

Ranger® 250 GXT

XTra Performance! XTra Power! XTra Protection!

Why settle for less, when you can get more? The Ranger® 250 GXT has all of the Xtras you need for construction and maintenance work. This Ranger® delivers XTra welding performance with 250 amps for AC or DC stick and wire welding. And, it's remote-ready for extended amperage control or AC TIG welding on aluminum with Lincoln's optional TIG module.

The Ranger® 250 GXT generates XTra power, up to 11,000 watts peak, for lights, grinders and high amperage equipment such as Lincoln's Pro-Cut® 55 plasma cutter. With the exclusive Lincoln enclosed case, you get XTra protection and XTra quiet operation. With the Ranger® 250 GXT, you get XTra value, without paying more.

Processes

Stick, TIG, MIG, Flux-Cored, Gouging

Advantage Lincoln

XTra Performance!

- Rated 250 amps/25 volts for AC, DC and CV. All rated outputs at 100% duty cycle 104°F (40°C).
- Smooth AC/DC welding output for a broad range of stick electrodes, such as Lincoln Excalibur® 7018 (AWS E7018) and Fleetweld® 5P+ (AWS E6010). Also capable of MIG, flux-cored, and TIG welding.
- Remote ready! 6-pin connector and local/remote switch for remote control operation. Also for AC/DC TIG Module use with foot or hand Amptrol[®].
- Electric fuel gauge located on control panel makes it easy to check the fuel level during operation and refueling. Helps you virtually eliminate running low on fuel during critical jobs.
- Choice of mechanical fuel pump for most environments, or electric fuel pump for high altitude operation.

XTra Power!

- 11,000 Watts Peak Single-Phase AC Generator Power
 - Most peak power in its class.
 - Use peak power for motor starting.
- 10,000 Watts Continuous Single-Phase AC Generator Power
 - Most continuous power in its class.
 - For high capacity needs such as a back-up generator, powering a Pro-Cut® plasma cutter or an Invertec® inverter welder.
 - For lights, a grinder or other power tools.



Output











- 23 HP Kohler® Gasoline Engine
 - Increase from 20 HP to 23 HP for plenty of engine horsepower!
 - 2-cylinder, 4-cycle OHV (overhead valve) air-cooled.

XTra Protection!

- · Engine doors provide protection and easy service access.
- Lower noise than partially-enclosed and unenclosed welders of comparable size 100.7dB (Lwa). Listen for yourself and hear the difference!
- Factory option available with stainless steel roof, case sides, and engine doors.
- Rugged Reliability Rangers® have been subjected to an extensive testing program to ensure reliable operation in a wide variety of environmental conditions.
- Three-year Lincoln warranty (parts and labor) on welder. (Engine is warranted separately by the manufacturer.)

TECHNICAL SPECIFICATIONS							
Product Name	Rated Output Current/Voltage/Duty Cycle	Output Range	Engine Model	No. of Cyl.	HP @ Speed (rpm)	Dimensions H x W x D inches (mm)	Net Weight Ibs (kg)
Ranger® 250 GXT	250A /25V/100%	50-250A AC 50-250A DC 14-28V CV 11,000 watts peak 10,000 watts continuous	Kohler OHV Command® CH23S Choice of Mechanical or Electric Fuel Pump	2	23 @ 3600	36.2 x 21.5 x 42.3 (920 x 546 x 1073)	602 (273)



PERFORMANCE

Arc Performance

- XTra Performance! Rated 250 amps/25 volts for AC, DC and CV. All rated outputs at 100% duty cycle 104°F (40°C).
- Smooth AC/DC welding output for a broad range of stick electrodes, such as Lincoln ExcaliburTM 7018 (AWS E7018) and Fleetweld® 5P+ (AWS E6010). Also capable of MIG, Flux-Cored, and TIG welding.
- Choose DC(+) for a deep penetrating arc or DC(-) for less penetration on thin sheet metal. Select AC for general purpose welding and excellent aluminum TIG welding.



- Simple Output Range Selector can be used to select one of four amperage ranges with generous overlap for Stick/TIG welding, or two Wire Feed welding ranges.
- Fine adjustment control allows you to dial in just the right welding output for each application.
- Add productivity with self-shielded flux-cored CV wire welding.
 Compatible with Lincoln LNTM-25 PRO wire feeder for use with a variety of wire electrodes.
- Expand to AC TIG welding with optional TIG Module and either a foot or hand Amptrol for excellent aluminum and other alloy welding.
- Arc gouge with up to 3/16" (4.8 mm) carbon electrode.

