	GROUP ELE	MODEL Multiple Models (See table below)
	NUMBER 077	DATE December 2014
TECHNICAL SERVICE BULLETIN		
SUBJECT: REAR VIEW CAMERA DIAGNOSIS/REPLACEMENT		

This bulletin provides information to diagnose and/or replace the rear view camera of some Kia vehicles (see table below for specific models and production dates) which may exhibit inadequate image quality from the rear view camera. Possible concerns include:

- Blurry image quality
- Foreign material intrusion (i.e. water, dust, etc.)
- Intermittent operation from the rear view camera
- Missing on-screen parking guidelines/black or blank AVN screen when in reverse

Diagnose the concerns above using the information in this bulletin and, if necessary, replace the rear view camera with an improved part by following the applicable service procedure on KGIS.



Model	Production Date Range
Sorento (XMa) / 2012-2013*	October 03, 2011 ~ January 31, 2013
Sorento (XMa) / 2013-2014*	December 17, 2012 ~ July 23, 2014
Optima (TF) / 2013-2014*	April 03, 2011 ~ August 23, 2013
Optima (TF HEV) / 2012-2014*	August 09, 2011 ~ December 12, 2013
Optima (QF) / 2012-2014*	August 09, 2011 ~ September 27, 2013

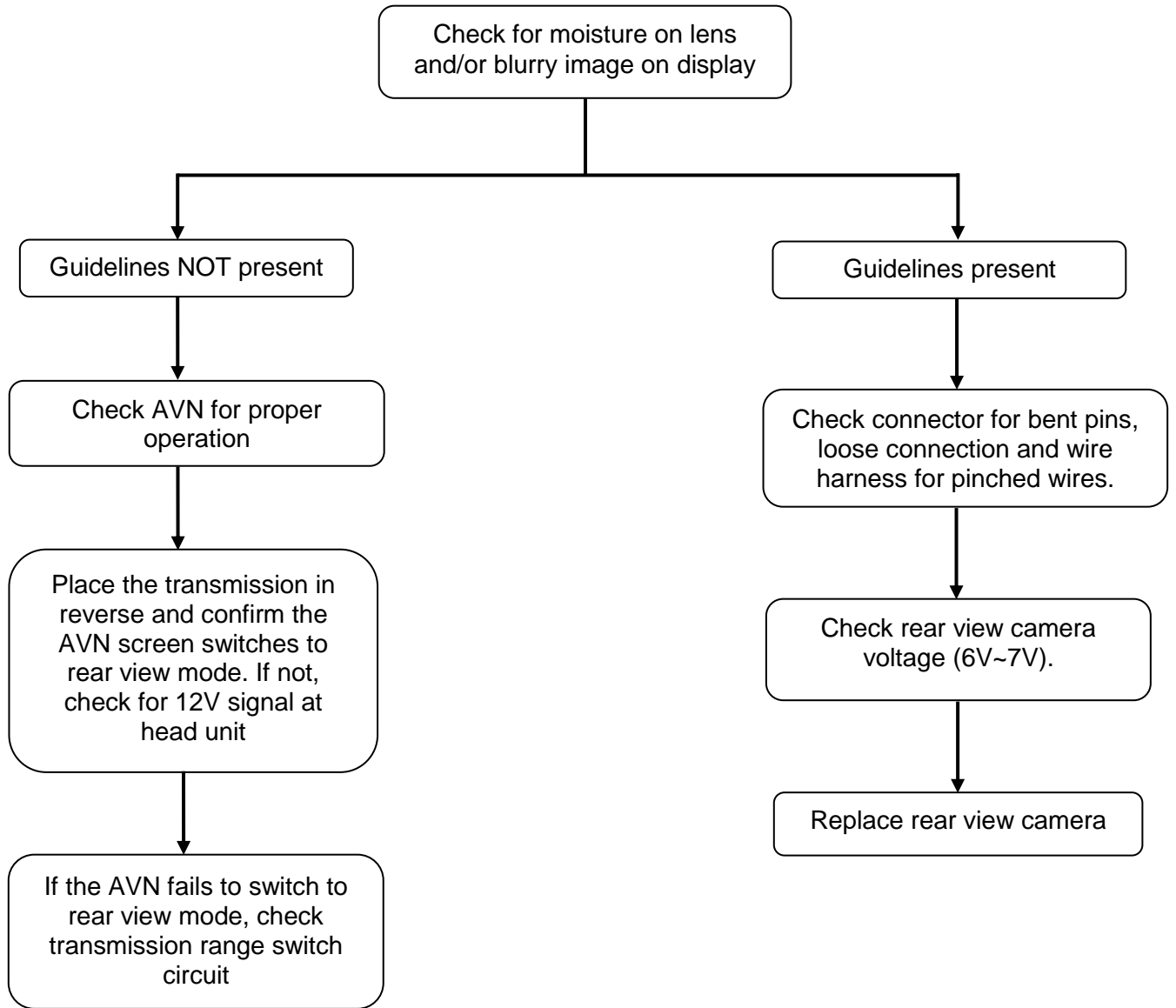
***NOTE: Do not use this repair procedure on vehicles outside the specific production date ranges.**

