



Parts Catalog 8-3112

COMPACT TRACTORS
WITH **VANGUARD** ENGINES

3012 - PIN 14145700 AND AFTER

3014 - PIN 14146700 AND AFTER

3016 - PIN 14147800 AND AFTER

3018 - ALL

4016 - PIN 14170800 AND AFTER

INDEX

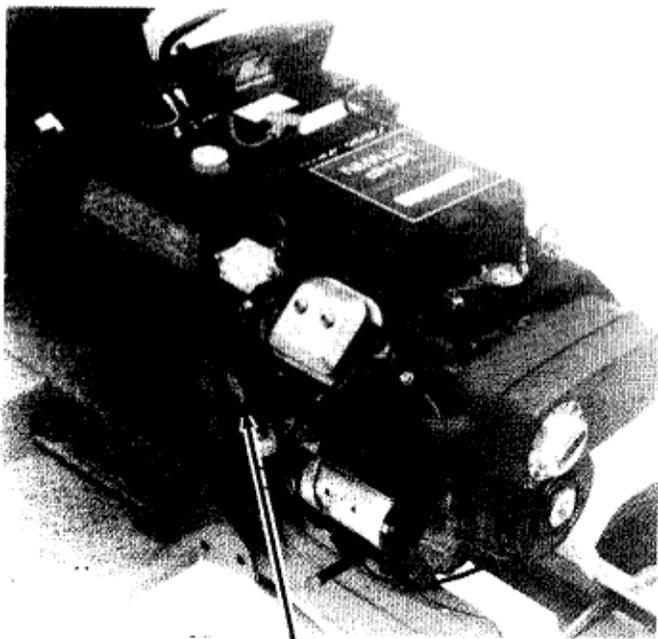
PAINT

ENGINES

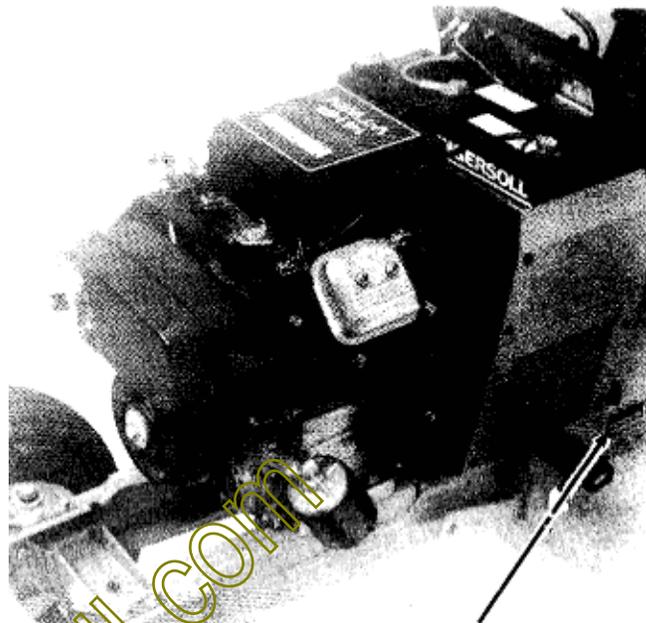
GENERAL INFO



**PRODUCT IDENTIFICATION NUMBERS (P.I.N.)
OR SERIAL NUMBERS (S/N)**



ENGINE MODEL, SERIAL AND
SPECIFICATION NUMBERS



TRACTOR MODEL AND P.I.N.
OR SERIAL NUMBERS

ENGINE IDENTIFICATION

TRACTOR MODEL

3012

3014

3016, 4016

3018

ENGINE MODEL

C33454
BRIGGS & STRATTON
VANGUARD 12 HP
MODEL 290447
TYPE 0411

C43283
BRIGGS & STRATTON
VANGUARD 14 HP
MODEL 294447
TYPE 0412 AND 0445

C43249
BRIGGS & STRATTON
VANGUARD 16 HP
MODEL 303447
TYPE 0414 AND 0447

C44853
BRIGGS & STRATTON
VANGUARD 18 HP
MODEL 350447
TYPE 0139

NOTE: In this catalog there are references to serial numbers. To order the correct part use these serial numbers as a guide.

INDEX

There is an index at the front and rear of this catalog. The front index is an alphabetical index of the major groups or assemblies.

The rear index is a numerical index of the part numbers and pages on which these numbers are shown.

