TROUBLESHOOTING

SYSTEMS CHECK

Most complaints concerning engine operation can be classified as one or a combination of the following:

- Will not start
- Hard starting
- Lack of power
- Runs rough
- Vibration
- Overheating
- High oil consumption

The source of most of these symptoms can be determined by performing a systems check in the following order:

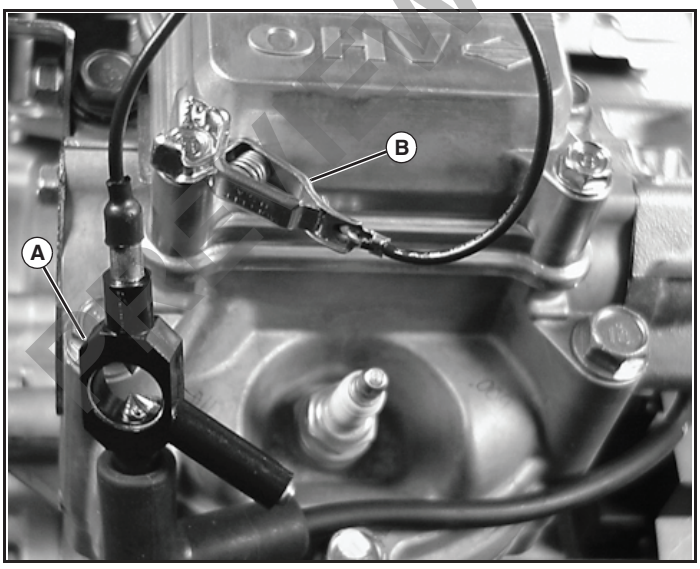
1. Ignition
2. Carburetion
3. Compression

This check-up can usually be done in a matter of minutes. It is the quickest and surest method of determining the cause of failure.

Note: What appears to be an engine malfunction may be a fault of the powered equipment rather than the engine. If the equipment is suspect, see"EQUIPMENT AFFECTING ENGINE OPERATION" on page 35.

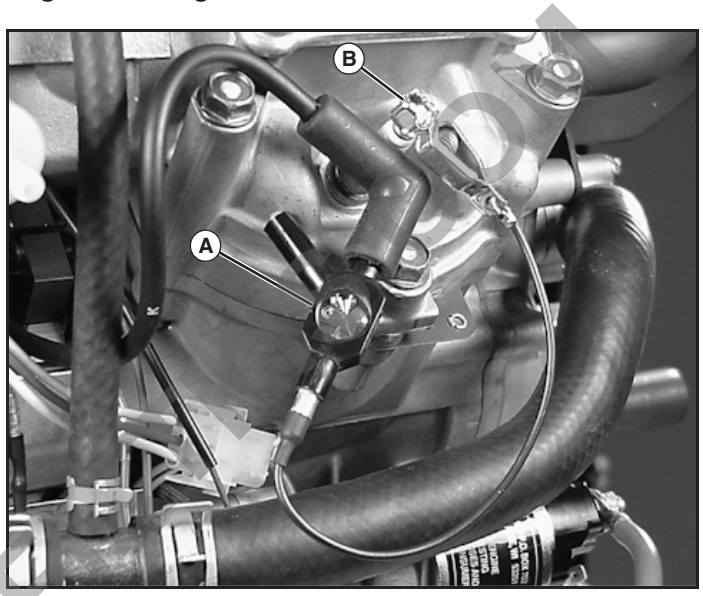
CHECK IGNITION

Engine Stopped



With spark plug installed, attach Ignition Tester #19368 (A) to spark plug lead and ground the other end of the tester (B). Pull the starter rope or activate the electric starter (if equipped). If spark jumps the tester gap, you may assume the ignition system is functioning satisfactorily.

Engine Running



If engine runs but misses during operation, a quick check to determine whether the ignition is at fault can be made by installing Ignition Tester #19368 (A) between the spark plug lead and spark plug (B). If spark is good but engine misses, install a new spark plug.

If spark does not occur, look for:

- Shorted equipment or engine stop switch wire
- Incorrect armature air gap
- Armature failure

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OPERATOR CONTROLS



Model 1330SE Shown

A- Chute Deflector Switch (Models 1330SE and 1332PE)
B- Heated Grip Switch
C- Chute Rotation Switch