AC Generator Performance

- XTra Power! 11,000 watts peak AC generator power. Most peak power in its class. Use peak power for motor starting
- XTra Power! 10,000 watts continuous AC generator power. Most continuous power in its class. For high capacity needs such as a back-up generator, powering a Pro-Cut® plasma cutter or an Invertec® inverter welder. Also for lights, a grinder or other power tools
- Delivers up to 42 amps from the single 120V/240V full-KVA receptacle. Standard circuit breakers protect the machine as well as your power tools.
- Delivers up to 40 amps from two 120V duplex receptacles.
- Get two tools in one when you use the Ranger® 250 GXT as a power generator for emergency standby power, and/or for welding.
- Optional GFCI (Ground Fault Circuit Interrupter) Kit available for additional protection from electrical shock.
- Simultaneous welding and AC auxiliary power power up to 5,100 watts while welding at 180 amps (AC auxiliary power is reduced when welding simultaneously per table below).
- Take on more jobs plug in an optional Pro-Cut[®] 55 plasma cutter to cleanly cut metal.

SIMULTANEOUS WELDING AND POWER LOADS

Welding Output (Amps)	Continuous Power (Watts)
0	10,000
80	8,700
130	7,200
180	5,100
250	0

FEATURES

- XTra Protection! Engine door provides machine protection and easy service access.
- Totally enclosed Ranger® 250 GXT has lower noise than partiallyenclosed and unenclosed welders of comparable size. Listen for yourself and hear the difference!
- Kohler® Command® 23 HP CH23S OHV Gasoline Engine.
- Noise at rated load:
 - 100.7 dB sound power (Lwa)
 - 76.4 dBA sound level at 23 ft. (7 m)
- Remote ready! 6-pin connector and local/remote switch for remote control operation. Also for AC/DC TIG Module use with foot or hand Amptrol[®].



- 12 gallon (45 Ltrs) fuel capacity allows you to run an extended day
 20% longer than the nearest competitor!
- Circuit breaker protects battery ignition circuit.

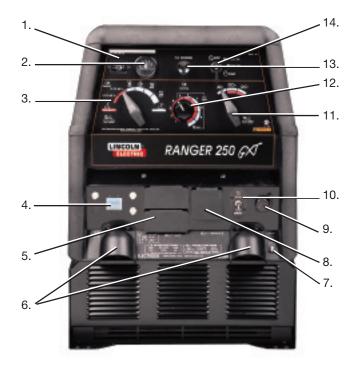
- Convenient truck or trailer mounting with front and rear holes in base.
- Choose mechanical or electric fuel pump.
 - Mechanical for most environments.
 - Electric fuel pump avoids vapor lock. Assures consistent fuel delivery in locations having a combination of high altitude, warm ambient temperatures, and high anti-pollution additives in gasoline.
- Electric fuel gauge located on control panel makes it easy to check the fuel level during operation and refueling. Helps you virtually eliminate running low on fuel during critical jobs.



- Large top fuel filler is easily accessed for refueling.
- Electric Start Switch makes it easy to get started every morning.
 Switch combines OFF, START, and IDLER functions into one simple, compact, easy to use switch.
- Oil drain valve (no tools required) with removable extension tube.
- 435 cold cranking amps with the Group 58 battery for extra starting capacity in sub-zero temperatures.



Key Controls



- 1. Engine Hour Meter
- 2. Electric Fuel Gauge
- 3. 6 Position Output Range Selector
- 4. Circuit Breakers
- 5. 120 Volt AC Receptacles (NEMA 5-20R)
- 6. Output stud covers
- 7. Ground Stud
- 8. 120/240 Volt AC Full KVA Receptacle (NEMA 14-50R)
- 9. 6-Pin Remote Connector
- 10. Local/Remote Switch
- 11. Polarity Switch
- 12. Fine Output Control
- 13. Engine Choke Control (Stainless Steel Cable)
- 14. Engine Start Switch with Idler Control

QUALITY AND RELIABILITY

- Oil dip stick, filters, spark plugs, etc. are easily accessed with left, right and top engine doors. Left and right doors are removable, if desired, for service.
- Adjust exhaust direction with top-mounted 360° rotatable exhaust muffler. Muffler made from aluminized steel for long life.
- Red and black powder paint finish offers increased durability with added protection from rust and corrosion. Also ultraviolet resistant to better retain color and gloss.
- Factory optional available with stainless steel roof, case sides, and engine doors.
- Longer engine life, reduced noise emissions and greater fuel economy with automatic engine idler.