File Under: <ELECTRICAL>

Circulate To: **General Manager** **Service Manager** **Parts Manager**
 Service Advisors **Technicians** **Body Shop Manager** **Fleet Repair**

SUBJECT: REAR VIEW CAMERA DIAGNOSIS/REPLACEMENT

Diagnostic Flowchart:

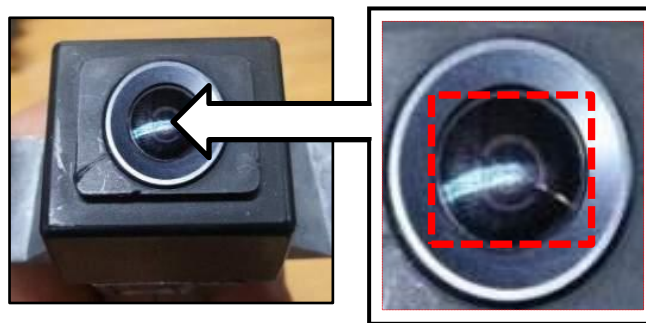


SUBJECT: REAR VIEW CAMERA DIAGNOSIS/REPLACEMENT**Camera Lens Inspection:**

1. Inspect the rear view camera lens for signs of damage due to impact from foreign object. If damage consistent with an impact is found, no further diagnosis is required.

*** NOTICE**

Lens damage due to impact is not considered a warrantable repair.

**Water Intrusion:**

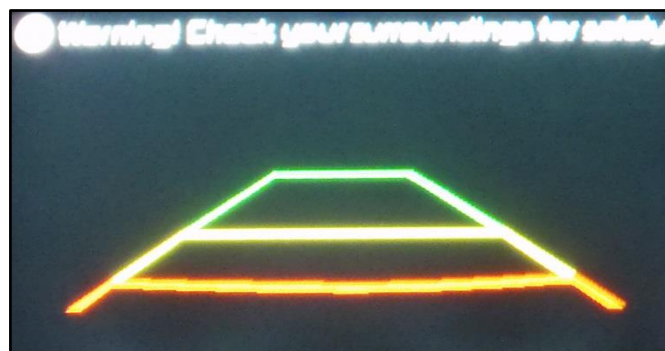
1. Check for blurry image quality on the AVN screen.
2. Inspect the rear view camera lens for signs of condensation forming on the inner surface of the lens and/or possible discoloration or water stains.
3. If water intrusion is evident, replace the rear camera module by referring to the applicable service procedure on KGIS.

**Intermittent Operation:**

1. For customer complaints related to intermittent operation from the rear view camera, perform the following checks:
 - Confirm the parking guidelines are displayed on the AVN screen. If the guidelines are present and the vehicle owner resides in an area with high humidity, snow or rain, replace the rear view camera with an improved part.

*** NOTICE**

For concerns related to intermittent operation, always try to duplicate the customer concern, prior to replacing the rear view camera.



Missing Parking Guide Lines/Black or Blank AVN Screen:

1. If the AVN screen is missing the Parking Guide Lines or displays a black or blank screen, check the AVN system for proper operation:

*** NOTICE**




Missing parking guide lines or a black/blank AVN screen are conditions indicative of an AVN system malfunction, or harness issue related to that system, and not a rear view camera module concern.

2. If the AVN system is functioning properly, perform the following checks:
 - Check the rear view camera wiring harness for pinched or damaged wires.
 - Place the transmission in reverse and confirm the AVN screen switches to rear view mode. If not, check for 12V signal at head unit.
 - If no 12V signal is found at head unit, check the transmission range switch circuit.



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REQUIRED PART:

MODEL	PART NAME	PART NUMBER		Figure
		PREVIOUS	NEW	
Sorento (XMa)	Rear View Camera	95760 2P201/ 95760 2P202	95760 2P202FFF	
Sorento (XMa) F/L		95760 2P600	95760 2P600FFF	
Optima (TF, QF & TF HEV)		95760 2T001/ 95760 2T002	95760 2T002FFF	

AFFECTED VEHICLE PRODUCTION RANGE:

Model/Model Year	*Production Date Range
Sorento (XMa) 2012-2013*	October 03, 2011 ~ January 31, 2013
Sorento (XMa)/2013-2014*	December 17, 2012 ~ July 23, 2014
Optima (TF)/2013-2014*	April 03, 2011 ~ August 23, 2013
Optima (TF HEV)/2012-2014*	August 09, 2011 ~ December 12, 2013
Optima (QF)/2012-2014*	August 09, 2011 ~ September 27, 2013

***NOTE: Do not use this repair procedure on vehicles outside the specific production date ranges.**

WARRANTY INFORMATION:

N Code = M13 C Code = ZZ3

Claim Type	Causal P/N	Qty.	Repair Description	Labor Op Code	Op Time	Replacement P/N	Qty.
W	95760 2P201 Sorento (XMa)	0	(ELE 077) Rear view camera Inspect & Replace	95760F01	0.6 M/H	Refer to parts chart	1
	95760 2T001 Optima (QF/TF/TF HEV)						