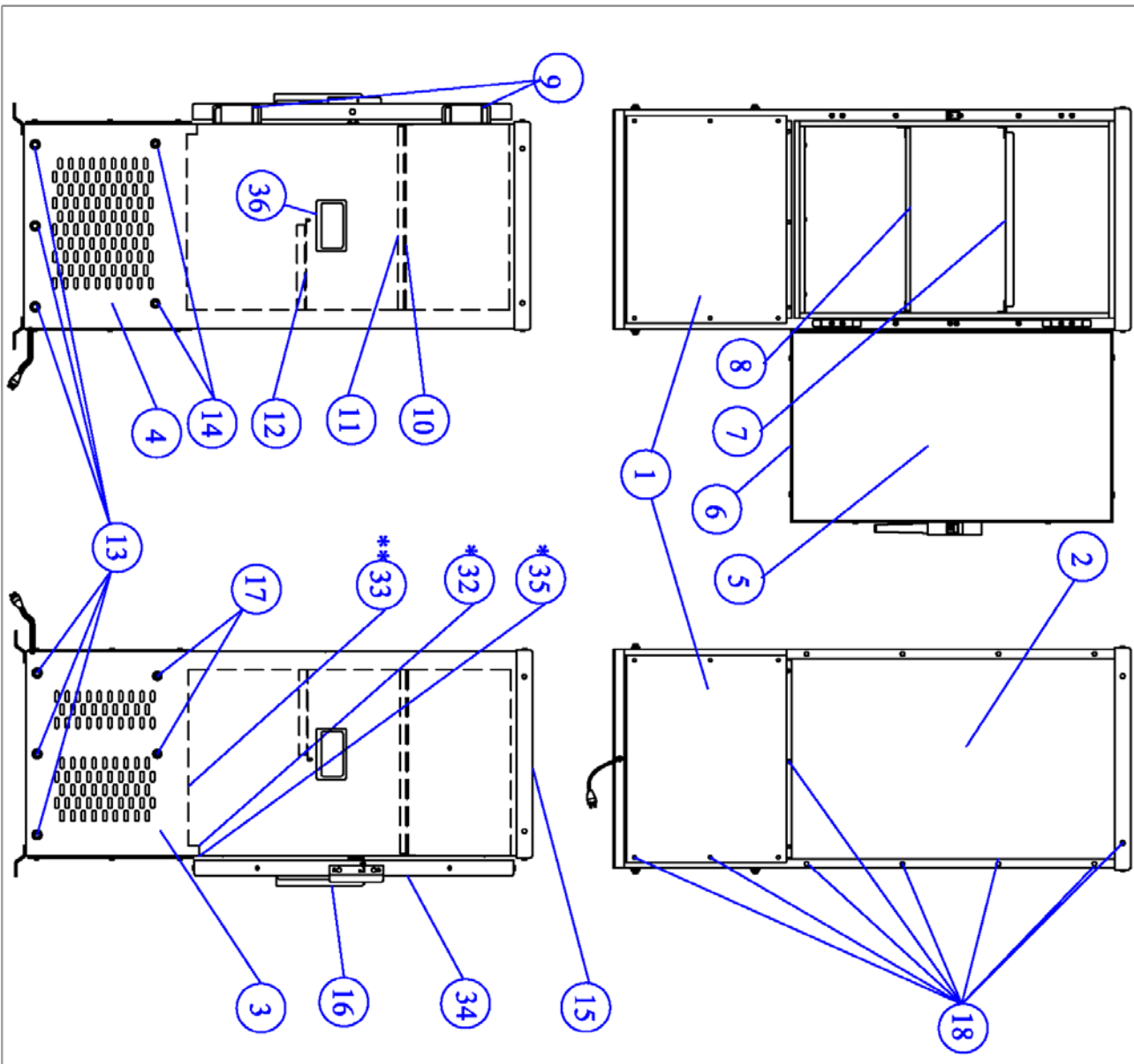
MODEL No : WPS-3000
 APPROXIMATE UNIT WEIGHT : 45 KG
 UNIT CAPACITY (VOLUME) : 70 LITERS
 REVERSIBLE DOOR (CW or CCW)
 DOOR OPENING ANGLE : Max 160°
 IKW INVERTER 110VAC-SINE WAVE-Bi Polar
 PROPORTIONAL TO MIDDLE EAST CLIMATE
 CAPABILITY TO BE INSTALLED ON DIFFERENT TYPE OF
 LOCOMOTIVES



The power cord will be supplied without receptacle. We insist to connect the power cord directly to the terminals on the terminal board of control stand. Please refer to the wiring schematic of refrigerator. The length of power cord is 2m. Power cord is anti noise 2 strings.