- Conveniently located engine maintenance label under top engine door.
- Automatic engine shutdown protection for low oil pressure.
- Reliable start-up with Group 58 battery with 435 cold cranking amps.
- Dependability and long life aided by all-copper windings in rotor and stator with high quality insulation.
- · Approved by Canadian Standards Association (CSA).
- Manufactured under a quality system certified to ISO 9001 requirements.
- Three-year Lincoln warranty (parts and labor) on welder. (Engine is warranted separately by the manufacturer.)
- Backed by Lincoln's Service Parts Commitment We will ship in-stock parts within 24 hours of receipt of the order to anywhere within the U.S.

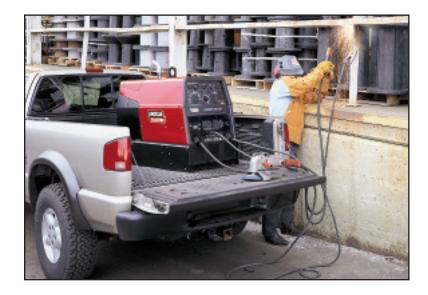


	MACHINE SPECIFICATIONS						
Product Name	Ordering Information	Description	CC Rated Output Current/Voltage/Duty Cycle	CV-Rated Output Current/Voltage/Duty Cycle	Generator AC Power (2)(3)	Dimension H(5) x W x L inches (mm)	Weight lbs. (kg)
Ranger® 250 GXT (Kohler OHV)	K2382-3 With Mechanical Fuel Pump W2382-5 With Mechanical Fuel Pump, Stainless Steel Roof, Case Sides, and Engine Doors K2382-4 With Electric Fuel Pump	250 Amp AC/DC Arc Welder 11,000 Watts Peak 10,000 Watts Continuous AC Power	AC Constant Current 250A/25V/100% DC Constant Current 250A/25V/100% Current Ranges 160-250A 110-180A 70-130A 50-80A Max OCV @ 3700 RPM 80V RMS	DC Constant Voltage (1) 250A/25V/100% 14-22V 18-28V	11,000 Watts Peak 10,000 Watts Continuous 60 Hz Single Phase Two 120V Duplex Receptacles 20A per Duplex 40A Total (4) 120V/240V Receptacle 42A Each 120V Branch (4) 42A @ 240V	36.2 x 21.5 x 42.3 (920 x 546 x 1073)	602 (273)

- (1) DC constant voltage capability provides convenience and added safety when welding in electrically hazardous conditions.
- (2) When welding, available auxiliary power will be reduced. Output voltage is within +\- 10% at all loads up to rated capacity.
- (3) 120V will operate either 60 Hz or 50/60 Hz power tools, lights, etc.
- (4) Circuits cannot be wired in parallel to operate the same device.
- (5) Height is to top of exhaust elbow. Enclosure height is 30" (762mm).

ENGINE SPECIFICATIONS							
Engine Model	Description	Horsepower & Displacement	Ignition	Capacities	Operating Speeds	Fuel Consumption	
Kohler OHV (6) Command CH23S (Gasoline)	2 Cylinder, 4 Cycle, OHV Air-Cooled Gasoline Engine Aluminum Alloy with Cast Iron Liners Choice of Mechanical or Electric Fuel Pump	23 HP @ 3600 RPM 41.0 cu in (674 cc)	Electric Start 12V Battery 435 Cold Cranking Amps Manual Choke	FUEL: 12 Gals (45 Ltrs.) OIL: 2.0 Qts (1.9 Ltrs)	Full Load 250A DC 3,500 RPM High Idle 3,700 RPM Low Idle 2,400 RPM	1.5 Gals/Hr 5.7 Ltr/Hr. 0.8 Gals/Hr 2.9 Ltr/Hr 0.4 Gals/Hr 1.5 Ltr/Hr	

(6) Kohler warranty is 3 years.





