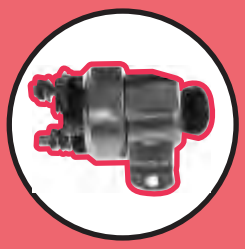
excel

Power Products Handbook



PART 9
Electrical

Universal solenoids, Key Switches & Accessories

PART 9 ELECTRICAL

CONTENTS

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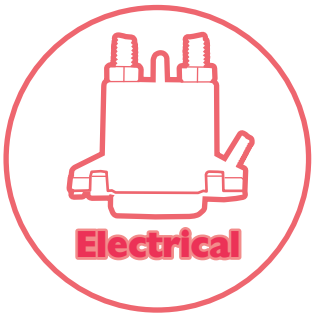


Universal Mount Solenoids

SND 151 24v

24V Rubber Push Button Solenoid

4 terminals

SND 152 12v

12V Rubber Push Button Solenoid

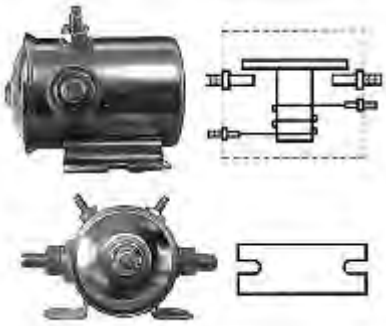
4 terminals

SND 161 12v

12V Solenoid

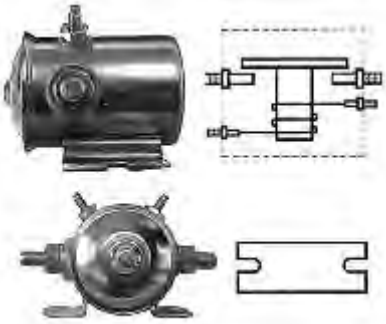
4 terminals
Std Duty

SND 12000 12v



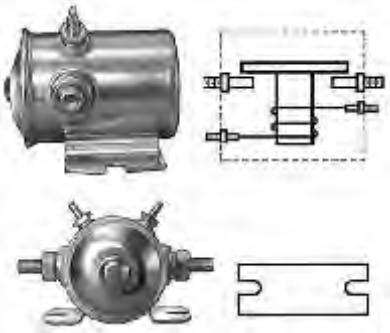
12V Solenoid
Insulated return
4 terminals

SND 12001 12v



12V Solenoid
Insulated return
80 Amp. Continuous.
150 Amp. / 5 sec.
4 terminals

SND 12002 24v

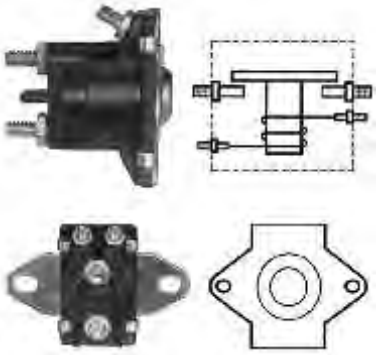


24V Solenoid
Insulated return
60 Amp. Continuous.
100 Amp. / 5 sec.
4 terminals

SND 22705 12v

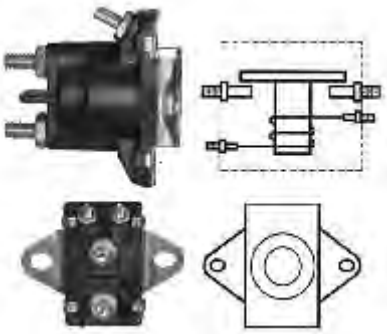
12V Solenoid
Suits Mercury
Insulated return
4 terminals
W/ epoxy

SND 80054 12v



12V Solenoid
Suits Mercruiser
Insulated return
4 terminals

SND 80058 12v



12V Solenoid
Suits Mercruiser
Insulated return
4 terminals

Universal Mount Solenoids

SND 80059 12v

12V Solenoid
Suits Lawn, Garden and small engines
4 terminals
80 Amp. Capacity
Studs 1/4" - 20

SND 80060 12v

12V Solenoid
Suits Lawn, Garden and small engines
3 terminals
80 Amp. Capacity
Studs 5/6" - 24

SND 80268 12v

12V Solenoid
Suits OMC, Mercury
3 terminals
100 Amp. continuous
800 Amp. in rush
3.95 - 4.15 coil resistance