VIEW OF UNIT EXTERNAL BODY AND INNER CONTAINER		ANSI/ASME Y14.5M	WORLD PART SUPPLIER	DRAWN BY	DATE	REV
ALL DIMENSIONS ARE IN MM UNLESS IT IS MENTIONED IN DWG			#110, 77 Finch Avenue E. Toronto, ON - Canada P.O.Box M2N 6H8 Tel: +1 647 984 1386	B.M.	NOV 2017	A
www.WPSupplier.com					DWG SIZE	PAGE
WPS-3100-REF					A4	1 OF 2





PLEASE CONSIDERING THE ITEM NUMBER, CHECK THE SECOND PAGE OF PARTS LIST TO FIND OUT ABOUT THE PART NUMBERS

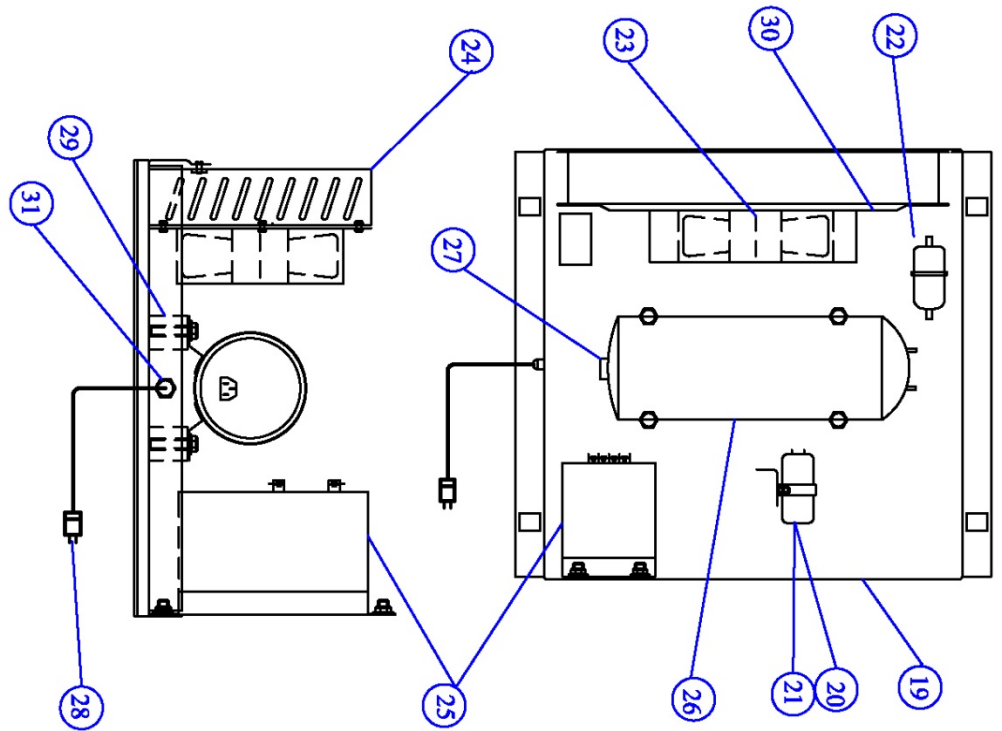
*, **: ALL ITEMS INDICATED BY STAR ARE INVISIBLE IN THIS VIEW

**: IN ORDER TO ABSERVE THE HYGIENE ,THIS PART IS COATED WITH SPECIAL POLYMER

PART NUMBERS AND ITEM INDICATOR DRAWING				
ANSI/ASME Y14.5M	WORLD PART SUPPLIER #110, 77 Finch Avenue E, Toronto, ON - Canada P.O.Box: M2N 6H8 Tel: +1 647 984 1386	DRAWN BY	DATE	REV
ALL DIMENSIONS ARE IN MM UNLESS IT IS MENTIONED IN DWG		B. M	NOV 2017	A
www.WPSupplier.com	WPS-PN-LIST-3101		DWG SIZE	PAGE
			A4	1 OF 2