GENERAL OPTIONS



Power Plug Kit (20 amp)

Provides four 120V plugs rated at 20 amps each, and one dual voltage, full KVA plug rated at 120/240V, 50 amps. 120V plug may not be compatible with common household receptacles.





Power Plug Kit (15 amp)

Provides four 120V plugs rated at 15 amps each, and one dual voltage, full KVA plug rated at 120/240V, 50 amps. 120V plug is compatible with common household receptacles.

Order K802R



Full-KVA Power Plug

One dual voltage plug rated at 120/240V, 50 amps. (NEMA 14-50P)

Order T12153-9



GFCI Receptacle Kit

Includes one UL approved 120V ground fault circuit interrupter duplex type receptacle and installation instructions. Replaces the factory-installed 120V duplex receptacle. Each receptacle of the GFCI duplex is rated at 20 amps. Maximum total current from the GFCI duplex is limited to 20 amps. Two kits required for all 120V receptacles on Ranger and Commander products.

Order K1690-1



Spark Arrestor Kit

Attaches to muffler exhaust tube. Virtually eliminates spark emissions

Order K1898-1



Canvas Cover

To protect the engine drive when not in use. Made from attractive red canvas material that is flame retardant, mildew resistant and water repellent.

Order K886-2



All-Terrain Undercarriage

For moving by hand. Overall width 27 in. (0.7 m). Includes heavy-duty puncture-resistant (inner tube and sealant) tires.

Order K1737-1

GENERAL OPTIONS, CONT.



Factory Undercarriage

For moving by hand on smooth surface floors. Heavy-duty, puncture-resistant (inner tube and sealant) tires and front caster. Convenient steering handle.

Order K1770-1



Welding Gas Cylinder/ **LPG Tank Holder**

Holds welding gas cylinder or LPG tank (for products with LPG engine). For LPG: Use first holder for LPG tank and second holder for welding gas cylinder. Both holders will attach to the K1770-1 undercarriage

Order K1745-1



Cable Carrier Kit

Holds up to two 100 ft (30.5 m). lengths of #2/0 or smaller cable. Includes holder tray for electrodes or miscellaneous items. For use with K1737-1 or K1770-1 undercarriage.

Order K1739-1



Roll Cage

Improves damage protection and includes built-in cable rack. Attaches to K1737-1 or K1770-1 undercarriage. Can mount to K2635-1 trailer.

Order K1788-1



Small Two Wheel Welder Trailer

For heavy-duty road, off-road, plant and yard use. Includes pivoting jack stand, safety chains, and 13" wheels. Stiff .120" welded rectangular steel tube frame construction is phosphate etched and powder coat painted for superior rust and corrosion resistance. Low sway suspension gives outstanding stability with manageable tongue weight. Wheel bearings are packed with high viscosity, high pressure, low washout Lubriplate® grease. Includes a Duo-Hitch™. a 2" ball/lunette eve combination hitch. Overall width 60".

Order:

K2635-1 Trailer

K2639-1 Fender & Light Kit

K2640-1 Cable Rack



STICK OPTIONS

Accessory Kit

For stick welding. Includes 35 ft. (10.7 m) #2/0 electrode cable with lug, 30 ft. (9.1 m) #2/0 work cable with lugs, headshield, filter plate, work clamp and electrode holder. 400 amp capacity.

Order K704



Accessory Kit

For stick welding. Includes 20 ft. (6.1 m) #6 electrode cable with lug. 15 ft. (4.6 m) #6 work cable with lugs, headshield, filter plate, work clamp, electrode holder and sample pack of mild steel electrode. 150 amp capacity.

Order K875



Remote Control Kit

Consists of a control box with choice of two cable lengths. Permits remote adjustment of output.

Order K857 for 25 ft. (7.6 m) Order K857-1 for 100 ft. (30.5 m)



Remote Output Control with 120V AC Receptacles

Remote weld output control box with two 120V AC receptacles having GFCI (ground fault circuit interrupter) protection. One cord for both remote and power. 100 ft. (30.5 m) length. Permits remote adjustment of weld output and power for tools (such as a grinder) at the work.