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COMPONENT LOCATION

ELECTRICAL COMPONENTS - 827E



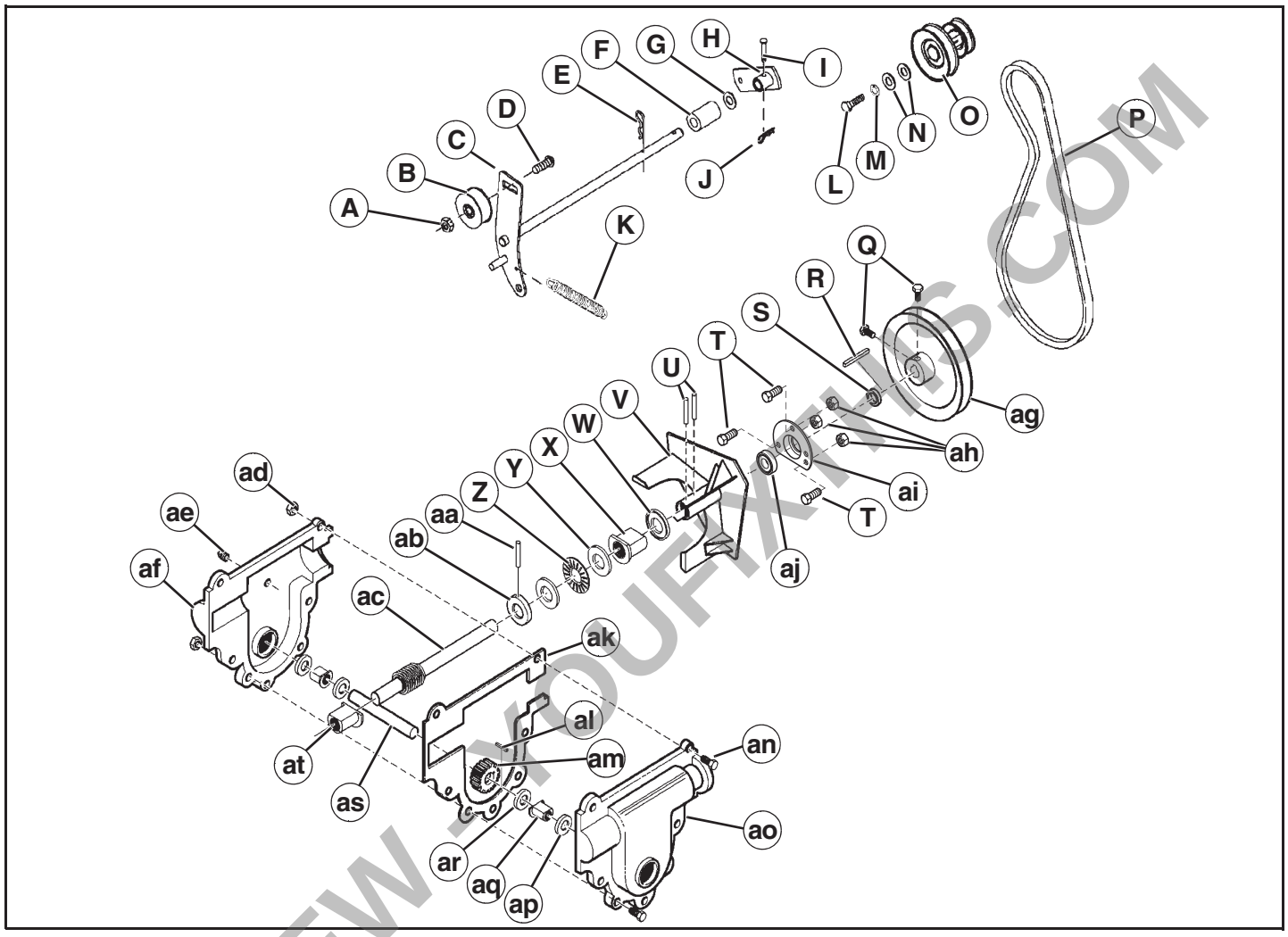
A- Electric Start
B- Right Headlight
C- Left Headlight

