

2017

JUMP STARTERS | BATTERY CHARGERS | BATTERY BOOSTERS
ENGINE STARTING SYSTEMS | POWER CENTERS | UPGRADE KITS | AIR COMPRESSORS
PRESSURE WASHERS | GENERATORS | CABLE KITS | COMPONENTS | REPLACEMENT PARTS



 **Goodall**[®]
By VAN AIR[®]

We Start Engines[™]



A Proud Family Member of



We Start Engines™



TABLE OF CONTENTS

Start•All® 600 Series.....	4
Start•All® 900 Series.....	16
Start•All® 800 Series.....	20
Selecting The Right Product.....	22
The "S" Factors.....	23
Goodall Quick Selection Chart.....	24
Start•All® Upgrade Kits.....	26
Integrated Super Boost•Alls®.....	28
Super Boost•Alls®.....	29
Boost•Alls®.....	30
Capstart®.....	31
FST™ Engine Starting Systems.....	32
Goodall Product Accessories.....	33
Goodall Power Centers.....	34
Charge•Alls®.....	42
Jump Packs.....	43
Booster Cables.....	44
Battery Clamps.....	48
Antizap Devices.....	49
Air Compressors.....	50
Pressure Washers.....	51
Start•All® Replacement Parts.....	52
Start•All® Generators.....	56
Start•All® Generator Parts.....	57
First Aid Kits.....	58
Limited Warranty.....	59

*All product specifications are subject to change at any time without notice.
Please contact Goodall for the most up to date information.*



11-620



POWERFUL 12/24 VOLT JUMP STARTING FOR THOSE WHO NEED TO GET OFF-ROAD CONSTRUCTION EQUIPMENT, TRANSIT BUSES AND OTHER 24 VOLT POWERED VEHICLES UP AND RUNNING, EVEN IN HARSH CONDITIONS.



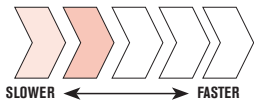
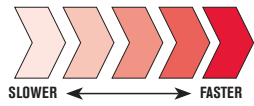
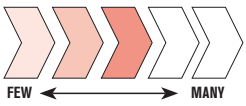
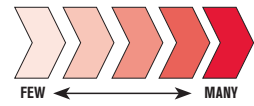
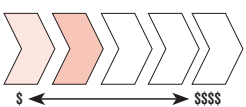
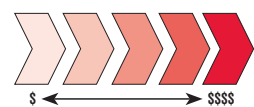
11-618

GENERAL FEATURES

- Volt and amp meter to monitor boosting output
- Voltage Control provides regulated voltage that is safer for vehicles and on-board electronics
- Reverse Current Shutdown Protection protects against expensive repairs to the Start•All if the unit runs out of gas
- Reverse Polarity Protection will not allow the Start•All to be turned on if the cables are not hooked up correctly
- Polarity and low-battery LED indicators confirm proper connections
- Antizap surge protection provides safer boosting
- Single DC boosting switch for easy operation



CHOOSE YOUR POWER: DETERMINING YOUR OUTPUT NEEDS (SEE GUIDE ON PG. 23)

START•ALL®	11-618	11-620
SPEED (TIME TO START)		
STARTS (NUMBER OF STARTS)		
SPEND (AVG. COST PER UNIT)		

SPECIFICATIONS

START•ALL®	11-618	11-620
ENGINE	Electric Start, Air Cooled Subaru with 1.85 gal. Fuel Tank	Electric Start, Air Cooled Briggs & Stratton Vanguard OHV Gas Powered with 2 gal. Fuel Tank and Low Oil Shutdown
JUMP STARTING	12/24 volt, 300/180 amp	12/24 volt, 700/400 amp
CABLES	30' 2 ga.	30' 1/0 ga.
CLAMPS	500 amp	1,000 amp
DIMENSIONS	27" W x 23" D x 24" H 275 lbs.	28" W x 23" D x 26" H 365 lbs.

12V JUMP STARTING

11-610



THE 600 SERIES IS OUR BEST-SELLING COMMERCIAL-GRADE UNIT FOR JUMP STARTING ANY 12 VOLT VEHICLE. CHOOSE FROM 300-700 AMP OUTPUT TO GET YOUR VEHICLES UP AND RUNNING AND ON THE ROAD.



11-601



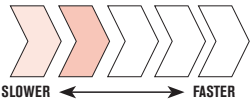

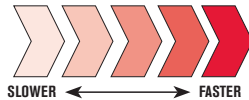


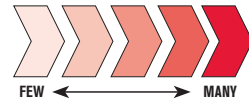
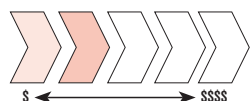
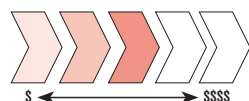
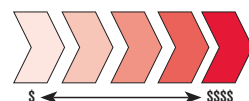
11-605

GENERAL FEATURES

- Volt and amp meter to monitor boosting output
- Voltage Control provides regulated voltage that is safer for vehicles and on-board electronics
- Reverse Current Shutdown Protection protects against expensive repairs to the Start•All if the unit runs out of gas
- Reverse Polarity Protection will not allow the Start•All to be turned on if the cables are not hooked up correctly
- Polarity and low-battery LED indicators confirm proper connections
- Antizap surge protection provides safer boosting
- Single DC boosting switch for easy operation

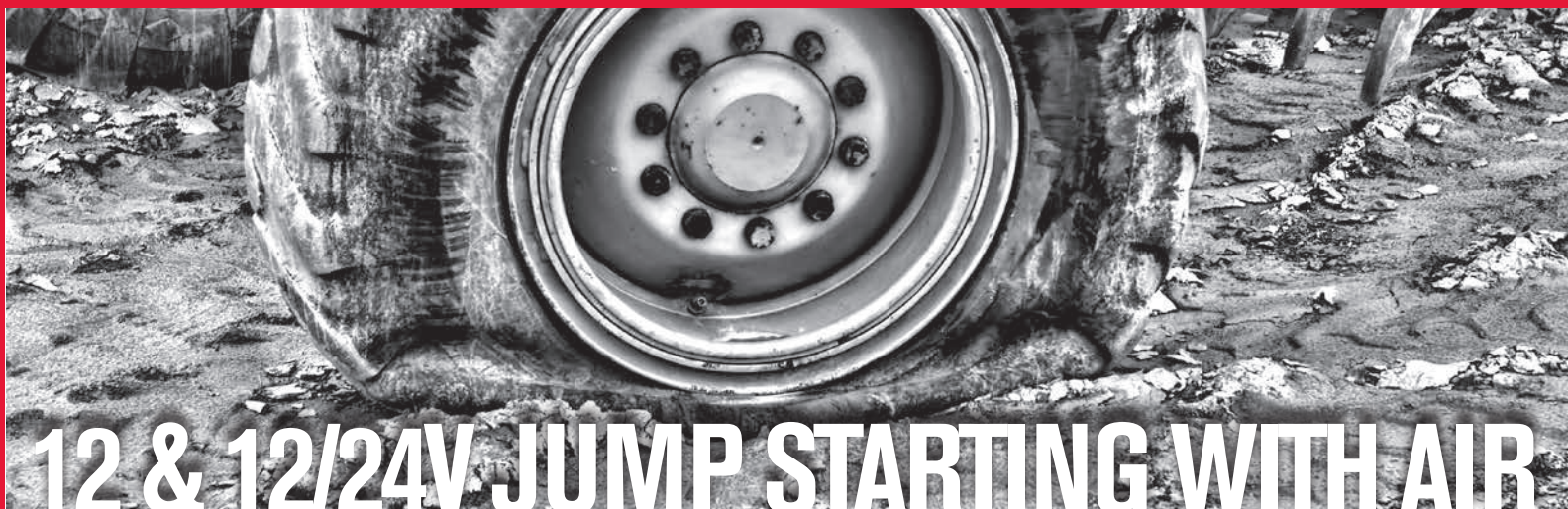


CHOOSE YOUR POWER: DETERMINING YOUR OUTPUT NEEDS (SEE GUIDE ON PG. 23)

START-ALL®	11-601	11-605	11-610
SPEED (TIME TO START)			
STARTS (NUMBER OF STARTS)			
SPEND (AVG. COST PER UNIT)			

SPECIFICATIONS

START-ALL®	11-601	11-605	11-610
ENGINE	Electric Start, Air Cooled Subaru with 1.85 gal. Fuel Tank	Electric Start, Air Cooled Briggs & Stratton Vanguard OHV Gas Powered with 2 gal. Fuel Tank and Low Oil Shutdown	Electric Start, Air Cooled Briggs & Stratton Vanguard OHV Gas Powered with 2 gal. Fuel Tank and Low Oil Shutdown
JUMP STARTING	12 volt, 300 amp	12 volt, 450 amp	12 volt, 700 amp
CABLES	30' 2 ga.	30' 1/0 ga.	30' 1/0 ga.
CLAMPS	500 amp	1,000 amp	1,000 amp
DIMENSIONS	27" W x 23" D x 24" H 275 lbs.	27" W x 23" D x 24" H 335 lbs.	28" W x 23" D x 26" H 355 lbs.



11-612



TAKE THE POWER OF OUR BASE JUMP STARTING UNITS AND ADD AIR POWER TO ENHANCE YOUR MOBILE POWER CAPABILITIES. DESIGNED FOR LIGHT- OR MEDIUM-DUTY AIR TOOLS AND APPLICATIONS, THESE UNITS ELIMINATE THE NEED FOR A SEPARATE COMPRESSOR, LEAVING MORE USABLE SPACE AND WEIGHT CARRYING ABILITY.



11-602



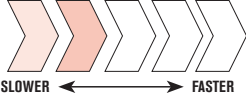







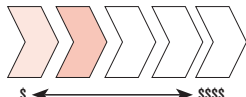
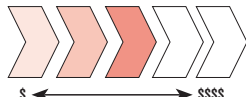
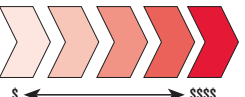
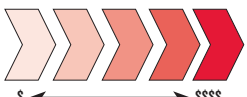
11-622

GENERAL FEATURES

- Electric start, air cooled Briggs & Stratton Vanguard OHV gasoline engine with 2 gal. fuel tank with low oil shutdown
- Single stage air compressor (required air tank sold separately – see pg. 33)
- Volt and amp meter to monitor boosting output
- Voltage Control provides regulated voltage that is safer for vehicles and on-board electronics
- Reverse Current Shutdown Protection protects against expensive repairs to the Start•All if the unit runs out of gas
- Reverse Polarity Protection will not allow the Start•All to be turned on if the cables are not hooked up correctly
- Polarity and low-battery LED indicators confirm proper connections
- Antizap surge protection provides safer boosting
- Single DC boosting switch for easy operation



CHOOSE YOUR POWER: DETERMINING YOUR OUTPUT NEEDS (SEE GUIDE ON PG. 23)

START•ALL®	11-602	11-607	11-612	11-622
SPEED (TIME TO START)				
STARTS (NUMBER OF STARTS)				
SPEND (AVG. COST PER UNIT)				

SPECIFICATIONS

START•ALL®	11-602	11-607	11-612	11-622
ENGINE	Electric Start, Air Cooled Briggs & Stratton Vanguard OHV Gas Powered with 2 gal. Fuel Tank and Low Oil Shutdown	Electric Start, Air Cooled Briggs & Stratton Vanguard OHV Gas Powered with 2 gal. Fuel Tank and Low Oil Shutdown	Electric Start, Air Cooled Briggs & Stratton Vanguard OHV Gas Powered with 2 gal. Fuel Tank and Low Oil Shutdown	Electric Start, Air Cooled Briggs & Stratton Vanguard OHV Gas Powered with 2 gal. Fuel Tank and Low Oil Shutdown
JUMP STARTING	12 volt, 300 amp	12 volt, 450 amp	12 volt, 700 amp	12/24 volt, 700/400 amp
CFM @ 100 PSI	8	13	13	13
CABLES	30' 2 ga.	30' 1/0 ga.	30' 1/0 ga.	30' 1/0 ga.
CLAMPS	500 amp	1,000 amp	1,000 amp	1,000 amp
DIMENSIONS	27" W x 23" D x 24" H 360 lbs.	31" W x 25" D x 26" H 435 lbs.	31" W x 25" D x 29" H 470 lbs.	31" W x 25" D x 29" H 470 lbs.

12 & 12/24V JUMP STARTING WITH AC



HEAVY-DUTY POWER FOR HEAVY-DUTY VEHICLES AND EQUIPMENT. THESE UNITS WILL BOOST ENGINES IN COLD WEATHER CLIMATES TIME AND TIME AGAIN—PLUS THE POWER OF AN AC GENERATOR TO RUN POWER TOOLS AND LIGHTS TO ILLUMINATE YOUR WORK SITE.



11-606





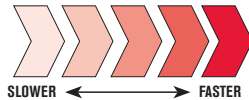


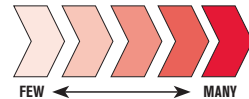
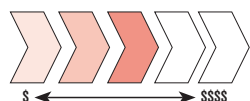
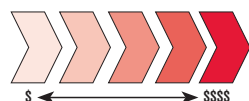
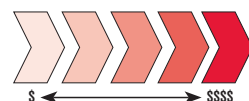
11-621

GENERAL FEATURES

- Electric start, air cooled Briggs & Stratton Vanguard OHV gasoline engine with 2 gal. fuel tank with low oil shutdown
- 2,750 watt AC generator, 1 duplex 120 volt, 20 amp GFCI outlet
- 30' 1/0 ga. welding cable allows flexibility and ease of use
- 1,000 amp full-power clamps allow higher amperage flow
- Volt and amp meter to monitor boosting output
- Voltage Control provides regulated voltage that is safer for vehicles and on-board electronics
- Reverse Current Shutdown Protection protects against expensive repairs to the Start•All if the unit runs out of gas
- Reverse Polarity Protection will not allow the Start•All to be turned on if the cables are not hooked up correctly
- Polarity and low-battery LED indicators confirm proper connections
- Antizap surge protection provides safer boosting
- Single DC boosting switch for easy operation



CHOOSE YOUR POWER: DETERMINING YOUR OUTPUT NEEDS (SEE GUIDE ON PG. 23)

START•ALL®	11-606	11-611	11-621
SPEED (TIME TO START)			
STARTS (NUMBER OF STARTS)			
SPEND (AVG. COST PER UNIT)			

SPECIFICATIONS

START•ALL®	11-606	11-611	11-621
ENGINE	Electric Start, Air Cooled Briggs & Stratton Vanguard OHV Gas Powered with 2 gal. Fuel Tank and Low Oil Shutdown	Electric Start, Air Cooled Briggs & Stratton Vanguard OHV Gas Powered with 2 gal. Fuel Tank and Low Oil Shutdown	Electric Start, Air Cooled Briggs & Stratton Vanguard OHV Gas Powered with 2 gal. Fuel Tank and Low Oil Shutdown
JUMP STARTING	12 volt, 450 amp	12 volt, 700 amp	12/24 volt, 700/400 amp
AC OUTPUT	120 volt, 2,750 watt, 60 Hz	120 volt, 2,750 watt, 60 Hz	120 volt, 2,750 watt, 60 Hz
CABLES	30' 1/0 ga.	30' 1/0 ga.	30' 1/0 ga.
CLAMPS	1,000 amp	1,000 amp	1,000 amp
DIMENSIONS	27" W x 23" D x 24" H 360 lbs.	31" W x 25" D x 29" H 425 lbs.	31" W x 25" D x 29" H 425 lbs.



12V JUMP STARTING WITH AIR & AC

11-608



THE 11-608 IS A COMPACT 3-IN-1 START•ALL COMBINING THE JUMP STARTING CAPABILITIES OF AN 11-605 WITH AN AC GENERATOR AND AIR COMPRESSOR. IDEAL FOR THE MOBILE SERVICE MECHANIC, PROVIDING A SINGLE-SOURCE SOLUTION FOR MULTIPLE POWER APPLICATIONS.