Order K2627-2



TIG OPTIONS

Pro-Torch® PTA-26 TIG Torch

Air-Cooled 200 amp torch (2 piece separate power conductor and a braided gas hose).

Order K1783-4



Magnum® Parts Kit for PTA-26V

Provides all the torch accessories you need to start welding. Parts kit provides collets, collet bodies, a back cap, alumina nozzles and tungstens in a variety of sizes, all packaged in an easy to carry reclosable pack.

Order KP509



TIG OPTIONS, CONT.

TIG Module

Portable, high frequency unit with gas valve for TIG welding. Rated at 300 amps/60% duty cycle.

Order K930-2



Control Cable

Connects TIG Module to power source. Comes with 9-pin TIG Module connector and power source 6-pin connector and 120V

Order K936-3



Control Cable Extension

Allows the TIG Module to be operated at distances up to 200 ft. from the power source. Available in 45 ft. (13.7 m) sections.

Order K937-45



Hand Amptrol®

Provides 25 ft. (7.6 m) of remote current control for TIG welding. (6 pin plug connection). Velcro straps secure torch.

Order K963-3 (one size fits all Pro-Torch TIG torches).



Foot Amptrol®

Varies current while welding for making critical TIG welds and crater filling. Depress pedal to increase current. Depressing pedal fully achieves maximum set current. Fully raising the pedal finishes the weld and starts the afterflow cycle on systems so equipped. Includes 25 ft. (7.6 m) control cable.

Order K870



Contactor Kit

Installs in the K930-2 TIG Module for use with welders without a contactor. Makes the TIG torch electrode electrically "cold" until the Amptrol® is activated.

Order K938-1



Docking Kit

Secures TIG Module to top of flat-roofed power source.

Order K939-1





WIRE FEEDER OPTIONS

LN™-25 PRO Wire Feeder Portable CC/CV unit for flux-cored and MIG welding with MAXTRAC® wire drive system. Includes gas solenoid and internal contactor.

Order K2613-1



Magnum® 350 Innershield® Gun (for LN™-25 PRO)

For self-shielded wire with 15 ft. (4.5 m) cable. For .062-3/32" (1.6-2.4 mm) wire.

Order K126-2



Drive Roll and Guide Tube Kit (for LN™-25 PRO)

For cored or solid steel wire.

Order KP1697-068 for .068-.072" (1.8 mm) Order KP1697-5/64 for 5/64" (2.0 mm)



Magnum® 300 MIG Gun

For .035-.045" (0.9-1.2 mm) gasshielded wire with 15 ft. (4.5 m) cable. LN™-25 PRO Order:

K1802-1 (Includes Connector Kit)



Drive Roll and Guide Tube Kit (for LN™-25 PRO)

For .035-.045" (0.9-1.1 mm) solid steel wire.

Order KP1696-1



Power MIG® 180C

Premium compact wire welder with continuous voltage control for MIG and flux-cored welding. 30 to 180 amp output range. Get input power from the AC generator of the engine-driven welder with the K1816-1 Full-KVA Adapter Kit (required). Add the K2532-1 Magnum® 100SG Spool Gun for aluminum MIG welding.

Order K2473-1



Full - KVA Adapter Kit

Provides convenient connection of Lincoln Electric equipment having a 240V AC 1-phase plug (NEMA 6-50P) to the full-KVA receptacle on engine-driven welders.

Order K1816-1





Magnum® 100SG Spool Gun

Designed to easily feed 4" (102 mm) diameter 1 lb. (0.45 kg) spools of .030" (0.8 mm) or .035" (0.9 mm) diameter SuperGlaze® aluminum MIG wire. Includes gun, adapter kit, .035" (0.9 mm) contact tips (qty. 3), gas nozzle, and a 1 lb. (0.45 kg) spool of SuperGlaze® 4043 .035" (0.9 mm) MIG wire. Packaged in a convenient carrying case.

Order K2532-1





Cuts metal using the AC generator power from the enginedriven welder. Maximum cut thickness is 1/2" (13 mm). Requires the K1816-1 Full-KVA adapter kit. Order K1580-1



Full - KVA Adapter Kit

Provides convenient connection of Lincoln Electric equipment having a 240V AC 1-phase plug (NEMA 6-50P) to the full-KVA receptacle on engine-driven welders.