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COMPONENT LOCATION

AUGER DRIVE - 726E

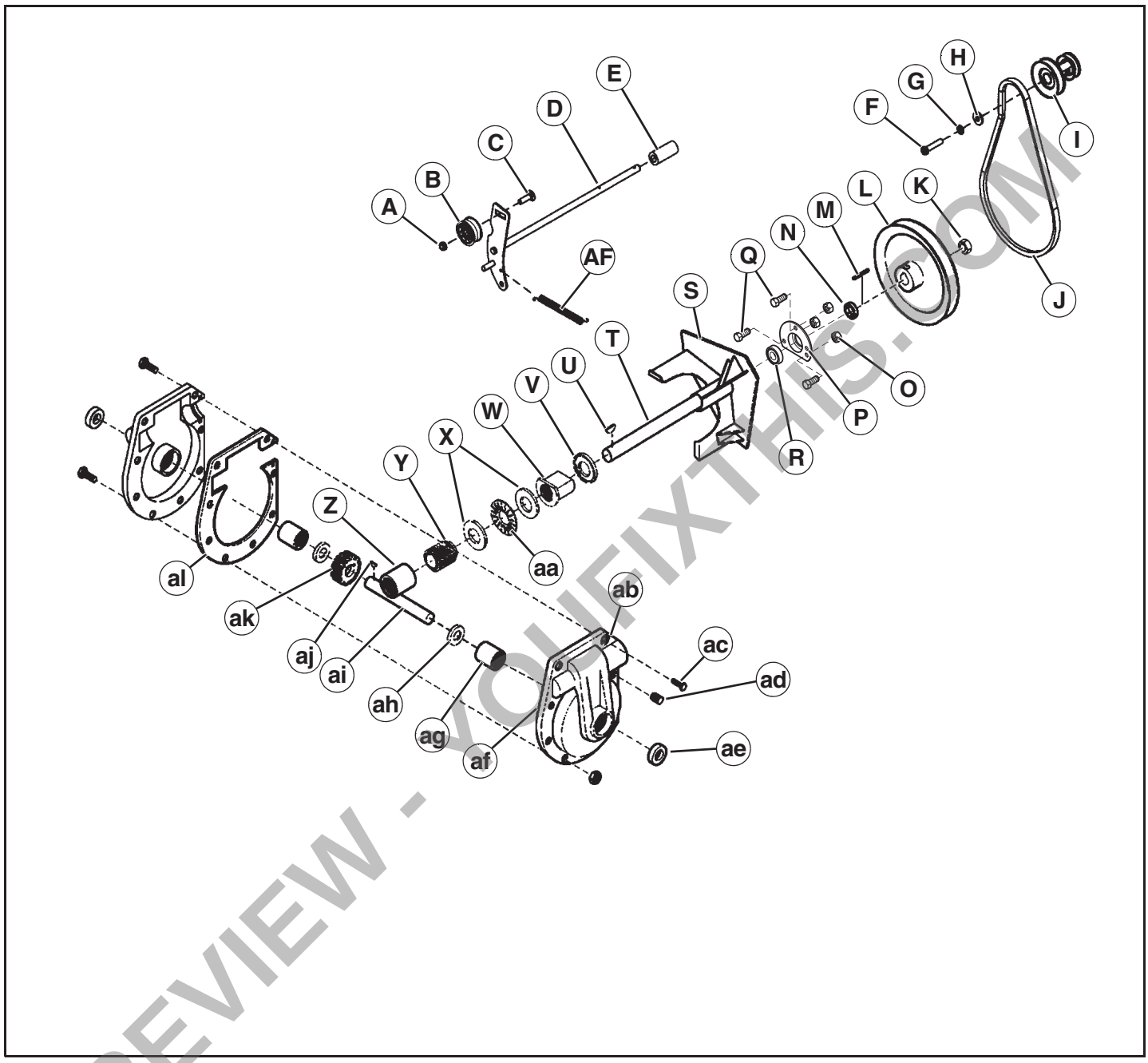


A. Lock Nut	I. Clevis Pin	Q. Capscrews	Y. Thrust Washer	ag. Driven Pulley	ao. Gear Case
B. Idler Pulley	J. Cotter Pin	R. Keyway	Z. Roller Bearing	ah. Lock Nuts	ap. Seal
C. Idler Arm	K. Return Spring	S. Spacer	aa. Lock Pin	ai. Bearing Plate	aq. Flanged Bearing
D. Capscrew	L. Capscrew	T. Capscrews	ab. Thrust Collar	aj. Impeller Bearing	ar. Thrust Washer
E. Cotter Pin	M. Lock Washer	U. Lock Pins	ac. Impeller Shaft	ak. Gasket	as. Auger Shaft
F. Spacer	N. Washers	V. Impeller	ad. Nut	al. Keyway	at. Flanged Bearing
G. Washer	O. Drive Pulley	W. Seal	ae. Fill Plug	am. Worm Gear Seal	
H. Idler Bracket	P. Auger Belt	X. Flange Bearing	af. Gear Case	an. Capscrew	