AVAILABLE OPTIONS

(More details on pg. 33)

- **61-130** 30 gal. Vertical Mount Air Tank
- **61-131** 30 gal. Horizontal Mount Air Tank
- **50-443** 12 gal. Horizontal Mount Air Tank

GENERAL FEATURES

- Electric start, air cooled Briggs & Stratton Vanguard OHV gasoline engine with 2 gal. fuel tank with low oil shutdown
- Single stage air compressor, 13 CFM @ 100 psi, 150 psi max. (required air tank sold separately – see pg. 33)
- 2,750 watt AC generator, 1 duplex 120 volt, 20 amp outlet
- 30' 1/0 ga. welding cable allows flexibility and ease of use
- 1,000 amp full-power clamps allow higher amperage flow
- Volt and amp meter to monitor boosting output
- Single DC boosting switch for easy operation
- Voltage Control provides regulated voltage that is safer for vehicles and on-board electronics
- Reverse Current Shutdown Protection protects against expensive repairs to the Start•All if the unit runs out of gas
- Reverse Polarity Protection will not allow the Start•All to be turned on if the cables are not hooked up correctly
- Polarity and low-battery LED indicators confirm proper connections
- Antizap surge protection provides safer boosting



CHOOSE YOUR POWER: DETERMINING YOUR OUTPUT NEEDS (SEE GUIDE ON PG. 23)

START•ALL®	11-608
SPEED (TIME TO START)	
STARTS (NUMBER OF STARTS)	
SPEND (AVG. COST PER UNIT)	

LOVE THE UNIT AND ITS CAPABILITIES BUT LOOKING FOR MORE POWER? CHECK OUT THE 11-920ACE AND 11-923ACE ON PAGE 18. THEY PROVIDE THE SAME UTILITY WITH A BIT MORE JUICE.

SPECIFICATIONS

START•ALL®	11-608
ENGINE	Electric Start, Air Cooled Briggs & Stratton Vanguard OHV Gas Powered with 2 gal. Fuel Tank and Low Oil Shutdown
JUMP STARTING	12 volt, 450 amp
AC OUTPUT	120 volt, 2,750 watts, 60 Hz
CFM @ 100 PSI	13
CABLES	30' 1/0 ga.
CLAMPS	1,000 amp
DIMENSIONS	31" W x 25" D x 28" H, 460 lbs.



11-626M



GOODALL'S MILITARY START•ALLS ARE POWERFUL 12 AND 24 VOLT JUMP STARTING UNITS WITH NATO PLUG THAT WILL KEEP YOUR MILITARY VEHICLES AND EQUIPMENT ON THE MOVE.



11-625M







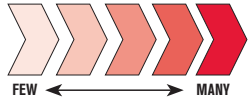




11-627M

GENERAL FEATURES

- NATO plug is polarity protected and live only in the 24 volt mode
- Electric start, air cooled Briggs & Stratton Vanguard OHV gasoline engine with 2 gal. fuel tank with low oil shutdown
- 30' 1/0 ga. welding cable allows flexibility and ease of use
- 1,000 amp full-power clamps allow higher amperage flow
- Volt and amp meter to monitor boosting output
- Voltage Control provides regulated voltage that is safer for vehicles and on-board electronics
- Reverse Current Shutdown Protection protects against expensive repairs to the Start•All if the unit runs out of gas
- Reverse Polarity Protection will not allow the Start•All to be turned on if the cables are not hooked up correctly
- Polarity and low-battery LED indicators confirm proper connections
- Antizap surge protection provides safer boosting
- Single DC boosting switch for easy operation



CHOOSE YOUR POWER: DETERMINING YOUR OUTPUT NEEDS (SEE GUIDE ON PG. 23)

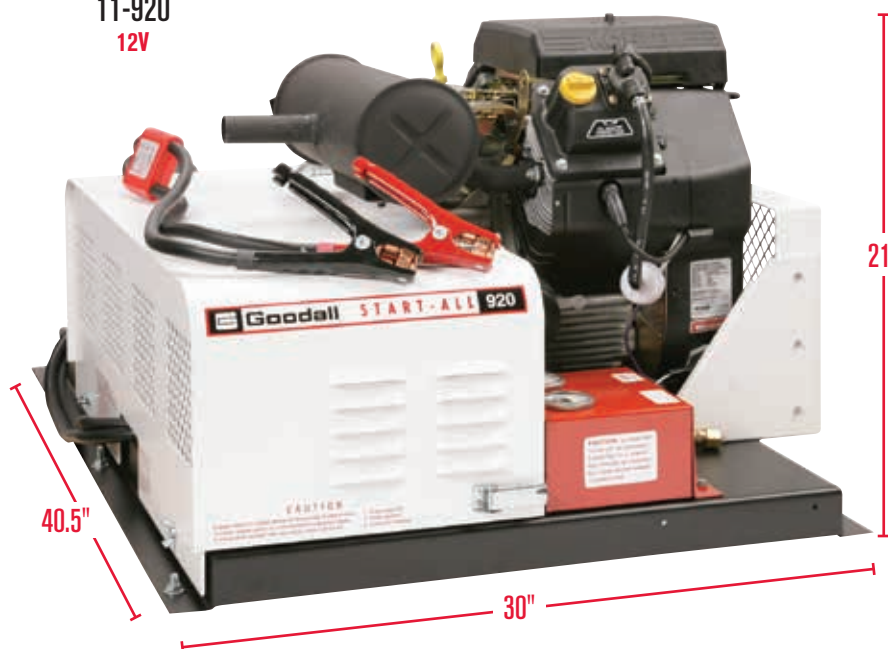
START•ALL®	11-625M	11-626M	11-627M
SPEED (TIME TO START)			
STARTS (NUMBER OF STARTS)			
SPEND (AVG. COST PER UNIT)			

SPECIFICATIONS

START•ALL®	11-625M	11-626M	11-627M
ENGINE	Electric Start, Air Cooled Briggs & Stratton Vanguard OHV Gas Powered with 2 gal. Fuel Tank and Low Oil Shutdown	Electric Start, Air Cooled Briggs & Stratton Vanguard OHV Gas Powered with 2 gal. Fuel Tank and Low Oil Shutdown	Electric Start, Air Cooled Briggs & Stratton Vanguard OHV Gas Powered with 2 gal. Fuel Tank and Low Oil Shutdown
JUMP STARTING	12/24 volt, 700/400 amp	12/24 volt, 700/400 amp	12/24 volt, 700/400 amp
AC OUTPUT	—	120 volt, 2,750 watt, 60 Hz	—
CFM @ 100 PSI	—	—	13
CABLES	30' 1/0 ga.	30' 1/0 ga.	30' 1/0 ga.
CLAMPS	1,000 amp	1,000 amp	1,000 amp
DIMENSIONS	27" W x 23" D x 24" H 375 lbs.	31" W x 25" D x 29" H 450 lbs.	31" W x 25" D x 29" H 485 lbs.

12 & 12/24V JUMP STARTING WITH AIR

11-920
12V



THESE BOLT-IN 11-900 SERIES UNITS ARE DESIGNED WITH ALL ENCLOSURES AND GUARDS IN PLACE. FEATURING POWERFUL JUMP STARTING WITH HIGH-VOLUME AIR POWER. DESIGNED SPECIFICALLY FOR HEAVY-DUTY, PROFESSIONAL ROAD AND FIELD SERVICE APPLICATIONS.







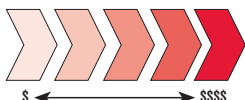

11-923
12 & 24V

GENERAL FEATURES

- Electric start, air cooled Kohler OHV V-Twin gasoline engine with low oil shutdown (required fuel tank sold separately – see pg. 33)
- Single stage air compressor, 23 CFM @ 100 psi, 150 psi max. (required air tank sold separately – see pg. 33)
- 30' 1/0 ga. welding cable allows flexibility and ease of use
- 1,000 amp full-power clamps allow higher amperage flow
- Voltage Control provides regulated voltage that is safer for vehicles and on-board electronics
- Reverse Current Shutdown Protection protects against expensive repairs to the Start•All if the unit runs out of gas
- Reverse Polarity Protection will not allow the Start•All to be turned on if the cables are not hooked up correctly
- Polarity and low-battery LED indicators confirm proper connections
- Antizap surge protection provides safer boosting
- Volt and amp meter to monitor boosting output
- Single DC boosting switch for easy operation

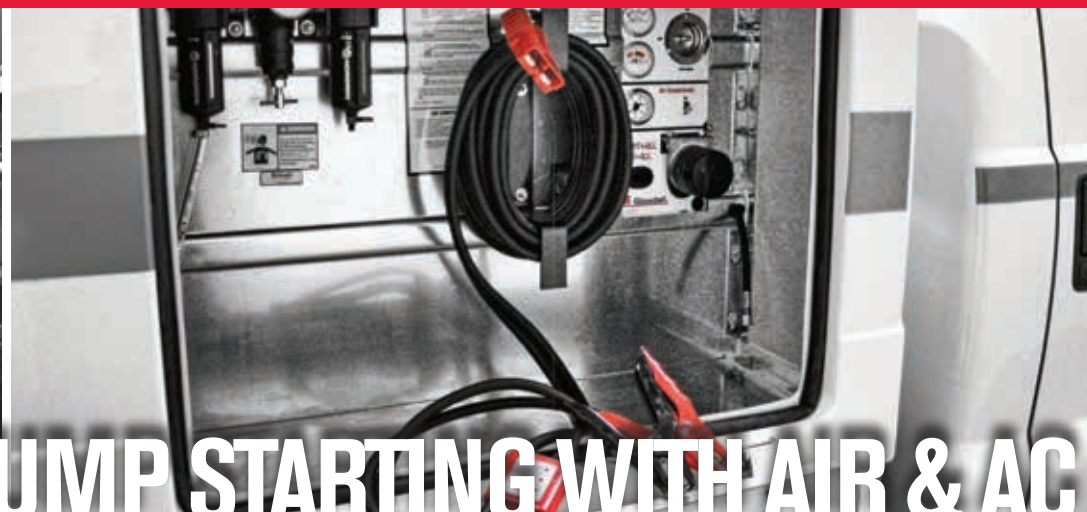


CHOOSE YOUR POWER: DETERMINING YOUR OUTPUT NEEDS (SEE GUIDE ON PG. 23)

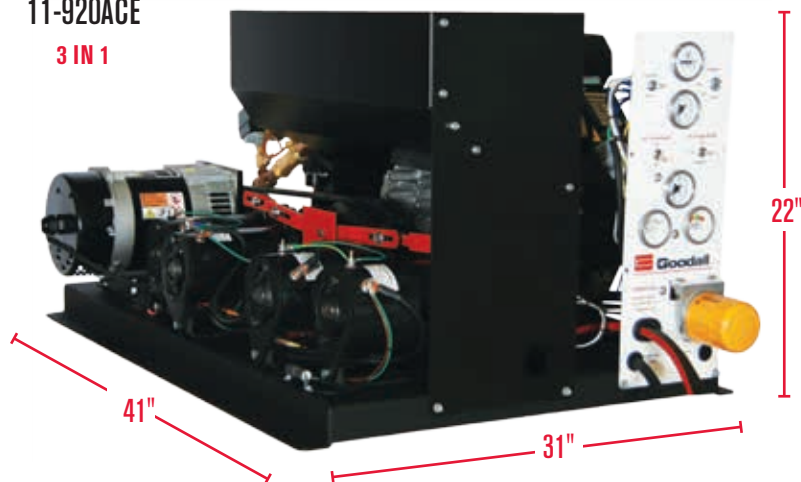
START•ALL®	11-920	11-923
SPEED (TIME TO START)		
STARTS (NUMBER OF STARTS)		
SPEND (AVG. COST PER UNIT)		

SPECIFICATIONS

START•ALL®	11-920	11-923
ENGINE	Electric Start, Air Cooled Kohler OHV V-Twin Gas Powered with Low Oil Shutdown (Fuel tank required, sold separately – see pg. 33)	Electric Start, Air Cooled Kohler OHV V-Twin Gas Powered with Low Oil Shutdown (Fuel tank required, sold separately – see pg. 33)
JUMP STARTING	12 volt, 700 amp	12/24 volt, 700/400 amp
CFM @ 100 PSI	23	23
CABLES	30' 1/0 ga.	30' 1/0 ga.
CLAMPS	1,000 amp	1,000 amp
DIMENSIONS	30" W x 40.5" D x 21" H 500 lbs.	30" W x 40.5" D x 21" H 500 lbs.



12 & 12/24V JUMP STARTING WITH AIR & AC

11-920ACE
3 IN 1


Designed to be installed behind the bulkhead in the load space with the control panel remotely-mounted in the first curb side toolbox of the service vehicle for convenience and safety. The panel includes:

- Oil pressure gauge
- Air pressure gauge
- Hourmeter
- Voltmeter
- Ammeter
- DC boosting switch
- Air compressor switch
- Remote oil filter
- Engine oil drain hose

GENERAL FEATURES

- Electric start, air cooled Kohler OHV V-Twin gasoline engine with low oil shutdown (required fuel tank sold separately – see pg. 33)
- Single stage air compressor, 23 CFM @ 100 psi, 150 psi max. (required air tank sold separately – see pg. 33)
- 30' 1/0 ga. welding cable allows flexibility and ease of use
- 1,000 amp full-power clamps allow higher amperage flow
- Voltage Control provides regulated voltage that is safer for vehicles and on-board electronics

WITH A CONTROL PANEL DESIGNED TO INTEGRATE INTO A SERVICE BODY, THESE 900 SERIES UNITS MOUNT GAUGES, CONTROLS, OIL FILTER AND DRAIN FOR SAFETY AND EASY OPERATION AND MAINTENANCE.



Sheet metal cover option (shown on the 11-921E):

- 61-747** Sheet metal cover (11-921E, 11-922E)
- 61-748** Sheet metal cover (11-920ACE, 11-923ACE)



Remote AC Control Panel
(11-920ACE & 11-923ACE)

- Reverse Current Shutdown Protection protects against expensive repairs to the Start•All if the unit runs out of gas
- Reverse Polarity Protection will not allow the Start•All to be turned on if the cables are not hooked up correctly
- Polarity and low-battery LED indicators confirm proper connections
- Antizap surge protection provides safer boosting
- Volt and amp meter to monitor boosting output
- Single DC boosting switch for easy operation

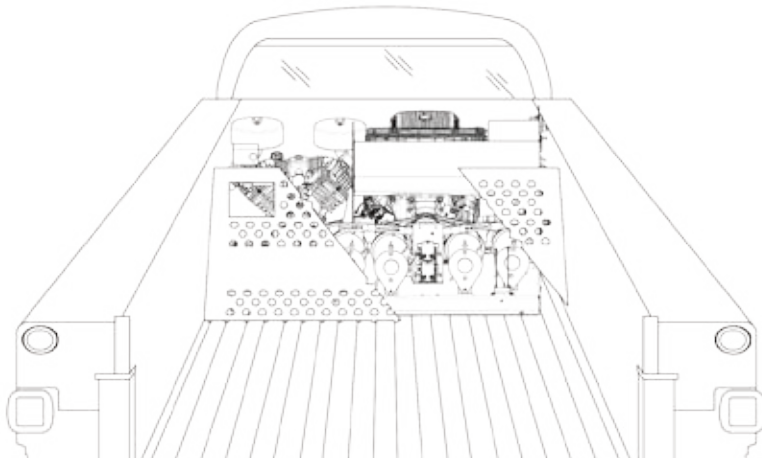
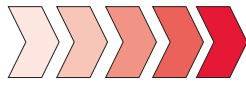
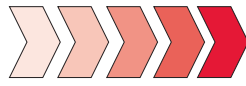
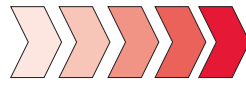
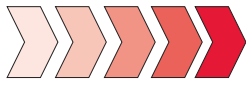
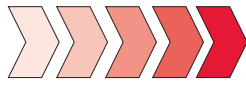
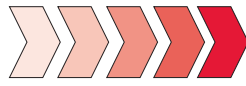
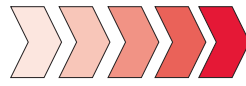
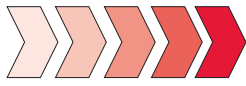
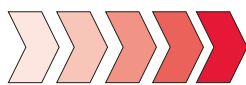
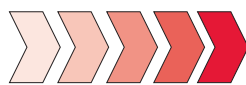




Illustration depicts typical installation of built-in 11-900 units. If you are attempting to install it in a body that is enclosed or covered, the installer is responsible to provide adequate and proper air flow to ensure proper unit operation and to adhere to unit safety requirements. The unit requires a minimum of 1600CFM ambient air flow to the air inlet. Engine heat and exhaust must be evacuated from the enclosure to prevent overheating and other safety issues. Contact Goodall to determine if additional consideration needs to be given to provide adequate ventilation.

