



Parts Manual

Cast Deck Side Discharge Commerical Series 2

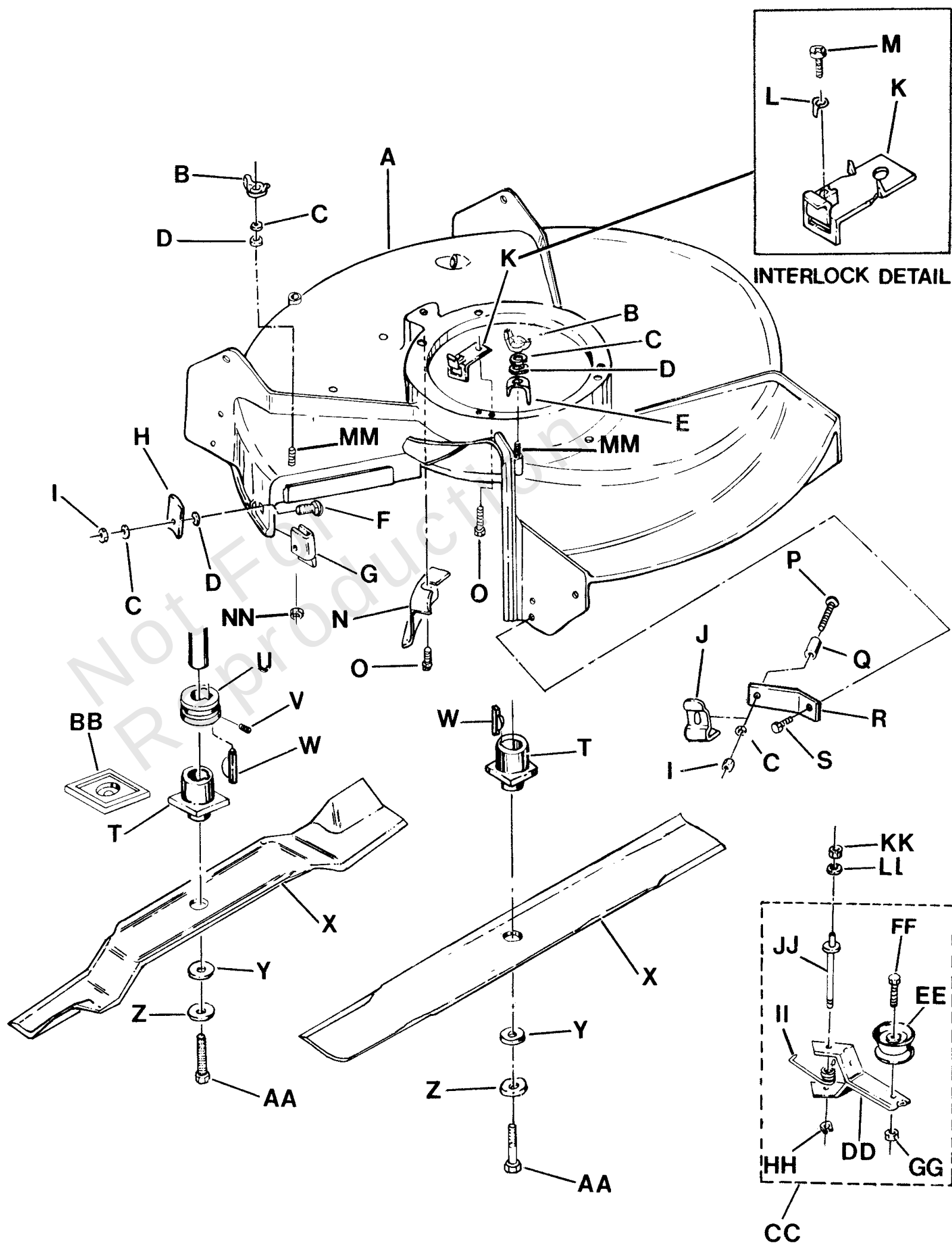
Model Components	Page
Deck, Blade, Interlock.	4
Drive System.	8
Engine.	12
Front Wheels, Brackets, Latches.	14
Grass Catcher Kits.	16
Handles, Controls - Commercial.	18
Liner, Bottom Plate - CV Models.	20
Mulcherizer Kit & Parts.	22
Rear Wheels, Brackets, Latches, Guard.	24
Side Chute Kit.	28
Side Chute, Adapter, Grass Bag.	30
Snapperizer Kit & Parts.	32
Transmission (Differential).	34
Zip Bag Kit & Parts.	36
Torque Specification Chart.	38

Not For
Reproduction

Deck, Blade, Interlock

Note: Unless noted otherwise, use the standard torque specifications

CV212PH 21" 3.5 HP Cast Deck Side Discharge Commerical Series 2



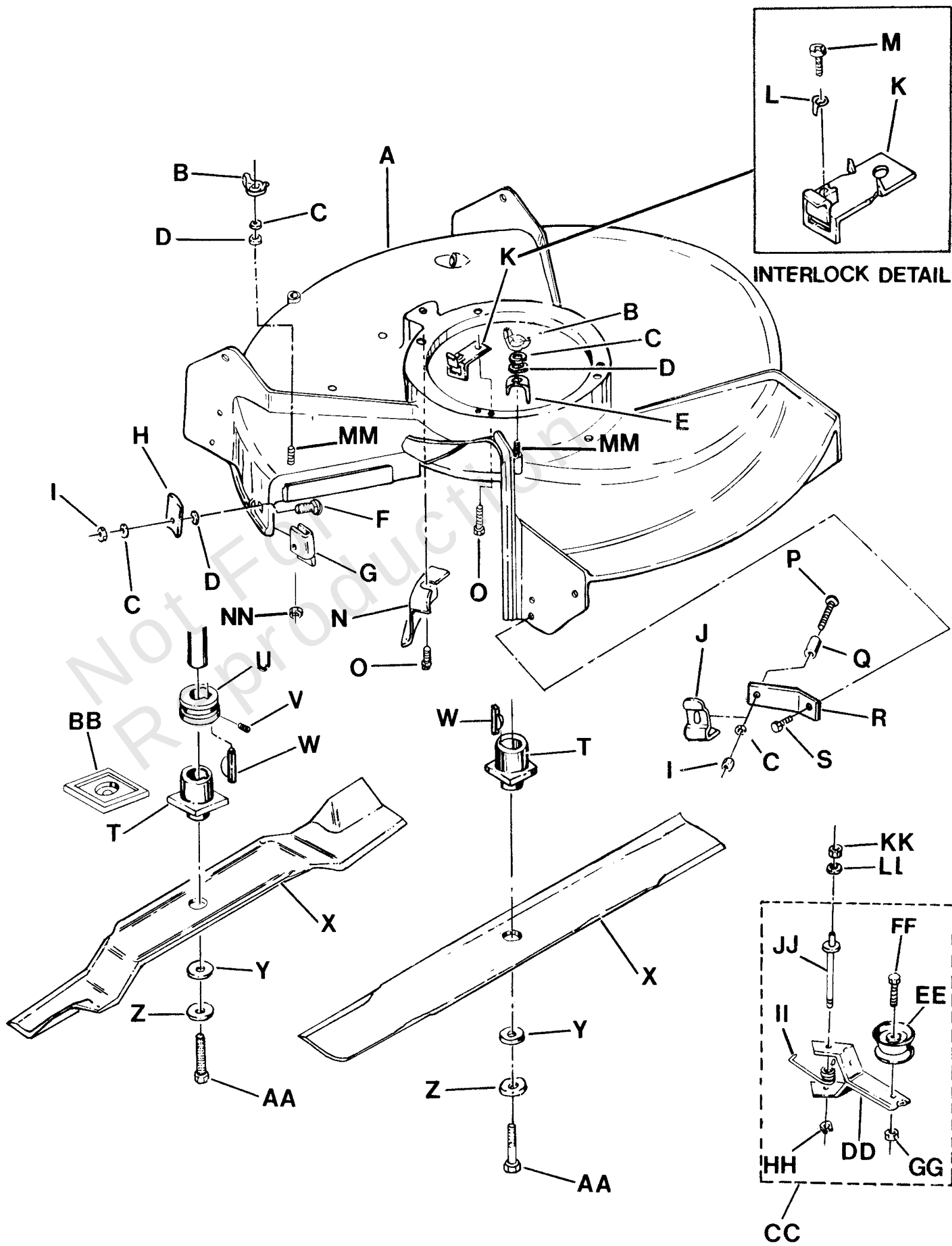
Deck, Blade, Interlock

REF NO	PART NO	QTY	DESCRIPTION
A	59521		DECK ASSEMBLY- 18" Series Cast Aluminum
	50809		DECK ASSEMBLY- 21" Series Cast Aluminum
B	7090375		NUT, 5/16-18 Wing
C	7090187		WASHER, 5/16 Split Lock
D	7090188		WASHER, 5/16 SAE Flat
E	7031123		CLAMP, Adapter/Side Chute
F	7091303		BOLT, 5/16-18 x 1" Square Neck Carriage, Grade 5 -Was 90383
G	31953		CAP, Liner -(Model CV only)
H	7031917		GUIDE, Bracket
I	7091511		NUT, 5/16-18 Hex -Was 90196
J	7031895		MOUNT, Bottom Plate -(Model CV only)
K	7050802		ASSEMBLY, Interlock
L	7090385		TAB-WASHER, #8
M	7090379		SCREW, #8-18 x 3/4" Sheet Metal
N	7031968		COVER, Belt Hole -(V21 Hand Propelled only)
O	7090324		SCREW, 3/8-16 x 1" Hex Washer Self-Tap
P	7090549		SCREW, 5/16-18 x 1-1/4" Flat Head Machine
Q	7012310		SPACER, Adapter/Chute
R	7031915		BRACKET, Side
S	7090361		SCREW, 5/16-18 x 5/8" Hex Washer Self-Tap
T	7060270		HUB, Blade Drive -(Kit for 7/8" Diameter Shaft); Includes # 1-2180 Hub
	7060326		HUB, Blade Drive -(Kit for 1" Diameter Shaft); Includes #1-2319 Hub
U	7021707		PULLEY, Engine V21P (1-7/8" O.D., 7/8" I.D.)
	7021759		PULLEY, Engine CV21P (2-1/8" O.D., 1" I.D.)
	7021764		PULLEY, Honda Engine (2-1/8" O.D. x 7/8" I.D.)
V	7090201		SET SCREW, 5/16-18 x 5/16"
W	7010783		KEY, #505 Hi-Pro
	7012315		KEY, Square -(Integral part of some hubs)
X	7018167		BLADE, Cutter (18")
	7018193		BLADE, Cutter (21")
	7019521		BLADE, Mulcherizer -(Model V21 only)
Y	7012063		WASHER, Cone
Z	7020984		WASHER, 3/8" Flat
AA	7090523		SCREW, 3/8-24 x 1-5/8" Hex Head Cap, Grade 5
	7090167		SCREW, 3/8-24 x 2" Hex Head Cap, Grade 5 -(For Mulcherizer blade)
BB	7012588		SPACER, Mulcherizer
CC	7050801		ASSEMBLY, Idler -(Incl. Items DD thru JJ)
DD	7031936		BRACKET, Idler
EE	7012124		PULLEY, Idler
FF	7090552		SCREW, 1/4-28 x 1-3/8" Hex Head Cap, Grade 5
GG	7090303		NUT, 1/4-28 Hex Top Lock
HH	7012313		RING, External Retaining -(For .375 diameter shaft)
II	7012218		SPRING, Idler

Deck, Blade, Interlock

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CV212PH 21" 3.5 HP Cast Deck Side Discharge Commerical Series 2