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AUGER DRIVE - 827E

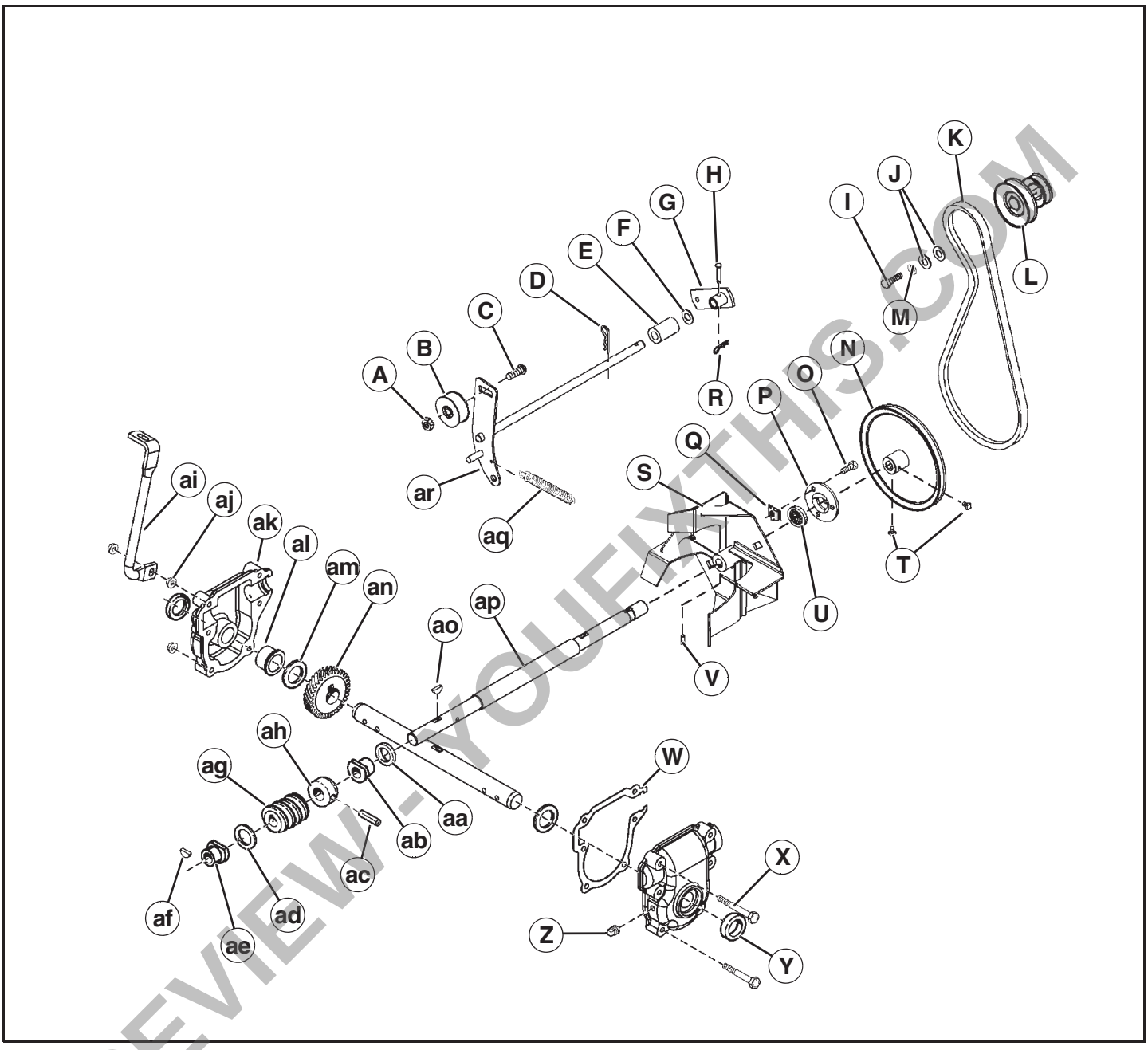


A. Lock Nut
B. Idler Pulley
C. Cap screw
D. Idler Arm
E. Spacer
F. Capscrew
G. Lock Washer
H. Washer
I. Drive Pulley
J. Auger Drive Belt
K. Lock Nut
L. Driven Pulley
M. Keyway
N. Spacer
O. Lock Nut
P. Bearing Plate
Q. Capscrews
R. Impeller Bearing
S. Impeller
T. Impeller Shaft
U. Keyway
V. Seal
W. Flange Bearing
X. Thrust Washers
Y. Worm Gear
Z. Sleeve Bearing
aa. Roller Bearing
ab. Gear Case
ac. Capscrew
ad. Fill Plug
ae. Shaft Seal
af. Gear Case
ag. Sleeve Bearing
ah. Washer
ai. Auger Shaft
aj. Keyway
ak. Worm Gear
al. Gasket

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AUGER DRIVE - 1028E AND 1330SE

