

Recommended Spare Parts List

LD-60 & LD-90 Autonomous Mobile Robots



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Omron offers a variety of services to support your robot installation

Complete Care

Omron provides all the field support, maintenance, and parts you need to maintain your robot - in a single, comprehensive program. At a fixed annual price, the Complete Care Program eliminates your budget uncertainty while protecting your capital investment, prolonging its lifespan, and maximizing your productivity.

The program includes:

- 100% coverage for all labor and parts for repairs
- Priority dispatch for Field Service Support
- Premium Technical Support (24/7 access with priority status)
- Fixed travel costs for any on-site visit
- Discounts on additional training for your team

Wellness Visit

Humans need check-ups, and so do robots. Omron offers Wellness Visits to thoroughly evaluate your robot's condition, schedule maintenance in advance and avoid costly surprises. Regular maintenance and inspection can significantly reduce the total cost of ownership for any equipment. Our annual Wellness Visit includes comprehensive evaluation ensures that all preventive maintenance is performed on schedule and to manufacturing specifications for your Omron robot.

With this service, you can:

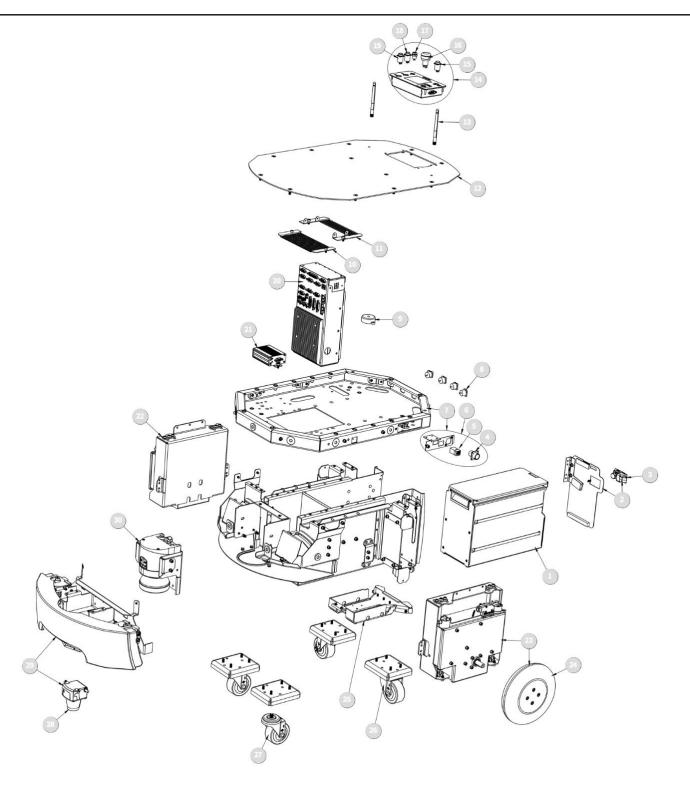
- Maximize robot lifespan
- Identify potential problems before they result in unscheduled downtime
- Proactively schedule repairs and part substitutions based on your scheduled shutdowns

Technical Support

Technical support Omron's technical support engineers have over 20 years of experience diagnosing and fixing issues that plague robotic equipment. Leveraging the popular Help Lightning app for remote visualization, the support team resolves a wide variety of problems with excellent customer satisfaction.

- Support during regular business hours
- After-hours support available for an additional fee
- English, French, Spanish and Portuguese supported
- 24/7 access also provided through a web-based self-service portal