WORLD PART SUPPLIER REFRIGERATOR PARTS LIST

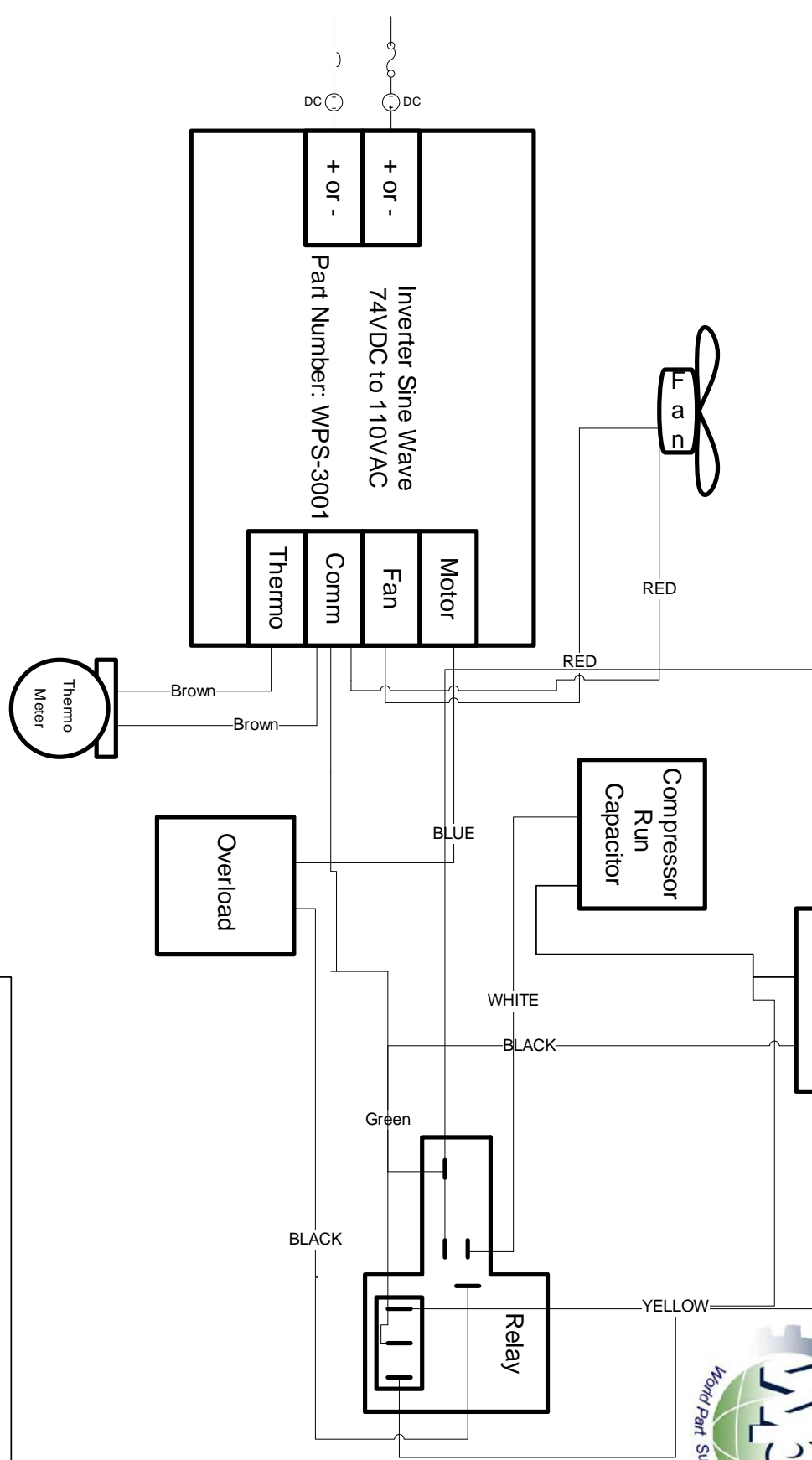
ITEM	PART NUMBER	DESCRIPTION	QTY/UNIT
1	WPS-3037	INSPECTION PLATES REAR AND FRONT	2
2	WPS-3016	REAR COVER PLATE - ST37	1
3	WPS-3014	RIGHT SIDE BODY PLATE - ST37	1
4	WPS-3015	LEFT SIDE BODY PLATE - ST37	1
5	WPS-3019	DOOR INNER PLATE - STEEL	1
6	WPS-3026	DOOR SEALING RUBBER - EXCLUSIVE	1
7	WPS-3021	REFRIGERATOR UPPER SHELF - STEEL	1
8	WPS-3020	REFRIGERATOR MIDDLE SHELF - STEEL	1
9	WPS-3009	DOOR HINGES	2
10	WPS-3022	SHELF'S DRAWER UPPER PIECE	2
11	WPS-3023	SHELF'S DRAWER BOTTOM PIECE	2
12	WPS-3024	REFRIGERATOR MIDDLE SHELF HOLDER	2
13	WPS-3034	BODY PLATES TO BASE PLATE HOLDER	6
14	WPS-3036	PLUG	2
15	WPS-3017	REFRIGERATOR TOP PLATE	1
16	WPS-3010	DOOR HANDLE	1
17	WPS-3035	INVERTER HOLDER BOLT	2
18	WPS-3033	BODY SELF TAPPING BOLT	34
19	WPS-3028	BASE STRUCTURAL PLATE ASSEMBLY	1
20	WPS-3007	COMPRESSOR RUNNING CAPACITOR	1
21	WPS-3006	COMPRESSOR DRIVING CAPACITOR	1
22	WPS-3008	REFRIGERANT DRYER	1
23	WPS-3005	BLOWER FAN - ON PLATE MOUNTING	1
24	WPS-3004	CONDATION RADIATOR - EXCLUSIVE	1
25	WPS-3001	INVERTER 74VDC/110VAC 1KW SINE WAVE	1
26	WPS-3002	ROTARY COMPRESSOR 110VAC	1
27	WPS-3003	OVERLOAD RELAY	1
28	WPS-3008	POWER 2 STRINGS CABLE- ANTI NOISE	A.R
29	WPS-3032	VIBRATION DAMPER - TEFLON POLYMER	4
30	WPS-3031	FAN HOLDER PLATE - FAN TO RADIATOR	1
31	WPS-3012	CABLE FITTING AND HOLDER- STEEL	1
32	WPS-3043	REFRIGERATOR INNER CONTAINER PIECE	1
33	WPS-3025	REFRIGERATOR BOTTOM DRAIN SHELF	1
34	WPS-3018	REFRIGERATOR DOOR EXTERNAL PLATE	1
35	WPS-3044	REFRIGERATOR CONTAINER L-SHAPE HOLDER BOLT	3
36	WPS-3030	REFRIGERATOR LIFTING HANDLE	2