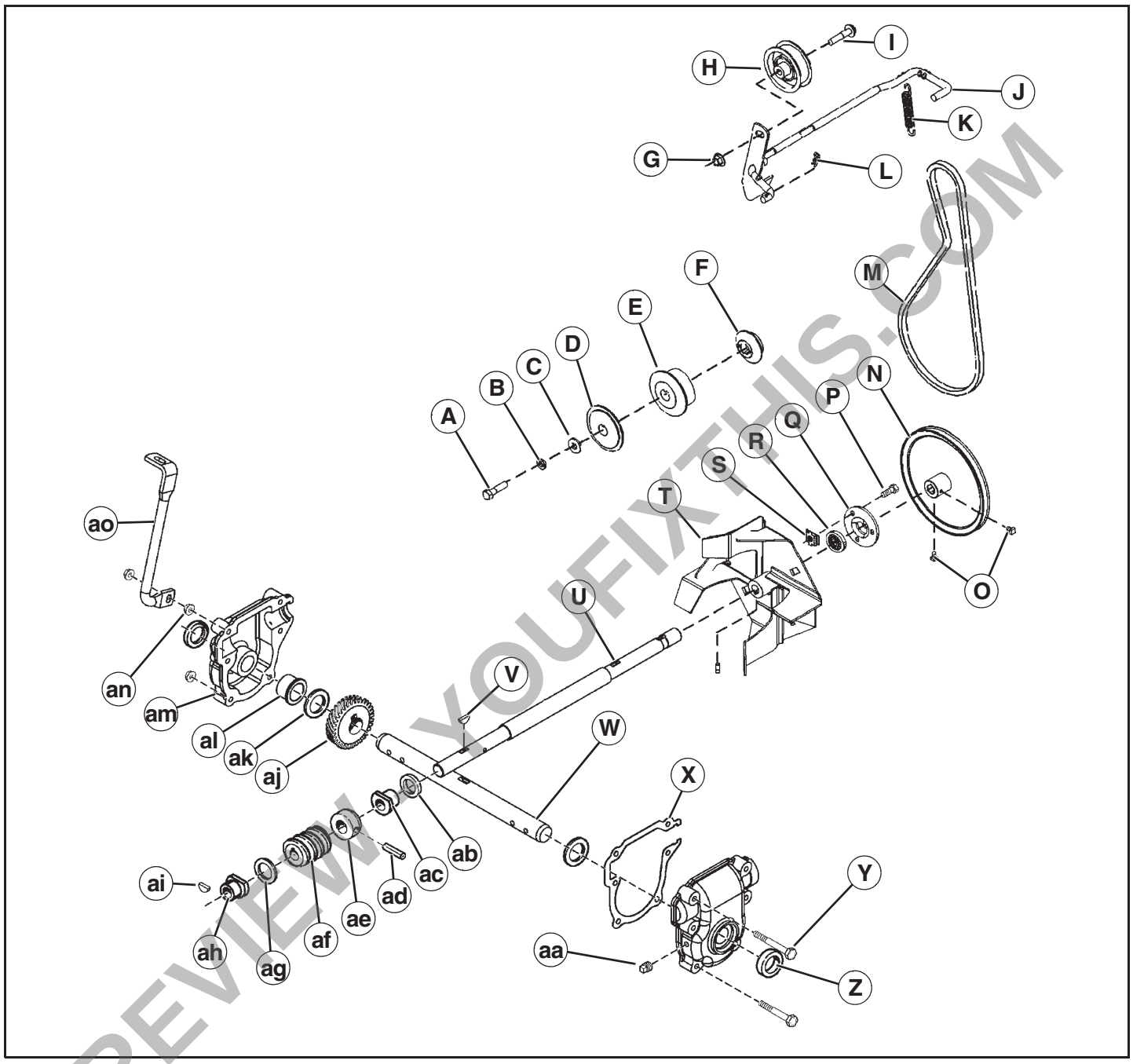


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A. Lock Nut	J. Washers	S. Impeller	ab. Flange Bushing	ak. Gear Case
B. Idler Pulley	K. Auger Belt	T. Set Screws	ac. Lock Pin	al. Flange Bushing
C. Capscrew	L. Drive Pulley	U. Impeller Bearing	ad. Thrust Washer	am. Thrust Washer
D. Cotter Pin	M. Lock Washer	V. Setscrew	ae. Flange Bushing	an. Worm Gear
E. Spacer	N. Driven Pulley	W. Gasket	af. Keyway	ao. Keyway
F. Washer	O. Capscrew	X. Capscrew	ag. Worm Gear	ap. Impeller Shaft
G. Idler Bracket	P. Bearing Plate	Y. Shaft Seal	ah. Thrust Collar	aq. Return Spring
H. Clevis Pin	Q. Flange Nut	Z. Fill Plug	ai. Bracket	ar. Idler Arm
I. Cap crew	R. Cotter Pin	aa. Seal	aj. Nut	