SND 80275 12v

12V Solenoid
Suits Mercury
Insulated return
4 terminals
100 Amp. continuous
800 Amp. in rush
3.95 - 4.15 coil resistance

SND 80340 12v

12V Solenoid
Insulated return
4 terminals

SND 80394 12v

12V Solenoid
Suits OMC
4 terminals
100 Amp. continuous
800 Amp. in rush
3.95 - 4.15 coil resistance

SND 130492 24v

24V Solenoid
50 Amp. continuous.
500 Amp. / 5 sec
3 Terminals

SND 130493 12v

12V Solenoid
Insulated
4 Terminals

Universal Mount Solenoids

SND 130503 6v

6V Solenoid
Insulated base
3 Terminals

SND 131080 12v

12V Solenoid
50 Amp. Continuous.
500 Amp. / 5 sec.
3 Terminals

SND 131253 12v

12V Solenoid
Insulated return
60 Amp. continuous. 500 Amp. / 5 sec.
4 Terminals

SND 131254 24v

24V Solenoid
Insulated return
50 Amp. Continuous.
500 Amp. / 5 sec
4 Terminals

SND 131370 12v

12V Solenoid
Insulated return
80 Amp. Continuous.
500 Amp. / 5 sec
4 Terminals
Waterproof, silver contacts

SND 131372 24v

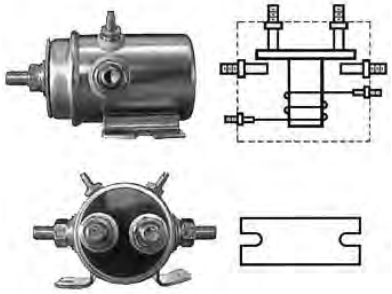
24V Solenoid
Insulated return
150 Amp. Continuous.
800 Amp. / 5 sec
4 Terminals
Silver contacts

SND 131373 12v

12V Solenoid
Insulated return
150 Amp. Continuous.
800 Amp. / 5 sec
4 Terminals
Silver contacts

SND 133616 12v

DUAL CIRCUIT

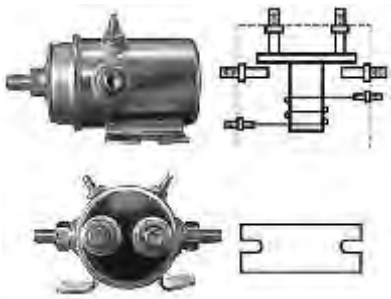


12V Solenoid
Insulated return
Normal open 80 Amp. Continuous.
150 Amp. / 5 sec.
Normal closed 60 Amp. Continuous.
60 Amp. /5 sec.
6 terminals

Universal Mount Solenoids

SND 133617 24v

DUAL CIRCUIT



24V Solenoid
Insulated return
Normal open 50 Amp. Continuous.
50 Amp. / 5 sec.
Normal closed 30 Amp. Continuous.
30 Amp. /5 sec.
6 terminals

SND 139859 12v

12V Solenoid
Suits OMC
Insulated return
4 terminals
W/ epoxy

SND 234070 12v

12V Solenoid
3 terminals
80 Amp. Capacity
1/4" studs

SND 234071 12v

12V Solenoid
3 terminals
80 Amp. Capacity
5/16" studs

SND 234072 12v

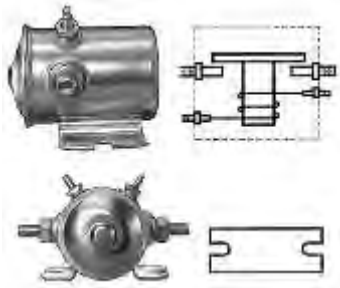
12V Solenoid
4 terminals
5/16" studs
Insulated return
80 Amp. Capacity