LD Chassis



,,	Part Number	Name	Recommended Stocking Level		Omron Service	
#			1-5 Units	5+ Units	Recommended	Notes
1	20452-000	Assembly, Battery, CALB, UL				
2	12870-000	Assembly, Chassis, Battery Door		1+		
3	12168-000	Latch, Lockng, Flush, ABS	1			
4	12673-000	Cable, Lynx Core To Joystick				
5	12856-000L	Connector, Cat5e Coupler Shielded RJ45, Feed-thru Coupler				
6	12859-000	Assembly, Maintenance Panel, LD				
7	12860-000	Assembly, Frame, Top Deck				
8	11714-000	Sensor, Piezo Ultrasonic, 40KHz, with cable	1			
9	18234-000L	Assembly, LD Cart Transp, Buzzer				
10	12717-200	Sheet Metal, Chassis, Core Cover, LD				
11	12717-100	Sheet Metal, Chassis, Core Mount, LD				
12	12944-000	Assembly, Top Plate, LD				
13	10616-000	Antenna, Wireless, Reverse SMA	1			
14	12800-000	Assembly, LD HMI Panel		1+		Depends on model
14	12885-030	Kit, User Panel with 2.5ft Cable, LD		1+		Depends on model
15	12412-000	Push Button, Yellow, Panel Mount Round	1			
16	12414-000	ESTOP Push Button, Unibody, 2NC Contacts	1			
17	12805-000	Assembly, LD HMI Keyswitch	1			Includes 2 keys
18	12411-000	Push Button, Red, Panel Mount Round	1			
19	12410-000	Push Button, Green, Panel Mount Round	1			
20	22735-000	Tested i5 LD Core		1+	Yes	
21	11711-000	Assembly, Sonar Controller				
22	12745-000	Assembly, Right Drive Train, 30:1		1+		LD-60
22	12745-040	Assembly, Right Drive Train, 40:1		1+		LD-105CT, LD-90
22	12745-060	Assembly, Right Drive Train, 60:1		1+		LD-130CT, LD-90X
23	12746-000	Assembly, Left Drive Train, 30:1		1+		LD-60
23	12746-040	Assembly, Left Drive Train, 40:1		1+		LD-105CT, LD-90
23	12746-060	Assembly, Left Drive Train, 60:1		1+		LD-130CT, LD-90X
24	11210-000	Assembly, Tire & Wheel	2			
25	12872-160	Assembly, Frame, Docking Funnel, FRU	1			
26	14753-000	Assembly, Caster, LD, Hardened	4			
27	14783-000	Assembly, Bumper, LD w/ TiM Laser				
28	15004-000	Kit, Upgrade, Laser Bumper, LD				

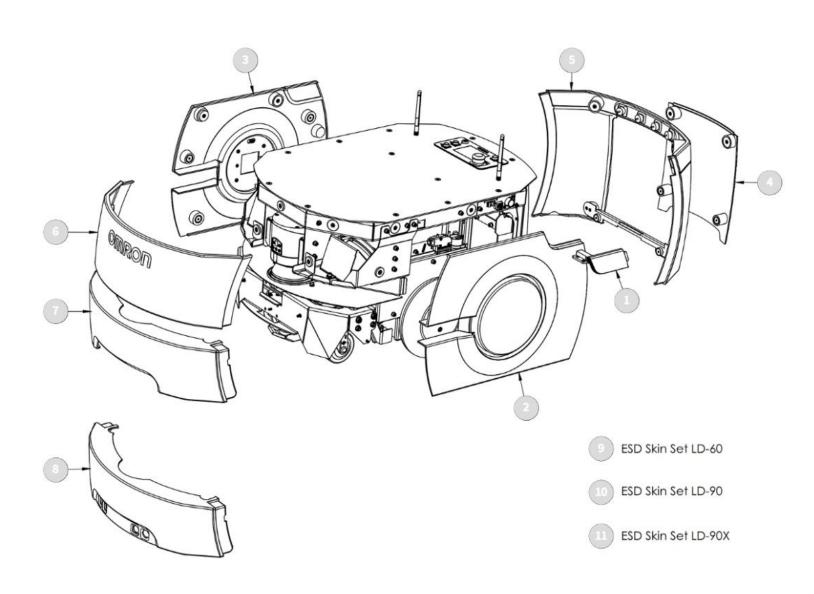
LD Chassis						
	Part Number	Name	Recommended Stocking Level		Omron Service	
#			1-5 Units	5+ Units	Recommended	Notes
30	12172-032F	Assembly, Laser OS32C FRU		1+		Omron version (Please check compatibility prior to ordering)
30	<u>12172-310</u>	Assembly, Laser, S300, Programmed		1+		SICK version (Please check compatibility prior to ordering)
N/A	12861-000F	Two speakers with LD60/90 mounts		1+		
N/A	13558-000	Joystick	1			
N/A	14925-000	Magnetic Tape, 25mm Wide for Track Following Sensor, 50m Length	1			Only for applications with HAPs
N/A	OS32C-WIN-KT	OS32C Window Replacement Kit	1			