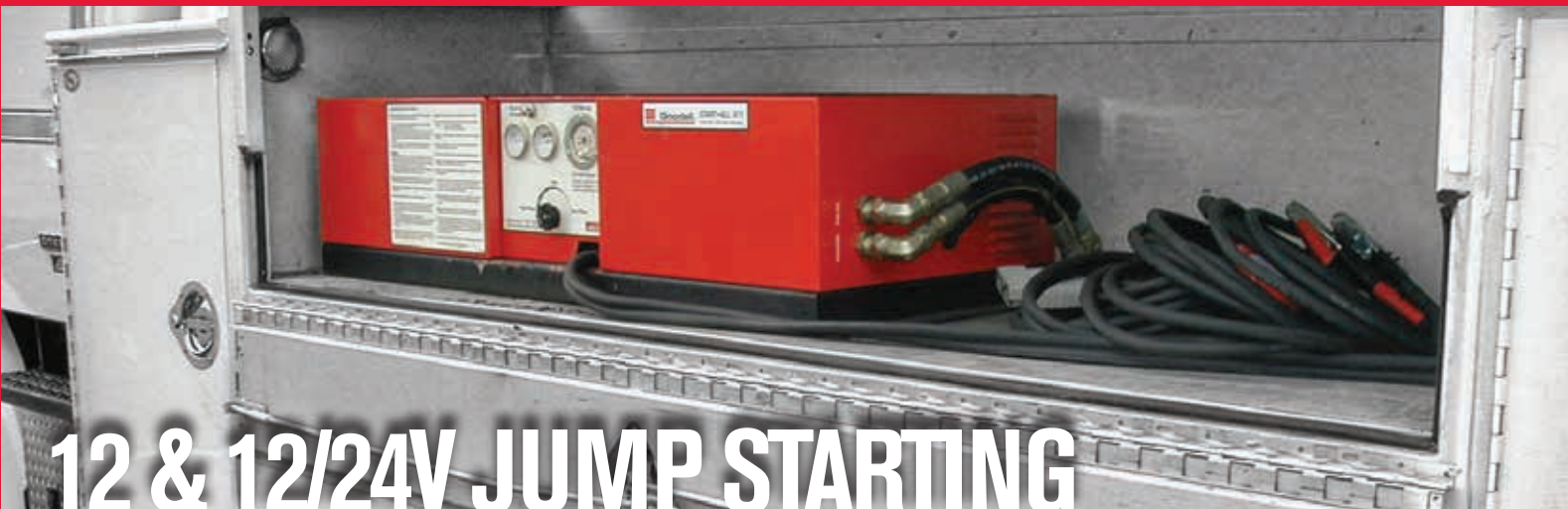
CHOOSE YOUR POWER: DETERMINING YOUR OUTPUT NEEDS (SEE GUIDE ON PG. 23)

START•ALL®	11-922E	11-921E	11-920ACE	11-923ACE
SPEED (TIME TO START)	 SLOWER ← → FASTER	 SLOWER ← → FASTER	 SLOWER ← → FASTER	 SLOWER ← → FASTER
STARTS (NUMBER OF STARTS)	 FEW ← → MANY	 FEW ← → MANY	 FEW ← → MANY	 FEW ← → MANY
SPEND (AVG. COST PER UNIT)	 \$ ← → \$\$\$\$	 \$ ← → \$\$\$\$	 \$ ← → \$\$\$\$	 \$ ← → \$\$\$\$

SPECIFICATIONS

START•ALL®	11-922E	11-921E	11-920ACE	11-923ACE
ENGINE	Electric Start, Air Cooled Kohler OHV V-Twin Gas Powered with Low Oil Shutdown	Electric Start, Air Cooled Kohler OHV V-Twin Gas Powered with Low Oil Shutdown	Electric Start, Air Cooled Kohler OHV V-Twin Gas Powered with Low Oil Shutdown	Electric Start, Air Cooled Kohler OHV V-Twin Gas Powered with Low Oil Shutdown
JUMP STARTING	12 volt, 700 amp	12/24 volt, 700/400 amp	12 volt, 700 amp	12/24 volt, 700/400 amp
AC OUTPUT	—	—	120/240 volt, 6,000 watt, 60 Hz	120/240 volt, 6,000 watt, 60 Hz
CFM @ 100 PSI	23	23	23	23
CABLES	30' 1/0 ga.	30' 1/0 ga.	30' 1/0 ga.	30' 1/0 ga.
CLAMPS	1,000 amp	1,000 amp	1,000 amp	1,000 amp
DIMENSIONS	31" W x 41" D x 22" H 475 lbs.	30" W x 41" D x 22" H 500 lbs.	31" W x 41" D x 22" H 550 lbs.	31" W x 40.5" D x 21" H 575 lbs.
COVER KIT*	61-747	61-747	61-748	61-748

* Sheet metal cover kit for generators and belts



12 & 12/24V JUMP STARTING

11-811



GOODALL'S HYDRAULICALLY POWERED 800 SERIES UNITS ARE LOW PROFILE, POWERFUL AND PERFECT FOR MOUNTING ON TRUCKS EQUIPPED WITH AN UNDER-THE-HOOD OR PTO HYDRAULIC PUMP. THESE COMPACT UNITS CAN BE MOUNTED IN COMPACT SIDE PACKS AND DO NOT REQUIRE ADDITIONAL GASOLINE.

Cover options will vary, depending on installation needs for increased ventilation when enclosed. Contact Goodall for more information.

11-802



11-807







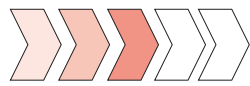




GENERAL FEATURES

- Minimum hydraulic requirements: 35 gal. hydraulic tank, 3/4" pressure hose, 1" return hose
- 30' 1/0 ga. welding cable allows flexibility and ease of use
- 1,000 amp full-power clamps allow higher amperage flow
- Voltage Control provides regulated voltage that is safer for vehicles and on-board electronics
- Reverse Current Shutdown Protection protects against expensive repairs to the Start•All if the unit runs out of gas
- Reverse Polarity Protection will not allow the Start•All to be turned on if the cables are not hooked up correctly
- Polarity and low-battery LED indicators confirm proper connections
- Antizap surge protection provides safer boosting
- Volt and amp meter to monitor boosting output
- Single DC boosting switch for easy operation



CHOOSE YOUR POWER: DETERMINING YOUR OUTPUT NEEDS (SEE GUIDE ON PG. 23)

START•ALL®	11-802	11-807	11-811
SPEED (TIME TO START)	 SLOWER ← → FASTER	 SLOWER ← → FASTER	 SLOWER ← → FASTER
STARTS (NUMBER OF STARTS)	 FEW ← → MANY	 FEW ← → MANY	 FEW ← → MANY
SPEND (AVG. COST PER UNIT)	 \$ ← → \$\$\$\$	 \$ ← → \$\$\$\$	 \$ ← → \$\$\$\$



Goodall's 11-811 is built to give you that extra boost for tough jobs.

SPECIFICATIONS

START•ALL®	11-802	11-807	11-811
HYDRAULIC REQUIREMENTS	15 gpm @ 2,500 psi	15 gpm @ 2,500 psi	25 gpm @ 2,500 psi
JUMP STARTING	12 volt, 700 amp	12/24 volt, 700/400 amp	12/24 volt, 1,000/600 amp
CABLES	30' 1/0 ga.	30' 1/0 ga.	30' 1/0 ga.
CLAMPS	1,000 amp	1,000 amp	1,000 amp
DIMENSIONS	36" W x 18" D x 12" H 275 lbs.	36" W x 18" D x 12" H 275 lbs.	48" W x 20" D x 12" H 425 lbs.



AFTER 75 YEARS IN BUSINESS, DELIVERING QUALITY PRODUCTS WITH INCREDIBLE SERVICE IS OUR PROUDEST TRADITION. WITH THAT IN MIND, WE ARE PASSIONATE ABOUT PAIRING YOUR NEEDS WITH THE PERFECT START-ALL UNIT AND NOT SELLING YOU MORE THAN YOU NEED. BELOW ARE SEVERAL FACTORS THAT SHOULD BE TAKEN INTO ACCOUNT WHEN SELECTING A JUMP STARTING SOLUTION. THERE MAY BE SEVERAL UNITS THAT WILL MEET YOUR INDIVIDUAL NEEDS, SO PLEASE CONSIDER THE QUESTIONS BELOW AND GIVE US A CALL TO DISCUSS YOUR SPECIFIC SITUATION.

QUESTIONS TO CONSIDER WHEN **CHOOSING A JUMP STARTING UNIT**

How many vehicles will you start a day?

It will depend on air temperatures and the battery-charge levels in the vehicles you start, but higher amperage units empower you to start more vehicles in a given period of time.

What's the voltage of the vehicles you start (12, 24 or both)?

Take a look at the ratio of 12 to 24 volt vehicles you usually start. If the majority of your jump starting needs are 12 volt, then the added cost of a 12/24 volt unit might not be justified. However, if you require regular 24 volt jump starting, our 24 volt jump starter is a solid long-term value.

How many batteries are generally on the vehicles you start?

This affects the amount of current needed to charge/boost a vehicle. If the vehicles you start usually have only 1 battery, that will require fewer amps than those with 2, 3 or 4.

How many days a year do you see temperatures dip below freezing?

The colder the climate you live in, the more amperage you'll need.

How will you mount your jump starting unit?

We offer multiple units that are vehicle-mount vs. built-in. Built-ins work best on service body trucks, while you can easily mount our stand-alone units on service vehicles, pickup trucks, flatbeds or tow trucks—with a minimal footprint.

Will you need AC and/or air power?

Our AC units can provide 2,000-6,000 continuous watts (120V/240V) to power most on-site electrical needs. Our air compressors provide up to 30 CFM @ 100 psi to run most pneumatic tools, as well as fill tires on-site.

BATTERY CHARGING/JUMP STARTING VS. INSTANT JUMP STARTING

Goodall's gas-powered starting units provide battery charging **AND** jump starting power. They take a few minutes to jump start a vehicle (depending on outside conditions), but they also provide a standing charge to the battery and can perform infinite jump starts as long as you keep them fueled. Instant jump starting units provide a finite number of starts and need to be recharged when depleted. While battery or capacitor jump starting units provide an instant jump start to start your vehicle, they don't provide a standing charge to batteries.



THE “S” FACTORS

When it comes to determining your output needs, start with the three S's.

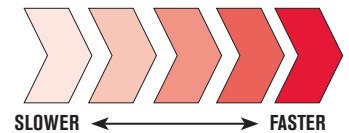
SPEED: HOW QUICKLY DO YOU NEED TO JUMP START A VEHICLE?

Is time on your side, or are you usually working against the clock? Low-amperage units can start the same vehicles as their high-amp cousins. But it can take more time to start a vehicle with 300 amp output versus 700 amp output. **If downtime is your nemesis, choose a more powerful Goodall jump starting unit to get the job done more quickly.**

THE “S” GAUGE

Look for these indicators to easily compare Start•All units.

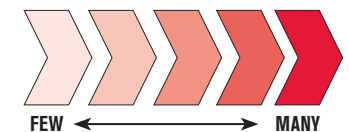
TIME TO START*



STARTS: HOW MANY STARTS DO YOU NEED TO PERFORM EACH DAY?

Do you consistently make several starts a day? Or do you only occasionally need to get a vehicle up and running. If you need to jump start multiple vehicles per day, look for Goodall's gas-powered jump starting units that can boost as few or as many vehicles as you need (if properly fueled). If your needs are less frequent, consider a battery powered unit. Battery powered units provide instant vehicle boosting but a limited number of starts before needing to be recharged.

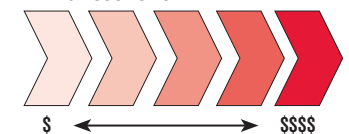
NUMBER OF STARTS*



SPEND: WHAT'S YOUR OPTIMAL ROI (RETURN ON OUTPUT INVESTMENT)?

Higher output = higher price. That's a given. But does downtime cost even more? The real consideration is what we call ROI: Return on Output Investment. If you need quicker boosting power to get your vehicles back on the road fast, then a higher-amp output also boosts your ROI. But if your starting needs are less frequent (or not time-sensitive), you're better off with a lower-amp output. And if you often need to be in two places at once, you might consider two lower-amp output jump starters for the cost of one high-amp.

AVERAGE COST OF UNIT**



* Statistics are approximate as conditions may vary (temperature, battery condition, etc.)

** Prices will vary. Please contact your dealer or distributor for final pricing.

12/24 VOLT JUMP STARTING SELECTION CHART

Find the model that's right for you. It's as easy as 1-2-3. Just follow the steps below for your perfect Goodall Start•All®.

1 **2** **3**

1. SELECT UNIT POWER

What do you want your Start•All to run on?

3. SELECT UNIT FUNCTION

What do you need in your Start•All?

2. SELECT UNIT OUTPUT

How much power do you need from your Start•All?

AC POWER USAGE CHART

Reference this chart to get a good approximation of the wattage requirements for your tools.

AC TOOL OR EQUIPMENT	STARTING WATTAGE	RUNNING WATTAGE
Drill	1,800	720
Edger	2,400	960
Electric Pressure Washer	3,600	1,200
Electric String Trimmer	1,500	600
Jig Saw	1,800	720
Miter Saw	2,100	840
Paint Sprayer	1,080	360
Water Pump	3,000	1,000
Wet/Dry Vacuum	2,500	888
Winch	5,400	1,800
1/4" Drill	300	300
Belt Sander	1,000	1,000
Disc Sander	1,200	1,200
Chain Saw	1,200	1,200
Worm Drive Saw	3,100	1,560
12" Concrete Cutter	3,600	1,800
Disc Grinder	4,000	2,000
Air Compressor (Average)	4,000	2,000

1	2	3		

GAS POWERED VEHICLE MOUNTED

MODEL NUMBER	AMPERAGE	AC OUTPUT	CFM @ 100 PSI
12/24V JUMP STARTING ONLY			
11-618 Start•All	300/180	—	—
11-620 Start•All	700/400	—	—
11-660 Start•All	700/400	—	—
12/24V JUMP STARTING WITH AIR			
11-622 Start•All	700/400	—	13
11-923 Start•All	700/400	—	23
12/24V JUMP STARTING WITH AC			
11-621 Start•All	700/400	2,000/2,750	—

GAS POWERED BUILT-IN

MODEL NUMBER	AMPERAGE	AC OUTPUT	CFM @ 100 PSI
12/24V JUMP STARTING AIR			
11-921E Start•All	700/400	—	23
12/24V JUMP STARTING WITH AIR & AC			
11-923ACE Start•All	700/400	5,000/6,000	23

HYDRAULIC

MODEL NUMBER	AMPERAGE	AC OUTPUT	CFM @ 100 PSI
12/24V JUMP STARTING ONLY			
11-807 Start•All	700/400	—	—
11-811 Start•All	1000/600	—	—

CAPACITOR

MODEL NUMBER	AMPERAGE	AC OUTPUT	CFM @ 100 PSI
24V VEHICLE MOUNT			
13-097-10 CapStart	3,000+	—	—

BATTERY

MODEL NUMBER	AMPERAGE	AC OUTPUT	CFM @ 100 PSI
12/24V PORTABLE WHEELED			
13-214 Boost•All	*	—	—
13-224 Boost•All	*	—	—
12/24V VEHICLE MOUNT			
13-420 Super Boost•All	*	—	—
13-425 Super Boost•All	*	—	—
13-492 Super Boost•All	*	—	—

* Output amperage is dependant on supplied battery power.

12 VOLT JUMP STARTING SELECTION CHART

GAS POWERED VEHICLE MOUNTED	MODEL NUMBER	AMPERAGE	AC OUTPUT	CFM @ 100 PSI
	12V JUMP STARTING ONLY			
	11-601 Start•All	300	—	—
	11-605 Start•All	450	—	—
	11-610 Start•All	700	—	—
	12V JUMP STARTING WITH AIR			
	11-602 Start•All	300	—	8
	11-607 Start•All	450	—	13
	11-612 Start•All	700	—	13
	11-920 Start•All	700	—	23
	12V JUMP STARTING WITH AC			
	11-606 Start•All	450	2,000/2,750	—
	11-611 Start•All	700	2,000/2,750	—
	12V JUMP STARTING WITH AIR & AC			
	11-608 Start•All	450	2,000/2,750	13

GAS POWERED BUILT-IN	MODEL NUMBER	AMPERAGE	AC OUTPUT	CFM @ 100 PSI
	12V JUMP STARTING WITH AIR			
	11-922E Start•All	700	—	23
	12V JUMP STARTING WITH AIR & AC			
	11-920ACE Start•All	700	5,000/6,000	23

HYDRAULIC	MODEL NUMBER	AMPERAGE	AC OUTPUT	CFM @ 100 PSI
	12V JUMP STARTING ONLY			
	11-802 Start•All	700	—	—

BATTERY	MODEL NUMBER	AMPERAGE	AC OUTPUT	CFM @ 100 PSI
	12V PORTABLE WHEELED			
	13-213 Boost•All	*	—	—
	13-223 Boost•All	*	—	—
	12V VEHICLE MOUNT			
	13-482 Super Safe Boost•All	*	—	—

CFM USAGE CHART

Reference this chart to get a good approximation of the CFM requirements for your tools.