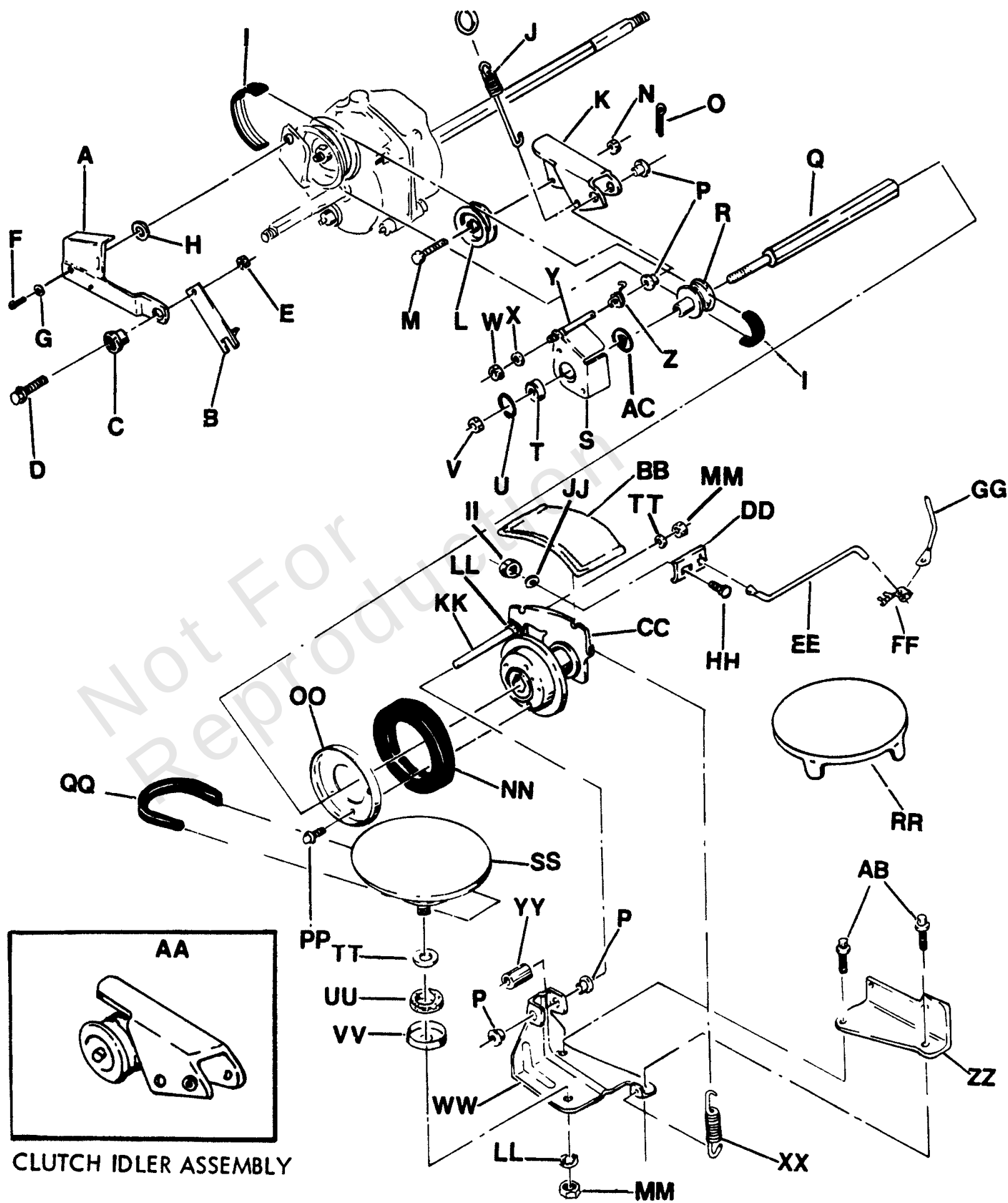
Deck, Blade, Interlock

REF NO	PART NO	QTY	DESCRIPTION
JJ	7012318		STUD, Idler -(For manual start engine)
KK	7091630		NUT, 3/8-24 Hex -Was 90155
LL	7090390		WASHER, 3/8" Internal Tooth Lock
MM	7011081		STUD, 5/16-18 x 1-1/2" Self-Tap
NN	7090197		NUT. 5/16-18 Hex Jam

Not For Reproduction

Drive System

Note: Unless noted otherwise, use the standard torque specifications CV212PH 21" 3.5 HP Cast Deck Side Discharge Commerical Series 2



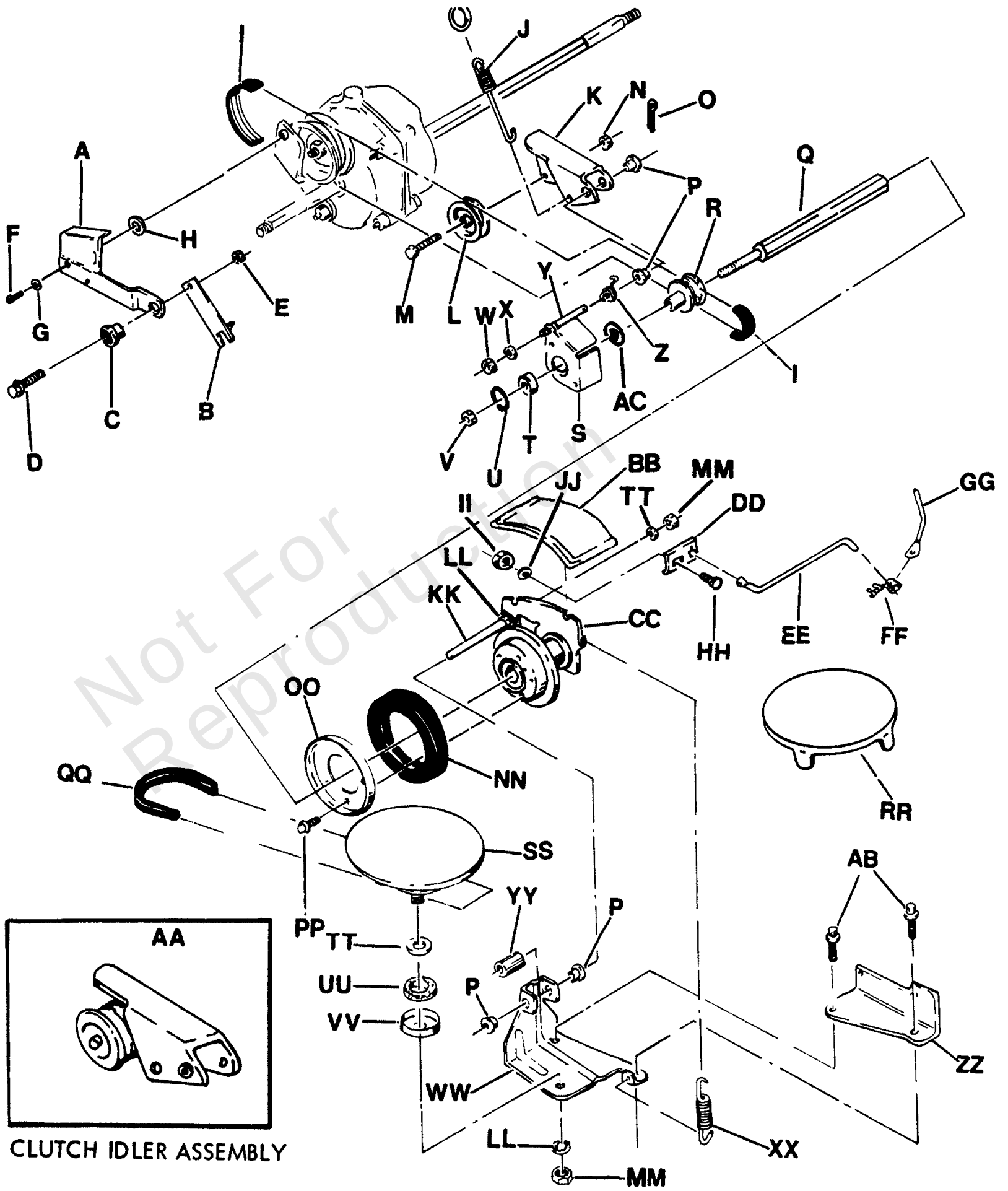
Drive System

REF NO	PART NO	QTY	DESCRIPTION
A	7034179		LINK, Differential -Was 31880
B	7032408		GUIDE, Lower Belt
C	7012114		BUSHING, Differential Link
D	7011078		SCREW, 5/16-18 Shoulder
E	7090222		NUT, 5/16-24 Hex Center Lock
F	7090534		SCREW, 5/16-18 x 3/8" Hex Head Cap, Grade 5
G	7090391		WASHER, 5/16 Internal Tooth Lock
H	7011079		WASHER, Spring
I	7012354		BELT, Poly V
J	7012122		SPRING, Clutch
K	7032832		ARM, Clutch Idler -Was 31877
L	7012124		PULLEY, Idler
M	7090552		SCREW, 1/4-28 x 1-3/8" Hex Head Cap, Grade 5
N	7090303		NUT, 1/4-28 Hex Top Lock
O	7091597		PIN, 3/32 x 3/4" Cotter -Was 90037
P	7012306		BUSHING, Flange
Q	7072284		SHAFT, Hex -Was 21745
R	7024521		PULLEY, Poly V-Belt -Was 12140
S	7031873		HOLDER, Bearing (Half)
T	7028014		BEARING, Ball (Hex Shaft) -Was 12304
U	7011025		O-Ring
V	7090289		NUT, 3/8-24 Hex Center Lock
W	7091630		NUT, 3/8-24 Hex, Grade 2 -Was 90155
X	7090390		WASHER, 3/8" Internal Tooth Lock
Y	7012111		STUD, Idler
Z	7012126		SPRING, Idler (torsion)
AA	7051921		ASSEMBLY, Idler Clutch -Was 50706
BB	7012118		COVER, Driven Ring
CC	7501000		ASSEMBLY, Driven Disc -Was 7053225 or 57262
DD	7032831		CONNECTOR, Transfer Rod -Was 31874
EE	7012255		ROD, Transfer
FF	7010937		CLIP, Transfer Rod Right Arc - 1/4"
GG	-----		LEVER, Speed Control -(see "Handles, Controls - Self propelled (Except CV" or "Handles, Controls - Commercial" illustration and parts list for CV models)
HH	7090316		BOLT, 5/16-18 x 3/4" Square Neck Carriage, Grade 2A
II	7091511		NUT, 5/16-18 Hex -Was 90196
JJ	7090187		WASHER, 5/16 Split Lock
KK	7012125		GUIDE, Thrust Plate
LL	7090390		WASHER, 3/8" Internal Tooth Lock
MM	7091630		NUT, 3/8-24 Hex, Grade 2 -Was 90155
NN	7023364		RING, Driven (Rubber Disc) -Was 10927

Drive System

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CV212PH 21" 3.5 HP Cast Deck Side Discharge Commerical Series 2



