# UPM

IKT201+IKR202+IKR203
programmable timer and remote control set

OWNER'S MANUAL

The IKT201 is a programmable timer and remote control, capable of controlling multiple receivers. The IKR202 and IKR203 are on/off receiver units. However, the IKR203 has the additional function of dimmer control. The IKT201 remote can control multiple receivers, on up to ten channels, to automate the lighting or other devices in your home. Additional remote units may be purchased, but please note that this kit contains only one of each unit.
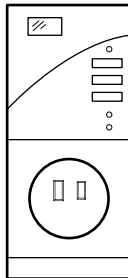
FEATURES

- Remote on/off control
- Dimmer control
- Programmable timer
- Program functions: grouping, random, shut-off delay
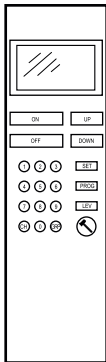
IKT201
Remote
Control
and
Programmable
Timer
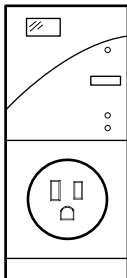
IKR202
Remote
ON/OFF
Receiver

IKR203
Remote
ON/OFF
and
DIMMER
Receiver

TABLE OF CONTENTS

TABLE OF CONTENTS

BATTERIES

- Open the battery cover on the back of the unit.

- Insert 3 AAA batteries.

- Close the battery cover.

Note: Batteries are not required for receivers
as they are powered through the wall socket.

SET THE TIME AND DATE

NOTE: If the screen is displaying the incorrect language,
please see the LANGUAGE SELECTION section.

SET TIME

1) Press [FUNCTION][9]

2) Alternate between 12 and 24 hour format by pressing [UP]

3) Press [SET] to continue.

FUNCTION:
00:00

CLOCK ▶24HR
00:00

CLOCK ▶24HR
00:00

CLOCK ▶12HR
00:00

TIME ▶XX:XX
00:00

4

SET THE TIME AND DATE

3.1) 24 hour display. Enter the time, for example, 15.00.
Press [1],[5],[0],[0]

```
TIME ▶15:00
00:00 ◢ ▬
```

3.2) 12 hour display. Enter the time, for example,3.00 AM.
Press [0],[3],[0],[0], [DOWN]
For 3.00 PM, press [0],[3],[0],[0],[UP]

```
TIME ▶XX:XXAM
00:00 ◢ ▬
```

3.3) Press [SET] again to confirm

```
TIME ▶XX:XXPM
00:00 ◢ ▬
```

4) Enter the day of the week.
Press [UP] or [DOWN] to change the day of the week.

```
DAY ▶ TUE
15:00 ◢ ▬
```

Sunday (SUN)
Monday (MON)
Tuesday (TUE)
Wednesday (WED)
Thursday (THU)
Friday (FRI)
Saturday (SAT)

5) Press [SET] to continue.

PROGRAM THE RECEIVER

The receivers must be programmed to recognize signals from the remote control. Each receiver must be assigned a channel from 1 to 10. Receivers may be given their own channel, enabling the remote to control each unit individually, or they may be controlled as part of a group. Any receivers assigned to the same channel group will be issued the same commands at the same time.
(For example, one may choose to activate their lighting and home stereo system with a single command.)
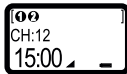
1) Place the receiver in the wall socket.

2) Press [FUNCTION] [6]

3) Select channel (1-10), for example, press [1]

4) Press down any of the buttons on the receiver within 10 seconds. The red light on the receiver will start to flash to indicate that the receiver has detected the signal from the remote control. [OK] appears on screen to inform you that the signal detection IKT201 has ended.

5) Press [FUNCTION] on the remote control. If you have several receivers, repeat steps 1-5 choosing other channels. (up to 10 channels.

```
FUNCTION:
00:00
```

```
SETUP CH. ?
15:00
```

```
PRESS RCV .1
15:00
```

```
❶
OK
15:00
```
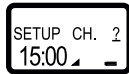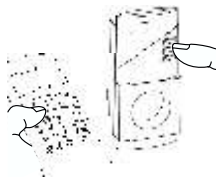
RECEIVER CONTROL

CHOOSE CHANNELS

1) To choose one or more channels (receiver)press [CH]

2) Choose, for example select receiver 2 by pressing [2].
   The chosen channels are shown on the top row
   of the remote control display.