SND 234073 12v

12V Solenoid
3 terminals
1/4" studs

80 Amp. Capacity

SND 776012 36v



36V Solenoid

SND 250143 24v

24V Solenoid
Insulated return
80 Amp. Continuous.
500 Amp. / 5 sec
4 Terminals

SND 230964 24v

24V Solenoid
Insulated return
4 Terminals
200 Amp. Continuous.
800 Amp. / 55 sec

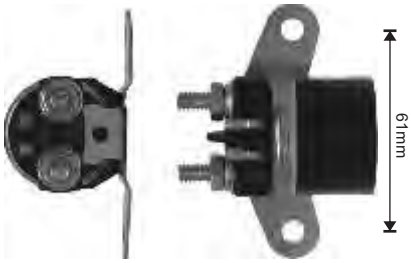
Universal Mount Solenoids

SND 80061

12V Solenoid

Suits M/C, ATV & PWS engines

SND 80062



12V Solenoid

Suits M/C, ATV & PWS engines

SND 80063

12V Solenoid

Suits M/C, ATV & PWS engines

SND 133711

12V Solenoid

Suits Small engines
on outdoor power equipment

SND 234860 12v

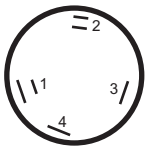
12V Solenoid
Mounts in rubber saddle
Suits Motorcycles, Quads,
Trikes, Jetskis

Universal Key Switches

IGS 1901

Tractor Ignition Switch
Suits Ford
16mmØ shank
Functions Off, Ignition, Glow, Start

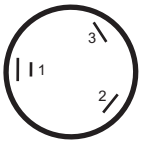
Connections
1. Battery
2. Ignition
3. Glow
4. Start



IGS 1902

Tractor Ignition Switch
Suits MF
16mmØ shank
Functions Glow, Off, Start

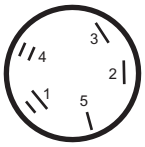
Connections
1. Battery
2. Start
3. Glow



IGS 1903

Tractor Ignition Switch
Suits Tractors
19mmØ shank
Functions Off, Acc, Ignition, Glow, Start

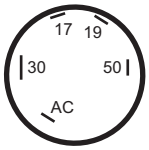
Connections
1. Battery
2. Acc
3. Glow
4. Ignition
5. Start



IGS 1904

Tractor Ignition Switch
Suits New Holland
16mmØ shank
Functions Glow, Off, Ignition, Glow, Start

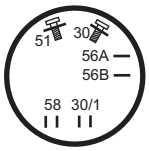
Connections
30. Battery
AC. Ignition
19. Glow
17. –
50. Start



IGS 1010

Tractor Ignition Switch
Suits Fiat
22mmØ shank
Functions Parks, Off, Ignition, Parks, Low, High

Connections
30. Battery
51. Ignition
30/1. Battery
58. Park light
56B. Low Beam
56. High Beam



IGS 1011

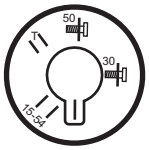
Tractor Ignition Switch
Suits Fiat
22mmØ shank
Functions Acc, Off, Ignition, Start

Connections
30. Battery
51/54. Ignition
57. Glow
57/58. –
50. Start

IGS 1012

Tractor Ignition Switch
Suits Fiat
26mmØ shank
Functions Glow, Off, Start

Connections
30. Battery
50. Start



IGS 1176

Tractor Ignition Switch
Suits John Deere
14mmØ shank
Functions Glow, Off, Start

IGS 10272

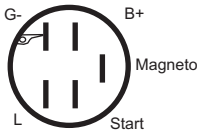
Plastic Ignition Starter Switch
w/ Rubber Boot Seal
3 Position, 5 Terminal
w/ Magneto Stop Connection.

Universal Key Switches

IGS 22538

Magneto Ignition switch
Suits Ride-on lawnmowers etc.
Shank 16mmØ
5 terminals

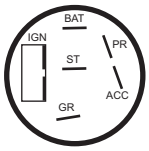
Connections
G. Ground-
B. Battery
M. Magneto
S. Start
L. Ignition / Lights



IGS 22539

Commercial HD Ignition Starter Switch
w/ Anti re-start feature
25mmØ Shank
Functions Off, Ignition, Start

Connections
BAT. Battery
IGN. Ignition
ACC. Accessory
PR. Joins to GR on start mode
GR. Ground -
ST. Start



IGS 22540

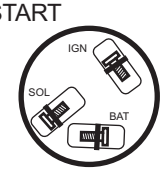
Commercial HD Ignition Starter Switch
w/ Anti re-start feature
25mmØ Shank
Functions Off, Ignition, Start

Connections
BAT. Battery
ACC. Accessory
IGN. Ignition
ST. Start

IGS 22541

Brass Ignition Starter Switch
w/ Rubber Boot Seal
mounts through 16mm hole
15 Amp 3 position
OFF - IGNITION - START