PART NUMBERS AND ITEM INDICATOR DRAWING

ANSI/ASME Y14.5M	WORLD PART SUPPLIER	DRAWN BY	DATE	REV
ALL DIMENSIONS ARE IN MM UNLESS IT IS MENTIONED IN DWG	#110, 77 Finch Avenue E., Toronto, ON - Canada P.O.Box: M2n 6H8 Tel: +1 647 9884 1386	B. M	NOV 2017	A
www.WPSupplier.com	WPS-PN-LIST-3101		DWG SIZE	PAGE
			A4	2 OF 2

TITLE
Wiring Diagram schematic of Refrigerator Part Number WPS-3000



Item	Description	Part Number	QTY
1	Thermometer non adjustable	WPS-3011	1
2	Inverter 1KW Sine Wave	WPS-3001	1
3	Compressor rotary 110VAC	WPS-3002	1
4	Condenser Cooling Fan	WPS-3005	1
5	Overload relay	WPS-3003	1
6	Compressor RUN Capacitor	WPS-3007	1
7	Compressor Start Capacitor	WPS-3006	1

World Part Supplier Inc.	
Date: 2017-11-10	Wiring Schematics of Refrigerator
Revision: REV B	Size: A4
Approve: Tech Ming	Design: E. Altin
All rights reserved for World Part Supplier Co.	
/www.WPSupplier.com	
WPS-3102-REF	