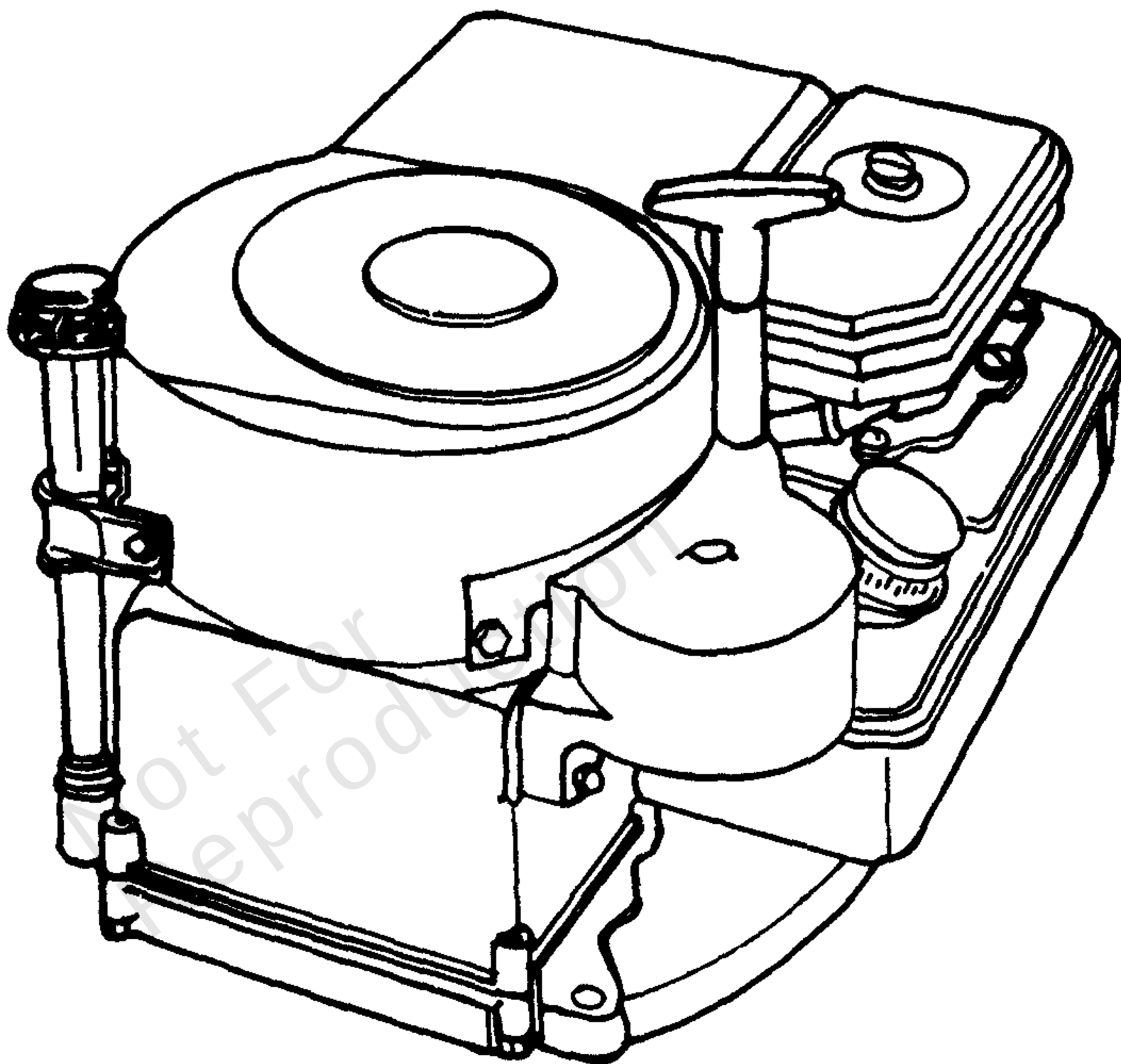
Drive System

REF NO	PART NO	QTY	DESCRIPTION
OO	7031013		PLATE, Driven Ring (Tire)
PP	7090913		SCREW, #10-24 x 1/2" Hex Washer Self-Tap (Torx) -Was 90307
QQ	7012508		BELT, Engine
	7012353		BELT, Engine -(CV21 models)
RR	7031879		CAP, Drive Disc -(option)
SS	7061275		ASSEMBLY, Drive Disc -Was 50752
TT	7090122		WASHER, 3/8" SAE Flat
UU	7011032		SEAL, Bearing (felt)
VV	7031132		SHIELD, Bearing
WW	7033774		BRACKET, Deck -Was 31919 (Now 17696 + 33774)
XX	7029025		SPRING, Wheel Drive -Was 12123
YY	7021758		SPACER, Deck Bracket
ZZ	7037732		BRACKET, Strap- CV21
AB	7090361		SCREW, 5/16-18 x 5/8" Hex Washer Self-Tap -(Model V21)
	7091541		SCREW, 5/16-18 x 3/4" Hex Washer Self-Tap -Was 90368 (Model CV21)
AC	7012316		WASHER, .390 I.D. Flat

Engine

Note: Unless noted otherwise, use the standard torque specifications

CV212PH 21" 3.5 HP Cast Deck Side Discharge Commercial Series 2



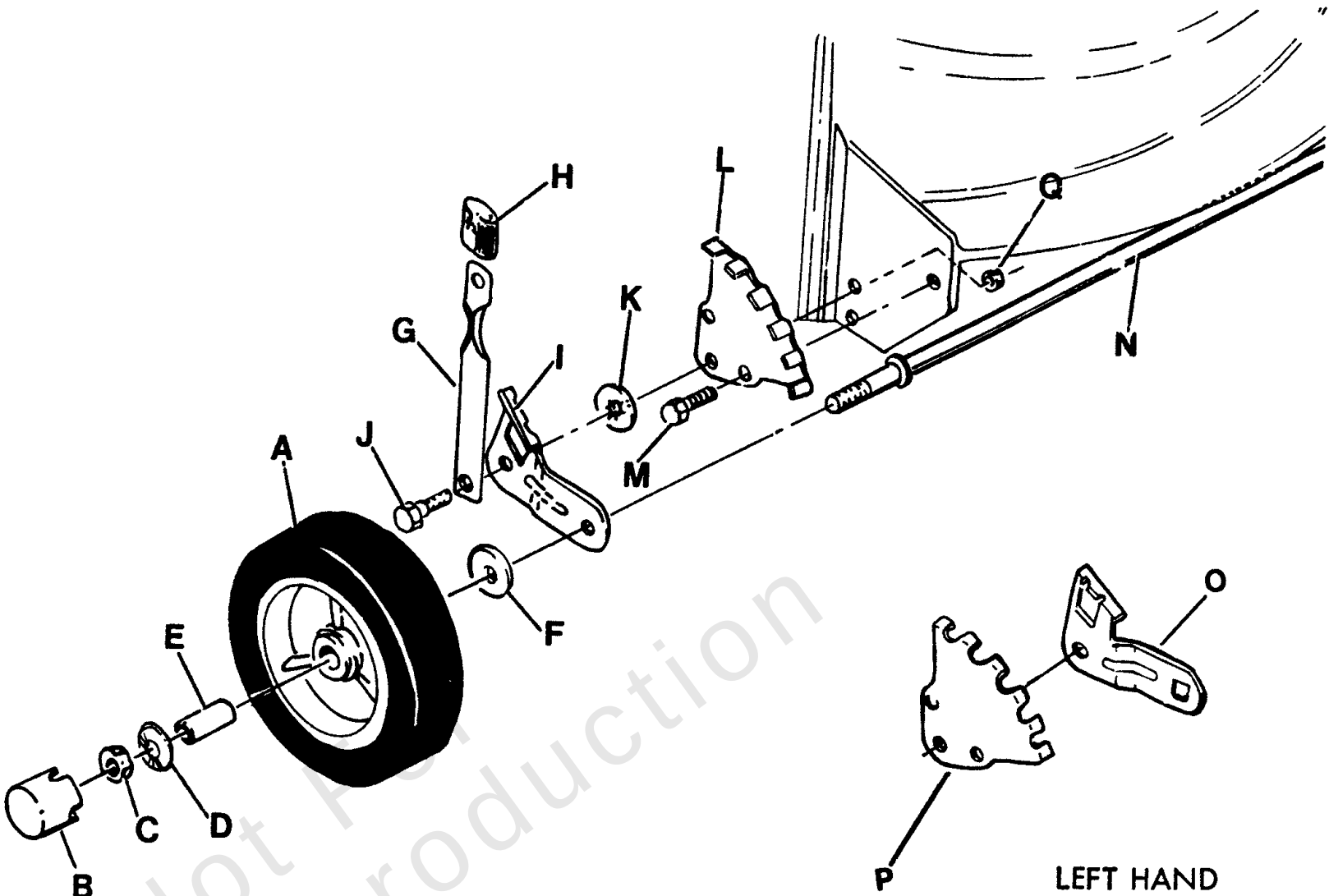
Engine

REF NO	PART NO	QTY	DESCRIPTION
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Front Wheels, Brackets, Latches

Note: Unless noted otherwise, use the standard torque specifications CV212PH 21" 3.5 HP Cast Deck Side Discharge Commerical Series 2

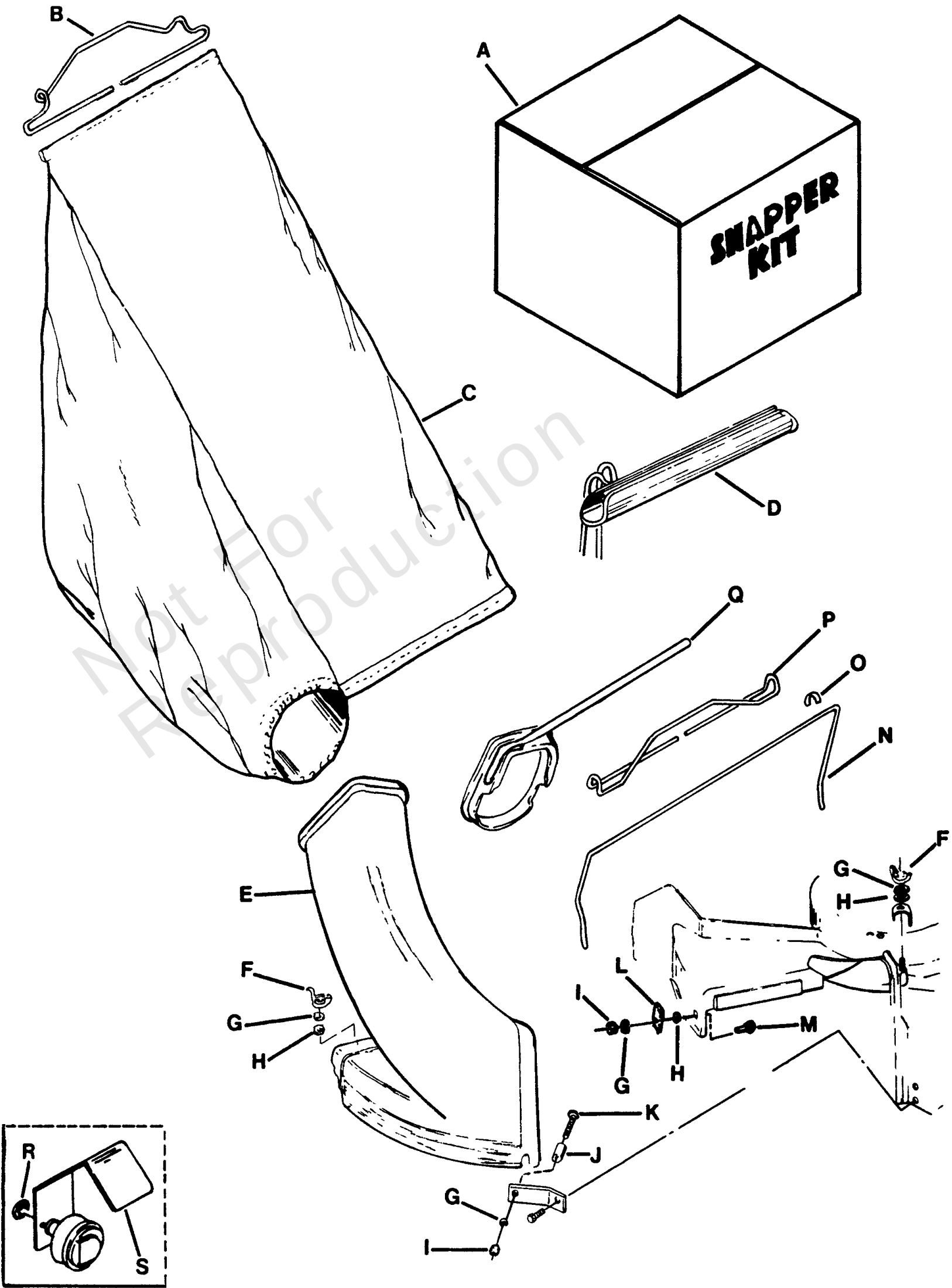


Front Wheels, Brackets, Latches

REF NO	PART NO	QTY	DESCRIPTION
A	7018189		WHEEL, 7 x 1:50 Front (all except CV) (9/16" I.D.)
	7012347		WHEEL, 7 x 1:75 Front (CV models) (7/16" I.D.)
B	7012323		CAP, Hub
C	7090377		NUT, 7/16-20 Hex Center Lock (Thin)
D	7011079		WASHER, Spring
E	7012309		BUSHING, Axle
F	7031961		WASHER, 7/16" Flat
G	7012325		LATCH, Front Height
H	7011093		GRIP, Height Latch
I	7031017		ARM, RH Front Wheel
J	7011078		SCREW, 5/16-18 x 1" Shoulder
K	7011791		RETAINER, 5/16 Bolt
L	7037300		BRACKET, RH Front Wheel
M	7090361		SCREW, 5/16-18 x 5/8" Hex Washer Self-Tap
N	7011749		AXLE, Front V18
	7021119		AXLE, Front V21
O	7031016		ARM, LH Front Wheel
P	7037300		BRACKET, LH Front Wheel
Q	7090197		NUT, 5/16-18 Hex Jam