ILLUSTRATION

Each illustration in this catalog shows a group of parts or components. These parts and components are aligned approximately as the parts and components on your machine. Each part and component in an illustration has a reference number. These reference numbers are in a list on the page opposite of the illustration. Next to the reference number is the part number, description and required quantity of the part shown in the illustration.

UAR - "Use as required" indicates that the part quantity is variable.

NSS - "Not sold separately" indicates that the part is only available as component of an assembly or the part must be purchased locally. If the part is an assembly component, the description will be indented under the assembly description in the parts list.

O/L - "Obtain locally"

- "Footnotes" are added to a part number when more information is needed for identification. They only relate to the part numbers indicated. All orders must include the following information:

PARTS ORDERS

1. Correct part number.
2. Complete description of part or component.
3. Total quantity of each part or component.
4. Product model number.
5. All necessary product identification numbers.
6. Method for sending the parts.
7. Complete and correct address.

CATALOG REVISIONS

As the product changes, new pages will be available for your catalog. A notice will be issued.

IMPORTANT: Put all revisions into the catalog as soon as possible.

RIGHT HAND AND LEFT HAND IDENTIFICATION

The words right hand (RH) and left hand (LH) as used in this catalog indicate the direction while you are in the operator's seat in the normal operating position.

INDENTED DESCRIPTIONS

An assembly can have many components. The components of an assembly are indicated by an indented description. The quantity for an indented part is the total needed for that complete assembly. See the example.

| REF. | PART NO. | DESCRIPTION | REQ'D |
|------|----------|--------------------------------------|-------|
| | C 55159 | CYLINDER ASSY - rear steering | 1 |
| 28 | C 56208 | SOCKET ASSY - rear cylinder | 1 |
| 29 | C 55956 | PLUG - adjusting, socket assy | 1 |
| 30 | C 55957 | SEAT- socket, ball..... | 2 |
| 31 | C 56210 | SPRING-socket | 1 |
| 32 | C 56209 | SEAT - socket spring | 1 |
| 33 | G 45175 | CLAMP ASSY - socket assy | 1 |
| | 16- 836 | BOLT-1/2"x2-1/4" N.F. hex..... | 1 |
| 34 | 132- 104 | PIN-cotter, 3/16"x3"..... | 1 |
| 35 | C 55889 | STUD - ball, socket & cylinder | 2 |
| 36 | 13- 410 | BOLT-1/4"x5/8"N.C.,hex | 4 |
| 37 | 92- 4 | LOCK WASHER - 1/4"SAE | 4 |

Alphabetical Index

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| Crankcase Cover | 9 | Shields | 15 |
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| Cylinder Head | 7 | Spark Plug | 51-53 |
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| Filter, Fuel | 19 | | |

BASIC TRACTOR SECTION

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Ingersoll

Paint & Oil

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PAINT

Power Red Gloss

16-ounce Aerosol Can..... C28484
Quart C28485

Power White

16-ounce Aerosol Can..... C28812
Quart C28845

Power Yellow (Older 600 Series)

16-ounce Aerosol Can..... C28847
Quart C28848

Power Tan (6000 Series)

16-ounce Aerosol Can..... C28853
Quart C28854

Desert Sunset (Older 400 Series)

