

Enhanced Control Panel Protection

SkyGuard™ provides the operator and control panel with enhanced protection that doesn't limit platform workspace or visibility. When the sensor is activated by approximately 50 lbs of force or more, SkyGuard stops all functions in use at the time and its unique reverse functionality – the first feature of its kind in the market – temporarily reverses most functions for a short period of time. SkyGuard is available exclusively from JLG.



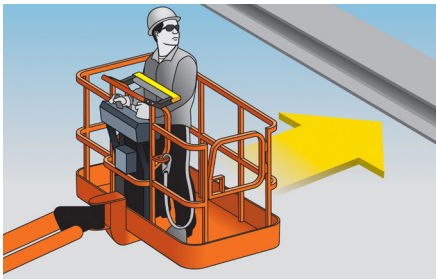
Check out the SkyGuard video at <http://www.jlg.com/en/destination/skyguard>.

Features and Benefits

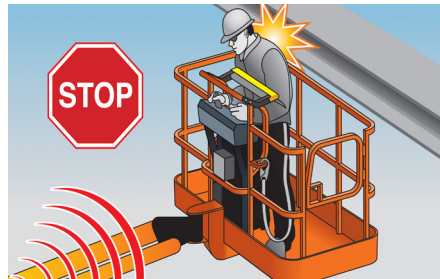
- Can be activated from a variety of angles.
- Sensor bar break away feature for extreme conditions.
- Cuts out functions and temporarily reverses most, but not all, that were in use at the time of activation for less than a second (see table on page 7).
- Does not limit platform workspace or operator visibility.
- No moveable parts means there's no need for scheduled or additional maintenance.
- A horn and optional flashing beacon (sold separately) alert other workers on the jobsite to sensor activation.
- Resets by cycling foot switch or e-stop.

How To Choose Your SkyGuard Parts:

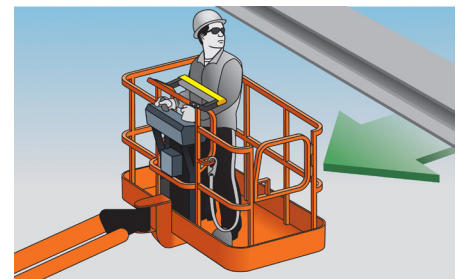
- Refer to **STEP 1** and follow the instructions outlined in **RED**.



Operator moves toward obstruction.



Horn sounds upon operator contact with the bar.



The auto reverse feature activates for most functions (see chart).

Refer to the following page for detailed application information.

STEP 1: SKYGUARD AND MACHINE CAPABILITY IDENTIFICATION CHART

Refer to below chart to determine if machine is capable of being upfitted with SkyGuard.

If machine does not fall within the below serial number ranges, **STOP**, it **cannot** be optioned with SkyGuard.

Machine Model	Serial Number Information
E300A/AJ/AJP	All
E/M400A/AJP	All
E/M450A/AJP	All
E/M600/J/JP	All
340AJ	All
H340AJ	All
400S/460SJ	S/N 0300077555 to Present
450A/AJ Series II	S/N 0300077555-0300201991 excluding 0300199221, 0300199222, 0300199223, 0300199224, 0300200428, 0300201105, 0300201106, 0300201107, 0300201108, 0300201109, 0300201481, 0300201482, 0300201528, 0300201529, 0300201575, 0300201576, 0300201577, 0300201623, 0300201624, 0300201668, 0300201811, 0300201812, 0300201813, 0300201814, 0300201858, 0300201859, 0300201860, 0300201861, 0300201862, 0300201906, 0300201907, 0300201908, 0300201909, 0300201910, 0300201954, 0300201955, 0300201956, 0300201957, 0300201958
	S/N 1300000353 to Present
	Prior to S/N E300002833
450AJ	S/N 0300201991 to Present including 0300199221, 0300199222, 0300199223, 0300199224, 0300200428, 0300201105, 0300201106, 0300201107, 0300201108, 0300201109, 0300201481, 0300201482, 0300201528, 0300201529, 0300201575, 0300201576, 0300201577, 0300201623, 0300201624, 0300201668, 0300201811, 0300201812, 0300201813, 0300201814, 0300201858, 0300201859, 0300201860, 0300201861, 0300201862, 0300201906, 0300201907, 0300201908, 0300201909, 0300201910, 0300201954, 0300201955, 0300201956, 0300201957, 0300201958
	S/N E300002833 to Present
510AJ	S/N 1300000353 to Present
	S/N E300000100 to Present
520AJ	All
600A/AJ	S/N 0300077490 to Present
600S/SJ/660SJ	S/N 0300077490 to Present
600SC/600SJC 660SJC	Gradall Chassis Only Prior to S/N 0300128000
	S/N 0300128000 to Present
680S	All
740AJ	S/N 0300077500 to Present
800A/AJ	S/N 0300077251 to Present
800S/860SJ	S/N 0300079612 to Present
1100S/SJP	All
1200/1350SJP	All
1250AJP	All
1500AJP	All
1500SJ	All
1850SJ	All