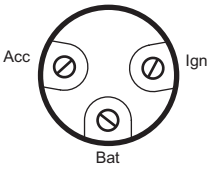
Connections
BAT. Battery
IGN. Ignition
SOL. Start



IGS 22544

Ignition Switch
19mmØ Shank
Functions On, Off, On

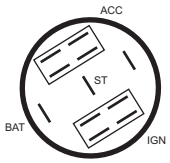
Connections
Bat. Battery
Acc. Accessory
Ign. Ignition



IGS 22545

Commercial HD Ignition Starter Switch
25mmØ Shank
Functions Acc, Off, Ignition, Start

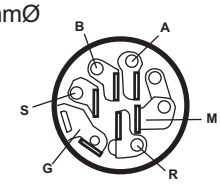
Connections
BAT. Battery
ACC. Accessory
IGN. Ignition
ST. Start



IGS 22546

Magneto Ignition switch
Suits Magneto Ignition Systems
- 6 terminals
- Sealed
- **Shank** = 20mmØ

Connections
G. Ground -
B. Battery
M. Magneto
R. Ignition
A. Lights
S. Start



IGS 22548

Universal Magneto Ignition Switch

Connections
Red. Battery
Black. Ground
Black/Yellow. Magneto
Yellow/Black. Electric choke
Yellow/Red. Start
Purple. Ignition

IGS 22549

Magneto Ignition switch
Suits Briggs & Stratton, MTD
- 3 position
- 6 Terminals
- 16mm mounting shank

Universal Key Switches

IGS 22550

Magneto Ignition switch
Suits MTD, Viking
- 4 position
- 7 Terminals
- includes lighting circuit
- 16mm mounting shank

IGS 22551

Magneto Ignition switch
Suits Briggs & Stratton, Toro
- 3 position
- 6 Terminals

IGS 22552

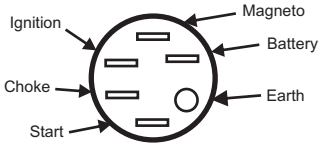
Magneto Ignition switch
Suits Gravely, John Deere
- 3 position
- 5 Terminals
- 14mm mounting shank

IGS 22553

Magneto Ignition switch
Suits Kohler, Toro
- 3 position
- 6 Terminals

IGS 83105

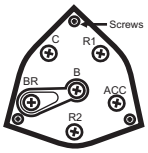
Ignition Starter Switch
4 positions, 6 Terminals. With electric choke and magneto positions
Suits most outboard powered boats
Max panel thickness = 16mm



IGS 108008

Ignition Switch
Suits Isuzu
20mmØ Shank
Functions
Ignition, Glow Switch

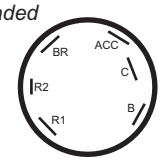
Connections
B. Battery
R1. Glow
R2. Glow
Acc. Ignition
C. Start



IGS 108013

Ignition Switch
Suits Fiat
20mmØ Shank
Functions
ACC, OFF, Ignition, Start
All terminals are threaded

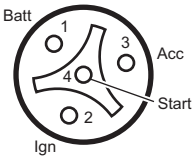
Connections
B. Battery
BR. Ignition
Acc. Acc
R1. Glow
R2. Glow
C. Start



IGS 108016

Universal Ignition Switch
19mmØ shank
4 stud connections
Functions Acc, Off, Ignition, Start

Connections
1. Battery
2. Ignition
3. Accessory
4. Start

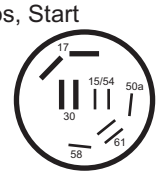


IGS 108120

Universal Key Switches

IGS 180044

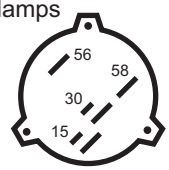
Tractor Ignition Switch
Suits Deutz, Fendt, Case
26mmØ Shank
Functions
Ignition, Headlamps, Start
Connections
30. Battery
58. Acc
15/54. Ignition
17. Start
19. Glow
50a. –



IGS 180045

Tractor Ignition Switch
Suits John Deere
26mmØ Shank
Functions
Off, Ignition, Headlamps