3) If you want to control several receivers at the same time,
   for example, receivers 1 and 2, press [CH]
   [1] and [2]

4) To clear the chosen channels press [CH] again.

5) To choose all 10 channels press [CH] once again.

<div align="right">

```
CH:
15:00
```

```
    ❷
CH:2
15:00
```

```
  ❶❷
CH:12
15:00
```

```
CH:
15:00
```

```
❶❷❸❹❺❻❼❽❾❿
CH: ALL
15:00
```

</div>
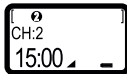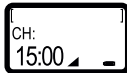
COMMAND FUNCTIONS

ON/OFF
1) Choose the channel(s)
2) Press [ON] to switch on
3) Press [OFF] to switch off

```
0
FULL ON
15:00
```

```
0
OFF
15:00
```

DIMMER
Increase or decrease the brightness. (NOTE: This only applies to receivers with the dimmer function. The dimmer feature is incompatible with compact fluorescent lighting.)
1) Choose the channel(s)
2) Press [UP] to increase the brightness
3) Press [DOWN] to reduce the brightness

```
0
BRIGHTER
15:00
```

```
0
DIMMER
15:00
```

BRIGHTNESS
1) Choose the channel(s)
2) Press [LEV]
3) Choose brightness 1-9, for example level 5, Press [5]

```
0
LEVEL   (1-9)
15:00
```

```
0
SET TO LEV.5
15:00
```
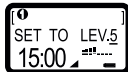
GRADUAL ON/OFF or INSTANT ON/OFF
Press [FUNCTION] [1] to switch between gradual on/off and instant on/off. In gradual mode the lights are switched on and off by slowly increasing or decreasing brightness. In instant mode the lights are switched on and off immediately.

```
0
GRADUAL
15:00
```

```
0
INSTANT
15:00
```

PROGRAMMING

GROUPING

Instead of choosing channels one by one, you can group and name different channels.(e.g. living-room, bedroom, hall, etc.) This allows you to keep track of different receivers who you would often use at the same time and select to turn all at once.
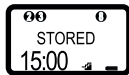
1) Select group number, for example group 1, by pressing [GRP] [1]. Then scroll between the groups by pressing [UP] or [DOWN]

2) Press [SET] to enter the group name. Use the number keys to enter letters and [UP] and [DOWN] to move the cursor. A maximum of 10 characters can be used.

3) Press [SET] to confirm the name.

4) Enter which channels should belong to the group, for example channels 2, 3 and 8 by pressing the corresponding number keys.

GROUP: _
15:00

1)
15:00

1)_
15:00

1)HALL
15:00

CH:
15:00

CH:238
15:00

PROGRAMMING

GROUPING CONTINUED

5) Press [SET] to save the group.
   You can edit the groups by carrying out
   steps 1-5 to write over or change them.

CHOOSE GROUP

1) Select group number, for example, 1, by pressing [GRP] [1]
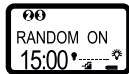   Scroll between the groups using [UP] or [DOWN]

RANDOM ON/OFF

This function switches chosen lights on and off at random
time intervals.

1) Select the channel(s) or group.

2) Press [FUNCTION] [3]. The function is
   confirmed by the light being switched off if it was on or
   switched on if it off. An R on the LCD display on the
   receiver indicates the function is active.

NOTE: The random function is deactivated if new commands
are sent to the chosen channel(s) using the remote control, by
pressing keys on the receiver, or if the receiver is removed from
the wall socket.

PROGRAMMING

DELAY SHUT OFF
The delay function switches off the chosen lights after
a predefined time period. Set by channel or by group.

CHANNEL(S):
1) Press [CH] then the number.
2) Press [FUNCTION] [2]
3) Enter the length of the delay time,
   for example 15 minutes.
(NOTE: The time can be between 1-99 minutes.
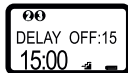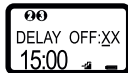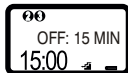Pressing any key again will deactivate the function.)