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AUGER DRIVE - 1332PE AND 1338PE

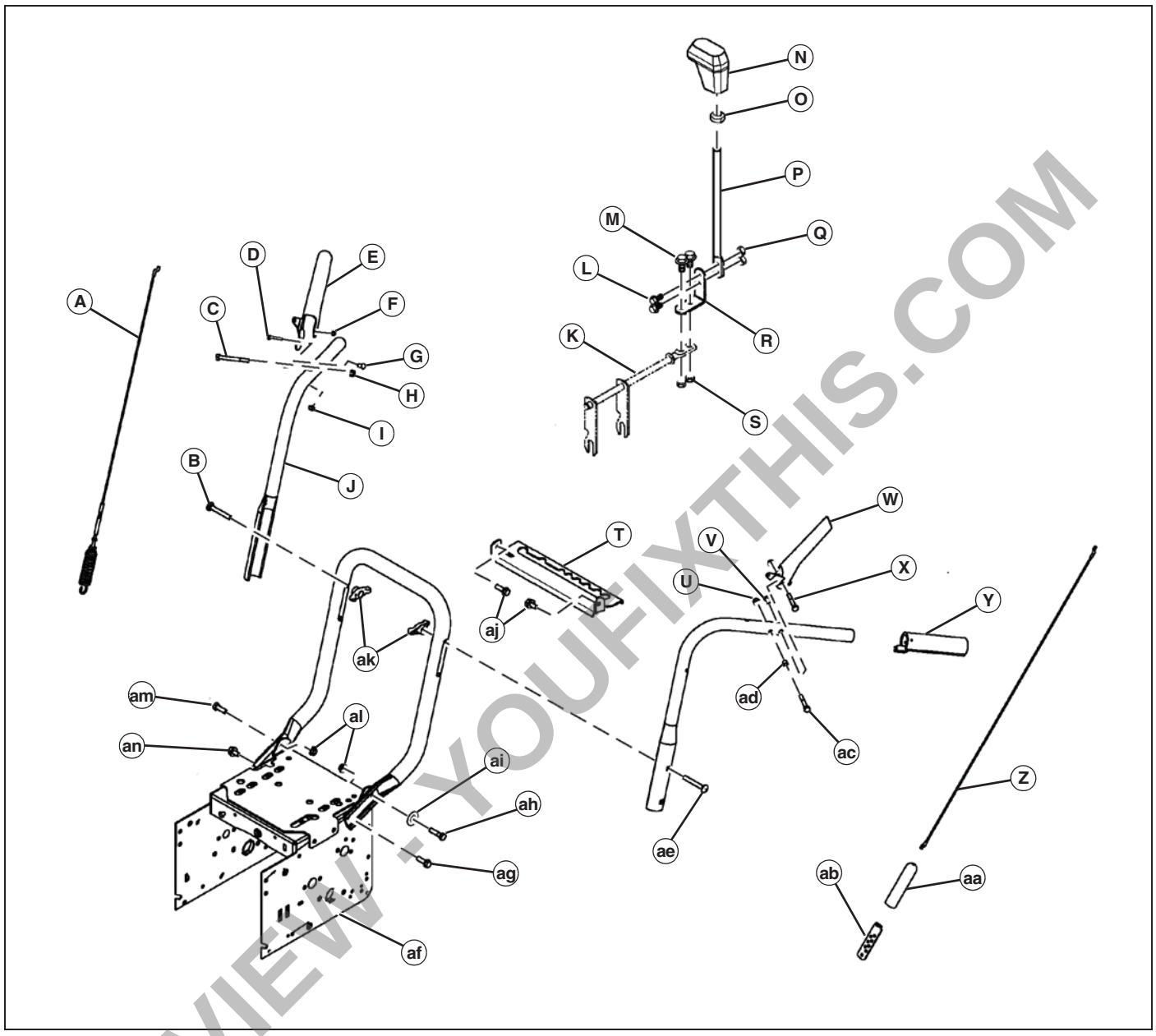


A. Capscrew
B. Lock Washer
C. Washer
D. Outside Pulley
E. Middle Pulley
F. Inside Pulley
G. Lock Nut
H. Idler Pulley
I. Capscrew
J. Idler Arm
K. Return Spring
L. Cotter Pin
M. Auger Belt
N. Driven Pulley
O. Set Screws
P. Capscrew
Q. Bearing Plate
R. Impeller Bearing
S. Flange Nut
T. Impeller
U. Impeller Shaft
V. Keyway
W. Auger Shaft
X. Gasket
Y. Capscrew
Z. Shaft Seal
aa. Fill Plug
ab. Seal
ac. Flange Bushing
ad. Lock Pin
ae. Thrust Collar
af. Worm Gear
ag. Thrust Washer
ah. Flange Bushing
ai. Keyway
aj. Worm Gear
ak. Thrust Washer
al. Flange Bushing
am. Gear Case
an. Nut
ao. Bracket