16-ounce Aerosol Can..... C28846
Quart C28852

Black, Semi Gloss

16-ounce Aerosol Can..... C28849
Quart C28850

Black, High Heat

16-ounce Aerosol Can..... C28851

Silver

16-ounce Aerosol Can..... C30870

M & W Plum

16-ounce Aerosol Can..... 10-5688

Grazer Grey

16-ounce Aerosol Can..... C38444
Quart C38982

Odyssey Charcoal Grey

16-ounce Aerosol Can..... C47171

HYDRAULIC OIL

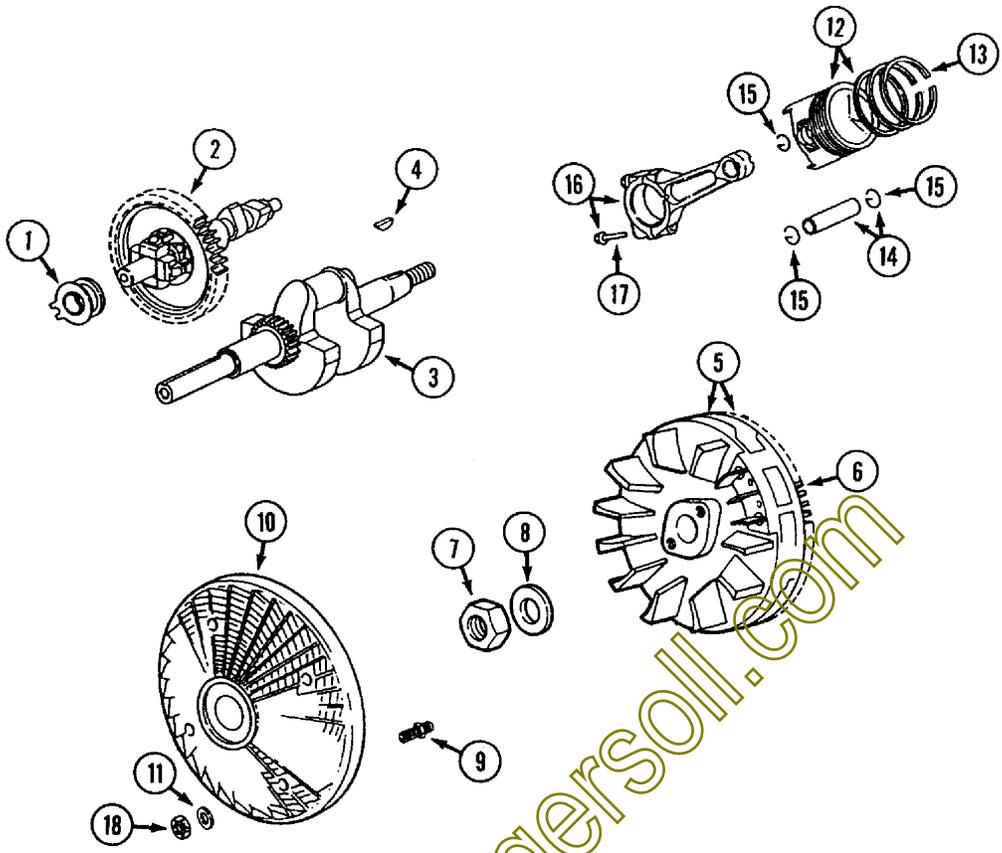
20W40, Use 32 Degrees and above.

12-Quart Case..... C32778

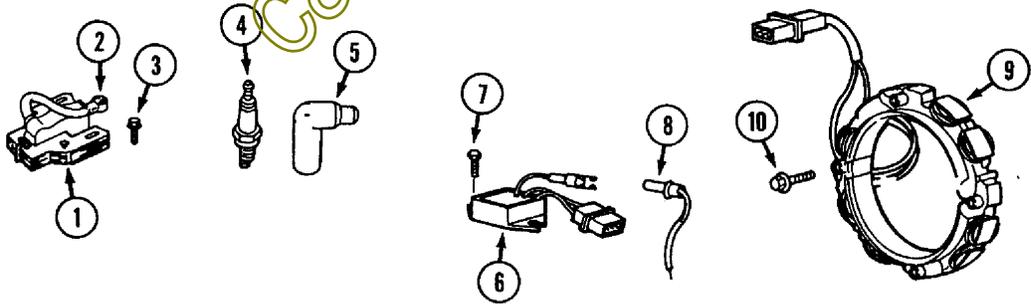
5W20, Use Below 32 Degrees.