GROUP:
1) Press [GRP] then the number.
2) Press [FUNCTION] twice, then [2]
3) Enter the length of the delay time,
   for example 15 minutes.
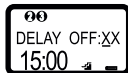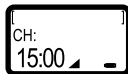(NOTE: The time can be between 1-99 minutes.
Pressing any key again will deactivate the function.)

CH:
15:00

DELAY OFF:XX
15:00

OFF: 15 MIN
15:00

GROUP: _
15:00

DELAY OFF:XX
15:00

DELAY OFF:15
15:00

PROGRAMMING

TIMER PROGRAMMING

1) Press [PROG]
2) Select the program number (01-16).
   Press [0],[1] for program 1
   (If any programs have previously been entered, the program settings will display, otherwise the display will say EMPTY.)
3) Press [SET] to continue.
4) Enter the time when you would like the program to begin, for example, 6 PM.
   To enter AM/PM press [UP] or [DOWN]
5) Select the day by pressing [UP] or [DOWN]

Sunday (SUN)
Monday (MON)
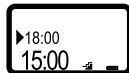Tuesday (TUE)
Wednesday (WED)
Thursday (THU)
Friday (FRI)
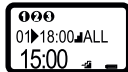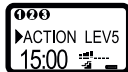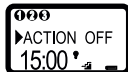Saturday (SAT)
Monday-Friday (M-F)
Saturday-Sunday (SAT-S)
Complete week (ALL)

PROGRAM▶ XX
15:00

01▶EMPTY
15:00

01▶18:00▲MON
15:00

▶XX:XX
15:00

▶18:00
15:00

PROGRAMMING

TIMER PROGRAMMING CONTINUED

6) Press [SET] to continue.

7) Choose the channel(s)
   For example, press [2] for channel 2.

8) Press [SET] to continue.

9) Select the command
   On = Press [ON]
   Random on/off = Press [ON] once again.
   Off = press [OFF]
   Preset brightness =LEV
   Press [LEV] and then a number for the level (1-9)

10) Press [SET] to save the program.

11) You can scroll between the programs by pressing
    [UP] or [DOWN]
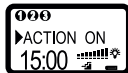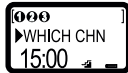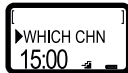
PROGRAMMING EXAMPLE

The example shows the following: Switch on a light connected to receiver/channel 1 at 18.00 on Saturdays and Sundays. Switch off the same light at clock 23.00 on Saturdays and Sundays.

Each ACTION (ON and OFF) requires a program, i.e. this example will need two programs saved as PROG 01 and PROG 02.

PROGRAM 1 - Switch ON:

[PROG]

[0],[1]

[1],[8],[0],[0]

[SET]

[DOWN] (repeatedly until S-S appears)

[SET]

PROGRAM▶ XX	15:00
01▶EMPTY	15:00
▶XX:XX	15:00
▶18:00	15:00
▶DAY S-S	15:00
▶WHICH CHN	15:00
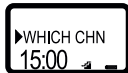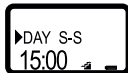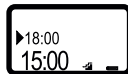
── PROGRAMMING EXAMPLE

[1]

[SET]

[ON]

[SET]

PROGRAM 2 - Switch OFF:

[1]

[PROG]

[0],[2]

[2],[3],[0],[0]

[SET]

▶WHICH CHN 15:00	
▶ACTION 15:00	
▶ACTION ON 15:00	
01▶18:00 S-S 15:00	
PROGRAM▶ XX 15:00	
02▶EMPTY 15:00	
▶XX:XX 15:00	
▶23:00 15:00	
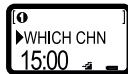
PROGRAMMING EXAMPLE

[DOWN] (repeatedly until S-S appears)

[SET]

[1]

[SET]

[OFF]

[SET]

```
▶DAY S-S
15:00
```

```
▶WHICH CHN
15:00
```

```
[0          ]
▶WHICH CHN
15:00
```

```
0
▶ACTION
15:00
```

```
0
▶ACTION OFF
15:00
```

```
0
01▶18:00 S-S
15:00
```

16
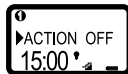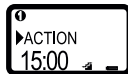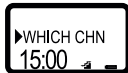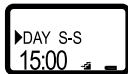
PROGRAMMING