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HANDLES AND CONTROLS 726E

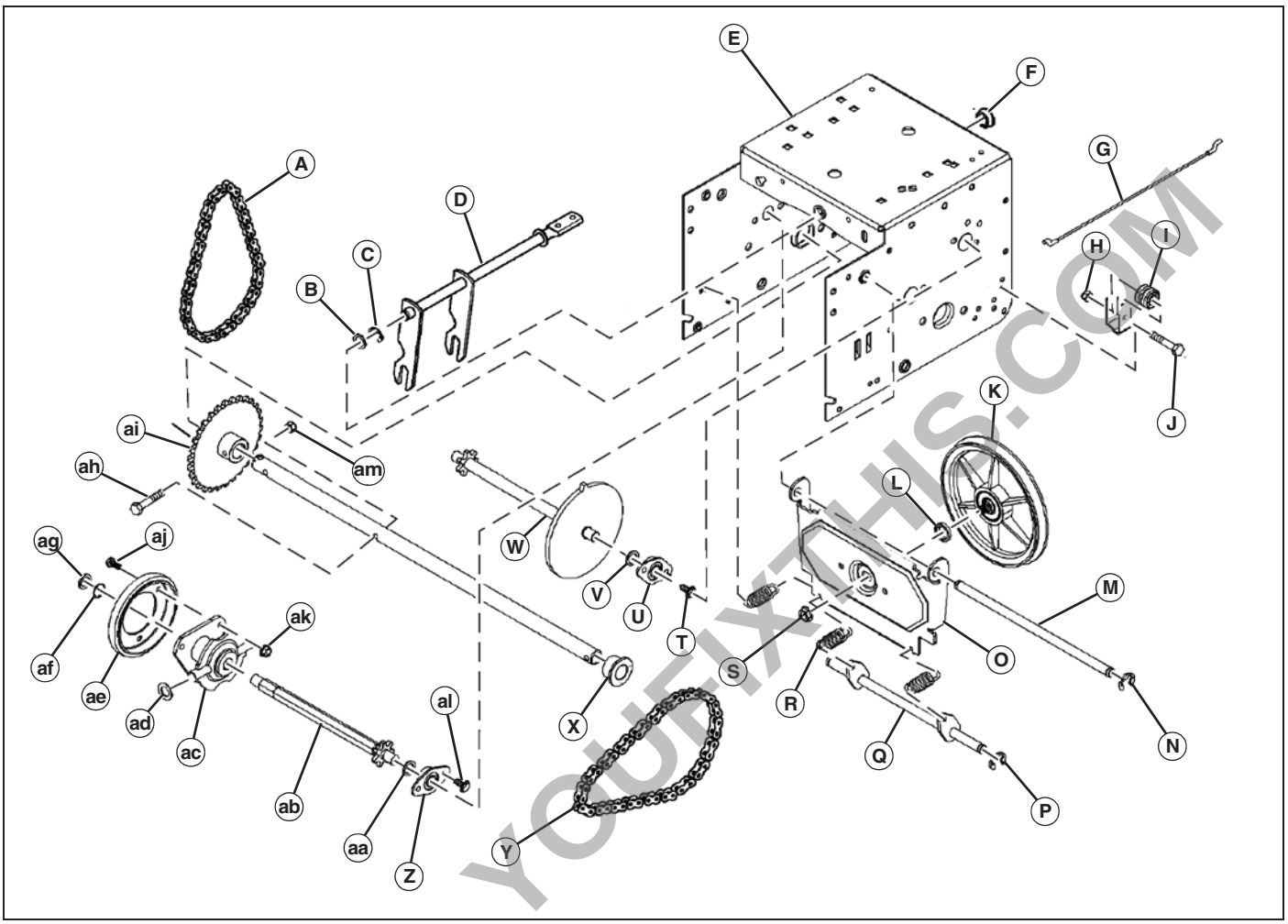


A. Cable and Spring	I. Lock Nut	Q. Lock Nut	Y. Grip	ag. Screw
B. Shoulder Bolt	J. Right Handle	R. Shift Lever	Z. Cable	ah. Capscrew
C. Capscrew	K. Speed Selector	S. Lock Nut	aa. Boot	ai. Washer
D. Capscrew	L. Bolt	T. Bracket	ab. Bracket	aj. Screw
E. Clutch Lever	M. Bolt	U. Lock Nut	ac. Capscrew	ak. Wingknob
F. Lock Nut	N. Shift Knob	V. Spacer	ad. Spacer	al. Lock Nut
G. Spacer	O. Jam Nut	W. Clutch Lever	ae. Shoulder Bolt	am. Capscrew
H. Lock Nut	P. Shift Rod	X. Capscrew	af. Frame	an. Screw