12-Quart Case..... C32777

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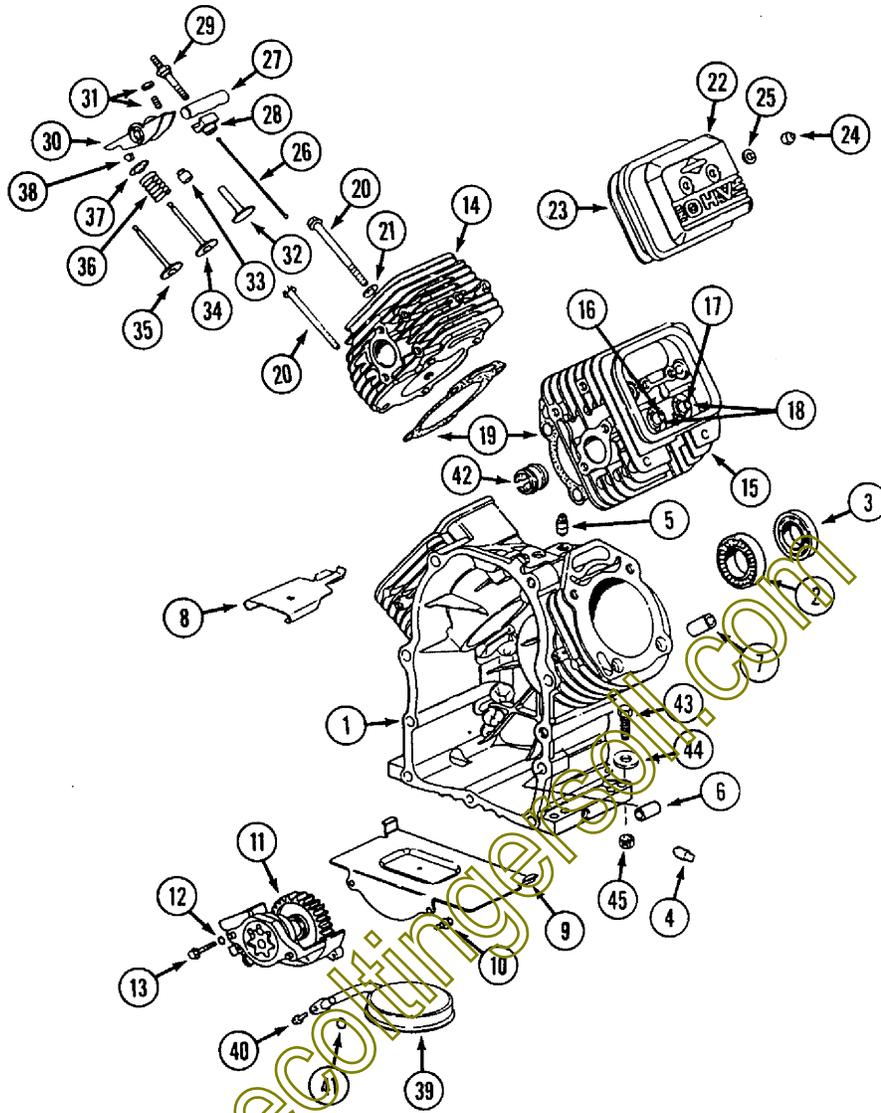
INDEX**MODEL 3012, 3014, 3016 AND 4016 COMPACT TRACTORS****FLYWHEEL, CRANKSHAFT, CAMSHAFT AND PISTONS**

| REF. | PART NO. | DESCRIPTION | REQ'D |
|------|----------|--|-------|
| 1 | C34371 | SLIDER - governor..... | 1 |
| 2 | C34231 | CAMSHAFT | 1 |
| 3 | C34204 | CRANKSHAFT | 1 |
| 4 | C34211 | KEY - flywheel..... | 1 |
| 5 | C34210 | FLYWHEEL - includes ring gear..... | 1 |
| 6 | C34331 | GEAR - ring..... | 1 |
| 7 | C34288 | NUT - flywheel | 1 |
| 8 | C34237 | WASHER - flywheel | 1 |
| 9 | C33504 | STUD - screen mounting..... | 4 |
| 10 | C33503 | SCREEN - flywheel | 1 |
| 11 | 195-518 | WASHER-1/4" | 4 |
| 12 | C34212 | PISTON ASSEMBLY - standard (includes rings)..... | 2 |
| 12 | C34213 | PISTON ASSEMBLY - .010" oversize (includes rings)..... | 2 |
| 12 | C34214 | PISTON ASSEMBLY - .020" oversize (includes rings)..... | 2 |
| 12 | C34215 | PISTON ASSEMBLY - .030" oversize (includes rings)..... | 2 |
| 13 | C34216 | RING SET - piston, standard..... | 1 |
| 13 | C34217 | RING SET - piston, .010", oversize | 1 |
| 13 | C34218 | RING SET - piston, .020" oversize | 1 |
| 13 | C34219 | RING SET - piston, .030" oversize | 1 |
| 14 | C34221 | PIN - piston, standard..... | 2 |
| 15 | C34220 | LOCK - piston pin | 2 |
| 16 | C34222 | ROD - connecting..... | 2 |
| 17 | C34223 | BOLT - connecting rod | 2 |
| 18 | 131-1102 | NUT - 1/4" - 20 lock | 4 |

INDEX**IGNITION AND CHARGING SYSTEMS**

| | | | |
|----|----------|---------------------------------|---|
| 1 | C34289 | ARMATURE - magneto..... | 2 |
| 2 | BR221798 | TERMINAL - ignition cable | 1 |
| 3 | C34290 | SCREW - mounting..... | 4 |
| 4 | C34291 | SPARK PLUG | 2 |
| 5 | C34324 | BOOT - spark plug..... | 2 |
| 6 | C34304 | REGULATOR - alternator | 1 |
| 7 | C34310 | SCREW - mounting..... | 2 |
| 8 | C29866 | CONNECTOR - harness..... | 1 |
| 9 | C34303 | STATOR - alternator | 1 |
| 10 | C34290 | SCREW - mounting..... | 4 |