Electric Powered Booms - Proceed to STEP 3.

Combustion Powered Booms -

USA manufactured machines prior to S/N 0300143650 - Proceed to **STEP 2**

European manufactured machines prior to S/N 1300006745 - Proceed to **STEP 2**

All other Combustion Powered Booms units - Proceed to **STEP 3.**

STEP 2: UGM UPGRADE REQUIREMENT IDENTIFICATION

Refer to this chart/step for combustion powered booms only.

If machine model is not listed in the below chart proceed directly to **STEP 3 - SKYGUARD SELECTION BASED ON PLATFORM STYLE**.

If machine model is listed below, refer to pictured Ground Control Modules to determine style on your machine.

If machine is equipped with **Style 1**, purchase of a UGM upgrade kit is required.

If machine is equipped with **Style 2**, this kit is not required.

The orientation of the blue J12 connector indicated below determines Ground Module Style.

Style 1



Style 2



P/N format: 1600XXX

P/N format: 1001XXXXXX

Machine Model	Current Kit Part Number
400S/460SJ	1001149676
450A/AJ Series II	1001149676
510AJ	1001149676
600A/AJ	1001149676
600S/SJ/660SJ	1001149676
600SC/600SJC/660SJC	1001149676
680S	1001149676
740AJ	1001149676
800A/AJ	1001149676
800S/860SJ	1001149676
1200/1350SJP	1001173353
1250AJP	1001155078

Proceed to **STEP 3**.

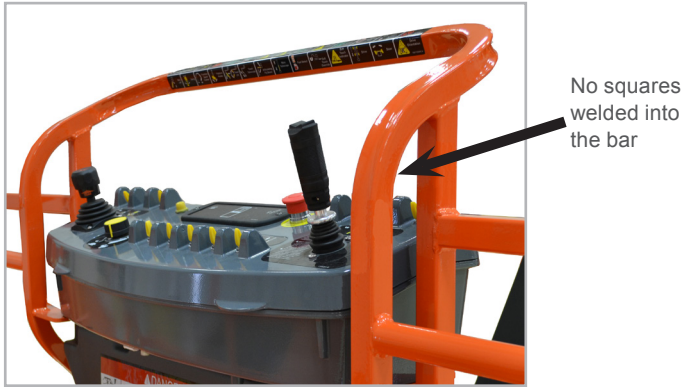
If machine does not fall within the serial number ranges listed in STEP 1 SKYGUARD AND MACHINE CAPABILITY IDENTIFICATION CHART, it cannot be optioned with SkyGuard.

STEP 3: SKYGUARD SELECTION BASED ON PLATFORM STYLE

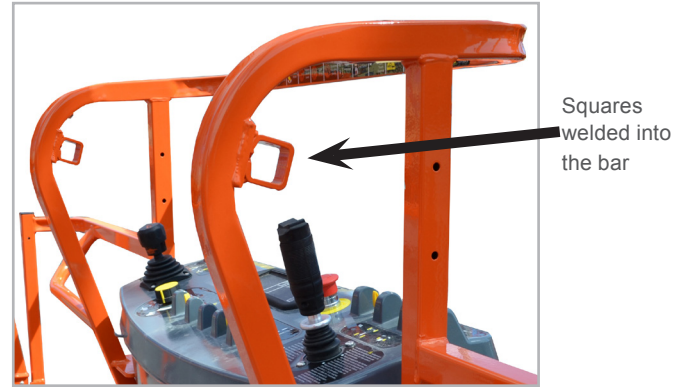
Refer to below pictures to determine platform style that machine is equipped with.