Connections
30. Battery
56. Headlamp
58. Parklamps
I5. Ignition

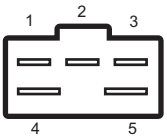


Regulator / Rectifier Assemblies

RTF 20000

3 Phase Regulator/Rectifier Assembly
Suits Honda etc.
12v System 14.75v 5 Terminal
Unique Heatsink Design

1 AC
2 AC
3 AC
4 Battery +
5 Battery -



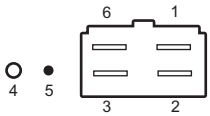
RTF 20001

3 Phase Regulator/Rectifier Assembly
Suits Kawasaki, Suzuki, Yamaha
Ceramic Hybrid Construction
12v System
5 Wire

RTF 20002

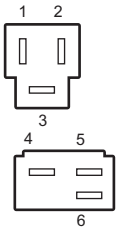
Regulator / Rectifier
3 Phase

1-3 White - AC
4 Red - Battery +
5 Brown - Sensor
6 Black - Earth



RTF 20003

3 Phase Regulator/Rectifier Assembly
Suits Honda



1 AC
2 AC
3 AC
4 Sensor
5 Battery +
6 Battery -

RTF 20004

3 Phase Regulator/Rectifier Assembly
Suits Polaris etc

Yellow	-	AC
Yellow / Red	-	AC
Yellow / Brown	-	AC
Red	-	Battery +
Brown	-	Battery -

RTF 135630

3 Wire Rectifier

Suits OMC outboards
Replacing 580841, 582307, 582399
25 Amp. Diodes
2 phase
1 power

RTF 135631

4 Wire Rectifier

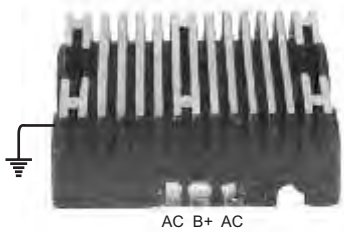
Suits OMC outboards
Replacing 581771
25 Amp. Diodes
3 phase
1 power

RTF 135632

Rectifier

Suits Mercury outboards
Replacing 62351A1, -A2
25 Amp. Diodes

RTF 138895



Regulator / Rectifier
For Permanent magnetic system
14.5V 20A Max
Suits John Deere w/ Kohler engines
Small engines etc.
Universal Application
Replacing 610749
3 terminals STA- B+ -STA

Regulator / Rectifier Assemblies

RTF 230149

Regulator/Rectifier
12V
Suits Briggs & Stratton
8-20 HP Eng.
W/ 10-16 Amp. Charging systems
Volt setting 14.4v
Replacing 393374, 394890

RTF 230150

Regulator / Rectifier
12V
Suits Kohler
10 to 18 HP Eng.
W/ 15 Amp. charging systems.
Replacing 237335
Terminals B+ -AC -AC
Volt Setting 14.4v.

RTF 230151

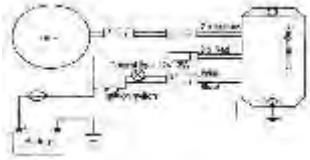
Regulator / Rectifier
12V
Suits Kohler
Replacing 25-755-03
Terminals AC- B+ -AC
Volt Setting 14.4v.

RTF 230152

Regulator / Rectifier
12V
Suits Onan
16 to 20 HP Eng.
Replacing 191-1748, -2106

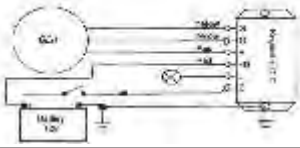
RTF 231212

Regulator / Rectifier
12V 25A
Suits Hatz
Replacing 343638, 434363800
Terminals: G - G - B+ - B+ - L - C



RTF 231469

Regulator / Rectifier
12V 22A
Suits Ducati
Replacing 343520, 434352000
Terminals: G - G - R - B+ - L - C
Connector = EC231450



RTF 233976

Volt setting 14.4V

12V Regulator / Rectifier

Suits Mercury marine
5-wire
Terminals
Tach. (Grey), AC (yellow),
B+ (red male), B- (black),
AC (yellow)

RTF 233977

Volt setting 14.4V

12V Regulator / Rectifier

Suits Mercury marine
6-wire
Terminals
Tach. (Grey), AC (yellow),
Sense (red female),
B+ (red male), B- (black),
AC (yellow)

RTF 234090

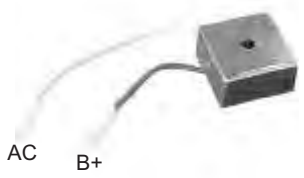
Chrome Regulator / Rectifier Assembly
Suits Harley Davidson 1997 →
Replacing 74505-97
Ceramic Hybrid Construction
12V System
Volt Setting 14.4V.