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MODEL 3012, 3014, 3016 AND 4016, COMPACT TRACTORS

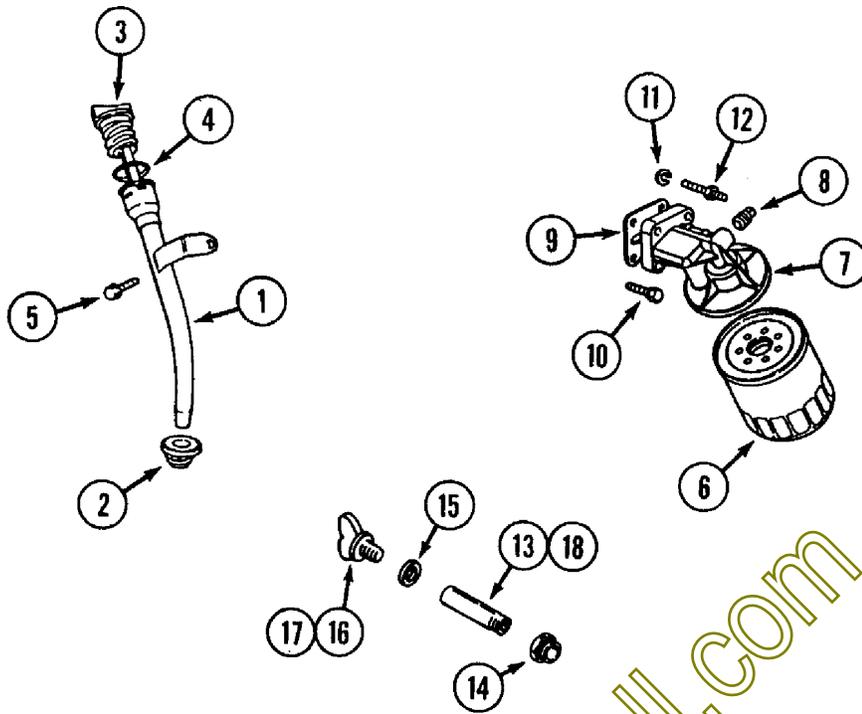
CYLINDER BLOCK AND CYLINDER HEADS

| REF. | PART NO. | DESCRIPTION | REQ'D |
|------|-----------|--|-------|
| 1 | C34190 | BLOCK - cylinder | 1 |
| 2 | C34191 | BEARING - main | 1 |
| 3 | C34192 | SEAL-oil | 1 |
| 4 | C34203 | PLUG-pipe | 1 |
| 5 | C34239 | PLUG-pipe | 1 |
| 6 | C34327 | DOWEL - crankcase | UAR |
| 7 | C34328 * | DOWEL - cylinder head | UAR |
| 8 | C34317 | BAFFLE - breather | 1 |
| 9 | C34227 | PLATE - windage | 1 |
| 10 | C34279 | SCREW - sem | 2 |
| 11 | C34370 | PUMP-oil | 1 |
| 12 | C34246 | "0" RING - pump | 2 |
| 13 | C34338 | SCREW - pump mounting | 2 |
| 14 | C34193 * | HEAD - cylinder R.H., No. 1 | 1 |
| 14 | C40932 ** | HEAD - cylinder R.H., No. 1 | 1 |
| 15 | C34194 * | HEAD - cylinder L.H., No. 2 | 1 |
| 15 | C40933 ** | HEAD - cylinder L.H., No. 2 | 1 |
| 16 | C34348 | SEAT - exhaust valve | 2 |
| 17 | C34347 | SEAT - intake valve | 2 |
| 18 | C34349 | GUIDE - valve | 4 |
| 19 | C34196 * | GASKET - head | 2 |
| 19 | C40934 ** | GASKET - head | 2 |
| 20 | C34202 | BOLT - head | 8 |
| 21 | C34195 | WASHER - head bolt | 8 |
| 22 | C34368 | COVER - valve (No. 2 cylinder) L.H. | 1 |
| 22 | C34369 | COVER - valve (No. 1 cylinder) R.H. | 1 |
| 23 | C34367 | GASKET - valve cover | 2 |
| 24 | C34262 | NUT - lock, valve cover | 4 |
| 25 | C34261 | WASHER | 4 |
| 26 | C34372 | ROD - push, intake | 2 |
| 26 | C34373 | ROD - push, exhaust | 2 |
| 27 | C34377 | SHAFT - rocker arm | 2 |
| 28 | C34378 | SUPPORT - rocker arm | 4 |
| 29 | C34259 | STUD - rocker arm | 4 |
| 30 | C34376 | ARM - rocker | 4 |
| 31 | C34265 | SCREW AND NUT - valve adjust | 4 |
| 32 | C34230 | TAPPET - valve | 4 |
| 33 | C34346 | SEAL - valve guide | 4 |
| 34 | C34224 | VALVE - exhaust | 2 |
| 35 | C34225 | VALVE - intake | 2 |
| 36 | C34226 | SPRING - valve | 4 |
| 37 | C34228 | RETAINER - valve spring | 4 |
| 38 | C34229 | RETAINER - valve | 4 |
| 39 | C34272 | SCREEN - oil pick-up | 1 |
| 40 | C34339 | SCREW - mounting | 1 |
| 41 | C34248 | "0" RING - pick-up tube | 1 |
| 42 | C34342 | LINER - exhaust port | 2 |
| 43 | 113-120 | BOLT - 5/16"-18x1-3/4" | 4 |
| 44 | 195-521 | WASHER - .34" x .69" | 4 |
| 45 | 131-69 | NUT - lock 5/16" - 18 | 4 |