Order K1816-1



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RANGER® 250 GXT ORDER FORM

PRODUCT DESCRIPTION	ORDER NUMBER	QUANTITY	PRICE
RANGER® 250 GXT (Kohler Engine with Mechanical Fuel Pump)	K2382-3		
RANGER® 250 GXT (Kohler Engine with Nectralical Fuel Fump)	K2382-4		+
RANGER® 250 GXT (Kohler Engine with Electric Fuel Fully)	K2382-5		
TARGET 200 GAT (Notice, Meditalibar Fuel Fullip, Juliness Steel)	NEGOE O		
RECOMMENDED GENERAL OPTIONS			
Power Plug Kit (20 amp)	K802N		
Power Plug Kit (15 amp)	K802R		
Full-KVA Power Plug	T12153-9		
GFCI Receptacle Kit (20 amp) 2 kits required	K1690-1		
Spark Arrestor Kit	K1898-1		
Canvas Cover	K886-2		
Undercarriages All Terrain Undercarriage	K1737-1		
Factory Undercarriage	K1770-1		
- Welding Gas Cylinder / LPG Tank Holder (for K1770-1)	K1745-1		
- Cable Carrier Kit	K1739-1		
-Roll Cage (attaches to K1737-1 and K1770-1 and K2635-1 trailer)	K1788-1		
Small Two Wheel Welder Trailer & Duo-Hitch™ - Available March 2007	K2635-1		
-Fender and Light Kit	K2639-1		
-Cable Rack	K2640-1		
RECOMMENDED STICK OPTIONS	1/22		
Accessory Kit, 400 amp	K704		
Accessory Kit, 150 amp	K875		
Remote Control Kit, 25 ft. (7.6m)	K857 K857-1		
Remote Control Kit, 100 ft. (30.5m) Remote Output Control w/120V AC Receptacles	K2627-2		
nemote Output Control W/120V AC neceptacles	N2021-2		
RECOMMENDED TIG OPTIONS			
Pro-Torch® TIG Torch PTA-26 (25 ft.)	K1783-4		
Magnum® Parts Kit	KP509		
TIG Module	K930-2		
- Control Cable (required)	K936-3		
- Control Cable Extension	K937-45		
- Hand Amptrol® (All Pro-Torch TIG torches)	K963-3		
- Foot Amptrol® - Contactor Kit (required)	K870 K938-1		
- Docking Kit	K939-1		
Doorning Titl	1000 1		
RECOMMENDED WIRE FEEDER OPTIONS			
LN™-25 PRO Wire Feeder	K2613-1		
Magnum® 350 Innershield® Gun	K126-2		
Drive Roll and Wire Guide Kit .068"072" (for LN™-25 PRO)	KP1697-068		
Drive Roll and Wire Guide Kit 5/64" (for LN™-25 PRO)	KP1697-5/64		
Magnum [®] 300 MIG Gun (for LN™-25 PRO) (includes Connector Kit)	K1802-1		
Drive Roll and Wire Guide Kit (for LN™-25 PRO)	KP1696-1		
Power MIG® 180C	K2473-1		
- Full-KVA Adapter Kit (required)	K1816-1		
- Magnum® 100SG Spool Gun	K2532-1		
RECOMMENDED DI ASMA CLITTING OPTIONS	1		1
RECOMMENDED PLASMA CUTTING OPTIONS Pro-Cut® 55	K1580-1		
Pro-Cut® 55 - Full-KVA Adapter Kit (required)	K1580-1 K1816-1		

CUSTOMER ASSISTANCE POLICY

The business of The Lincoln Electric Company® is manufacturing and selling high quality welding equipment, consumables, and cutting equipment. Our challenge is to meet the needs of our customers and to exceed their expectations. On occasion, purchasers may ask Lincoln Electric for information or advice about their use of our products. Our employees respond to inquiries to the best of their ability based on information provided to them by the customers and the knowledge they may have concerning the application. Our employees, however, are not in a position to verify the information provided or to evaluate the engineering requirements for the particular weldment. Accordingly, Lincoln Electric does not warrant or guarantee or assume any liability with respect to such information or advice. Moreover, the provision of such information or advice does not create, expand, or alter any warranty on our products. Any express or implied warranty that might arise from the information or advice, including any implied warranty of merchantability or any warranty of fitness for any customers' particular purpose is specifically disclaimed.

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