AIR TOOL OR EQUIPMENT	AIR CONSUMPTION (CFM)
Drill, 1/16"-3/8"	4 (15%), 6 (25%), 9 (35%)
Drill, 3/8"-5/8"	5 (15%), 9 (25%), 12 (35%)
Impact Wrench, 1/4"	2 (15%), 4 (25%), 5 (35%)
Impact Wrench, 3/8"	3 (15%), 5 (25%), 7 (35%)
Impact Wrench, 1/2"	5 (15%), 8 (25%), 11 (35%)
Impact Wrench, 5/8"	5 (15%), 8 (25%), 11 (35%)
Impact Wrench, 3/4"	5 (15%), 9 (25%), 12 (35%)
Impact Wrench, 1"	7 (15%), 11 (25%), 16 (35%)
Impact Wrench, 1-1/4"	8 (15%), 14 (25%), 19 (35%)
Die Grinder, small	2 (15%), 4 (25%), 5 (35%)
Die Grinder, medium	4 (15%), 6 (25%), 8 (35%)
Horizontal Grinder, 2"	5 (15%), 8 (25%), 11 (35%)
Horizontal Grinder, 4"	9 (15%), 15 (25%), 21 (35%)
Horizontal Grinder, 6"	11 (15%), 18 (25%), 25 (35%)
Horizontal Grinder, 8"	12 (15%), 20 (25%), 28 (35%)
Air Motor, 1 hp	5 (15%), 9 (25%), 12 (35%)
Air Motor, 2 hp	11 (15%), 18 (25%), 25 (35%)
Air Motor, 3 hp	14 (15%), 24 (25%), 33 (35%)
Circular Saw, 8"	7 (15%), 11 (25%), 16 (35%)
Circular Saw, 12"	10 (15%), 16 (25%), 24 (35%)
Vertical Disc Sander	20 @ 90-100 psi
Air Hammer	4 @ 90-100 psi
Tire Hammer	12 @ 90-100 psi
Bead Breaker	12 @ 125-150 psi
Spring Oiler	4 @ 90-100 psi
Floor Jacks (air powered hydraulic)	6 @ 125-150 psi

Always check with tool manufacturers for actual air consumption. Above is based on averages and should not be considered accurate for any particular make of tool.

Above tools are rated based upon typical "on-load" performance characteristics. For other use factors adjust the CFM air consumption on a proportional basis (example: 30 seconds on; 30 seconds off use 50% as use factor).

CFM required to operate various pneumatic equipment at a pressure range of 70-90 psi.

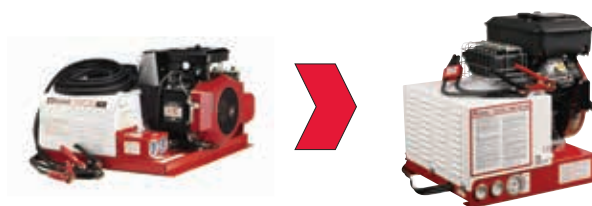


OUT OF THE PAST INTO THE FUTURE

UPDATE YOUR OLD TWO-CABLE 716 OR 718 START•ALL®

TECHNOLOGY CHANGES AND SO DO WE. GOODALL'S UPGRADE KITS FOR THE 11-700 SERIES START•ALL BRINGS YOUR OLDER, TWO-CABLE START•ALL UNIT UP TO THE CURRENT WIRING CONFIGURATION. GOODALL HAS BUILT TENS OF THOUSANDS OF THE 11-700 SERIES START•ALL UNITS AND WE WISH TO CONTINUE TO SUPPORT THESE UNITS INTO THE FUTURE.

By upgrading your unit, you will gain: Advanced voltage regulation to protect the electronics and computers on the vehicle to be jump started, simple operation with all controls and instructions in one location and the advantage of full-power boosting through one set of cables.



UPGRADE KITS

Two kits are available for the 11-700 series Start•All - a 12 volt only and a 12/24 volt kit. The 12/24 volt kit contains 2 isolated ground generators, which need to replace 2 case ground generators that were originally in the 11-700 series units.

The advantages of updating the older style units are so significant that we will only be supporting the 11-700 series units that have the single cable set upgrade.

61-800 Kit This kit will convert a two-cable 11-700 series Start•All to a single cable, 12 volt configuration. This is how the current 11-610 Start•All is configured.

61-803 Kit This kit will convert a two-cable 11-700 series Start•All to a single cable, 12/24 volt configuration. This is how the current 11-620 Start•All is configured.

61-803R Kit The same as the 61-803 kit, except remanufactured generators are used in place of factory new.

UPGRADE KITS INCLUDE:

- Voltage Control provides regulated voltage that is safer for vehicles and on-board electronics
- Reverse Current Shutdown Protection, which helps prevent expensive repairs to the Start•All unit should it run out of gas
- Reverse Polarity Protection that will not allow the Start•All to be turned on if the cables are not hooked up correctly
- 30' 1/0 cable with 1,000 amp clamps with full-power jaws and polarity indicator
- All-internal wiring, solenoids and switches
- Volt and amp meters
- Instructions and wiring diagram



UPGRADE KITS FOR SINGLE CABLE START•ALL® UNITS

THE CURRENT VOLTAGE CONTROL MODULE ADDS ADDITIONAL BENEFITS FROM OUR ORIGINAL MODULES. OUR VOLTAGE CONTROL MODULE HELPS PREVENT THE GENERATOR DAMAGE THAT MAY OCCUR IF A START•ALL UNIT RUNS OUT OF GAS WHILE CONNECTED TO FULLY CHARGED BATTERIES.

UPGRADE FROM TWO VOLTAGE CONTROLS

Upgrades two 2-wire voltage controls to single 6-wire regulator with run-out-of-gas protection.

600 SERIES START•ALL

- 61-784 Kit** For 11-620 Series Start•All
- 61-785 Kit** For 11-610 Series Start•All
- 61-792 Kit** For 11-605 Series Start•All
- 61-795 Kit** For 11-621 Series Start•All
- 61-796 Kit** For 11-612 Series Start•All
- 61-814 Kit** For 11-622 Series Start•All
- 61-815 Kit** For 11-608 Series Start•All
- 61-816 Kit** For 11-611 Series Start•All
- 61-819 Kit** For 11-606 Series Start•All
- 61-820 Kit** For 11-627M Series Start•All
- 61-821 Kit** For 11-607 Series Start•All
- 61-822 Kit** For 11-625M Series Start•All
- 61-823 Kit** For 11-602 Series Start•All
- 61-824 Kit** For 11-626M Series Start•All

900 SERIES START•ALL

- 61-786 Kit** For 11-922 Series Start•All
- 61-794 Kit** For 11-920 Series Start•All
- 61-797 Kit** For 11-923 Series Start•All
- 61-804 Kit** For 11-923AC Series Start•All
- 61-817 Kit** For 11-921 Series Start•All
- 61-818 Kit** For 11-920AC Series Start•All

700 SERIES START•ALL

- 61-812 Kit** For 11-712 Series Start•All

- 61-813 Kit** For 11-708 Series Start•All

800 SERIES START•ALL

- 61-791 Kit** For 11-807 Series Start•All

- 61-806 Kit** For 11-811 Series Start•All

- 61-825 Kit** For 11-802 Series Start•All



61-784

12V JUMP STARTING



13-485

DESIGNED SPECIFICALLY FOR THOSE ONLY NEEDING 12 VOLT JUMP STARTING, THIS SUPER BOOST•ALL USES AUXILIARY JUMP STARTING BATTERIES, WITH THE ADDITIONAL OUTPUT OF THE VEHICLE'S ALTERNATOR BEING USED TO INCREASE THE TOTAL JUMP STARTING POWER. THIS IS A COMPACT AND EFFICIENT 12 VOLT JUMP STARTING SOLUTION.

13-485 12 VOLT INTEGRATED SUPER BOOST•ALL

GENERAL FEATURES

Main power ON/OFF switch

- No power is allowed until the switch is turned on and the clamps are connected correctly.

Provides 12 volt signal for fast idle on service vehicle

- Allows increased jump starting power.

Reverse Polarity Protection

- Will not allow power to be turned on unless the clamps are connected correctly.

Dead short and open clamp protection

- Will not allow power to be turned on unless the clamps are connected correctly.

Kit Includes:

- Control Box
- Battery Box
- (4) Group 31 Batteries
- Battery Separator
- 25 ft. Booster Cables
- Connecting Cables

13-482 CONTROL BOX ONLY FOR SUPER BOOST•ALL

Control box and cables only. Must provide 2 or 4 Group 31 batteries.



Back view

SPECIFICATIONS

INTEGRATED SUPER BOOST•ALL®	13-482
POWER SOURCE	2 or 4 Auxiliary Jump Starting Batteries
CABLES	25' 2/0 ga.
CLAMPS	1,000 amp
DIMENSIONS	10" W x 12" D x 10" H 60 lbs.



13-435

DESIGNED TO BE MOUNTED ON YOUR SERVICE VEHICLE WITH 2 OR 4 AUXILIARY JUMP STARTING BATTERIES FOR STARTING 12 OR 24 VOLT VEHICLES. AUXILIARY BATTERIES ARE CHARGED FROM THE SERVICE VEHICLE'S ELECTRICAL SYSTEM THROUGH THE INTERNALLY MOUNTED BATTERY SEPARATOR.

SUPER BOOST•ALL KIT

The Super Boost•All kits include all components needed for a turn key 12/24 volt heavy-duty battery powered jump starting solution. Included in the kit are:

- Control Box
- Battery Box
- (4) Group 31 Batteries
- Battery Separator
- 25 ft. Booster Cables
- Connecting Cables

13-430 Super Boost•All Kit 12 & 24 volt, 2 ga. cable & clamps

13-435 Super Boost•All Kit 12 & 24 volt, 2/0 ga. cable & clamps

SUPER BOOST•ALL REPLACEMENT PARTS

13-438 Replacement Battery Pack (13-430)

Includes (4) Group 31 batteries, connecting cables, and battery box

13-440 Replacement Battery Pack (13-485)

Includes (4) Group 31 batteries, connecting cables, and battery box

13-450 Battery box (batteries not included)

SUPER BOOST•ALL COMPONENTS

Available for those applications where you prefer using two (2) batteries or your own set up.

13-420 Super Boost•All Control Box with Battery Separator
25' 2 ga. cable & clamp assembly

13-425 Super Boost•All Control Box with Battery Separator
25' 2/0 ga. cable & clamp assembly

SPECIFICATIONS

SUPER BOOST•ALL®	13-420	13-425
POWER SOURCE	2 or 4 Auxiliary Jump Starting Batteries	2 or 4 Auxiliary Jump Starting Batteries
CABLES	25' 2 ga.	25' 2/0 ga.
CLAMPS	1,000 amp	1,000 amp
DIMENSIONS	10" W x 12" D x 10" H 45 lbs. (w/o batteries)	10" W x 12" D x 10" H 60 lbs. (w/o batteries)

Output dependent on number of auxiliary batteries.



12 & 12/24 V JUMP STARTING

13-224



Narrow 20" width fits easily between parked vehicles.

A JUMP STARTING SOLUTION FOR REPAIR SHOPS, PARKING LOTS AND GARAGES. WHILE NOT DESIGNED FOR CONTINUOUS JUMP STARTS, BOOST•ALLS OFFER ECONOMY WITHOUT SKIMPING ON QUALITY. THESE UNITS PROVIDE 12 OR 12/24 VOLT, BATTERY-POWERED JUMP STARTING IN A NARROW, 20"-WIDE PORTABLE UNIT WHICH MAKES MANEUVERING BETWEEN ROWS OF PARKED VEHICLES A SNAP.

GENERAL FEATURES

- Fully automatic internal AC charger to keep battery in ready-to-use condition
- Extra-large pneumatic tires for easy mobility and navigating rough terrain
- Voltmeter to monitor battery charge level of the Boost•All or disabled vehicle
- Requires two Group 31 AGM batteries, 3/8" threaded top post, 900 CCA or higher (*batteries not included*)

SPECIFICATIONS

BOOST•ALL®	13-213	13-214	13-223	13-224
POWER SOURCE	2 Group 31 AGM Batteries	2 Group 31 AGM Batteries	2 Group 31 AGM Batteries	2 Group 31 AGM Batteries
JUMP STARTING	12 volt	12/24 volt	12 volt	12/24 volt
CABLES	10' 1/0 ga.	10' 1/0 ga.	10' 4/0 ga.	10' 4/0 ga.
CLAMPS	800 amp	800 amp	1,000 amp Full Power	1,000 amp Full Power
DIMENSIONS	20" W x 26" D x 48" H 66 lbs.	20" W x 26" D x 48" H 66 lbs.	20" W x 26" D x 48" H 70 lbs.	20" W x 26" D x 48" H 77 lbs.



Plug it in and leave it plugged in. Ready when you need it. Integrated, fully-automatic 120 volt AC charger.



13-097-10

DO YOU HAVE EXTREME JUMP STARTING NEEDS? THE CAPSTART IS DESIGNED TO START HEAVY-DUTY 24V VEHICLES INSTANTLY. THIRTY HEAVY-DUTY DOZERS IN BELOW-ZERO TEMPERATURES? TWENTY TRANSIT BUSES ON A BONE-CHILLING MORNING? THE CAPSTART GENERATES 1,500 AMPS, IN 24 VOLT OPERATION, TO JUMP START JUST ABOUT ANYTHING QUICKLY AND SAFELY, REGARDLESS OF TEMPERATURE AND VEHICLE SIZE.

VEHICLE-MOUNTED CAPSTART

Goodall's CapStart comes in a convenient vehicle-mount package. Mount in the rear of a pickup truck or between the side packs of a service vehicle to provide countless jump starts.

13-097-10

- Powercells are charged by the vehicle's electrical system or built-in 120 volt AC fully-automatic charger.

61-500 Shop Cart

SPECIFICATIONS

CAPSTART®	MOUNTED 13-097-10
POWER SOURCE	Super Capacitor & (2) Group 31 AGM Batteries
JUMP STARTING	24 volt
CABLES	26' 4/0 ga.
CLAMPS	1,000 amp Full Power
DIMENSIONS	44" W x 20" D x 14" H 250 lbs.

GENERAL FEATURES

- Capacitor can be re-charged 500,000 times, providing many years of service and can be recharged in under one minute
- Powercells are non-gassing, non-leaking, and maintenance free
- Operating temperature range: -49° F to +122° F
- Quick-disconnect red plug for plug-to-plug operation
- Includes reverse polarity and dead short circuitry protection

ENGINE STARTING SYSTEMS

LET'S GET STARTED



A DEAD BATTERY SHOULDN'T KILL A PRODUCTIVE WORKDAY. WHEN A BATTERY DIES, THE WORKDAY STOPS COLD. THE PATENT PENDING FST3000™ FEATURING THE VANAIR SUPER CAPACITOR (VSC™) PROVIDES INSTANTANEOUS ENGINE STARTING POWER TO GET VEHICLES BACK UP AND RUNNING...FAST!