Once confirmed, refer to applicable model and serial number for correct kit part number.

Old Style Platform



New Style Platform



Machine Model	Serial Number Information	Old Style Platform	New Style Platform
E300A/AJ/AJP	Prior to S/N 0300211844	1001149563	1001201620
	S/N 0300211844 to Present	N/A	1001218499
E/M400A/AJP	Prior to S/N 0300208529	1001149563	1001201620
	S/N 0300208529 to Present	N/A	1001218499
E/M450A/AJP	Prior to S/N 0300208529	1001149563	1001201620
	S/N 0300208529 to Present	N/A	1001218499
E/M600/J/JP	Prior to S/N 0300219271 excluding 0300218866, 0300218867 & 0300218868	1001149563	1001201620
	S/N 0300219271 to Present including 0300218866, 0300218867 & 0300218868	N/A	1001218499
340AJ	All	1001149565	1001219694
H340AJ	All	N/A	1001219694
400S/460SJ	S/N 0300077555-0300203771 excluding 0300184729, 0300200144, 0300200145, 0300200476, 0300200477, 0300202446, 0300202447, 0300202448, 0300202449, 0300202450, 0300203261, 0300203262, 0300203307, 0300203308, 0300203351, 0300203352, 0300203394, 0300203395, 0300203439, 0300203440, 0300203580, 0300203581, 0300203582, 0300203583, 0300203584, 0300203628, 0300203629, 0300203630, 0300203631, 0300203632, 0300203677, 0300203678, 0300203679, 0300203680, 0300203681, 0300203724, 0300203725, 0300203727, 0300203728	1001137672	1001197016
	S/N 0300203771 to Present including 0300184729, 0300200144, 0300200145, 0300200476, 0300200477, 0300202446, 0300202447, 0300202448, 0300202449, 0300202450, 0300203261, 0300203262, 0300203307, 0300203308, 0300203351, 0300203352, 0300203394, 0300203395, 0300203439, 0300203440, 0300203580, 0300203581, 0300203582, 0300203583, 0300203584, 0300203628, 0300203629, 0300203630, 0300203631, 0300203632, 0300203677, 0300203678, 0300203679, 0300203680, 0300203681, 0300203724, 0300203725, 0300203727, 0300203728	N/A	1001203510

(Continues on Page 5)

NOTES:

- SkyGuard for Old Style Platforms cannot be used with optional platform console cover.
- Beacons are optional and sold separately
- To facilitate installation of SkyGuard from an Old Style Platform to a New Style Platform, customer will need to purchase SkyGuard Update Kit (JLG P/N 1001199928).
- Replacement shear blocks - for old style platform order P/N 1001137681; for new style platform order P/N 1001188889.

If machine does not fall within the serial number ranges listed in STEP 1 SKYGUARD AND MACHINE CAPABILITY IDENTIFICATION CHART, it cannot be optioned with SkyGuard.