Grass Catcher Kits

Note: Unless noted otherwise, use the standard torque specifications CV212PH 21" 3.5 HP Cast Deck Side Discharge Commerical Series 2



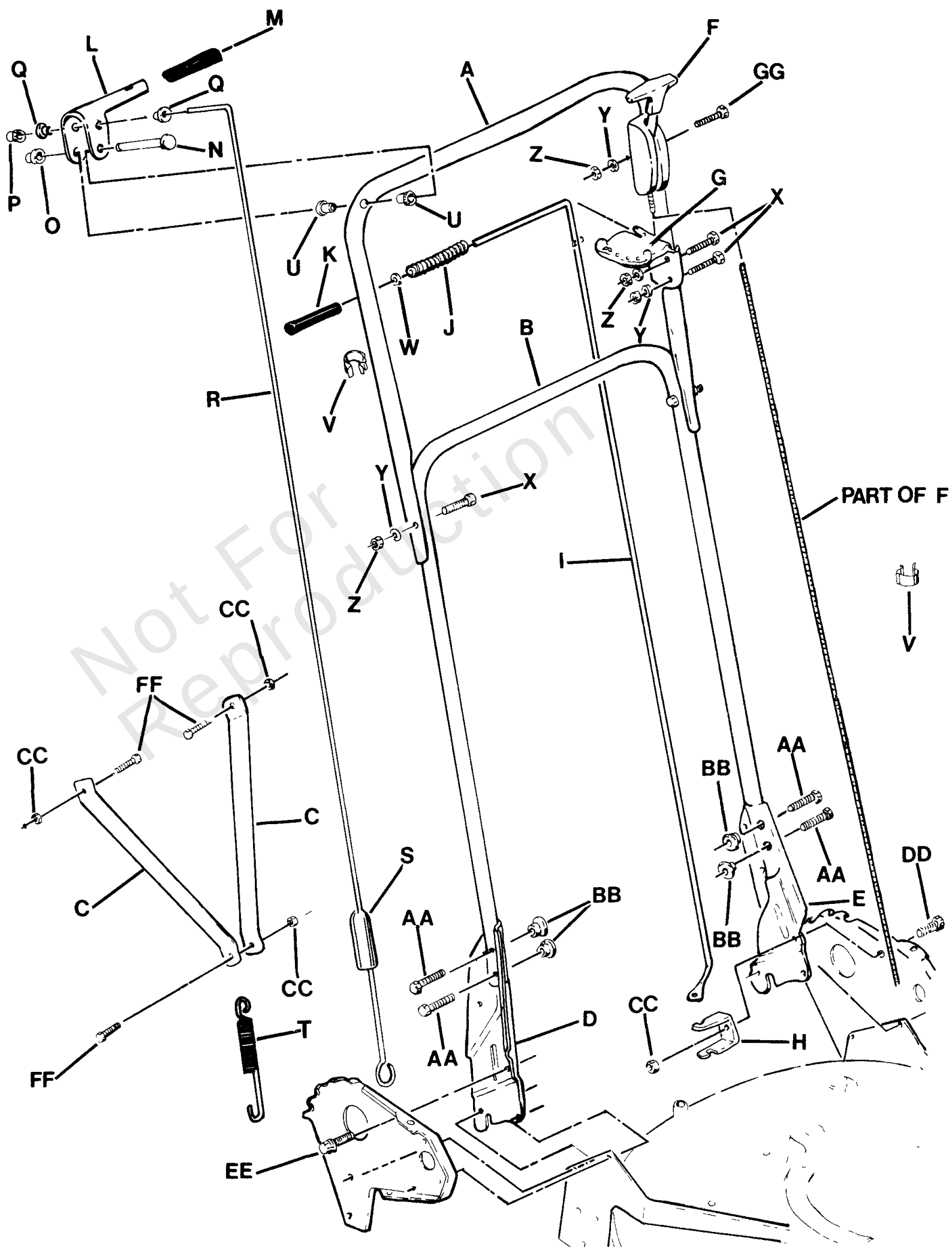
Grass Catcher Kits

REF NO	PART NO	QTY	DESCRIPTION
A	60284		KIT, V18 Grass Catcher
	60285		KIT, V21 Grass Catcher
B	7019247		WIRE, Rear -Was 31128
C	7074734		BAG, Grass -Was 12320
D	7050711		ASSEMBLY, Slider
E	7019806		ADAPTER, V18 Bag
	7019805		ADAPTER, V21 Bag
F	7090375	2	NUT, 5/16-18 Wing Lock
G	7090187	4	WASHER, 5/16 Split Lock
H	7090188	3	WASHER, 5/16 SAE Flat
I	7091511	2	NUT, 5/16-18 Hex -Was 90196
J	7012310		SPACER
K	7090549		SCREW, 5/16-18 x 1-1/8" Flat Head Countersunk Machine
L	7031917		BRACKET, Guide
M	7091303		BOLT, 5/16-18 x 1" Short Neck Carriage, Grade 5 -Was 90383
N	7018074		BAR, Roll -(V18 Kit only)
O	7011780		RING, Nylon -(V18 Kit only)
P	7031127		WIRE, Front -(V18 Kit only)
Q	47736		CONNECTOR, Bag -(V21 Kit only)
R	7090457		WASHER, 13/16" Internal Tooth Lock
S	7038391		SHIELD, Exhaust Heat (Briggs engine) -Was 37351

Handles, Controls - Commercial

Note: Unless noted otherwise, use the standard torque specifications

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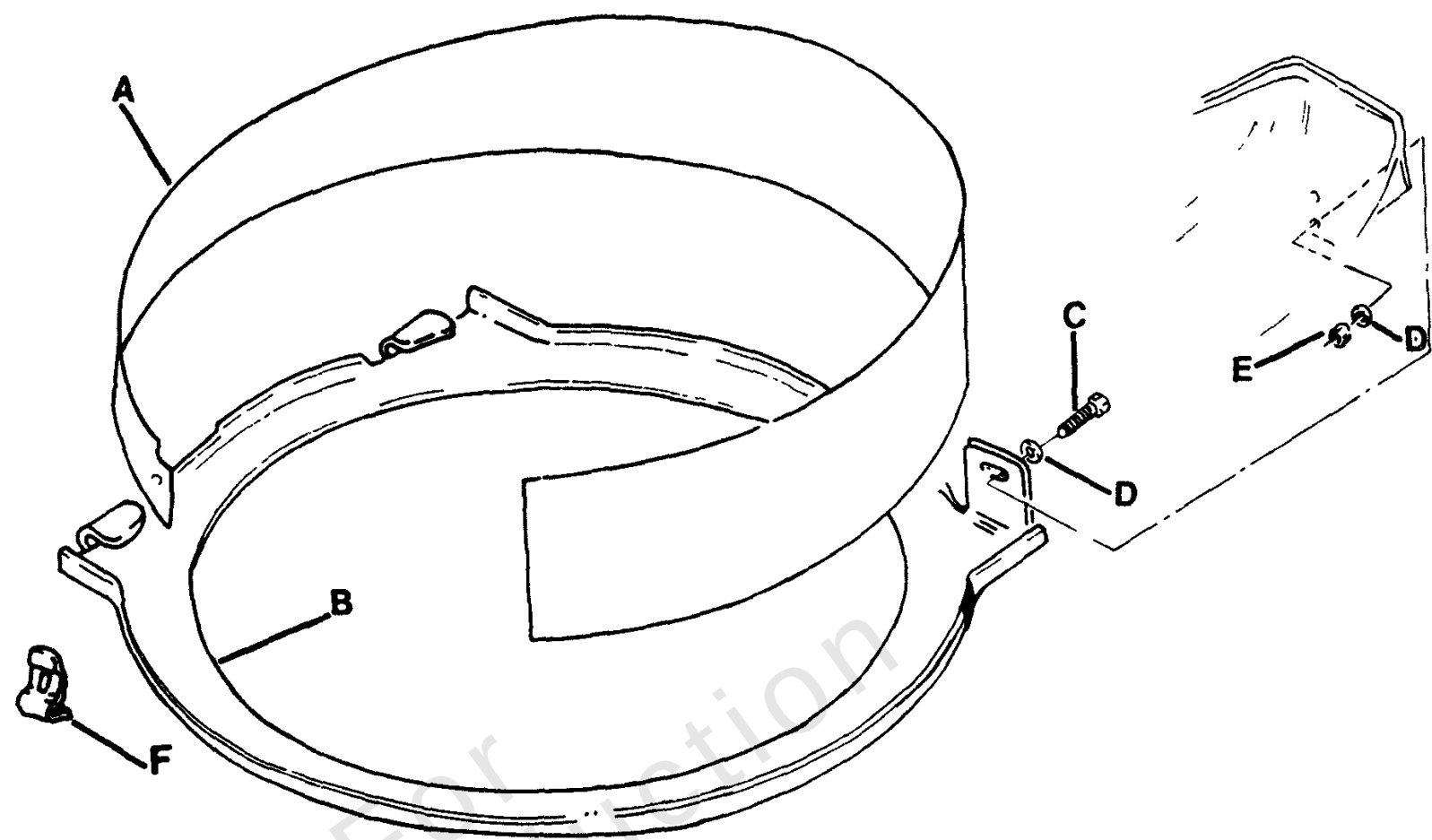


Handles, Controls - Commercial

REF NO	PART NO	QTY	DESCRIPTION
A	7033444		HANDLE, Upper -Was 39600
B	7039602		HANDLE, Middle
C	7032833		STRAP, Handle -Was 37729
D	7039592		MOUNT, Right Hand Handle
E	7039591		MOUNT, Left Hand Handle
F	7018188		CONTROL, Throttle (Briggs)
	7018201		CONTROL, Throttle (Tecumseh)
G	37727		SECTOR, Speed Control
H	7032830		ANCHOR, Speed Control -Was 31755
I	7012317		LEVER, Speed Control
J	7012093		SPRING, Speed Control Lever
K	7023801		GRIP, Speed Control Lever -Was 11879
L	7032826		HANDLE, Clutch -Was 31881
M	7014307		GRIP, Clutch Handle -Was 11982
N	7023792		PIN, Clutch handle -Was 11886
O	7091020		NUT, 1/4" Push -Was 90489
P	7012134		NUT, 1/8" Push
Q	7012135		BUSHING, Pull Rod (Nylon)
R	12326		ROD, Clutch Pull
S	7012121		COVER, Vinyl
T	7012122		SPRING, Clutch
U	7014343		BUSHING, Clutch Handle Pin -Was 12070
V	7010098		CLIP
W	7090188		WASHER, 5/16" SAE Flat
X	7090552		SCREW, 1/4-28 x 1-3/8" Hex Head Cap, Grade 5
Y	7090053		WASHER, 1/4" Internal/External Tooth Lock
Z	7090095		HN, 1/4F GR5 YZ
AA	7027230		SCREW, 1/4-20 x 1" Hex Head Cap, Grade 5 -Was 90548
BB	7012322		NUT, 1/4-20 Curved Head
CC	7090222		NUT, 5/16-24 Hex Center Lock
DD	7090238		SCREW, 5/16-24 x 1" Hex Head Cap, Grade 5
EE	7090240		SCREW, 5/16-24 x 1-1/4" Hex Head Cap, Grade 2
FF	7090233		SCREW, 5/16-24 x 3/4" Hex Head Cap, Grade 5
GG	7090111		SCREW, 5/16-28 x 1-3/4" Hex Head Cap, Grade 5