FST3000+AIR™

GENERAL FEATURES

- 3000+ AMPS of engine starting power
- Featuring Vanair Super Capacitor (VSC™)
- 240 AMP alternator for fast recharging
- 12 V and 12/24 V charging and starting capabilities
- Available with and without a 24 CFM/up to 175 PSI reciprocating air compressor
- FST3000+Air includes remote control panel for easy operation



REMOTE MOUNT FUEL TANKS



280-006

280-006 Fuel Tank

- 6 gal. capacity
- Cap includes easy-to-read gauge
- For use with 11-900 Series Start•Alls
- 15" W x 8.5" D x 12.25" H
- EPA compliant
- CARB compliant

280-264 Fuel Tank

- 13 gal. capacity
- 42" W x 7" D x 20" H
- EPA compliant



280-264

280-255 Fuel Tank

- 6 gal. capacity
- 29" W x 4" D x 20" H
- EPA compliant



280-255

280-283 Fuel Tank

- 8 gal. capacity
- 20" W x 6" D x 19" H
- EPA compliant



280-283

AIR TANKS



61-130



61-131

61-130 Air Tank, Vertical Mount

61-131 Air Tank, Horizontal Mount

- For use with 11-900 & 11-600 Series Start•Alls and Goodall Power Center units
- 30 ga. capacity, 19" x 41"
- ASME certified

50-443 Air Tank, Horizontal Mount

- For use with 11-900 & 11-600 Series Start•Alls and Goodall Power Center units
- 12 ga. capacity, 14" x 26"
- ASME certified



50-443

PLUG-ENDED BOOSTER CABLES

70-441 30' 1/0 ga. with Red Plug

70-444 50' 1/0 ga. with Red Plug



70-444

WELDING CABLE SETS

350-043 25' 1/0 gauge

350-056 50' 1/0 gauge



350-056

BOOSTER CABLE UPGRADE

61-650 50' Booster cable upgrade option
Factory installed; must be ordered at time of Start•All purchase

61-744 CABLE STORAGE RACK

- For easy storage of Start•All cables
- Attaches to service vehicles
- 19" length



61-744

13-440 Replacement Battery Pack for 13-482

13-438 Replacement Battery Pack for 13-420 and 13-425

Both Include:

- Includes (4) Group 31 AGM batteries
- Connecting cables
- Battery Box (13-450)

13-450 Battery Box

- Holds (4) Group 31 batteries
- 44" L x 20" D x 14" H



13-450

STUD KIT

For additional remote plug and jump starting outlet locations

71-554 For 900 Series Start•Alls

71-555 For 600 Series Start•Alls

71-556 For 800 Series Start•Alls



71-554

CANVAS COVERS

61-743 For all 11-600 Series models

61-760 For Goodall Power Center 1000 Series



61-743

BUMPER BOX WITH PLUG

- For service trucks
- Stainless steel
- 12' of cable (other lengths available)
- Comes with 71-402 Red Plug

12-296 12' 1/0 ga.

12-297 12' 2/0 ga.



12-296/12-297

61-185 FUEL PUMP SAFETY KIT

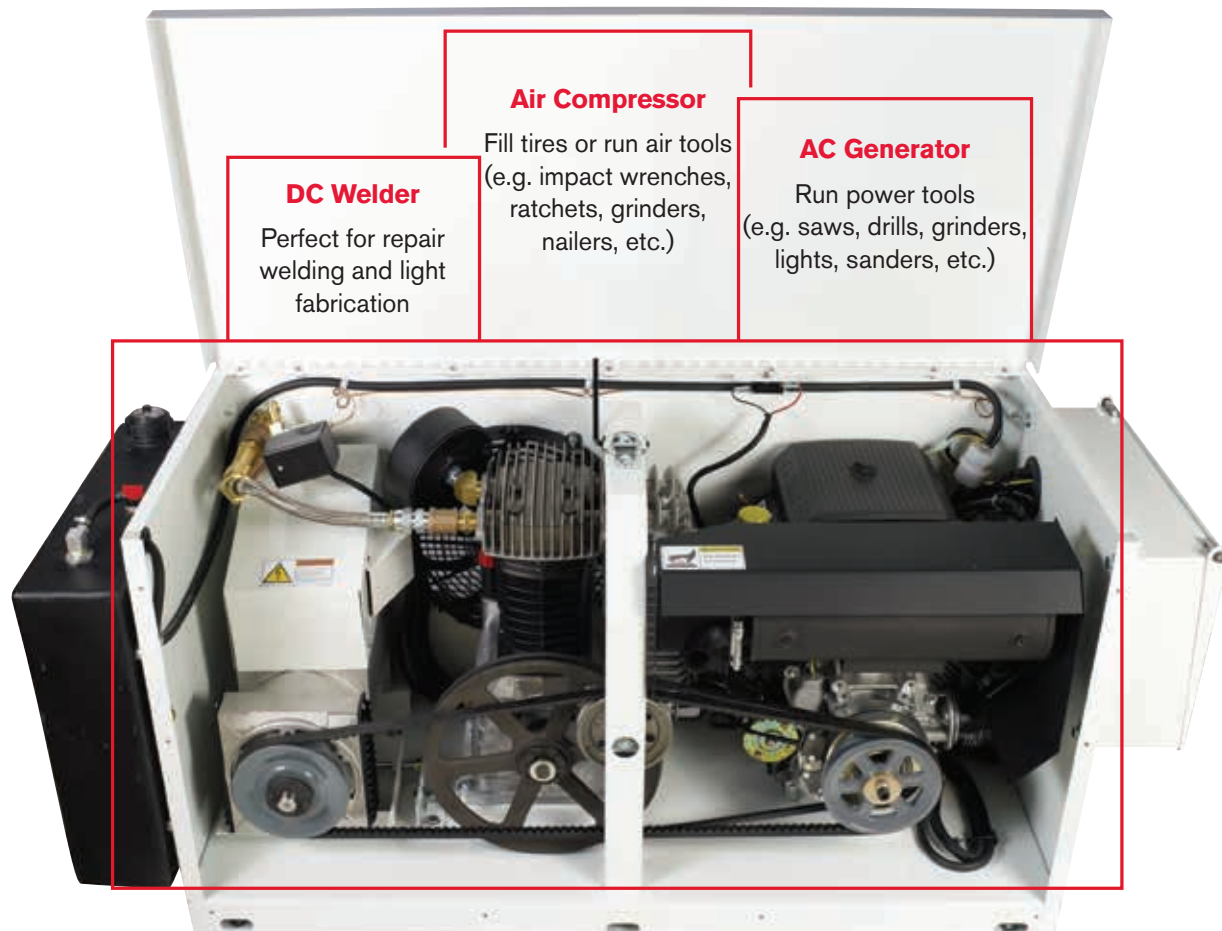
- Option to be used with any of the 11-900 Series Start•All units
- Will shut down gas pump when Start•All engine is not running



61-185

THE POWER CENTERS

GOODALL POWER CENTERS (GPC) ARE ALL-IN-ONE, MULTI-FUNCTION PRODUCTS DESIGNED TO MEET THE NEEDS OF TODAY'S MOBILE SERVICE MECHANICS. THESE UNITS ARE ENGINEERED TO REDUCE THE AMOUNT OF SPACE NECESSARY TO FIT IN MOST SERVICE VEHICLES (BY 50% IN MANY CASES, AND REDUCING WEIGHT BY 30% TO COMPARABLE SEPARATE COMPONENTS). IF YOU ARE A FIELD SERVICE MECHANIC, THE GOODALL POWER CENTER IS YOUR ANSWER TO ON-DEMAND MOBILE POWER.





“THE GOODALL POWER CENTER IS ONE OF THE BEST TOOLS WE HAVE. AS A SUPERINTENDENT OF A PUBLIC WORKS DIVISION, I NEED TO DO MORE WITH LESS. THE GOODALL UNIT GIVES ME THE ABILITY TO DO THAT. NO MORE TOWING A COMPRESSOR OR WELDER. THE UNIT TAKES UP THE SPACE THAT A NORMAL-SIZED WELDING UNIT WOULD, BUT IT INCLUDES AN AC GEN-SET AND A COMPRESSOR. THANKS FOR BUILDING A GREAT TOOL THAT IS VIRTUALLY TROUBLE FREE AND VERY LOW MAINTENANCE TOO!”

—JOE TAGLIABOSCHI, YOLO COUNTY



1000 SERIES: POWERFUL, OPEN-AIR POWER CENTERS

Available as a complete tank-mount unit or as a base-mount unit with remote air tank, the 1000 Series is a downtime destroyer. Up to 8,500 watt AC generator, 16-29 CFM compressor and DC stick welder make this compact unit a must-have for the on-the-go mobile service technician. And the open-air design make parts easily accessible for maintenance and repair.



2000 SERIES: VERSATILE, ENCLOSED, 3-IN-1 POWER CENTERS

Take multiple components for multiple service functions, put them in one box, from one manufacturer, and you have the 2000 Series Power Centers. Gas or hydraulically powered, these mobile work stations give you DC stick welding power, up to 5000 watts of AC power and up to 24 CFM air power to keep you on the job and in the field.

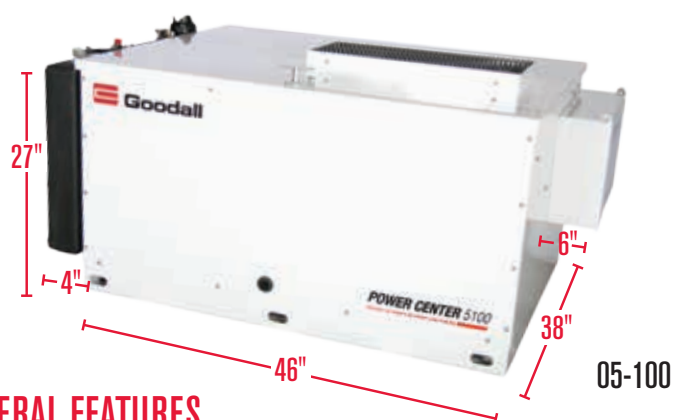


5000 SERIES: THE ULTIMATE MOBILE SERVICE CENTER

Add jump starting to our already feature-rich line of Power Centers and you have the only product in the market that provides true 4-in-1 mobile service tech capabilities. Powerful 12/24 volt jump starting, a 23 CFM air compressor, DC stick welding, and up to 5,000 watts of AC power to provide you with all the features and function to get the job done anytime, anywhere.



4-IN-1 POWER CENTER



GENERAL FEATURES

Engine

- Electric start, air cooled Kohler Command OHV V-Twin with low oil shutdown
- Includes 6 gal. EPA compliant side mount fuel tank (removable)
- For CARB-compliant unit, contact customer service

DC Welding

- DC Stick, 250 amp
- 25' 1/0 gauge welding cables included

AC Power

- 5,000 watt (while not welding)
- Synchronous, brushless AC generator
- Outlets: 1 - 120 volt, 20 amp duplex, 1 - 120 volt, 30 amp twist lock, 1 - 240 volt, 20 amp twist lock

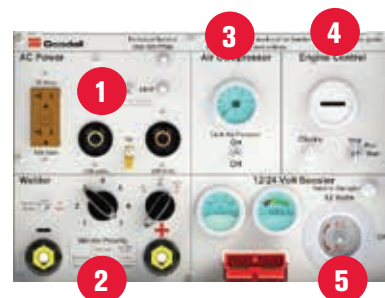
Air Power (Air tank required, sold separately. See options on page 33.)

- 23 CFM rated at 100 psi, 150 psi max.
- Air gauge on control panel monitors air tank pressure

Jump Starting

- 12 volt, 700 amp; 24 volt, 400 amp
- 30' 1/0 ga. welding cable allows flexibility and ease of use
- 1,000 amp full-power clamps allow higher amperage flow
- Voltage Control provides regulated voltage that is safer for vehicles and on-board electronics
- Reverse Current Shutdown Protection protects against expensive repairs to the GPC if the unit runs out of gas
- Reverse Polarity Protection will not allow the GPC to be turned on if the cables are not hooked up correctly
- Polarity and low battery LED indicators confirm proper connections
- Antizap surge protection provides safer boosting

THE GPC 5100 IS THE WORKHORSE OF THE POWER CENTER LINE. IT'S A 4-IN-1 SYSTEM THAT COMBINES AC GENERATOR, AIR COMPRESSOR, WELDER AND START-ALL JUMP STARTING SYSTEM ALL IN ONE EASY-TO-INSTALL PACKAGE.



Control Panel

- Removable control box feature for easy remote mounting
- Requires extension harness for distances beyond 12"
- Control Box Dimensions: 18" W x 6" D x 12" H, bottom of unit to bottom to control box is 12"
- Easy access to all control functions:
 - 1) AC power outlets
 - 2) Welding controls and ports
 - 3) Air compressor controls and gauge
 - 4) Engine controls and hour meter
 - 5) Jump starting controls with quick plug connector

Installation

- Compact and clean installation
- Installation time is reduced and simplified with easy bolt-in packages (compared with separate components)


JUMP STARTING

WELDING

AIR POWER

AC POWER

CHOOSE YOUR POWER: DETERMINING YOUR OUTPUT NEEDS (SEE GUIDE ON PG. 23)

JUMP STARTING	05-100 & 05-100-6
SPEED (TIME TO START)	
STARTS (NUMBER OF STARTS)	
SPEND (AVG. COST PER UNIT)	

5100 SERIES OPTIONS & ACCESSORIES

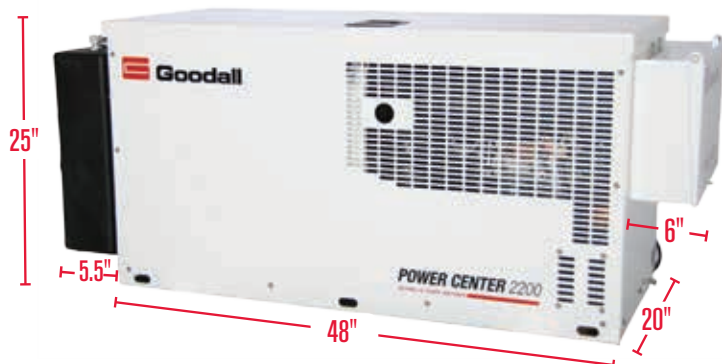
- 950-087** 6' Control Panel Harness
- 950-088** 12' Control Panel Harness
- 950-153** 18' Control Panel Harness
- 350-087** 50' Welding Cable Upgrade
- 450-044** 50' Boosting Cable Upgrade
- 550-056** 30 CFM Air Compressor Upgrade
- 61-130** 30 gal. Vertical Mount Air Tank
- 61-131** 30 gal. Horizontal Mount Air Tank
- 50-443** 12 gal. Horizontal Mount Air Tank

SPECIFICATIONS

POWER CENTER	05-100	05-100-6 (NO WELDER)
ENGINE	Electric Start, Kohler Command OHV V-Twin with Low Oil Shutdown	Electric Start, Kohler Command OHV V-Twin with Low Oil Shutdown
JUMP STARTING	12/24 volt, 700/400 amp	12/24 volt, 700/400 amp
WELDING OUTPUT	250 amp	N/A
AC OUTPUT	120/240 volt, 5000 watt, 60 Hz	120/240 volt, 8500 watt, 60 Hz
CFM @ 100 PSI	23	23
CABLES	30' 1/0 ga. Jump Starting Cables / 25' 1/0 ga. Welding Cables	30' 1/0 ga. Jump Starting Cables / 25' 1/0 ga. Welding Cables
CLAMPS	1,000 amp Full Power	1,000 amp Full Power
DIMENSIONS	38" W x 55" D x 27" H 870 lbs.	38" W x 55" D x 27" H 845 lbs.



02-200



NOT SURE HOW TO FIT MULTIPLE PIECES OF EQUIPMENT ON YOUR SERVICE VEHICLE AND HAVE ANY LOAD CARRYING CAPACITY LEFT? AIR COMPRESSOR? WELDING? AC POWER? HOW ABOUT A 3-IN-1 COMPACT WORKHORSE UNIT? GOODALL POWER CENTERS DELIVER SPACE-SAVING POWER FOR SERVICE VEHICLES TO GET YOUR REPAIR WORK DONE QUICKLY AND EFFICIENTLY.

GENERAL FEATURES

Engine (02-200 only)

- Electric start, air-cooled Kohler Command OHV V-Twin with low oil shutdown
- Includes 8 gal. EPA-certified fuel tank (removable)
- For CARB compliance contact customer service

DC Welding

- DC Stick 250 amp
- 25' 1/0 gauge welding cables included

AC Power

- 5,000 watt, 60 hz (while not welding)
- Outlets: one 120 volt, 20 amp duplex outlet; one 120 volt, 30 amp twist lock outlet; one 240 volt, 20 amp twist lock outlet

Air Power

- 2-stage 24 CFM @ 100 psi, 150 psi max.
- Air gauge on control panels monitors air tank pressure (Air tank required, sold separately. See options below.)