STEP 3: SKYGUARD SELECTION BASED ON PLATFORM STYLE, *continued*

Machine Model	Serial Number Information	Old Style Platform	New Style Platform
450A/AJ Series II	S/N 0300077555-0300201991 excluding 0300199221, 0300199222, 0300199223, 0300199224, 0300200428, 0300201105, 0300201106, 0300201107, 0300201108, 0300201109, 0300201481, 0300201482, 0300201528, 0300201529, 0300201575, 0300201576, 0300201577, 0300201623, 0300201624, 0300201668, 0300201811, 0300201812, 0300201813, 0300201814, 0300201858, 0300201859, 0300201860, 0300201861, 0300201862, 0300201906, 0300201907, 0300201908, 0300201909, 0300201910, 0300201954, 0300201955, 0300201956, 0300201957, 0300201958	1001137672	1001197016
	S/N 1300000353 to Present		
	Prior to S/N E300002833		
450AJ	S/N 0300201991 to Present including 0300199221, 0300199222, 0300199223, 0300199224, 0300200428, 0300201105, 0300201106, 0300201107, 0300201108, 0300201109, 0300201481, 0300201482, 0300201528, 0300201529, 0300201575, 0300201576, 0300201577, 0300201623, 0300201624, 0300201668, 0300201811, 0300201812, 0300201813, 0300201814, 0300201858, 0300201859, 0300201860, 0300201861, 0300201862, 0300201906, 0300201907, 0300201908, 0300201909, 0300201910, 0300201954, 0300201955, 0300201956, 0300201957, 0300201958	N/A	1001203510
	S/N E300002833 to Present		
510AJ	All	1001137672	1001197016
520AJ	All	N/A	1001203510
600A/AJ	All	1001137672	1001197016
600S/SJ/660SJ	All	1001137672	1001197016
600SC/600SJC 660SJC	Gradall Chassis Only Prior to S/N 0300128000	1001137672	1001197016
	S/N 0300128000 to Present	1001137672	1001197016
680S	All	1001137672	1001197016
740AJ	All	1001137672	1001197016
800A/AJ	All	1001137672	1001197016
800S/860SJ	All	1001137672	1001197016
1100S/SJP	All	1001137672	1001197016
1200/1350SJP	All	1001137672	1001197016
1250AJP	All	1001137672	1001197016
1500AJP	All	N/A	*Coming Soon*
1500SJ	All	1001137672	1001197016
1850SJ	All	*Coming Soon*	*Coming Soon*

NOTES:

- SkyGuard for Old Style Platforms cannot be used with optional platform console cover.
- Beacons are optional and sold separately
- To facilitate installation of SkyGuard from an Old Style Platform to a New Style Platform, customer will need to purchase SkyGuard Update Kit (JLG P/N 100199928).
- Replacement shear blocks - for old style platform order P/N 1001137681; for new style platform order P/N 1001188889.

If optional warning beacon is desired -
Proceed to **STEP 4**

*If machine does not fall within the serial number ranges listed in
STEP 1 SKYGUARD AND MACHINE CAPABILITY IDENTIFICATION CHART, it cannot be optioned with SkyGuard.*

STEP 4: OPTIONAL BLUE BEACON FOR SKYGUARD

Machine Model	Serial Number Information	New Kit Part Number
E300A/AJ/AJP	Prior to S/N 0300211844	1001205501
	S/N 0300211844 to Present	1001218500
E/M400A/AJP	Prior to S/N 0300208529	1001205501
	S/N 0300208529 to Present	1001218502
E/M450A/AJP	Prior to S/N 0300208529	1001205501
	S/N 0300208529 to Present	1001218502
E/M600/J/JJP	Prior to S/N 0300219271 excluding 0300218866, 0300218867 & 0300218868	1001205501
	S/N 0300219271 to Present including 0300218866, 0300218867 & 0300218868	1001218502
340AJ	All	1001207140
400S/460SJ	S/N 0300077555-0300203771 excluding 0300184729, 0300200144, 0300200145, 0300200476, 0300200477, 0300202446, 0300202447, 0300202448, 0300202449, 0300202450, 0300203261, 0300203262, 0300203307, 0300203308, 0300203351, 0300203352, 0300203394, 0300203395, 0300203439, 0300203440, 0300203580, 0300203581, 0300203582, 0300203583, 0300203584, 0300203628, 0300203629, 0300203630, 0300203631, 0300203632, 0300203677, 0300203678, 0300203679, 0300203680, 0300203681, 0300203724, 0300203725, 0300203727, 0300203728	*Coming Soon*
	S/N 0300203771 to Present including 0300184729, 0300200144, 0300200145, 0300200476, 0300200477, 0300202446, 0300202447, 0300202448, 0300202449, 0300202450, 0300203261, 0300203262, 0300203307, 0300203308, 0300203351, 0300203352, 0300203394, 0300203395, 0300203439, 0300203440, 0300203580, 0300203581, 0300203582, 0300203583, 0300203584, 0300203628, 0300203629, 0300203630, 0300203631, 0300203632, 0300203677, 0300203678, 0300203679, 0300203680, 0300203681, 0300203724, 0300203725, 0300203727, 0300203728	1001203512
450A/AJ Series II	S/N 0300077555-0300160835	1001206311
	S/N 1300000353 to Present	
	Prior to S/N E300001114	
	S/N 0300160835-0300201991 excluding 0300199221, 0300199222, 0300199223, 0300199224, 0300200428, 0300201105, 0300201106, 0300201107, 0300201108, 0300201109, 0300201481, 0300201482, 0300201528, 0300201529, 0300201575, 0300201576, 0300201577, 0300201623, 0300201624, 0300201668, 0300201811, 0300201812, 0300201813, 0300201814, 0300201858, 0300201859, 0300201860, 0300201861, 0300201862, 0300201906, 0300201907, 0300201908, 0300201909, 0300201910, 0300201954, 0300201955, 0300201956, 0300201957, 0300201958	1001205498
S/N E300001114-E300002833		
450AJ	S/N 0300201991 to Present including 0300199221, 0300199222, 0300199223, 0300199224, 0300200428, 0300201105, 0300201106, 0300201107, 0300201108, 0300201109, 0300201481, 0300201482, 0300201528, 0300201529, 0300201575, 0300201576, 0300201577, 0300201623, 0300201624, 0300201668, 0300201811, 0300201812, 0300201813, 0300201814, 0300201858, 0300201859, 0300201860, 0300201861, 0300201862, 0300201906, 0300201907, 0300201908, 0300201909, 0300201910, 0300201954, 0300201955, 0300201956, 0300201957, 0300201958	1001203511
	S/N E300002833 to Present	
510AJ	All	1001206311
520AJ	All	1001203511
600A/AJ	All	1001206311
600S/SJ/660SJ	All	1001206311
600SC/600SJC 660SJC	Gradall Chassis Only Prior to S/N 0300128000	1001206311
	S/N 0300128000 to Present	1001206311
680S	All	1001206311
740AJ	All	1001206311
800A/AJ	All	1001206311
800S/860SJ	All	1001206311
1100S/SJP	All	1001206544
1200/1350SJP	All	1001206544
1250AJ	All	1001206544
1500SJ	All	1001206544
1850SJ	All	1001206884