Liner, Bottom Plate - CV Models

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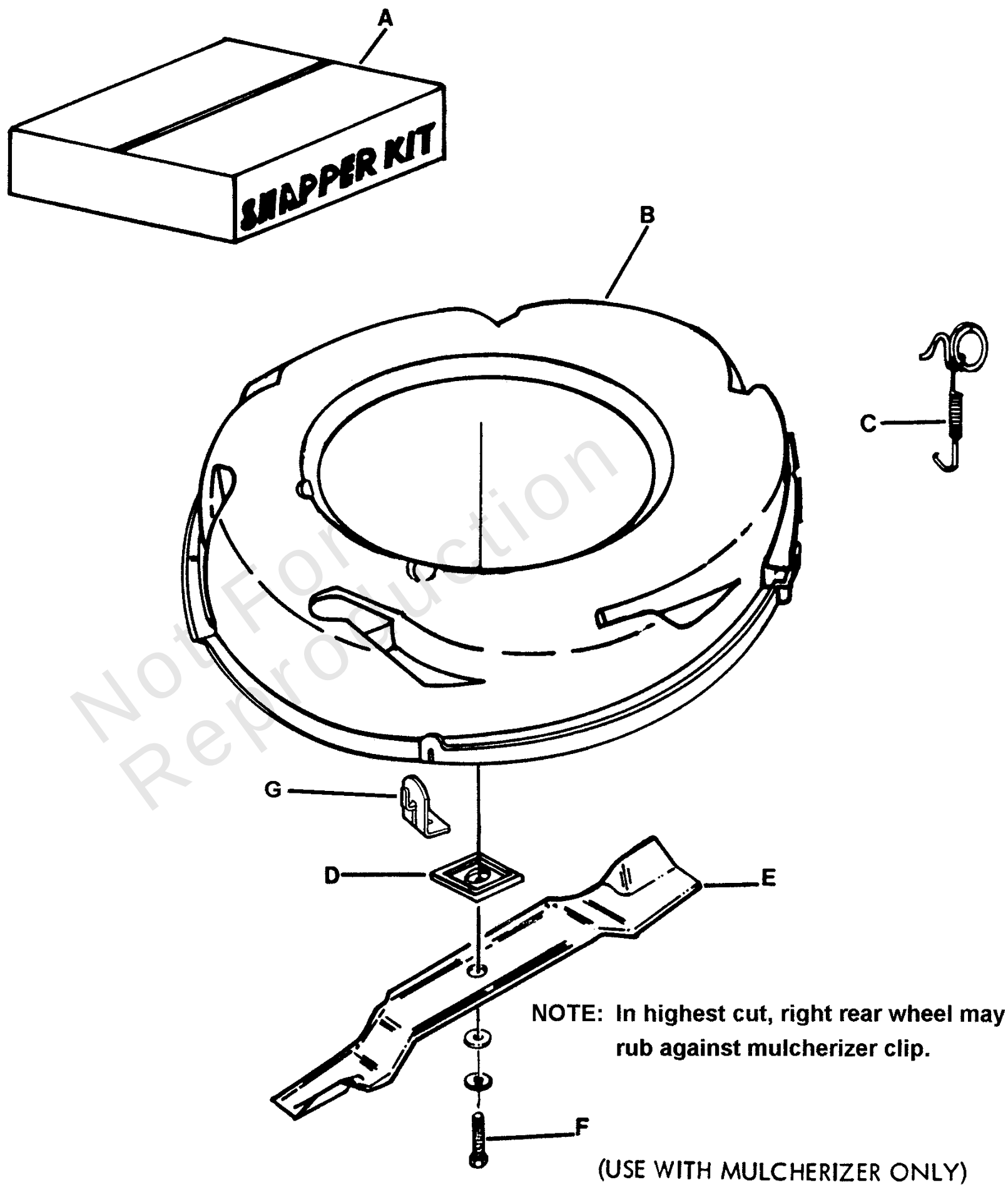
Liner, Bottom Plate - CV Models

REF NO	PART NO	QTY	DESCRIPTION
A	7039594		LINER, CV DECK
B	7039595		PLATE, BOTTOM
C	7090541		SCREW, HEX HEAD CAP 1/4-28 x 3/4
D	7090052		WASHER, SPLIT LOCK 1/4
E	7090095		HN, 1/4F GR5 YZ
F	7031895		MOUNT, BOTTOM PLATE

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Mulcherizer Kit & Parts

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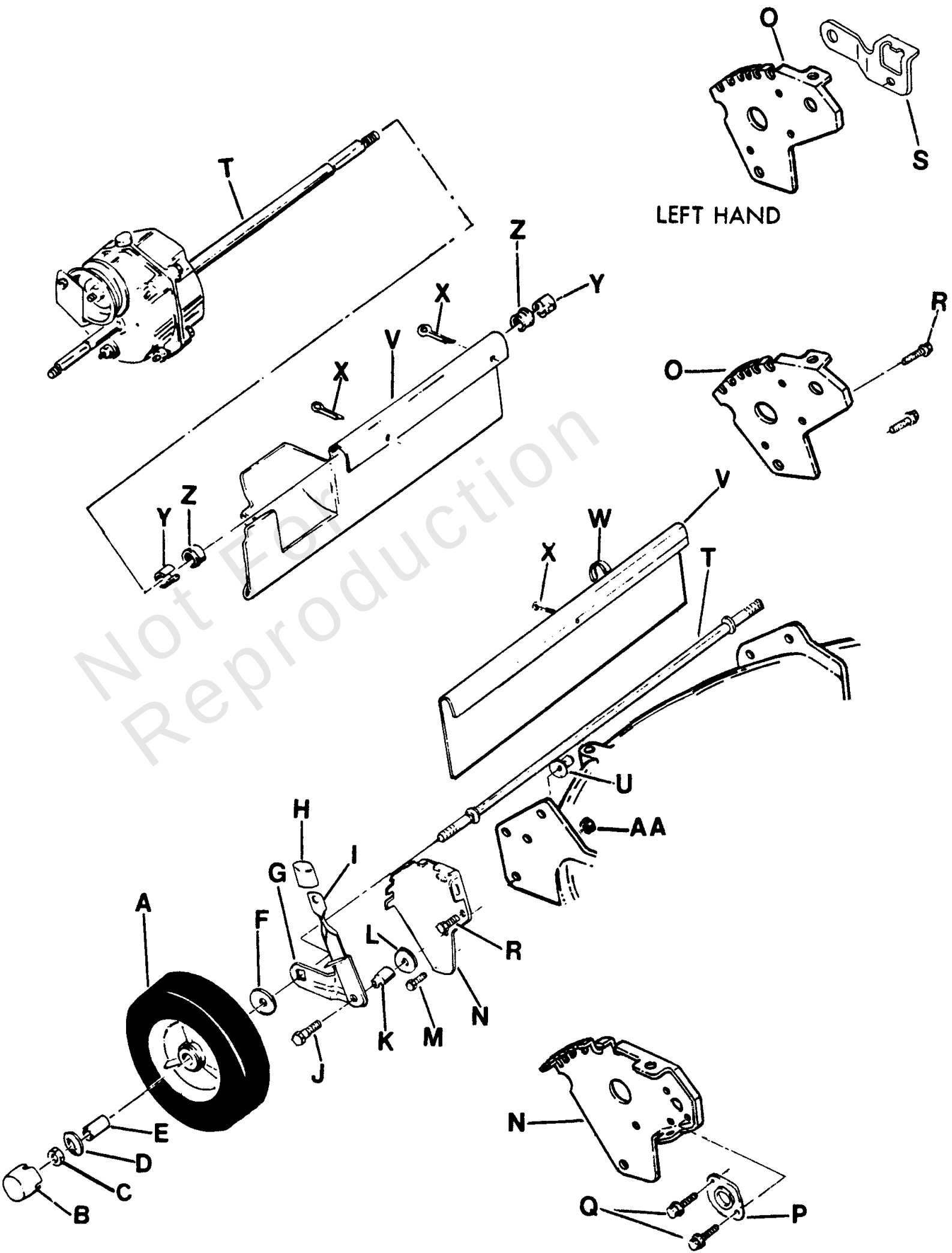


Mulcherizer Kit & Parts

REF NO	PART NO	QTY	DESCRIPTION
A	7060338		KIT, V21 Mulcherizer
B	7019811		LINER, Mulcherizer
C	7012587		SPRING, Liner Retaining- (2 - Front)
	7012928		SPRING, Liner Retaining (2 - Rear)
D	7012588		SPACER, Mulcherizer Blade
E	7019521		BLADE, V21 Mulcherizer
F	7090167		SCREW, 3/8-24 x 2" Hex Head Cap, Grade 5
G	7014002		CLIP, Mulcherizer

Rear Wheels, Brackets, Latches, Guard

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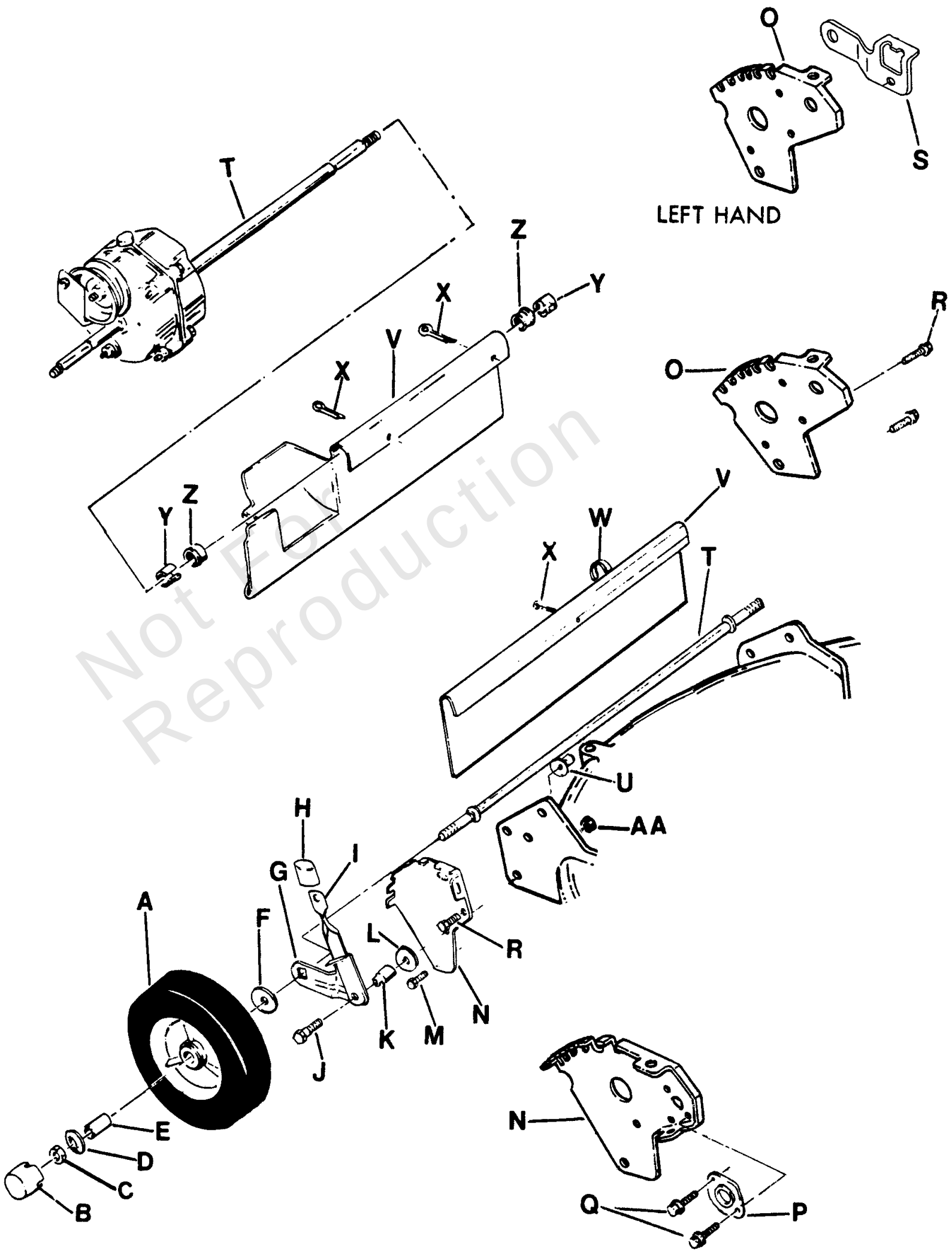