02-500 HYDRAULIC POWERED



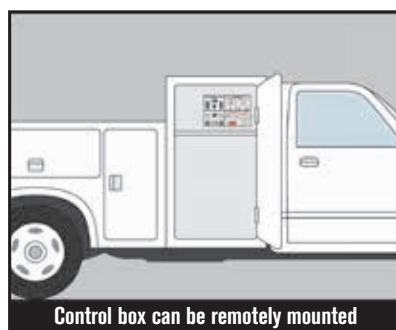
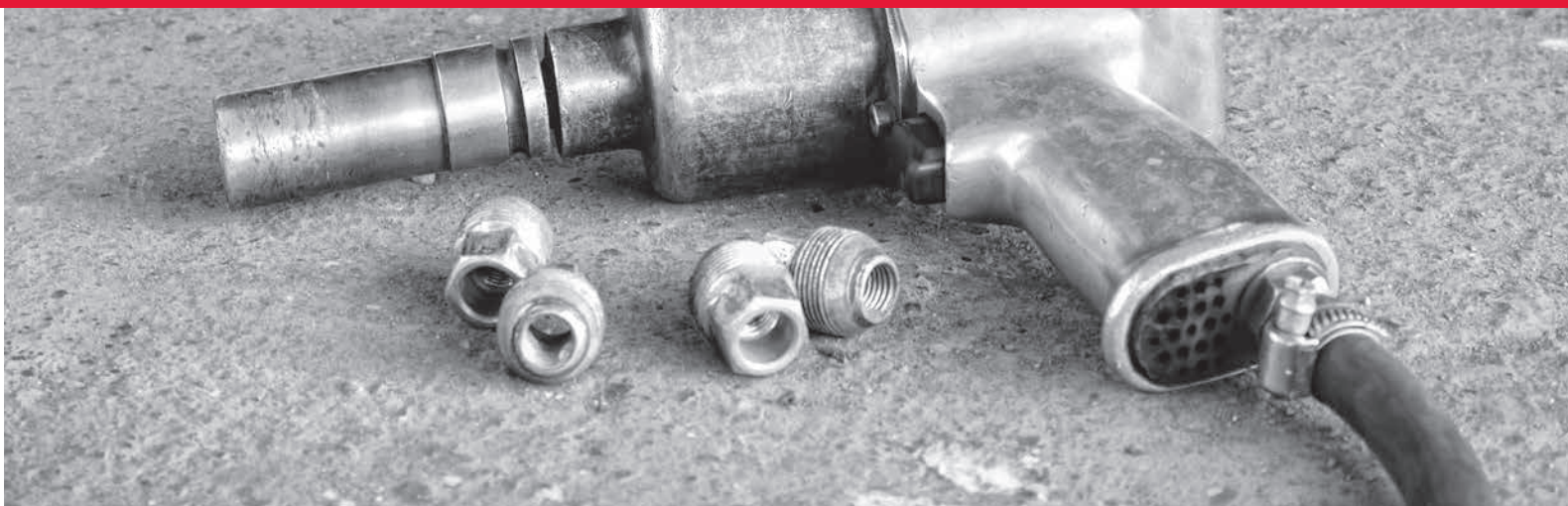
OPTIONS & ACCESSORIES

Goodall Power Center 2200:

- 950-080** 6' Control Panel Harness
950-081 12' Control Panel Harness
950-155 18' Control Panel Harness

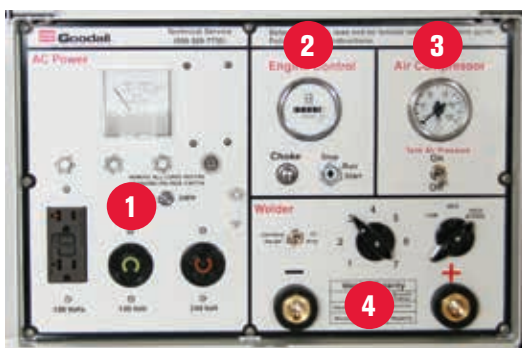
- 350-087** 50' Welding Cable Upgrade
61-130 30 gal. Vertical Mount Air Tank
61-131 30 gal. Horizontal Mount Air Tank

- 50-443** 12 gal. Horizontal Mount Air Tank
990-200 Factory-Installed Stand and 30 gal. Air Tank Kit



Installation

- Compact, easy installation in less time with simple bolt-in packages
- Center-point lift included for easy installation
- Standard remote mount control box
- GPC can be mounted on top of toolbox with the control box remotely mounted in a side compartment.



Control Panel

- Removable control box feature for easy remote mounting
- Requires extension harness for distances beyond 12"
- Control Box Dimensions: 18" W x 6" D x 12" H, bottom of unit to bottom to control box is 12"
- Easy access to all control functions:
 1. AC power outlets
 2. Engine controls and hour meter
 3. Air compressor controls and gauge
 4. Welding controls and ports

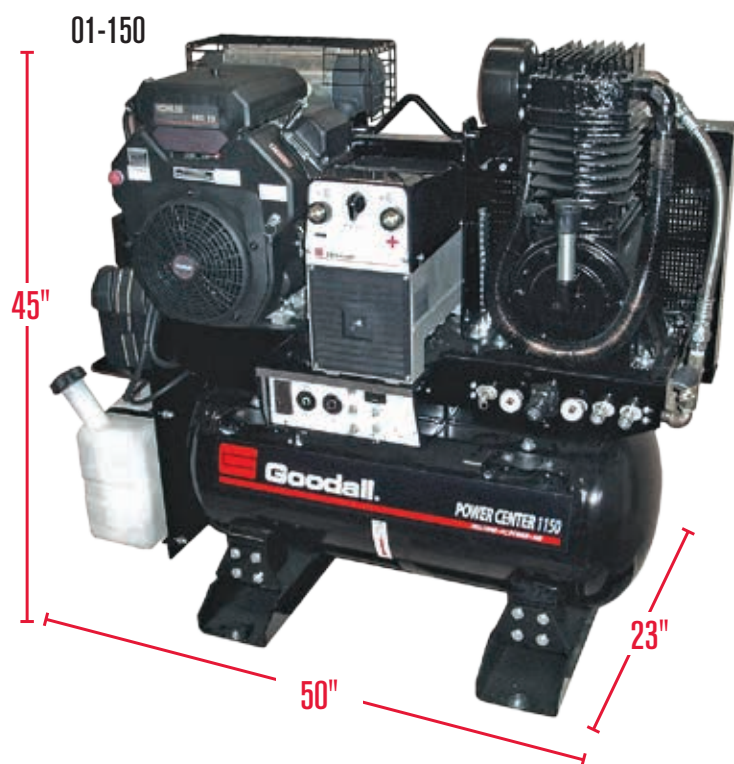
SPECIFICATIONS

POWER CENTER	02-200*	02-500**
ENGINE	Electric Start, Kohler Command OHV V-Twin with Low Oil Shutdown	HYDRAULIC - 10 GPM @ 2500 psi - 15 GPM @ 3000 psi tandem pump
WELDING OUTPUT	250 amp	250 amp
AC OUTPUT	120/240 volt, 5,000 watt, 60 hz	120/240 volt, 5,000 watt, 60 hz
CFM @ 100 PSI	24	24
CABLES	25' 1/0 ga. Welding Cables	25' 1/0 ga. Welding Cables
DIMENSIONS	20" W x 48" D x 25" H 660 lbs.	20" W x 48" D x 25" H 545 lbs.

*Equipped with auto-idle feature.

**35 gal. (minimum) hydraulic tank, requires (2) 3/4" pressure lines (minimum), 1" return hose (minimum); 12' control panel harness standard

1000 SERIES POWER CENTERS



WHEN IT COMES TO OUR 1000 SERIES POWER CENTERS, THERE ARE SEVERAL OPTIONS. BASED ON YOUR LOAD NEEDS, DECIDE HOW MUCH POWER YOU NEED, AND YOU'VE FOUND THE BEST POWER CENTER FOR YOU.



*Shown with optional remote control box.
Available on 01-150.*

GENERAL FEATURES

Engine

- Electric start, air cooled Kohler Command OHV V-Twin or Subaru OHC

AC Power

- 4,000 to 8,500 watt, 60 hz
- 110/220 volt, 60 hz

Air Power

- 2 stage from 16.3 to 29 CFM @ 100 psi, 150-175 psi max.
- 30 gallon storage tank

OPTIONAL REMOTE CONTROL BOX FOR 01-150

- 190-007** Remote Control Box Assembly 1150, 6'
- 190-007-12** Remote Control Box Assembly 1150, 12'



Easy access to all control functions:

1. AC power outlets
2. Engine controls and hour meter
3. Air compressor controls and gauge
4. Welding controls and ports



01-105



01-090



01-095



01-098



SPECIFICATIONS

POWER CENTER	01-090	01-095 / 01-095-B*	01-098
POWER SOURCE	Subaru OHC with 1.85 gal. Fuel Tank	Kohler Command OHV V-Twin with 5 gal. Fuel Tank, with Auto Idle and Low Oil Shutdownj	Air Cooled Kohler Command OHV V-Twin with 5 gal. Fuel Tank, with Auto Idle and Low Oil Shutdown
AC OUTPUT	110/220 volt, 4,000 watt, 60 hz	110/220 volt, 8,500 watt, 60 hz	110/220 volt, 8,500 watt, 60 hz
CFM @ 100 PSI	16.3	16.3	29
DIMENSIONS	49" L x 23" W x 44" H, 575 lbs.	50" L x 23" W x 45" H, 660 lbs. / 490 lbs.*	50" L x 23" W x 45" H, 665 lbs.

POWER CENTER	01-105	01-150 / 01-150-B*
POWER SOURCE	Subaru OHC with 1.85 gal. Fuel Tank, with Auto Idle	Air Cooled Kohler Command OHV V-Twin with 5 gal. Fuel Tank, with Auto Idle and Low Oil Shutdown
CABLES	Sold Separately	25' 1/0 ga. Welding Cables
WELDING OUTPUT	170 amp	250 amp
AC OUTPUT	110/220 volt, 3,500 watt, 60 hz	110/220 volt, 5,000 watt, 60 hz
CFM @ 100 PSI	16.3	29
DIMENSIONS	49" L x 23" W x 47" H, 660 lbs.	50" L x 23" W x 45" H, 710 lbs. / 600 lbs.*

*Also available as base mount without air tank. Call for specifications.



SHOP BATTERY CHARGING

GOODALL'S WHEEL-TYPE BATTERY CHARGERS ARE THE PERFECT CHOICE FOR REPAIR FACILITIES IN NEED OF A RELIABLE SHOP BATTERY CHARGER. MODELS AVAILABLE FOR AUTOMOTIVE USE, FLEETS, COMMERCIAL AND HEAVY-DUTY APPLICATIONS.

GENERAL FEATURES FOR WHEEL CHARGERS

- 2-hour timer with hold function
- Cooling fan
- Large beveled front panel for easy viewing of meters and easy access to switches



51-895 FLEET CHARGER/STARTER

6, 12 & 24 volt

Great for fleet and heavy-duty applications.

- 60/40/30 amp charge rates
- 225 amp engine start
- Ammeter and voltmeter



51-815V CHARGER/STARTER

6 & 12 volt

Ideal for small shops, cars, pickups and light-duty trucks.

- 40/2 amp charge rates
- 200 amp engine start
- Ammeter and voltmeter



51-865 CHARGER/STARTER

with Test Function 6 & 12 volt

The perfect fit for automotive and trade shops.

- 0-60 amp charge rate – infinitely adjustable
- 250 amp engine start
- Ammeter and voltmeter
- Timer or fully automatic mode



51-620 BENCHTOP BATTERY CHARGER

- 15 amp fast charge
- 2 amp slow charge
- 100 amp engine start
- Charges 6 and 12 volt batteries
- Automatic shut-off
- Green LED signals battery fully charged
- Red LED signals reverse connection



51-175 TRICKLE/MAINTENANCE CHARGER

- Switching maintenance charger
- Keeps batteries at a full charge with float mode monitoring
- 2 amp output charger and maintainer
- Automatic shut off when charged
- 4-stage charger keeps battery at full charge all the time
- LED indicate abnormal, charging, battery charged level
- Reverse Polarity Protection
- Quick connect/disconnect snap



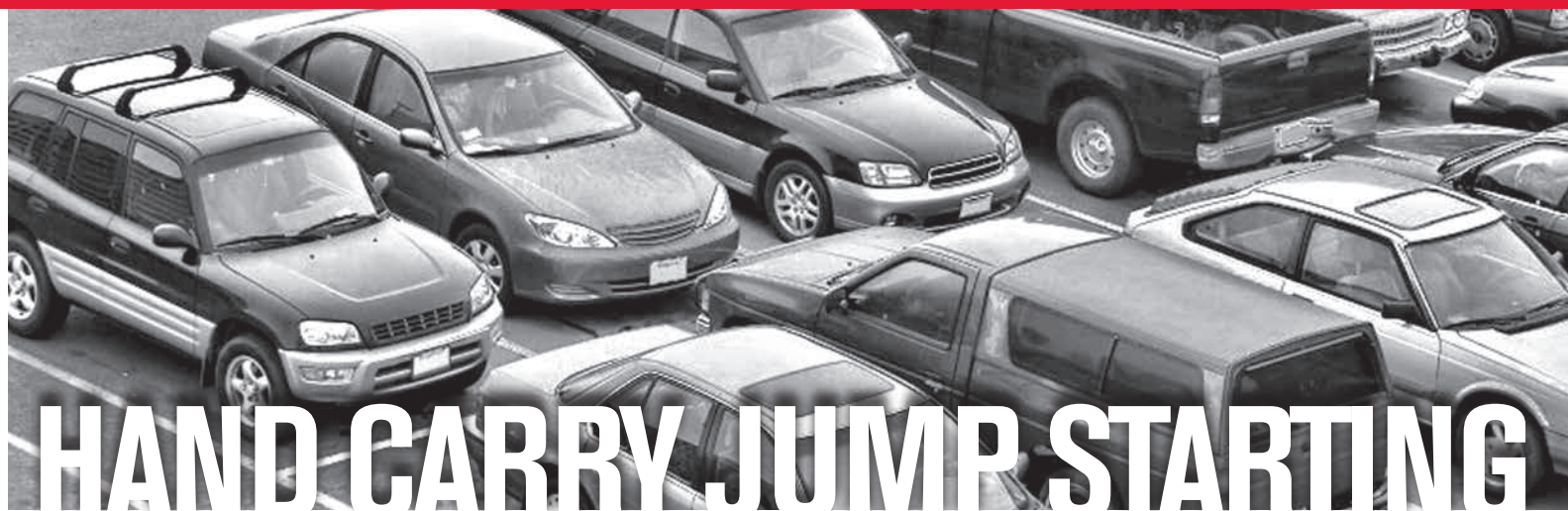
51-650 INTELLIGENT BATTERY CHARGER

- Automatic microprocessor controlled
- 20/10/2 amp charge rates
- LED status indicator
- 4-stage charge mode: pre-charge, bulk charge, absorption, float



51-178 TRICKLE/MAINTENANCE CHARGER ON BOARD

- Automatic 1.5 amp maintenance charger
- Great for warming larger automotive batteries overnight for better cold-weather starting



HAND CARRY JUMP STARTING

POWERFUL 12 VOLT AND 12/24 VOLT COMMERCIAL JUMP PACK WITH HEAVY-DUTY CLAMPS AND 100% COPPER WELDING TYPE CABLES. LONG-REACH CABLES MAKE THESE UNITS TOUGH AND EFFICIENT.



13-530 JUMP STARTER

A 12 volt commercial jump pack for cars and light-duty trucks; features an air compressor and an AC inverter.

Features:

- 2,000 peak amps
- 12 volt 20AH battery
- 6 ga. 55" 100% copper cables
- Polarity alarm
- 12 volt power outlet
- 300 watt, 120 volt inverter with 2 outlets and USB connection
- Work light and flasher
- Air compressor with gauge and adaptors
- Built-in charger



13-532 JUMP STARTER

A heavy-duty 12 volt dual battery commercial jump pack made with heavy-duty parrot clamps and 100% copper welding type cables. The 13-532 is designed to jump start any 12 volt vehicle.

Features:

- 4,000 peak amps
- Dual 12 volt 20AH batteries
- 2 ga. 62" 100% copper cables
- Polarity alarm
- 12 volt power outlet
- Work light and flasher
- Built-in charger



13-535* JUMP STARTER

A powerful 12/24 volt dual battery commercial jump pack. Exclusive voltage and polarity protection prevents the unit from engaging when connected incorrectly, either through reversed polarity or an incorrect voltage setting.