If machine does not fall within the serial number ranges listed in STEP 1 SKYGUARD AND MACHINE CAPABILITY IDENTIFICATION CHART, it cannot be optioned with SkyGuard.

SkyGuard Function Table

Model	Main Lift	Main Tele In	Main Tele Out	Main Swing	Drive Forward		Drive Reverse		Tower Lift Up	Tower Lift Down	Basket Level	Basket Rotate	Jib Lift	Jib Rotate	Jib Tele
					Drive Orientation Enabled	Drive Orientation Not Enabled	Drive Orientation Enabled	Drive Orientation Not Enabled							
340AJ	R	C	R	R	R	C*	R	R	R	C	C	C	C	N/A	N/A
H340AJ															
400S/460SJ															
450A/450AJ Series II															
450AJ															
510A															
520AJ															
600A/600AJ															
600S/600SJ 660SJ															
680S															
740AJ															
800A/800AJ															
800S/860SJ															
600SC/600SJC 660SJC	R	C	R	R	C	C*	C	C	R	C	C	C	C	N/A	N/A
1200/1350SJP	R	C	R	R	R	C*	R	R	N/A	N/A	C	C	C	C	N/A
1250AJP	R	C	R	R	R	C*	R	R	C	C	C	C	C	C	N/A
1500AJP	R	C	R	R	R	C*	R	R	C	C	C	C	C	C	N/A
1500SJ	R	C	R	R	R	C*	R	R	N/A	N/A	C	C	C	C	C
1850SJ	R	C	R	R	R	C*	R	R	N/A	N/A	C	C	C	C	C
E300	R	C	R	R	R	C*	R	R	R	C	C	C	C	C	N/A
E400/E450 M450	R	C	R	R	R	C*	R	R	R	C	C	C	C	C	N/A
E600/M600	R	C	R	R	R	C*	R	R	N/A	N/A	C	C	C	C	N/A

R: Indicates reversal is activated

C: Indicates cutout is activated

N/A: Indicates the function does not exist for the model

* Input is ignored in drive forward with no other functions activated when platform and chassis arrow colors are matched properly.

NOTES:

When SoftTouch is enabled with SkyGuard, all functions are cutout only

Machines not equipped with Drive Orientation follow "Drive Orientation Not Enabled" columns.