Rear Wheels, Brackets, Latches, Guard

REF NO	PART NO	QTY	DESCRIPTION
A	7018189		WHEEL, V18 Rear-7 x 1.50 (9/16" Internal Diameter)
	7029010		WHEEL, V21 Rear-8 x 1.75 (9/16" I.D.) -Was 18190
	7014604		WHEEL, V21 P Rear-9 x 1.75 (.568 I.D. w/2 Flats) -Was 12496
	7014604		WHEEL, 21 P Rear-9 x 1.75 (.577 I.D. w/2 Flats) -Was 12496
	7012345		WHEEL, CV21 Rear-9 x 1.75
	7011082		WHEEL, CV21 Rear-8 x 1.75 (7/16" I.D.) -Was 12346
B	7012323		CAP, Hub -(All except CV)
	7031121		CAP, Hub -(Model CV)
C	7090377		NUT, 7/16-20 Hex Center Lock (Thin)
D	7011079		WASHER, Spring
E	7012309		BUSHING, Axle
F	7031961		WASHER, 7/16" Steel
G	7031016		ARM, RH Rear Wheel -(Models V18 & 21 Hand Propelled)
	7050278		ARM, RH Rear Wheel -Was 50787 (Models V21 & CV21 Self Propelled)
H	7011093		GRIP, Height Latch
I	7012359		LATCH, Rear Height -(Model V18)
	7012325		LATCH, Rear Height -(Models V21 & CV21)
J	7011078		SCREW, 5/16-18 x 1" Shoulder
K	7021737		SPACER, Wheel Arm -(Model V18 only)
L	7011791		RETAINER, 5/16" Bolt
M	7090361		SCREW, 5/16-18 x 5/8" Hex Washer Self-Tap
N	7037275		BRACKET, RH Rear -(Models V18 & V21 Hand Propelled)
	7037308		BRACKET, RH Rear -(Models V21 & CV21 Self Propelled)
O	7037277		BRACKET, LH Rear -(Models V18 & V21 Hand Propelled)
	7037309		BRACKET, RH Rear -(Models V21 & CV21 Self Propelled)
P	7031809		HOLDER, Bearing -(Self Propelled only)
Q	7091084		SCREW, 1/4-20 x 3/8" Hex Washer Self-Tap -Was 90302
R	7091541		SCREW, 5/16-18 x 3/4" Hex Washer Self-Tap -Was 90368
S	7031017		ARM, LH Rear Wheel -(Hand Propelled)
	7050277		ARM, LH Rear Wheel -Was 50786 (Self Propelled)
T	11766		AXLE, Rear -(Model V18 Hand Propelled)
	7021119		AXLE, Rear -(Model V21 Hand Propelled)
	-----		AXLE, Rear -(Part of Transmission-Self Propelled)
U	7090388		NUT, 5/16-18 Tee
V	7031762		GUARD, Foot Rear -(Model V18 Hand Propelled)

Rear Wheels, Brackets, Latches, Guard

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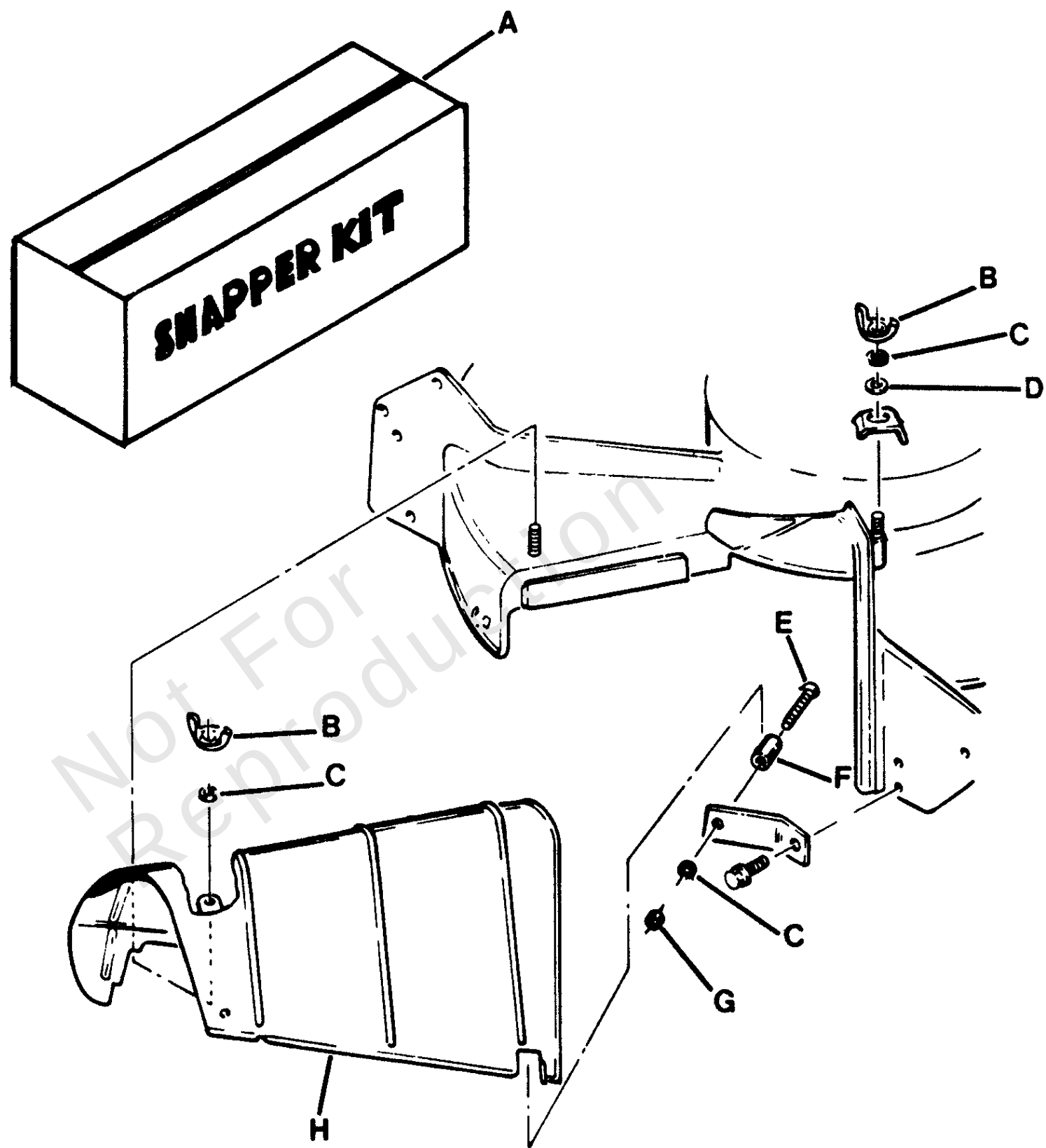


Rear Wheels, Brackets, Latches, Guard

REF NO	PART NO	QTY	DESCRIPTION
	7031763		GUARD, Rear -(Model V21 Hand Propelled)
	7060507		GUARD, Rear -Was 39576 (Self Propelled)
W	7011780		RING, Nylon -(Hand Propelled only)
X	7091809		PIN, 1/8 x 1-1/2" Cotter -Was 90297
Y	7010996		SPACER, Axle -(Self Propelled only)
Z	7010694		BUSHING, Axle (Nylon) -(Self Propelled only)
AA	7090197		NUT, 5/16-18 Hex Jam

Side Chute Kit

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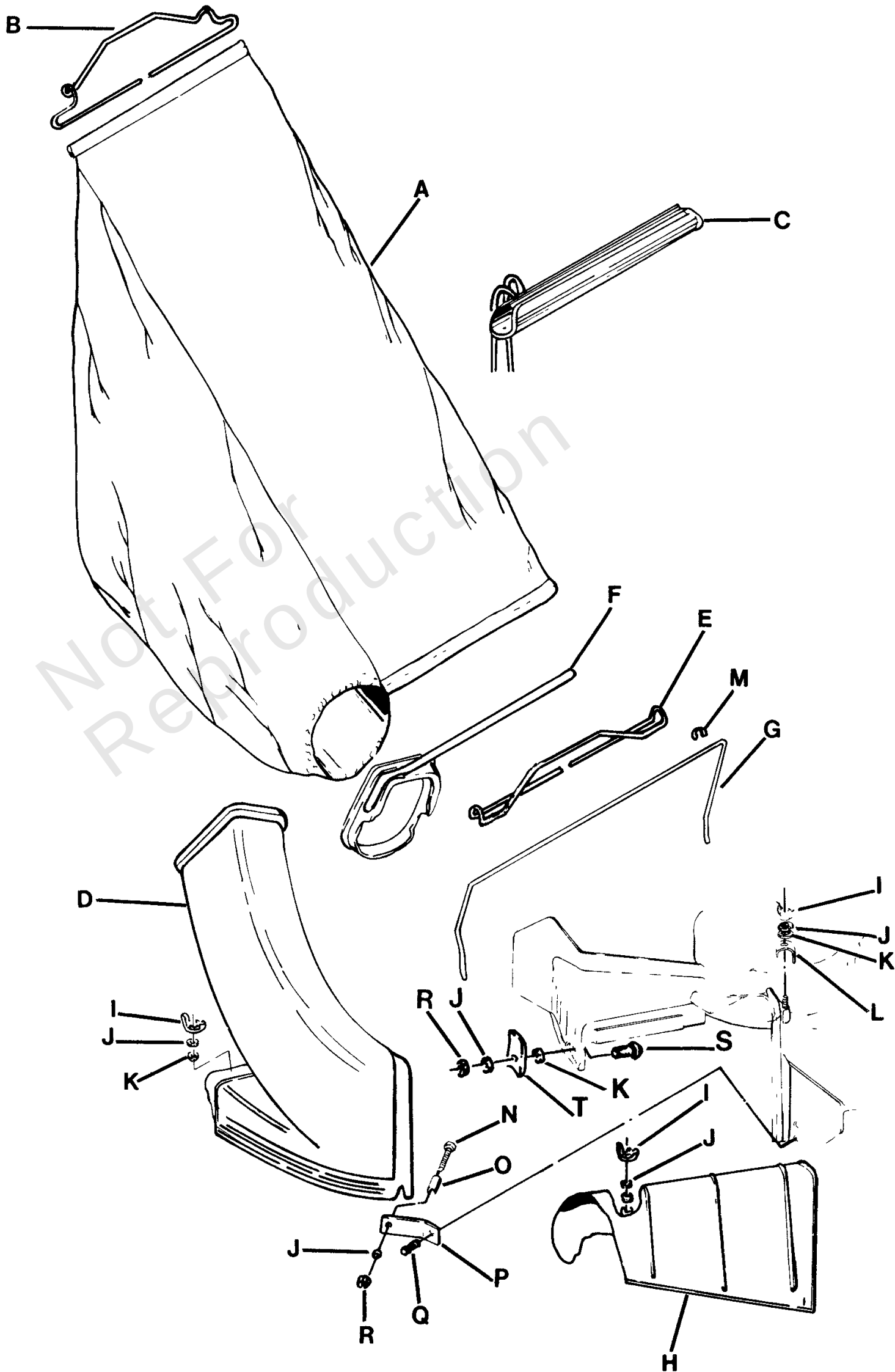


Side Chute Kit

REF NO	PART NO	QTY	DESCRIPTION
A	7060286		KIT, V18 Side Chute
	7060287		KIT, V21 Side Chute
B	7090375		NUT, 5/16-18 Wing
C	7090187		WASHER, 5/16 Split Lock
D	7090188		WASHER, 5/16 SAE Flat
E	7090549		SCREW, 5/16-18 x 1-1/8" Flat Head Countersunk Machine
F	7012310		SPACER
G	7091511		NUT, 5/16-18 Hex -Was 90196
H	7040444		CHUTE, V18 Side
	7060287		CHUTE, V21 Side -Was 40443