Features:

- Dual 12 volt 20AH high output
- AGM batteries
- 4,000 12 volt peak amps
- 1,800 24 volt peak amps
- Built-in charger
- 2 ga. 62" 100% copper cables
- Work light and flasher
- Digital battery voltage gauge
- 12 volt power outlet
- Unit will not operate if polarity or voltage is set incorrectly

JUMP STARTER	13-530	13-532	13-535*
DESCRIPTION	Portable Power Pack Compressor Inverter 12 volt	Heavy-Duty Commercial Portable Power Pack 12 volt	Heavy-Duty 12/24 volt Commercial Portable Power Pack 12/24 volt
VOLTAGE	12	12	12/24
CABLE GAUGE	6	2	2
CABLE LENGTH	55"	62"	62"
BATTERY CAPACITY	20 amp hr.	Dual 20 amp hr.	Dual 20 amp hr.
PEAK CURRENT	2,000 amp	4,000 amp	4,000 amp

* Goodall's 13-535 features Smart Polarity voltage protection. This is an automated system that prevents the unit from turning on when the clamps are incorrectly connected to a vehicle. An audible signal and red polarity light will warn you that unit is incorrectly connected. When the Smart Polarity light is green, it's OK to jump the vehicle.

The 13-535 features Smart Polarity voltage protection that prevents the unit from engaging when the unit is connected incorrectly, either through reversed polarity or an incorrect voltage setting. It can also be used in very low voltage situations or as a power source for 12 volt or 24 volt equipment without the polarity and voltage protection features.

12-400



START•ALL PLUG-TO-PLUG KITS

12-375

20' Standard-Duty Kit — 4 ga. with blue plug, 5' battery to plug, 15' plug to 400 amp clamps with weather cap

12-400

30' Standard-Duty Kit — 4 ga. with blue plug, 5' battery to plug, 25' plug to 400 amp clamps with weather cap

12-475

20' Heavy-Duty Kit — 2 ga. with blue plug, 5' battery to plug, 15' plug to 500 amp clamps with weather cap

12-500

30' Heavy-Duty Kit — 2 ga. with blue plug, 5' battery to plug, 25' plug to 500 amp clamps with weather cap

12-600

30' Extreme-Duty Kit — 1/0 with red plug, 5' battery to plug, 25' plug to 800 amp clamps with weather cap

12-600



12-608



START•ALL PLUG KIT WITH HEAVY-DUTY RECEPTACLE BOX

12-608

30' Heavy-Duty Stainless Steel Bumper Box Kit — **red polarity-protected plug**, weatherproof stainless steel bumper box with 5' connector cable, and 25' 1/0 ga. duplex welding cable with 800 amp clamps



Not all cable is created equal. Our cable is all copper, finely stranded and is extremely flexible to -40° F.

CABLE NUMBER	CABLE GAUGE	LENGTH FROM BATTERY TO PLUG	LENGTH FROM PLUG TO CLAMPS	OVERALL KIT LENGTH	PLUG TYPE
12-375	4	5	15	20	BLUE, STANDARD DUTY
12-400	4	5	25	30	BLUE, STANDARD DUTY
12-475	2	5	15	20	BLUE, STANDARD DUTY
12-500	2	5	25	30	BLUE, STANDARD DUTY
12-600	1/0	5	25	30	RED, HEAVY DUTY
12-608	1/0	5	25	30	RED, HEAVY DUTY

12-376



12-602

CLAMP-ENDED BOOSTER CABLE WITH PLUG

4 ga. duplex welding cable, blue plug to 400 amp clamps

12-376 15' **12-402** 25'

2 ga. duplex welding cable, blue plug to 500 amp clamps

12-476 15' **12-502** 25'

1/0 ga. duplex welding cable, red plug to 800 amp clamps

12-602 25'

12-401



12-601

BATTERY CABLE WITH PLUG AND WEATHER CAP

12-401 5' blue plug to terminal cable, 4 ga. duplex welding cable

12-501 5' blue plug to terminal cable, 2 ga. duplex welding cable

12-601 5' red plug to terminal cable, 1/0 ga. duplex welding cable

12-403



12-603

PLUG-ENDED BOOSTER CABLES

12-403 12' 4 ga. duplex cable with blue plug on each end — joins with 400 series plugs

12-503 12' 2 ga. duplex cable with blue plug on each end — joins with 500 series plugs

12-603 12' 1/0 ga. cable with red plug on each end — joins with 600 series plugs

Additional lengths available. Call for details.

12-296



STAINLESS STEEL BUMPER BOX WITH PLUG

12-296-5 5' 1/0 ga. welding cable with red plug

12-296 12' 1/0 ga. welding cable with red plug

12-297 12' 2/0 ga. welding cable with red plug

71-424S



WEATHER CAPS

71-422S 400 and 500 series connector plugs with lanyard

71-424S 600 series connector plugs with lanyard

71-401



71-402



CONNECTOR PLUGS WITH CONTACTS

71-401 400 and 500 series (blue), with 2 ga. contacts

71-402 600 series (red), with 1/0 ga. contacts

Other contact sizes available. Call for details.

810-901



NATO CONNECTOR

810-899



NATO VEHICLE RECEPTACLE

820-403 2 or 4 ga contact for 175 amp plug

820-432 1/0 contact for 175 amp plug

820-405 1/0 contact for 350 amp plug

820-431 2/0 contact for 350 amp plug

820-408 4/0 contact for 350 amp plug

INDIVIDUAL CONTACTS



12-280


12-280 START-ALL HEAVY-DUTY PLUG-SOCKET STARTER KIT

A heavy-duty version of our popular 12-200 Plug-Socket Starter Kit.

- Plug in cables and clamps feature a 25' 1/0 ga. welding cable with 800 amp clamps and non-reversible plug (item 12-284 sold separately)
- Hot Socket has a polarity-protected socket, weatherproof stainless steel socket box, 5' battery connector cable (item 12-281 sold separately)

12-200


12-200 START-ALL PLUG-SOCKET STARTER KIT

Installation of additional socket to rear of service truck adds to utility and safety in heavy-traffic situations. This is the kit to get you started (special lengths available).

- Plug in Cables and Clamps feature a 25' 4 ga. single welding cable with 400 amp clamps and non-reversible plug (item 12-202 sold separately)
- Hot Socket has a polarity-protected pocket, weatherproof socket box, 5' battery connector cable. (item 12-201 sold separately)

12-201

12-202


12-201 HOT SOCKET

Weatherproof box, polarity protected socket, copper terminals, 5' battery connector cables.

12-202 PLUG-IN CABLES/CLAMPS

25' 4 ga. duplex welding cable equipped with 400 amp clamps and non-reversible plug for Hot Socket.


71-314

71-314 METAL HOUSING

Metal housing for Hot Socket. Use 71-313 to complete housing. Baked enamel finish.

71-311S

71-313


71-311S HOT SOCKET PLUG

Complete with terminals and fittings.

71-313 HOT SOCKET RECEPTACLE

Includes weather cover and mounting hardware. Mounts in 71-314 housing.

12-302

12-301


12-301 FLEET BOOST CABLE & FENDER PANEL SOCKET

Mounts on flat panel. No box needed. 5' cable.

12-302 FLEET BOOST 12' CABLE & PLUG





14-300



INDUSTRIAL-DUTY 1/0 GA. 1,000 AMP CLAMPS

- Our heaviest duty jumper cables, flexible to -40° F
- Full powered jaws—cable runs to both sides of clamps
- All copper wire

14-300 20'

14-301 30'

14-252



HEAVY-DUTY 2 & 4 GA. 400-500 AMP CLAMPS

- Twin extruded jacket
- Cable remains flexible to -40° F
- Replaceable jaws, all copper wire

4 ga. welding cable with 400 amp vinyl coated clamps

14-254 25'

14-204 20'

14-154 15'

14-124 12'

2 ga. welding cable with 500 amp vinyl coated clamps

14-252 25'

14-202 20'

14-152 15'

4 ga. welding cable with 450 amp parrot-jaw clamps

14-253 25'

14-203 20'

14-153 15'

14-153



32-110



32-110 ANTIZAP BOOSTER CABLE UPGRADE

Add to your booster cable, protect delicate electronics. 12/24 volt heavy-duty with LED control. Fits cable up to 3/8" diameter or 2/0 ga. Protects while jump starting:

- EFI and Engine Management System
- Climate control
- Stereo and CD players
- GPS and alarms
- SRS airbags
- ABS brakes
- Instrumentation
- Both donor and dead vehicles



CABLES, CLAMPS AND PARTS

14-400



14-450



14-500



BATTERY CLAMPS

400 amp, for booster cables and chargers

14-400 1 pair **14-406** 6 pair

450 amp, heavy-duty spring, vinyl plastisol insulated grips

14-450 1 pair **14-456** 6 pair

500 amp, solid copper jaws, heavy booster cables

14-500 1 pair **14-506** 6 pair

800 amp, solid copper jaws for starting equipment

14-800 1 pair **14-806** 6 pair

14-950



EXTRA HEAVY-DUTY BATTERY CLAMPS

Cable runs to each side of clamp powering both jaws. Allows higher amperage flow. Easy to install in field with simple butt connector.

14-850 1,000 amp power jaw clamps for 1/0 ga. cable

14-900 1,200 amp power jaw clamps for 2/0 ga. cable

14-950 1,400 amp power jaw clamps for 4/0 ga. cable

14-615



REPLACEMENT JAWS



MISCELLANEOUS

14-615 Battery Clips

70-176 Replacement Jaws, 500 amp capacity, solid copper

70-177 Replacement Jaws, 800 amp capacity, solid copper

BULK WELDING CABLE



BULK WELDING CABLE BY THE FOOT

800-056 6 ga., bulk, single **70-409** 1/0 ga., bulk, single

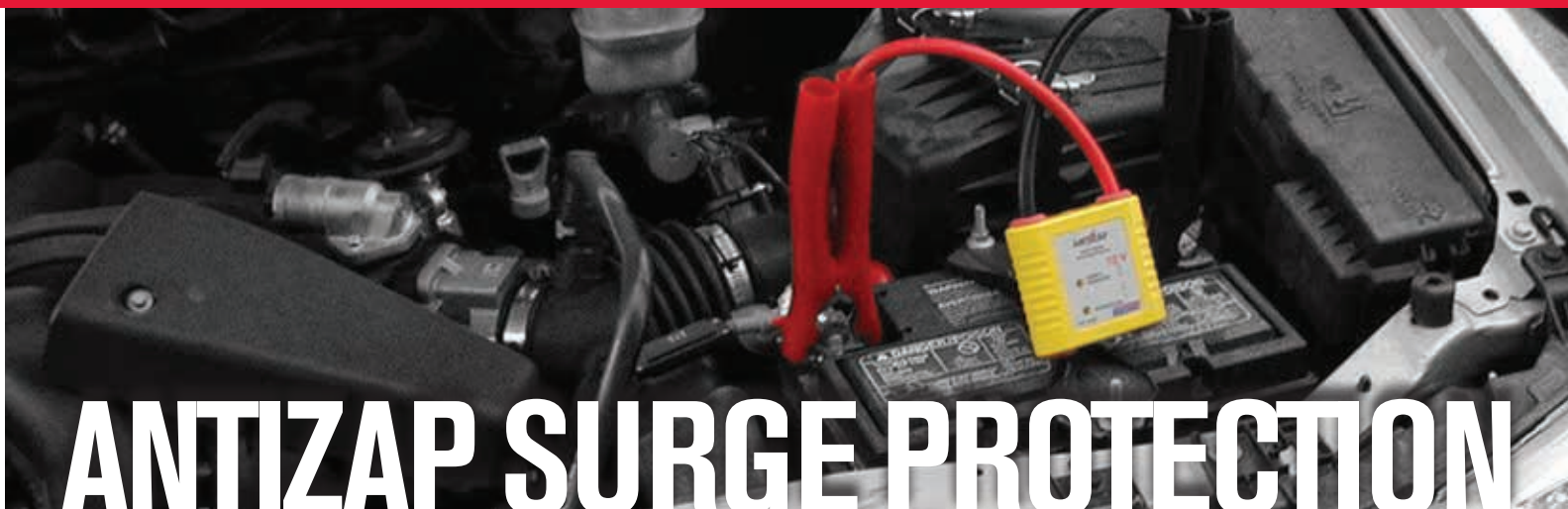
800-053 4 ga., bulk, single **70-407** 1/0 ga., bulk, duplex

70-404 4 ga., bulk, duplex **17-560** 2/0 ga., bulk, single

800-051 2 ga., bulk, single **800-052** 2/0 ga., bulk, duplex

70-403 2 ga., bulk, duplex **70-406** 4/0 ga., bulk, single





ANTIZAP SURGE PROTECTION

ANTIZAP DEVICE

Eliminates the need to disconnect the battery from the terminals while welding on a vehicle. Simply clip on the Antizap Surge Protector and you're ready to weld. Provides protection for sensitive electronics, reduces labor time, and pays for itself after one or two uses.

- Protects vehicle electronics during MIG, TIG or stick welding
- Fully insulated booster clamps with 2-function Antizap protection
- Eliminates the time needed to disconnect the battery
- Just clip the clamps across the battery and the green LED indicates complete electrical system protection
- Available in 12 volt and 24 volt models



CLAMP-ON UNIT



32-020 ANTIZAP

Clamp-on surge protection 12 volt

32-030 ANTIZAP

Clamp-on surge protection 12/24 volt

32-030-RT ANTIZAP

Permanent-mount 12/24 volt

PERMANENT-MOUNT UNIT



32-110



32-110 ANTIZAP BOOSTER CABLE UPGRADE

Add to your booster cable, protect delicate electronics. 12/24 volt heavy duty with LED control. Fits cable up to 3/8" diameter or 2/0 ga.

Protects while jump starting:

- EFI and Engine Management System
- Climate control
- Stereo and CD players
- GPS and alarms
- SRS airbags
- ABS brakes
- Instrumentation
- Both donor and dead vehicles

ENSURE YOUR VEHICLE IS CORRECTLY GROUNDED BEFORE WELDING

The Antizap Surge Protector will not protect against induced current created by incorrect welding procedures. Always follow manufacturer's instructions. Additional Antizap surge protection may be required for accessories wired into the vehicle's wiring harness between the point of weld and the battery. If in doubt, seek the advice of an electrician prior to welding. Goodall Mfg.'s warranty is limited to the replacement of a defective product. Goodall shall not be liable for any consequential or incidental damages.

GOODALL'S TWO-STAGE AIR COMPRESSORS PROVIDE A RELIABLE AIR SOURCE IN COMMERCIAL, INDUSTRIAL AND AUTOMOTIVE APPLICATIONS. MORE EFFICIENT THAN THEIR SINGLE-STAGE COUNTERPARTS, THESE MODELS COMPRESS AIR TO A HIGHER PRESSURE WHILE GENERATING LESS HEAT, REDUCING WEAR AND EXTENDING COMPRESSOR LIFE.

65-215



65-410



65-400



65-215 AIR COMPRESSOR

2-Stage Gasoline, 20 ga. tank

- Industrial Honda OHV engine
- Engine oil drain
- Manual drain valves for proper maintenance
- Quality pilot valve unloader

65-556 Electric Start Option

65-410 AIR COMPRESSOR

2-Stage Gasoline

- 30 gal. tank mounted
- Industrial Subaru OHC engine
- Electric start
- Pneumatic idle control to conserve gas

65-400 AIR COMPRESSOR

2-Stage Gasoline

- Base mounted
- Industrial Subaru OHC engine
- Electric start
- Pneumatic idle control to conserve gas

GENERAL FEATURES

Engine

- Pneumatic idle control to conserve gas

Compressor Pump

- Quality cast iron compressor
- Splash lubricated cast iron crankcase extends performance hours
- Cast iron head for heat dissipation
- Stainless steel braided discharge hose
- Large canister intake filter

Frame

- Powder coated receivers
- 3/16" base plate to reduce vibration

Components

- Regulator and two gauges for tank and outlet pressure
- Manual drain valves for proper maintenance
- Belt tightening system for constant belt alignment

MODEL	65-215	65-400	65-410
MOBILITY	Stationary	Stationary	Stationary
TANK SIZE	20 gal.	Base	30 gal.
CFM	17.2 CFM @ 175 psi	29 CFM @ 175 psi	29 CFM @ 175 psi
COMPRESSOR TYPE	2-Stage	2-Stage	2-Stage
ENGINE	270cc Honda	404cc Subaru	404cc Subaru
DIMENSIONS	37" W x 19" D x 28" H	36.5" W x 19" D x 28" H	42" W x 19" D x 45" H
NET WEIGHT	306 lbs.	215 lbs.	450 lbs.