DEACTIVATE TIMER PROGRAM
1) Choose the program.
   Press [PROG] and then the program number.
2) Press [OFF]

```
 ○○○
01▶18:00◢ALL
 15:00  ◢  ▬
```

```
01▶DISABLED
 15:00  ◢  ▬
```

ACTIVATE TIMER PROGRAM
1) Choose the program.
   Press [PROG] and then the program number.
2) Press [ON]

OTHER FUNCTIONS

<u>Key sound and background lighting on/off</u>
1) Press [FUNCTION] [5]
2) Scroll with [UP] or [DOWN] to adjust the key sound.

ON= Beeps only with specific command functions
OFF= Sound off (silent)
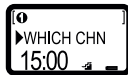CLICK= Sound on with every key stroke

3) Press [SET] to adjust background lighting.
4) Scroll with [UP] or [DOWN] to switch the
   background lighting on or off.
5) Press [SET] to adjust preference.

```
BEEP: ON
 15:00  ◢  ▬
```

```
BEEP: OFF
 15:00  ◢  ▬
```

```
BEEP: CLICK
 15:00  ◢  ▬
```

```
BKLIGHT: ON
 15:00  ◢  ▬
```

OTHER FUNCTIONS

KEY LOCK is a feature that disables the remote control buttons, so that pressing button keys accidentally will not affect the operation. The user must enter a three digit code to turn this feature on or off.

ENTER THE "LOCK" CODE
1) Press [FUNCTION] [7]
2) Enter a 3-digit code.
3) Press [FUNCTION] twice.

```
NEW LOCK:XXX
15:00
```

KEY LOCK ON
1) Press and hold down [FUNCTION] for 3 seconds to lock.

```
LOCKED: _
15:00
```
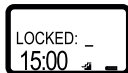
KEY LOCK OFF
1) Enter your 3-digit code.

```
UNLOCKED!
15:00
```
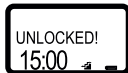
NOTE: If you forget your code you can deactivate the key lock by removing and then reinserting the batteries. This will also clear the clock.

LCD CONTRAST
1) Press [FUNCTION] [4]
2) Choose contrast numbers 0-9 by pressing [UP] and [DOWN] to increase or decrease the contrast.

```
CONTRAST: _
15:00
```

OTHER FUNCTIONS

LANGUAGE SELECTION
The transmitter offers three language options.
(English, French, Spanish)

1) Press [FUNCTION] [0]
2) Press [UP] or [DOWN] to choose a language.
3) Press [SET]

```
1 ENGLISH
15:00
```

CHANGING THE SYSTEM CODE
The remote control transmitter automatically selects a system
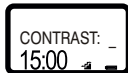code when you insert the batteries. However, if your neighbour
also owns the same model of remote control, and by chance
has the same system code, you may experience an operating
disturbance called interference.

```
SYSTEM# :03
15:00
```

To manually change the system code:
1. Press [FUNCTION] [8]
2. Enter two digits for the system code (ranging from 01-16)
3. Press [FUNCTION]

All receivers must be reprogrammed if a new system code
is chosen, see the "PROGRAM THE RECEIVER" section to
complete this operation.

NOTE: All the functions available can be displayed again and
selected by pressing [FUNCTION] and the [UP] and [DOWN]
button. The user can scroll through and select the functions
in case they do not remember which function number.
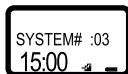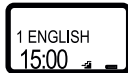
DIMMER RECEIVER (IKR203)

DIMMER RECEIVER (figure 2 - DIAGRAM SECTION)
The dimmer receiver is only intended for dimming lighting units.
Do not connect CFL or fluorescent lights to this unit. The maximum
load for the IRK203 is 200W.

Installation:
1) Insert the dimmer receiver in the outlet socket.
   The main green light will be on whenever the receiver
   is connected to a power supply.
2) Connect the lamp(s) to the receiver.

Manual on/off:
1) Press [ON/OFF] to switch the lamp on or off. The red output light will
   be on whenever the receiver is plugged in and connected to a lamp.

Manual brightness:
Press [UP] to increase the brightness.
Press [DOWN] to reduce the brightness.