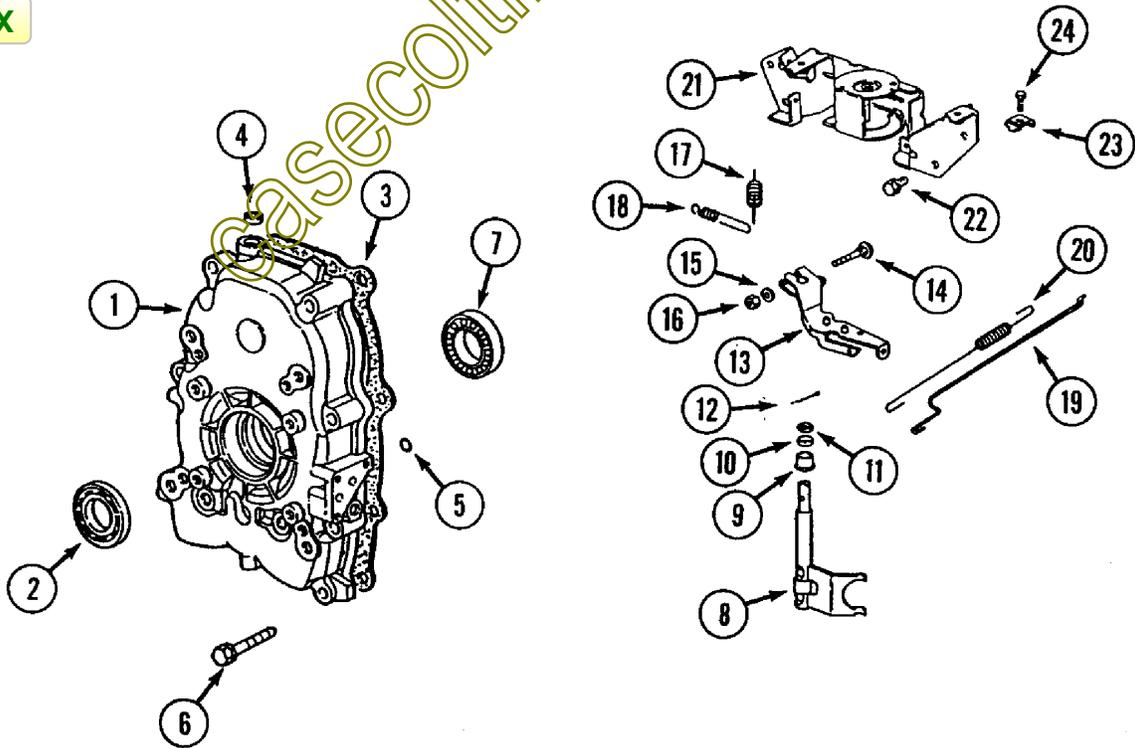
**Use after Engine
Date Code
3016 - 90091000
4016 - 90091000

* Use before Engine
Date Code
3012 - all
3014 - all
3016 - 90091100
4016 - 90091100