Side Chute, Adapter, Grass Bag

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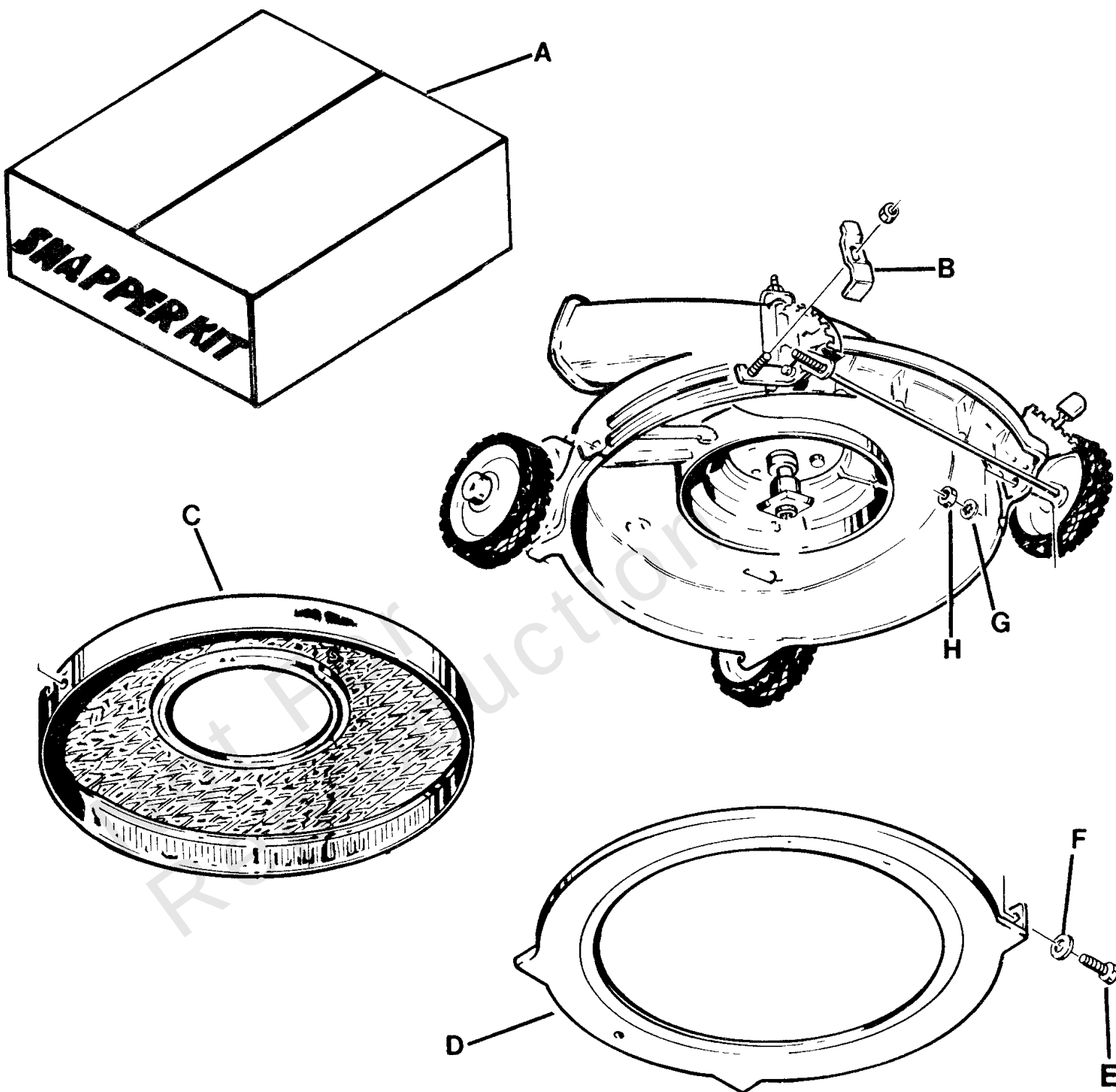


Side Chute, Adapter, Grass Bag

REF NO	PART NO	QTY	DESCRIPTION
A	7074734		BAG, Grass Catcher -Was 12320 (All Except CV Models)
	7074426		BAG, Grass Catcher -Was 12321 (Commercial CV Models)
B	7019247		WIRE, Bag Connector- Top -Was 31128
C	7050711		SLIDER, Bag Closure (Assembly)
D	7019806		ADAPTER, Bag V18
	7019805		ADAPTER, Bag V21
E	7031127		WIRE, Bag Connector -(Model V18 only)
F	47736		CONNECTOR, Bag -(Model V21 only)
G	7018074		BAR, Bag Support Roll -(Model V18 only)
H	7040444		CHUTE, Side (Structure) -Model V18
	7060287		CHUTE, Side (Structure) -Was 40443, Model V21
I	7090375		NUT, 5/16-18 Wing
J	7090187		WASHER, 5/16" Split Lock
K	7090188		WASHER, 5/16" Flat
L	7031123		CLAMP, Adapter/Side Chute
M	7011780		RING, Nylon
N	7090549		SCREW, 5/16-18 x 1-1/4" Flat Head Machine
O	7012310		SPACER, Adapter or Side Chute
P	7031915		BRACKET, Side
Q	7090361		SCREW, 5/16-18 x 5/8" Self-Tapping SEMS
R	7091511		NUT, 5/16-18 Hex -Was 90196
S	7091303		BOLT, 5/16-18 x 1" Square Neck Carriage, Grade 5 -Was 90383
T	7031917		GUIDE, Bracket
	60284		KIT, Grass Catcher-V18 -KITS AVAILABLE-NOT SHOWN (see Group 7)
	60285		KIT, Grass Catcher-V21 -KITS AVAILABLE-NOT SHOWN (see Group 7)
	7060286		KIT, Side Chute-V18 -KITS AVAILABLE-NOT SHOWN (see Group 7)
	7060287		KIT, Side Chute-V21 -KITS AVAILABLE-NOT SHOWN (see Group 7)
	7060295		KIT, Snapperizer-V21 -KITS AVAILABLE-NOT SHOWN (see Group 7)
	60296		KIT, Snapperizer-V18 -KITS AVAILABLE-NOT SHOWN (see Group 7)
	7060338		KIT, Mulcherizer-V21 -KITS AVAILABLE-NOT SHOWN (see Group 7)

Snapperizer Kit & Parts

Note: Unless noted otherwise, use the standard torque specifications CV212PH 21" 3.5 HP Cast Deck Side Discharge Commerical Series 2



Snapperizer Kit & Parts

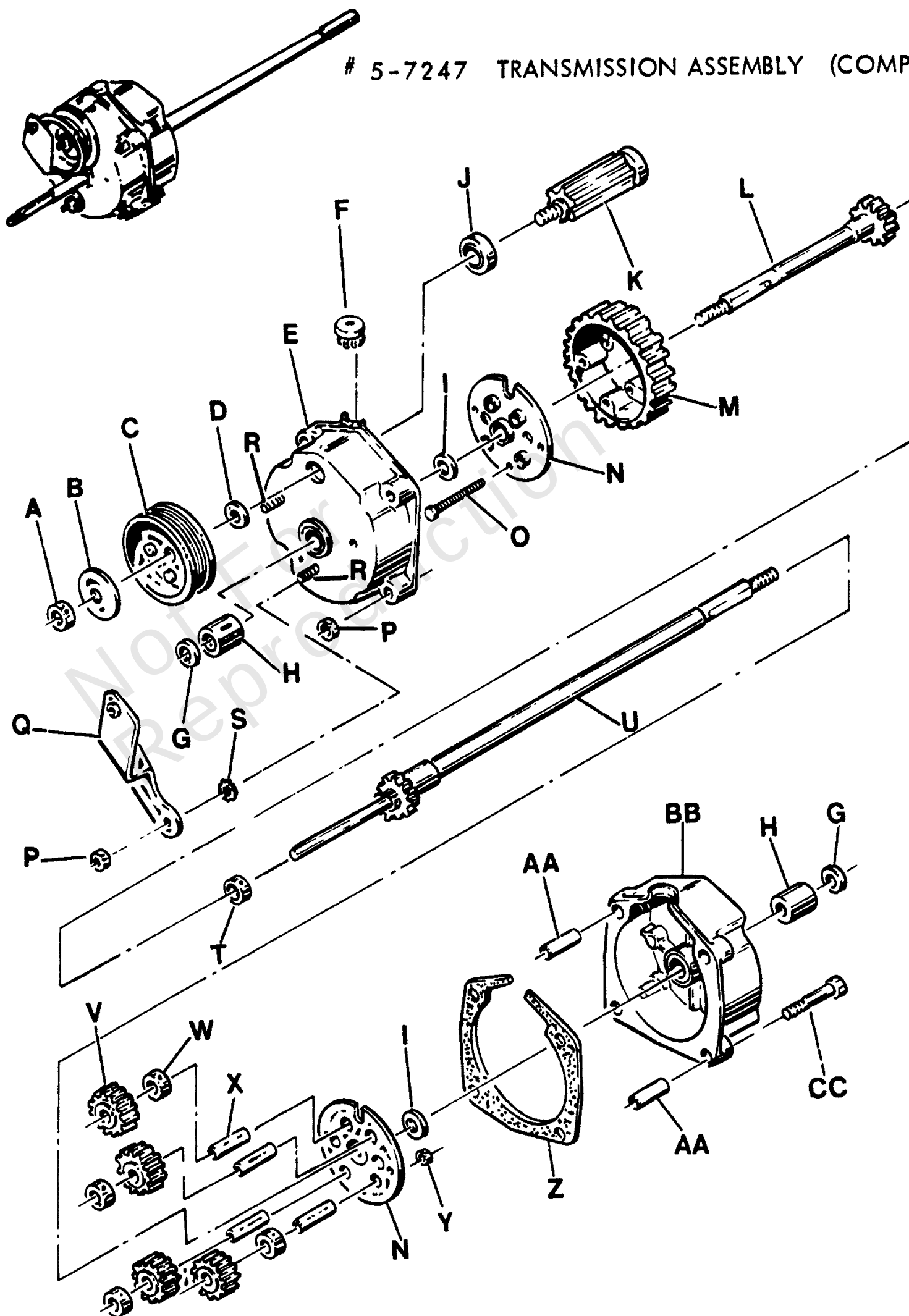
REF NO	PART NO	QTY	DESCRIPTION
A	60296		KIT, V18 Snapperizer (complete)
	7060295		KIT, V21 Snapperizer (complete)
B	31925		BRACKET, V18 Bottom Plate
	7031895		BRACKET, V21 Bottom Plate
C	59527		SCREEN, V18 Snapperizer
	7059528		SCREEN, V21 Snapperizer
D	49575		PLATE, V18 Bottom
	7039580		PLATE, V21 Bottom
E	7090541		SCREW, 1/4-28 x 3/4" Hex Head Cap, Grade 5
F	7091294		WASHER, 1/4" SAE Flat -Was 90055
G	7090053		WASHER, 1/4" Internal Tooth Lock
H	7090095		HN, 1/4F GR5 YZ

Transmission (Differential)

Note: Unless noted otherwise, use the standard torque specifications

CV212PH 21" 3.5 HP Cast Deck Side Discharge Commerical Series 2

5-7247 TRANSMISSION ASSEMBLY (COMPLETE)