The receiver will store in it's memory the brightness setting.
For example, if you switch off the lamp at a set brightness level 5,
it will switch on the lamp at the brightness level 5 as well.

DIMMER RECEIVER (IKR203)

Deactivate receiver reception:
1) To prevent the dimmer receiver from receiving signals from the remote control, press and hold down the receiver's [ON/OFF] key for 3 seconds.
2) To restore signal reception, press and hold down the receiver's [ON/OFF] key for 3 seconds again.

The 🕱 symbol is shown on the receiver's LCD display.

Reset Receiver:
If the receiver's LCD display is blank, or it does not react when keys are pressed, the receiver may need to be reset.

Press the small [R] key on the receiver. The receiver will temporarily shut off and all settings will go back to default.

ON/OFF RECEIVER (IKR202)

ON/OFF RECEIVER (figure 3 - DIAGRAM SECTION)

Installation:
1) Insert the on/off receiver in the outlet socket.
   The main green light will be on whenever the
   receiver is connected to a power supply.
2) Connect to a lamp(s) or another device to the receiver.

Manual on/off:
1) Press [ON/OFF] to switch the lamp on or off. The red
   output light will be on whenever the receiver is plugged in
   and connected to a lamp or another device.

Deactivate receiver reception:
1) To prevent the on/off receiver from receiving signals
   from the remote control, press and hold down the
   receiver's [ON/OFF] key for 3 seconds.
2) To restore signal reception, press and hold down
   the receiver's [ON/OFF] key for 3 seconds again.

The ⚡ symbol is shown on the receiver's LCD display.

TECHNICAL DATA

Remote Control (IKT201)
Range: 25 m clear view.
                   (Walls and other objects may limit
                   the range.)
Batteries: Three AAA
Frequency: 433MHz.

Dimmer receiver (IKR203)
Mains voltage: 120VAC, 60Hz
Load: 20-200W
                  NOTE: Only incandescent
                  lamps (120V), halogen
                  lamps (120V) and halogen
                  lamps with a transformer
                  (120V) may be connected
                  to the dimmer receiver.

On/off receiver (IKR202)
Mains voltage: 120VAC, 60Hz
Max load: 1800W (resistive),600W (tungsten)

PRODUCT INFORMATION

RECEIVER LOAD - Do not plug any device into the receiver which exceeds it's load capacity. This is unsafe and may overload the receiver.

RECEIVER SETUP - Do not interconnect the receivers. Never connect one receiver to the other and do not put 2 receivers within 6 inches range.

INDOOR USE ONLY - The receivers are for indoor use only. Receivers must not be exposed to temperature below 0℃ or moisture.

REPAIRS - Do not open the receiver or remote control. If a product is defective, return or exchange it at the store from which you purchased it.

CLEANING / **ELECTRICITY SAFETY** - Remove the receiver from the wall socket, then clean it with a slightly damp cloth.

LOW BATTERIES - replace the batteries in the remote control when the battery indicator shows they are empty or when the display appears faded.

TIMER PROGRAMS - if you have programmed the timer in the remote control, the remote must be within the specified distance range of the receiver, as it is the remote control that controls the receiver.
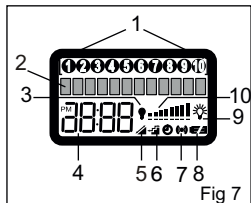
INSTALLATION

Installing the remote control wall bracket
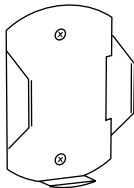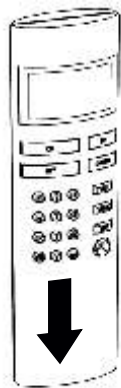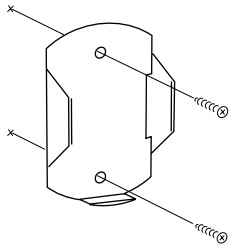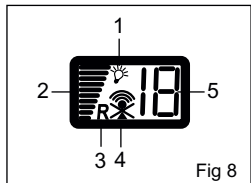
LCD DISPLAY DIAGRAM