Regulator / Rectifier Assemblies

RTF 234167

Regulator / Rectifier
12V
Suits 16 Amp. Dual output charging systems 8 HP to 20 HP engines.
Replacing 493219
Accommodates no-charge lamp.
Volt Setting 14.4v.

RTF 234170

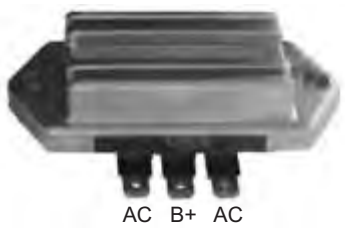


Regulator / Rectifier
12V
Suits Single Phase systems 9 Amp. charging system.
Replacing 491546, 691188
Volt Setting 14.4v.

RTF 234171

Regulator / Rectifier
12V
Suits 8 Amp. quad-circuit charging systems.
Replacing 397809, 691185
Ceramic hybrid construction
Volt Setting 14.4v.

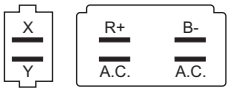
RTF 234251



Regulator / Rectifier
12V
Suits Kohler powered commercial mowers w/rope-start and electric clutch
Replacing M131287, 12-403-01
Volt Setting 14.4v.

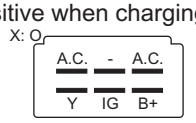
RTF 234250

Regulator / Rectifier
12V
Suits Kawasaki engines
Powered commercial mowers w/rope-start and electric clutch
Shunt type
Replacing 21066-2071, SH637-12
Capacitor = X:Orange, Y:Black



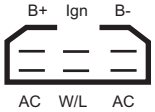
RTF 234303

Regulator / Rectifier
12V
Suits Compact Tractors and industrial equipment w/permanent magnet alternators
Replacing RS5121
X: Negative when charging
Y: Positive when charging



RTF 234407

Regulator / Rectifier
12V
Suits Kubota, Walkermower, John Deere 425, F911, 445, Kawasaki 20, 22HP water cooled V-twins
20 Amp. Charging systems with warning light circuit.
Replacing M131287, 12-403-01
6 Terminals



RTF 234408

Regulator / Rectifier
12V
Suits John Deere
Models 322, 330, 332, 670, 770, 870, 970, 1070, F915
Replacing AM101406
Terminals B+, AC, AC, L, IG

RTF 234409

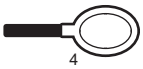
Regulator / Rectifier
12V
Suits Kubota Compact Tractors w/ permanent magnetic alternator
Replacing 6661-55250, 67211-55230
w/o "No Charge" Indicator Light
Terminals (Black), B+ (Red), AC (Blue), AC (Blue)

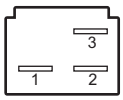
Regulator / Rectifier Assemblies

RTF 234410

Regulator / Rectifier
12V
2 Phase

1 Red -
2 Blue - AC
3 Blue - AC
4 Black - Earth

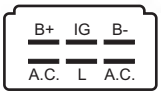




RTF 234411

Regulator / Rectifier
12V
Suits Kubota Grasshopper model 1822D, 718D, 721D, 721G
Replacing 15531-64601, RS5101, -5155
Terminals AC (Blue), B- (Black), AC (Blue), L (Green), IG (Yellow), B+ (Red)

RTF 234412



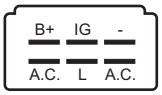
Regulator / Rectifier
12V 20A charging systems
Suits John Deere Gator 4x2 & 4x6, 2243 Diesel golf equipment, 3375 skid steer, 595 Garden tractor
Replacing M97348, RS5160
Terminals B+ (Red), IG (Yellow) B- (Black), AC (Orange), L (Brown) AC (Orange)

RTF 234413

Regulator / Rectifier
12V
Suits John Deere Compact tractor model 650, 750
Replacing M802471, RS5102, -5104
Terminals AC (Blue), - (Black), AC (Blue), L (Green), IG (Yellow), B+ (Red)

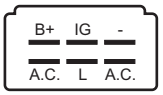
RTF 234417

Regulator / Rectifier
12V
Suits Honda Lawn Tractor
Replacing 31600 890 951



RTF 234418

Regulator / Rectifier
12V
13,15,17 Amp charging system
Suits Kawasaki, John Deere.
Replacing 21066, M70121



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