For shipping weight, add 40 lbs.

THIS SERIES IS DESIGNED FOR MAXIMUM PERFORMANCE AND RELIABILITY. THESE UNITS HAVE BECOME THE PRESSURE WASHERS OF CHOICE FOR CONTRACTORS WHO NEED GREAT RESULTS WITH COMPLETELY MOBILE UNITS.

62-200 PRESSURE WASHER

Gasoline Direct Drive

A great hot-water pressure washer. Does not need a 12 volt battery to operate the burner. The top-fired heat exchanger is designed for easy maintenance.

Engine

- Performance proven engine with low oil protection and recoil start
- 404cc Subaru OHC
- 1.7 gal. fuel tank

Pump

- Direct drive triplex piston AR pump with ceramic plungers
- Stainless steel and brass unloader valve
- Forged brass manifold
- Thermal relief valve
- Low pressure detergent injection

Frame

- Reinforced powder coated steel tube frame with center balanced lifting hook
- Powder coated steel hose reel mounting brackets
- Wand holder
- Solid steel threaded axle
- 4 pneumatic tires with tubes for longer life
- Locking tire brake

Component

- High-quality gas filter/water separator ensures clean gas supply
- Complete system diagnostic board
- On/off burner switch
- Pressure and high-limit safety controls
- No. 1 or No. 2 diesel or kerosene fired burner
- Polyethylene burner fuel tank
- Easy coil drain helps prevent freezing in cold weather
- Energy-efficient top-fired powder coated heat exchanger designed for convenient trouble shooting and easy maintenance

Unit Includes:

- 50' x 3/8" steel wire braided pressure hose with screw connects, swivel and bend restrictors
- Professional-grade insulated trigger gun with safety lock off
- Adjustable pressure insulated dual lance with 15° fixed and detergent nozzle

Miscellaneous

- Temperature rise 150° F / 66° C above ambient, maximum outlet temperature is 200° F



62-200

62-160 PRESSURE WASHER

Gasoline Belt Drive

- 50' x 3/8" non-marking hose with quick connects, swivel and bend restrictors
- Professional-grade insulated trigger gun with safety lock-off
- 48" lance with rubber grip
- 3-year Subaru engine limited warranty, 7 year pump warranty
- Quick-connect nozzles (0°, 15°, 25°, 40°)
- 404cc Subaru OHC
- 4,000 psi, 3.4 gpm



MODEL	62-160 (BELT DRIVE)	62-200 (HOT WATER DIRECT DRIVE)
PSI	4,000	3,500
GPM	3.4	3.3
ENGINE	404cc Subaru	404cc Subaru
DIMENSIONS	39.5" x 28.5" x 26"	43" x 30" x 41"
NET WEIGHT	195 lbs.	428 lbs.
BURNER FUEL CAP.	—	5.5 gal.
BURNER FUEL CONS.	—	2.14 gph

For shipping weight, add 40 lbs.



VOLTAGE CONTROL MODULE

890-635S

Reverse Current and
Reverse Polarity
Protection



890-635S

SOLENOID

77-181S1



77-181S1

GENERATOR BRUSH SETS

Brush sets include 2 brushes per set

- 79-405** 79-375 & 79-406 Generators
- 79-405** 79-500 & 79-510 Generators
- 79-396** 79-371 & 79-373 Generators
- 70-046** 70-360 & 70-050 Generators

See page 57 for more generator parts.

COMPRESSOR CYCLING SWITCH

71-900



71-900

STARTER BUTTON

77-190S



77-190S

TENSIONER KIT

Includes
Hardware

630-001S



630-001S

CLUTCH AND HARNESS ASSEMBLY

690-001



690-001

FAN ASSEMBLY

890-999



890-999

KEY SWITCH

71-877



71-877

RESISTOR AND DIODE ASSEMBLY

77-324



77-324

RESISTOR ASSEMBLY

77-321S



77-321S

THROTTLE CONVERSION CABLE

71-942S



71-942S



71-510S



71-506S



71-520S



71-956



71-958



VOLTMETER

71-510S Voltmeter, 0-36 Volt

for 12/24 volt Start•All units: 600, 800, 900 series

71-506S Voltmeter, 0-18 Volt

for all 12 volt Start•All units: 600, 800, 900 series

AMMETER

71-520S Ammeter Color Indication

for 12 and 12/24 volt Start•All units: 600, 800, 900 series

HOUR AND AIR METERS

71-956 Hour Meter

for 12 and 12/24 volt Start•All units: 600, 800, 900 series

71-958 Air Pressure Gauge

for Start•All units with an air compressor

GENERATORS

79-500S Case Ground Generator

79-510S Isolated Ground Generator

See page 57 for generator parts.

FACTORY CERTIFIED REMANUFACTURED GENERATORS

79-375S-CR

Case Ground Generator

79-406S-CR

Isolated Ground Generator



79-375S-CR

890-079S SWITCH ASSEMBLY

Switch assembly for the following units with one voltage control module*: 11-601, 11-602, 11-605, 11-607, 11-608, 11-610, 11-612, 11-802



890-079S

890-445 SWITCH ASSEMBLY

Switch assembly for the following units with one voltage control module*: 11-618, 11-625M, 11-626M, 11-627M, 11-620, 11-622, 11-807



890-445

*For units with two voltage control modules, see page 27 for information on upgrade kits to bring your unit up to the current technology standards.



REPLACEMENT PARTS

CABLES

**70-436S**

REPLACEMENT CABLE SETS

All include Antizap Surge Protector

- 70-436S** 30' 1/0 ga. Replacement Cable Set with Terminals
- 70-441** 30' 1/0 ga. Replacement Cable Set with Red Plug
- 70-439** 50' 1/0 ga. Replacement Cable Set with Terminals
- 70-437S** 30' 2 ga. Replacement Cable Set with Terminals
- 70-438S** 50' 2 ga. Replacement Cable Set with Terminals
- 70-444** 50' 1/0 ga. Replacement Cable Set with Red Plug

CABLE COMPONENTS

- 14-850** Replacement clamps for 1/0 ga. cable sets
- 32-110** 12/24 volt heavy-duty Antizap

START•ALL UPGRADE KITS

See page 26 for more information
Kits available for most models

- 61-800** Convert a two-cable 11-700 series Start•All to a single cable, 12 volt configuration
- 61-803** Convert a two-cable 11-700 series Start•All to a single cable, 12/24 volt configuration
- 61-784** Conversion kit for 11-620
- 61-785** Conversion kit for 11-610
- 61-786** Conversion kit for 11-922

ENGINE PARTS

- 280-873** Muffler PTO for 20HP center exhaust
- 61-511** Kit for V-Twin Vanguard engine
- 890-237** Choke for remote cable assembly

ENGINE TUNE-UP KITS

- 61-511** For 18HP Vanguard (*built before 4/27/11*)
- 61-512** For 18HP Vanguard (*built after 4/27/11*)
- 280-104** For 18-20HP Kohler
- 280-105** For 23.5HP Kohler

**71-819**

BELTS

- 70-408** Long for 11-716, 11-718 and 900 series DC generators
- 70-628** Short for 11-716, 11-718 and 900 series DC generators
- 71-819** For 11-610 and 11-620

Call for additional belts.



BATTERY CHARGER PARTS

51-236	Rectifier, star shaped assembly	51-258	Volt select switch for 51-865
51-245	Timer	51-255	Ammeter
51-247	Knob timer	51-256	Ammeter for 51-865
51-248	Timer for 51-865	51-257	Ammeter for 51-895
51-250	Rotary switch	51-259	Test switch for 51-865
51-252	Volt select switch for 51-895	51-266	Volt meter for 51-895



51-245



51-266

SUPER BOOST•ALL PARTS

13-438	Replacement Battery Pack for the 13-430 <i>Includes (4) Group 31 batteries, connecting cables, and battery box</i>
13-440	Replacement Battery Pack for the 13-485 <i>Includes (4) Group 31 batteries, connecting cables, and battery box</i>
890-905	Replacement cable clamp assembly 25' 2/0 ga.
76-907	Replacement cable/clamp assembly 25' 2 ga.
890-908	Jumper cable assembly, 20' 1/0 ga.
880-057	Replacement Battery

BOOST•ALL PARTS

14-960S	Replacement double 1/0 clamps
890-374	Charger Assembly



13-438

WELDER REPLACEMENT PARTS

950-021	End connectors, male	950-023	Ground clamp
950-024	End connectors, female	350-043	25' welding cable
950-022	Stinger		

GROUND CLAMP | STINGER | END CONNECTOR





GENERATORS

GOODALL HAS UPDATED THE GENERATOR USED IN THE START • ALL PRODUCT LINE. THE NEW GENERATORS ARE A DIRECT REPLACEMENT (NO MODIFICATIONS NECESSARY) FOR ALL PREVIOUS STYLES OF GOODALL GENERATORS. THESE NEW GENERATORS ARE IDENTIFIED BY THE GROOVE CUT INTO THE FIELD FRAME, AS WELL AS A CROSS CUT ON THE ARMATURE END (SEE IMAGES BELOW). ALL INTERNAL COMPONENTS ARE INTERCHANGEABLE WITH THE PAST STYLES OF GENERATORS, EXCEPT FOR THE FIELD COILS AND ARMATURES. (GENERATOR REPLACEMENT PARTS ON OPPOSITE PAGE.)

500 SERIES GENERATORS

79-500S

Case Ground Generator



79-500S

79-510S

Isolated Ground Generator



79-510S



Close-up of groove in field frame, identifying the generator as a 500 series.

OUR REMANUFACTURED GENERATORS PROVIDE THE SAME HIGH QUALITY OF PERFORMANCE AT A FRACTION OF THE COST.

FACTORY CERTIFIED REMANUFACTURED GENERATORS

79-375S-CR

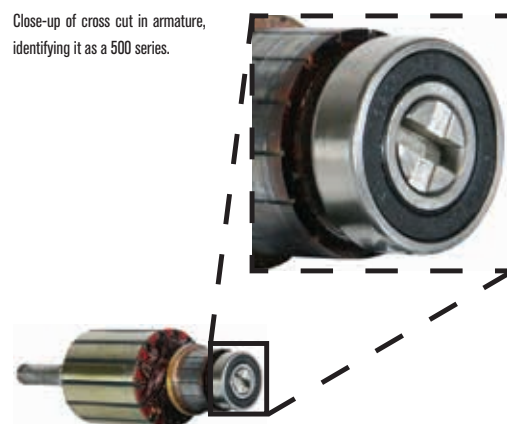
Case Ground Generator

79-406S-CR

Isolated Ground Generator



79-375S-CR



Close-up of cross cut in armature, identifying it as a 500 series.



MAINTAINED GENERATORS ARE IMPORTANT TO THE LIFE OF YOUR START•ALL. KEEP THINGS RUNNING SMOOTHLY WITH REPLACEMENTS PARTS TO KEEP YOUR GENERATORS IN TOP SHAPE.

BRUSH SETS

Brush sets include 2 brushes per set

79-405 For 79-375 and 79-406 Generators

79-405 For 79-500 and 79-510 Generators

79-396 For 79-371 and 79-373 Generators

70-046 For 70-360 and 70-050 Generators

70-046



79-405



79-396



ARMATURES

70-385 For 79-375 and 79-406 Generators

70-387 For 79-500 and 79-510 Generators



70-385

FIELD COILS

79-398 For 79-375 and 79-406 Generators

79-397 For 79-500 and 79-510 Generators



79-398

GENERATOR ENDS

For 79-375, 79-406, 79-500, and 79-510 Generators

79-395 Commutator End

70-384 Endhead Assembly



79-395



70-384

BRUSH PLATE AND HOLDERS

79-392 For All Model Generators



79-392

GENERATOR PULLEY

70-041 For All Model Generators



70-041



18-140 DELUXE INDUSTRIAL FIRST AID KIT

This 106-piece first aid kit is ideal for contractors, fleet vehicles, work sites or small companies with up to 25 employees. It meets federal OSHA recommendations and carries 17 critical products including a 4 oz. eye wash. The strong metal case is wall mountable, yet has a handle for easy carrying. Dimensions: 10.5" x 7.5" X 2.5"



- (50) .75" x 3" Adhesive plastic bandages
- (3) 1.75" x 3" Large fingertip fabric bandages
- (2) 1.5" x 3" Knuckle fabric bandages
- (6) 2" x 2" Gauze dressing pads, (3) 2-pks.
- (1) 5" x 9" Trauma pad
- (1) 2" Conforming gauze roll bandage
- (1) 36" Triangular sling/bandage with 2 safety pins
- (12) Aspirin tablets, (6) 2-pks.
- (12) Antiseptic cleansing wipes (sting free)
- (6) Triple antibiotic ointment packs
- (3) Insect sting relief pads
- (1) .5" x 5 yd. First aid tape roll
- (1) 4" x 5" Instant cold compress
- (1) Sterile eye pad
- (1) Eye wash, 4 oz.
- (2) Exam quality vinyl gloves, 1 pair
- (1) 4.5" Scissors, nickel plated
- (1) 4" Tweezers, plastic
- (1) First aid guide

18-100 DELUXE TRAVEL FIRST AID KIT

This 62-piece first aid kit is ideal for contractors, vehicles or small companies with fewer than 10 employees. It meets federal OSHA requirements 1910.151b (state requirements may vary). Sturdy and convenient, the 10-unit plastic case contains the first aid essentials to prepare you for work-related accidents. The partitioned, water-resistant plastic case is wall mountable, yet has a handle for easy carrying.

Dimensions: 7.69" x 4.56" x 2.38"

18-120 DELUXE AUTO FIRST AID KIT

This 93-piece vehicle kit is designed for fleet and commercial vehicles. Its metal case with gasket holds quality brand products that are easily accessible in an emergency. This kit meets federal OSHA recommendations and offers easy refilling with the help of a full-color re-ordering schematic.

Dimensions: 6.31" x 9.06" x 2.375"

18-130 DELUXE MOBILE FIRST AID KIT

This 106-piece first aid kit is ideal for contractors, fleet vehicles, work sites or small companies with up to 25 employees. It exceeds federal OSHA requirements 1910.151b (state requirements may vary). The sturdy and convenient plastic case contains the first aid essentials to prepare you for work-related accidents.

Dimensions: 9.06" x 6.31" x 2.38"

LIMITED WARRANTY

Goodall products are warranted to the original purchaser against failure due to defective material and/or workmanship for a minimum period of one year from the date of purchase, except for:

- Items that are warranted solely by the manufacturer, such as gasoline engines, hydraulic motors, flow control valves and air compressors.
- All batteries and power cells, which are warranted for 90 days.

This warranty does not cover any product worn out or altered, used for a purpose other than for which it is intended or used in a manner inconsistent with any instruction regarding its use.

The exclusive remedy for any product found to be defective under this warranty is limited to the repair, or replacement of the defective product without charge, and Goodall shall not be liable for any consequential or incidental damages, including labor charges. In order to qualify for this warranty, all returns must receive prior authorization from the factory and be returned directly to the Goodall factory (or authorized service center) freight prepaid. Goodall will make final determination of defects. No agent, employee or representative of Goodall has any authority to bind to any affirmation, representation or warranty concerning Goodall products, except as stated herein.

PRODUCT WARRANTY

Start•All®

Briggs & Stratton® Engine	3 year
Kohler® Engine	3 year
Subaru® Engine	3 year
Jump Starting	1 year
AC Generator	1 year
Air Compressor	1 year

Goodall® Power Center

Kohler® Engine	3 year
Subaru® Engine	3 year
Generator/Welder	1 year
Air Compressor	1 year
Jump Starting	1 year

Battery Powered Jump Starters

CapStart®	1 year
Power Cells	90 day
Boost•All®	1 year
Super Boost•All®	1 year
Batteries	90 day

Air Compressors

Air Compressor Pumps	2 year
Subaru® Engines	3 year
Honda® Engines	3 year

Pressure Washers

Subaru® Engine	3 year
Pump	1 year

Cable Product

Antizap	1 year
---------	--------

Battery Chargers

	1 year
--	--------

800-328-7730
www.GoodallMfg.com