Wiring

Description From Core, BATT COMM Battery Core, BATTERY POWER Battery Core, BATTERY POWER Battery Core, BATTERY POWER Battery Battery Core, BUMPER Bumper Bumper	#JE RNSE
Cable, Lynx Battery Power Core, BATTERY POWER Battery Core, BLIMPER Bumper Bumper	
Cable ID Safety Bumper Core BUMPER DDD Bumper	
Cable LD Safety Rumper Core RUMPER COUNTY	
	RNGF
Cable, LD Wheel Lights Core, WHEEL LIGHTS Side Skins	00 00
Cable, LYNX CORE TO JOYSTICK Core, JOYSTICK Joystick	
6 Cable, Lynx SICK LIDAR Core, LIDAR S300	
Cable, Lynx Speakers Core, SPKRS	PINGS PINGS
8 Cable, RIGHT LD MOTOR DRIVE Core, RIGHT MOTOR Right Drive Train	ф (3333333) ф
Gable, LEFT LD MOTOR DRIVE Core, LEFT MOTOR Left Drive Train	
Cable, Aux Power Splitter, LD Core, AUX POWER Core, AUX POWER Aux Ports Core, AUX POWER Core, AUX Power Splitter, LD	
Cable, Auxillary Light Splitter, LD Core, AUX POWER Buzzer & Aux Port	2 0 5 4 3 2 1
Cable, Camera Power, Acuity Core, AUX POWER Core, AUX POWER Core, AUX POWER	5 6
CABLE, ETHERNET, CAT5E, 1FT Core, MAINT LAN Maintenance Panel	
Cable, RP-SMA Plug to RP-SMA Jack, Bulkhead, Pigtail 19" Core, ANT1 or ANT2 Antenna)
Cable, Safety Bumper, Extension, Lynx Core, BUMPER String Bumper Cable	
Sonar Controller Cable, DB9 Male/Female, Shielded, 1ft Core, SONAR 1 Sonar Controller	

Wiri	Wiring						
#	Part Number	Name	Recommended Stocking Level		Omron Service		
			1-5 Units	5+ Units	Recommended	Notes	
1	12689-100L	Cable, LD Battery Control					
2	12676-000L	Cable, Lynx Battery Power	2				
3	12723-000L	Cable, LD Safety Bumper					
4	12694-000L	Cable, LD Wheel Lights	1				
5	12673-000	Cable, Lynx Core To Joystick					
6	12718-000L	Cable, LD Sick Lidar				Compatible with Omron lasers	
7	12724-000L	Cable, LD Speakers					
8	12712-100L	Cable, Right LD Motor Drive		1+			
9	12712-200L	Cable, Left LD Motor Drive		1+			
10	13717-000L	Cable, Aux Power Splitter, LD					
11	18234-100L	Cable, Auxiliary Light Splitter, LD					
12	13718-000L	Cable, Camera Power, Acuity					
13	11619-000	Cable, Ethernet, Cat5E, 1FT					
14	12943-000	Cable, RP-SMA Plug to RP-SMA Jack, Bulkhead, Pigtail 19"					
15	13408-000L	Cable, Safety Bumper, Extension, LD					
16	12662-000	Sonar Controller Cable, DB9 Male/Female, Shielded, 1ft					

LD Skins



LDS	Skins					
	Part Number	Name	Recommended Stocking Level		Omron Service	
#			1-5 Units	5+ Units	Recommended	Notes
1	12804-600	Skin, Left Hatch		1+		
1	21452-600F	Skin, Left Hatch, LD, ESD		1+		ESD Version
2	<u>12804-450</u>	Assembly, Skin, Left		1+		
2	21452-450F	Assembly, Skin Left, LD, ESD		1+		ESD Version
3	<u>12804-350</u>	Assembly, Skin, Right		1+		
3	21452-350F	Assembly, Skin Right, LD, ESD		1+		ESD Version
4	<u>12804-801</u>	Skin, Battery Door		1+		
4	21452-801F	Skin, Battery Door, ESD, FRU		1+		ESD Version
5	12804-701	Skin, Rear Panel, LD-60				
5	12804-702	Skin, Rear Panel, LD-90				
5	12804-703	Skin, Rear Panel, LD-105CT				
5	12804-704	Skin, Rear Panel, LD-130CT				
5	12804-705	Skin, Rear Panel, LD-90x				
5	21452-701F	Skin, Rear Panel, ESD, LD-60, FRU				
5	21452-702F	Skin, Rear Panel, ESD, LD-90, FRU				
5	21452-705F	Skin, Rear Panel, ESD, LD-90x, 60:1, FRU				
6	12804-200	Skin, Front Top Panel				
6	21452-201F	Skin, Front Top Panel, ESD, FRU				ESD Version
7	<u>12804-101</u>	Skin, Front Bumper Panel, LD, Modified for Tim Sensor		1+		
7	21452-151F	Skin, Front Bumper, ESD, FRU		1+		ESD Version
8	<u>12804-100</u>	Skin, Front Bumper Panel (Legacy)		1+		
9	21452-995F	Assembly, Skin Set, ESD, LD-60				ESD Version
10	21452-996F	Assembly, Skin Set, ESD, LD-90				ESD Version
11	21452-997F	Assembly, Skin Set, ESD, LD-90x, 60:1				ESD Version