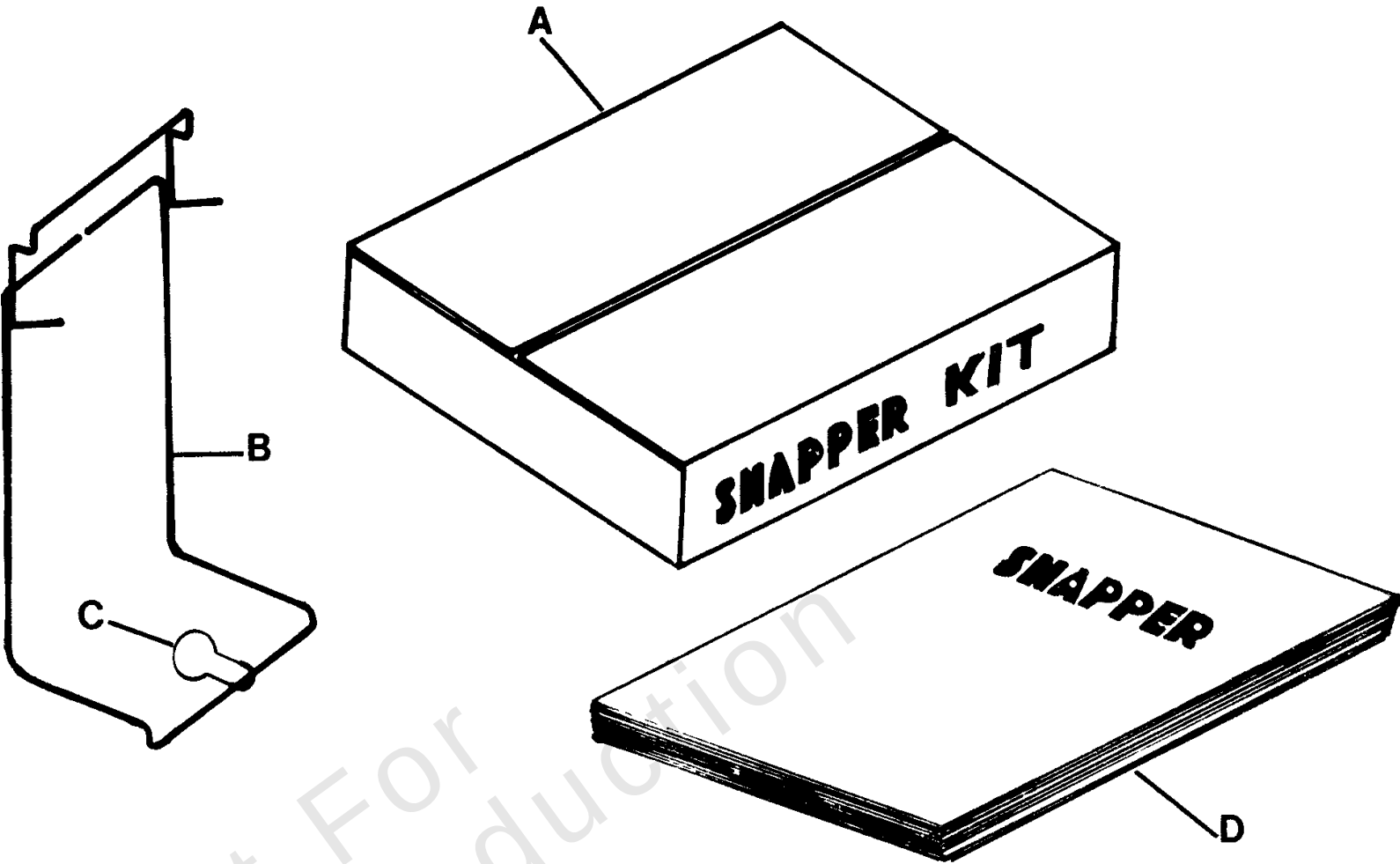


Transmission (Differential)

REF NO	PART NO	QTY	DESCRIPTION
A	7092062		NUT, 5/16-24 Hex Lock, Grade C -Was 11201
B	7011132		WASHER, Spring
C	7019213		PULLEY, Poly V-Belt -Was 12109
D	7011724		WASHER, Spring
E	7051908		HOUSING ASSEMBLY, Right -Was 57246 (Includes G, H, J & R)
F	7016544		PLUG, Housing -Was 11133
G	7012314		SEAL
H	7012507		BEARING, Tapered O.D.
I	7031965		WASHER, Thrust
J	7073963		BEARING, Ball -Was 11767
K	7050767		ASSEMBLY, Gear Input -(Includes item J)
L	7050830		ASSEMBLY, Short Axle
M	7012495		GEAR, 46 Tooth Differential
N	7031970		PLATE
O	7090557		SCREW, #10-32 x 1-1/2" Hex Head Cap, Grade 5
P	7090303		NUT, 1/4-28 Hex Top Lock
Q	7040474		BRACKET, Differential -Was 40447
R	7014858		BOLT, 1 /4-28 x 1" Ribbed -Was 12499
S	7090574		WASHER, 1/4" Internal/External Tooth Lock
T	7012543		SPACER, Axle Gear
U	7050831		ASSEMBLY, Long Axle
V	7021115		GEAR, 12 Tooth Pinion
W	7012500		SPACER, Pinion Gear
X	7011110		SHAFT, Pinion
Y	7090376		NUT, #10-32 Hex Nyloc
Z	7011774		GASKET, Housing
AA	7012512		PIN, 3/8 x 7/16" Roll
BB	7053939		HOUSING ASSEMBLY, Left -Was 57245 (Includes G & H)
CC	7090552		SCREW, 1/4-28 x 1-3/8" Hex Head Cap, Grade 5
57247	7059070		TRANSMISSION ASSEMBLY (COMPLETE) -Was 57247
	7060337		KIT, 46T Gear Repair -NOT SHOWN-REPAIR KIT

Zip Bag Kit & Parts

Note: Unless noted otherwise, use the standard torque specifications CV212PH 21" 3.5 HP Cast Deck Side Discharge Commerical Series 2



Zip Bag Kit & Parts

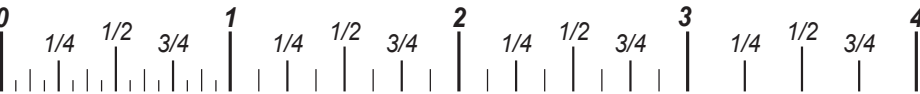
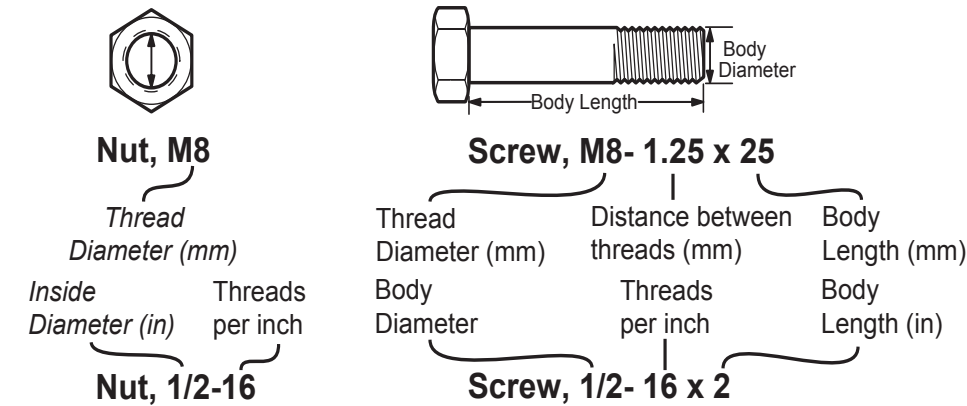
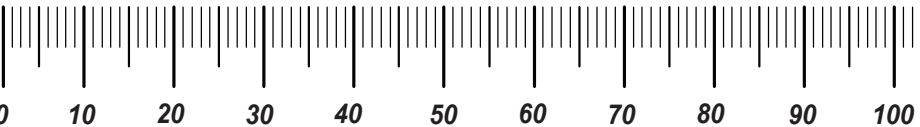
REF NO	PART NO	QTY	DESCRIPTION
A	60254		KIT, Zip Bag
B	37718		HOOP, Zip Bag
C	12189		HOOK, Zip Bag
D	12191		BAG, Snapper Trash -(25 packs of 10 bags each)

Not For Reproduction

Hardware Identification & Torque Specifications

Torque Specification Chart								
FOR STANDARD METRIC MACHINE HARDWARE (Tolerance ± 20%)								
Property Class	 Class 5.6		 Class 8.8		 Class 10.9		 Class 12.9	
Size Of Hardware	in/lbs ft/lbs	Nm.	in/lbs ft/lbs	Nm.	in/lbs ft/lbs	Nm.	in/lbs ft/lbs	Nm.
M3	5.88	.56	13.44	1.28	19.2	1.80	22.92	2.15
M4	13.44	1.28	30.72	2.90	43.44	4.10	52.56	4.95
M5	26.4	2.50	60.96	5.75	5.97	8.10	7.15	9.7
M6	44.64	4.3	7.3	9.9	10.3	14	12.1	16.5
M7	5.2	7.1	12.1	16.5	16.9	23	19.9	27
M8	7.7	10.5	17.7	24	25	34	29	40
M10	15	21	35	48	50	67	59	81
M12	26	36	61	83	86.2	117	103	140
M14	42	58	101	132	136	185	162	220
M16	64	88	147	200	210	285	250	340
M18	89	121	202	275	287	390	346	470
M20	126	171	290	390	405	550	486	660
M22	169	230	390	530	559	745	656	890
M24	217	295	497	375	708	960	840	1140
M27	320	435	733	995	1032	1400	1239	1680
M30	435	590	995	1350	1401	1900	1681	2280
M33	590	800	1349	1830	1902	2580	2278	3090
M36	759	1030	1740	2360	2441	3310	2935	3980
M39	988	1340	2249	3050	3163	4290	3798	5150

The guides and ruler furnished below are designed to help you select the appropriate hardware.



Standard Hardware Sizing

When a washer or nut is identified as 1/2" (M8), this is the *Nominal size*, meaning the *inside diameter* is 1/2 inch (8mm metric thread diameter); if a second number is present it represents the *threads per inch* (distance between threads).

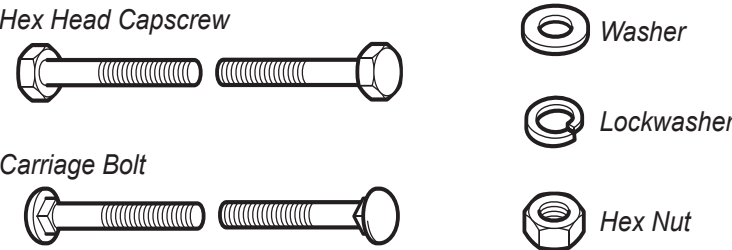
When bolt or capscrew is identified as 1/2 - 16 x 2" (M8 - 1.25 x 50), this means the *Nominal size*, or body diameter is 1/2 inch (8mm metric thread diameter), the second number, 16, represents the *threads per inch*, (*distance between threads*). The final number is the body length of the bolt or screw, 2 inches (50mm).

Torque Specification Chart						
FOR STANDARD MACHINE HARDWARE (Tolerance ± 20%)						
Hardware Grade	 SAE Grade 2		 SAE Grade 5		 SAE Grade 8	
Size Of Hardware	in/lbs ft/lbs	Nm.	in/lbs ft/lbs	Nm.	in/lbs ft/lbs	Nm.
8-32	19	2.1	30	3.4	41	4.6
8-36	20	2.3	31	3.5	43	4.9
10-24	27	3.1	43	4.9	60	6.8
10-32	31	3.5	49	5.5	68	7.7
1/4-20	66	7.6	8	10.9	12	16.3
1/4-28	76	8.6	10	13.6	14	19.0
5/16-18	11	15.0	17	23.1	25	34.0
5/16-24	12	16.3	19	25.8	29	34.0
3/8-16	20	27.2	30	40.8	45	61.2
3/8-24	23	31.3	35	47.6	50	68.0
7/16-14	30	40.8	50	68.0	70	95.2
7/16-20	35	47.6	55	74.8	80	108.8
1/2-13	50	68.0	75	102.0	110	149.6
1/2-20	55	74.8	90	122.4	120	163.2
9/16-12	65	88.4	110	149.6	150	204.0
9/16-18	75	102.0	120	163.2	170	231.2
5/8-11	90	122.4	150	204.0	220	299.2
5/8-18	100	136	180	244.8	240	326.4
3/4-10	160	217.6	260	353.6	386	525.0
3/4-16	180	244.8	300	408.0	420	571.2
7/8-9	140	190.4	400	544.0	600	816.0
7/8-14	155	210.8	440	598.4	660	897.6
1-8	220	299.2	580	788.8	900	1,244.0
1-12	240	326.4	640	870.4	1,000	1,360.0

NOTES

- These torque values are to be used for all hardware excluding: locknuts, self-tapping screws, thread forming screws, sheet metal screws and socket head setscrews.
- Recommended seating torque values for locknuts:
 - for prevailing torque locknuts - use 65% of grade 5 torques.
 - for flange whizlock nuts and screws - use 135% of grade 5 torques.
- Unless otherwise noted on assembly drawings, all torque values must meet this specification.

Common Hardware Types



Wrench & Fastener Size Guide

 1/4" Bolt or Nut Wrench—7/16"	 5/16" Bolt or Nut Wrench—1/2"	 3/8" Bolt or Nut Wrench—9/16"	 7/16" Bolt or Nut Wrench (Bolt)—5/8" Wrench (Nut)—11/16"	 1/2" Bolt or Nut Wrench—3/4"
M6 Bolt or Nut Wrench—10mm	M8 Bolt or Nut Wrench—13mm	M10 Bolt or Nut Wrench—17mm	M12 Bolt or Nut Wrench—19mm	M14 Bolt or Nut Wrench—22mm