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TRACTION DRIVE 726E, 827E, 1028E



A. Chain
B. Washer
C. Retainer
D. Speed Selector
E. Frame
F. Flange Bearing
G. Cable
H. Lock Nut
I. Cable spool
J. Capscrew
K. Friction Pulley
L. Spacer
M. Axle
N. Retainer
O. Plate
P. Retainer
Q. Spring Link
R. Spring
S. Lock Nut
T. Screw
U. Bushing
V. Washer
W. Sprocket Set
X. Bearing
Y. Chain
Z. Bushing
aa. Washer
ab. Shaft
ac. Hub
ad. Washer
ae. Friction Wheel
af. Retainer Ring
ag. Washer
ah. Bolt
ai. Axle Sprocket
aj. Capscrew
ak. Nut
al. Screw
am. Lock Nut

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SAFETY

RECOGNIZE SAFETY INFORMATION



This is the safety-alert symbol. When you see this symbol on your machine or in this manual, be alert to the potential for personal injury. Follow recommended precautions and safe servicing practices.

SPECIAL MESSAGES

Your manual contains special messages to bring attention to potential safety concerns. Please read all the information carefully to avoid injury and machine damage.

Danger: Avoid Death or Serious Injury! Indicates an imminently hazardous situation which, if not avoided, WILL result in death or serious injury.

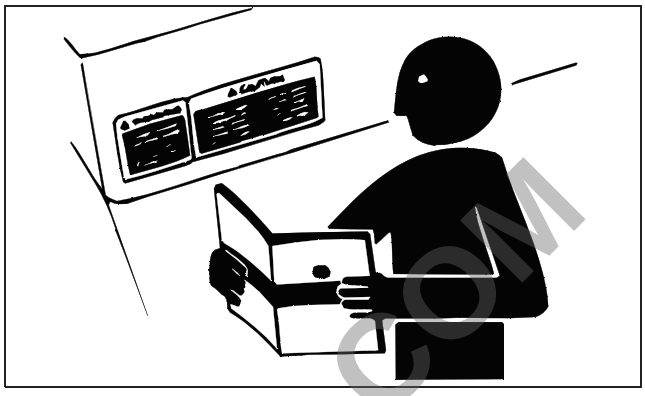
Warning: Avoid Possible Death or Serious Injury! Indicates a potentially hazardous situation which, if not avoided, COULD result in death or serious injury.

Caution: Avoid Injury! Indicates a potentially hazardous situation which, if not avoided, MAY result in minor or moderate injury..

Important: Avoid Damage! This text is used to tell the operator of actions or conditions that might result in damage to the machine.

Note: General information is given throughout the manual that may help the operator in the operation or service of the machine.

REPLACE SAFETY SIGNS



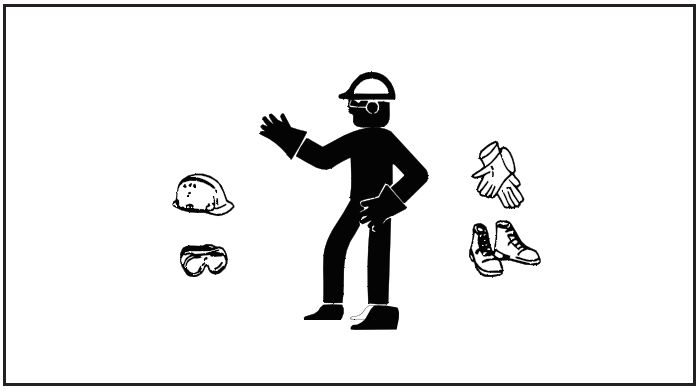
Replace missing or damaged safety signs. See the machine operator's manual for correct safety sign placement.

UNDERSTAND SIGNAL WORDS

A signal word - DANGER, WARNING, or CAUTION - is used with the safety-alert symbol. DANGER identifies the most serious hazards.

DANGER or WARNING safety signs are located near specific hazards. General precautions are listed on CAUTION safety signs.

WEAR PROTECTIVE CLOTHING



Wear close-fitting clothing and safety equipment appropriate to the job.

Prolonged exposure to loud noise can cause impairment or loss of hearing. Wear a suitable hearing protective device such as earmuffs or earplugs to protect against objectionable or uncomfortable loud noises.

Operating equipment safely requires the full attention of the operator. Do not wear radio or music headphones while operating machines.

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