Remote control (figure 7)
1. Channels
2. Text
3. Off symbol
4. Clock
5. Gradual on/off symbol
6. Instant on/off symbol
7. Signal symbol
8. Battery capacity symbol
9. On symbol
10. Brightness
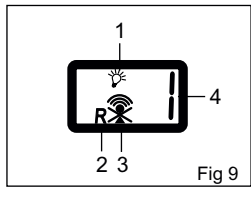
Dimmer receiver (figure 8)
1. On symbol
2. Brightness
3. Random on/off
4. Reception symbol
5. Channel number

On/off receiver (figure 9)
1. On symbol
2. Random on/off
3. Reception symbol
4. Channel number

Fig 7

Fig 8

Fig 9

REMOTE CONTROL DIAGRAM

Remote control (figure 1)

1. LCD display
2. (ON)
3. (OFF)
4. Number/letter keys
5. Channel (CH)
6. Group (GRP)
7. Brighter/Menu selection (UP)
8. Darker/Menu selection (DOWN)
9. (SET)
10. Programming (PROG)
11. Brightness level (LEV)
12. Function

Fig 1

RECEIVER DIAGRAMS
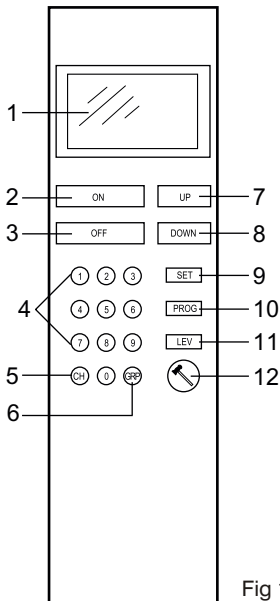
Dimmer receiver (figure 2))
1. LCD display
2. (RESET)
3. Brighter (UP)
4. On/Off
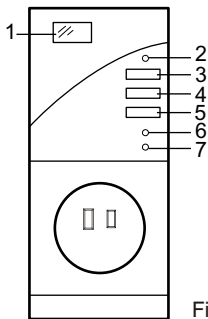5. (DOWN)
6. (MAIN)
7. (OUTPOUT)

ON/OFF receiver (figure 3)
1. LCD display.
2. (RESET)
3. (ON/OFF)
4. Main connection (MAIN)
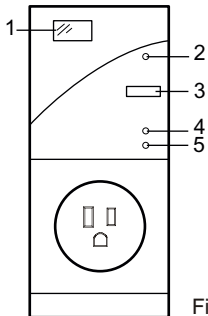5. (OUTPUT)

Fig 2

Fig 3

FCC COMPLIANCE

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

• Reorient or relocate the receiving antenna.
• Increase the separation between the equipment and receiver.
• Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
• Consult the dealer or an experienced radio/TV technician for help.

Warning: Changes or modifications made to this equipment not expressly approved may void the FCC authorization to operate this equipment.

UPM NOTE - THIS FCC WARNING IS DIFFERENT TO THE ONES WE USED BEFORE, TECHNICAL VERIFICATION REQUIRED...

LIMITED ONE-YEAR WARRANTY

This product is warranted, excluding battery, to be free from defects in the materials or workmanship, under normal use and service, for a period of one (1) year from the date of purchase by the consumer.

If the product is defective, return it, with a dated proof of purchase, to the retailer from which you purchased it.

This warranty shall not apply if the defect or malfunction was caused by damage which occurred while the product was in the possession of the consumer. This includes accidental dropping or abuse of the product.

THE MANUFACTURER SHALL NOT BE LIABLE FOR ANY LOSS OR DAMAGE OF ANY KIND, INCLUDING ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING, DIRECTLY OR INDIRECTLY, FROM ANY BREACH OF ANY WARRANTY, EXPRESS OR IMPLIED, OR ANY OTHER FAILURE OF THIS PRODUCT.

THIS WARRANTY IS THE ONLY EXPRESS WARRANTY ON THIS PRODUCT.
THE DURATION OF ANY IMPLIED WARRANTIES, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, IS HEREBY LIMITED TO THE THREE YEAR DURATION OF THIS WARRANTY.

If you have any questions concerning this warranty, please call our customer service centre at 1-888-468-6876, Monday to Friday, from 9:00am to 5:00pm MST

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