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MODEL 3012, 3014, 3016 AND 4016 COMPACT TRACTORS

OIL DRAIN, OIL FILTER AND FILLER TUBE

| REF. | PART NO. | DESCRIPTION | REQ'D |
|------|-------------|--------------------------------|-------|
| 1 | C34309 + | TUBE - oil filler | 1 |
| 1 | C40931 ++ | TUBE - oil filler | 1 |
| 2 | C34308 | SEAL - filler tube | 1 |
| 3 | C34307 + | DIPSTICK..... | 1 |
| 3 | C40930 ++ | DIPSTICK..... | 1 |
| 4 | C34340 | "O" RING - filler tube | 1 |
| 5 | C34276 | SCREW | 1 |
| 6 | C34374 + | FILTER - oil | 1 |
| 6 | C34544 ++ | FILTER - oil | 1 |
| 7 | C34375 | ADAPTER - oil filter..... | 1 |
| 8 | C34239 | PLUG-pipe..... | 1 |
| 9 | C34361 | GASKET - adapter | 1 |
| 10 | C34362 | SCREW - adapter | 3 |
| 11 | C34264 | LOCKWASHER..... | 1 |
| 12 | C34260 | STUD - adapter | 1 |
| 13 | C33450 * | NIPPLE - oil drain..... | 1 |
| 14 | 221-86 * | REDUCER - pipe 3/8" - 14 | 1 |
| 15 | C14906 * | GASKET - oil drain..... | 1 |
| 16 | C14399 * | PLUG - oil drain (shown)..... | 1 |
| 17 | 218-5154 ** | PLUG -oil drain..... | 1 |
| 18 | C37148 ** | NIPPLE - pipe 2" long..... | 1 |

* Use before PIN:

+ Use before PIN:

** Use PIN and after:

++ Use PIN and after:

3012 - 14167800

3012 - all before

3014 - 14168800

3014 - all before

3016 - 14169500

3016 - 14169725

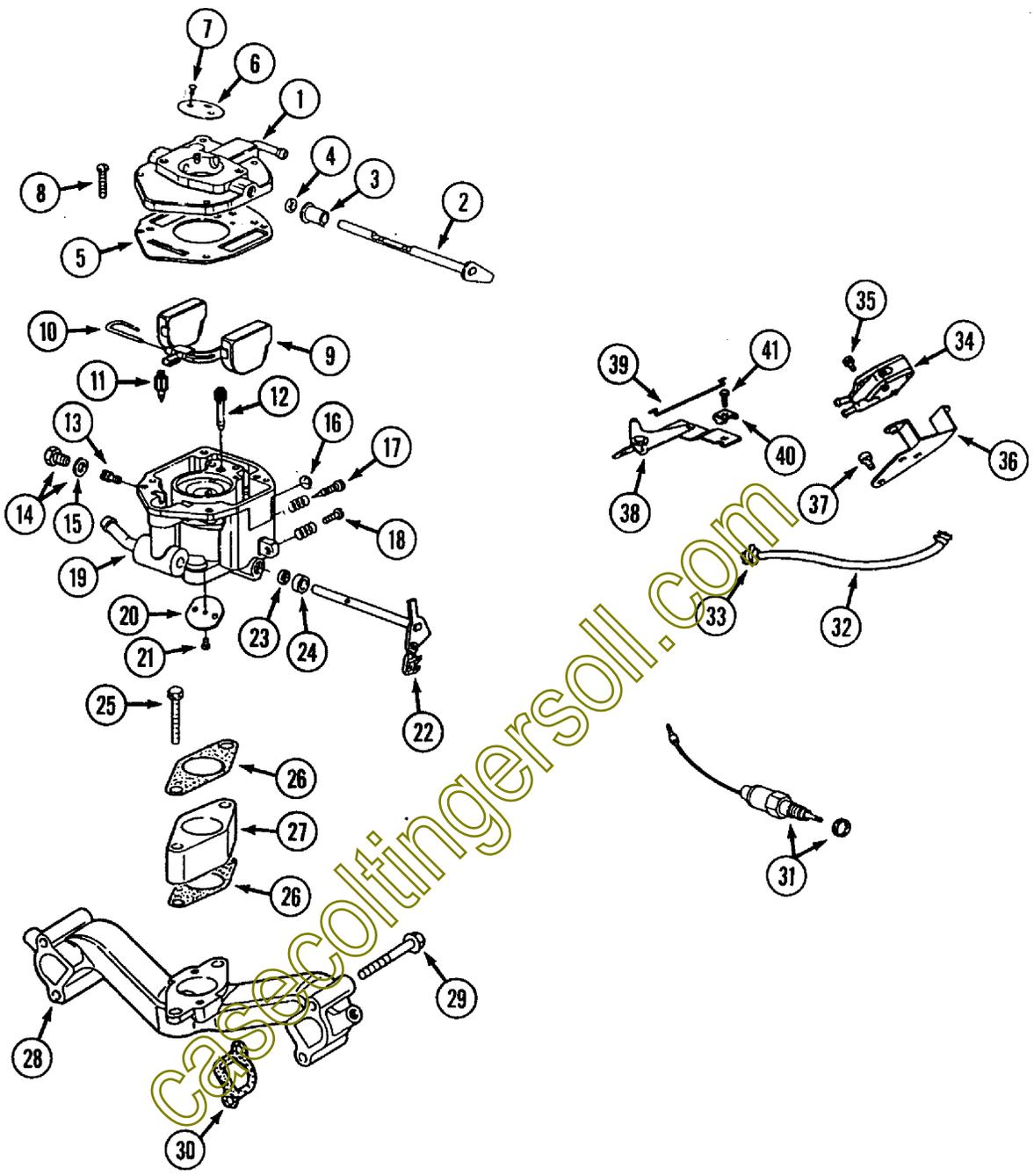
4016 - all after

4016 - 1417045

CRANKCASE COVER AND GOVERNOR

| | | | |
|----|----------|----------------------------------|---|
| 1 | C34207 | COVER - crankcase | 1 |
| 2 | C34208 | SEAL - oil | 1 |
| 3 | C34201 | GASKET - crankcase cover | 1 |
| 4 | C34323 | WASHER - governor shaft..... | 1 |
| 5 | C34247 | "O" RING - crankcase cover | 1 |
| 6 | C34209 | BOLT - crankcase cover | 8 |
| 7 | C34206 | BEARING - crankcase cover | 1 |
| 8 | C34322 | SHAFT - governor | 1 |
| 9 | C34314 | BUSHING - governor shaft | 1 |
| 10 | C34315 | BUSHING - governor shaft | 1 |
| 11 | C34240 | SEAL - governor shaft..... | 1 |
| 12 | C34321 | PIN - cotter..... | 1 |
| 13 | C34270 | LEVER ASSEMBLY - governor | 1 |
| 14 | C34316 | BOLT - lever..... | 1 |
| 15 | C34275 | WASHER - lever | 1 |
| 16 | C34319 | NUT - lever..... | 1 |
| 17 | C34267 | SPRING - governor..... | 1 |
| 18 | C34397 | SPRING - governed idle | 1 |
| 19 | C34266 | LINK - governor..... | 1 |
| 20 | C34271 | SPRING - governor link | 1 |
| 21 | C34269 | BRACKET - governor control..... | 1 |
| 22 | C34281 | SCREW - bracket..... | 4 |
| 23 | BR221535 | CLAMP - casing | 1 |
| 24 | C34292 | SCREW - clamp..... | 1 |

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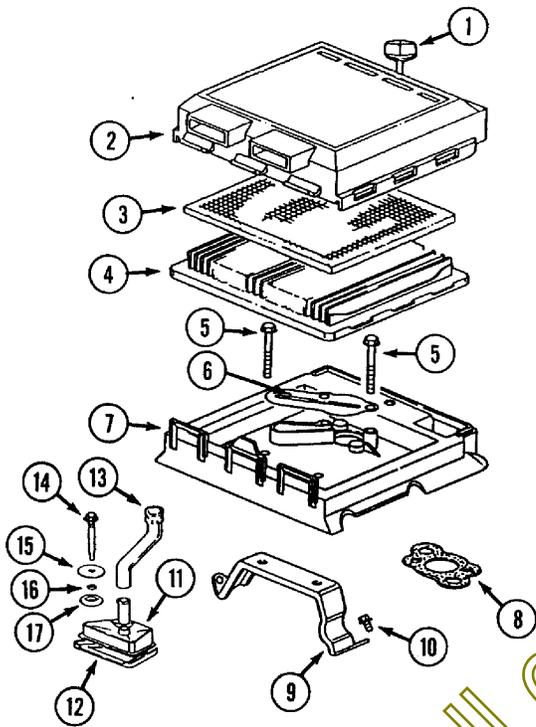


MODEL 3012, 3014, 3016 AND 4016 COMPACT TRACTORS

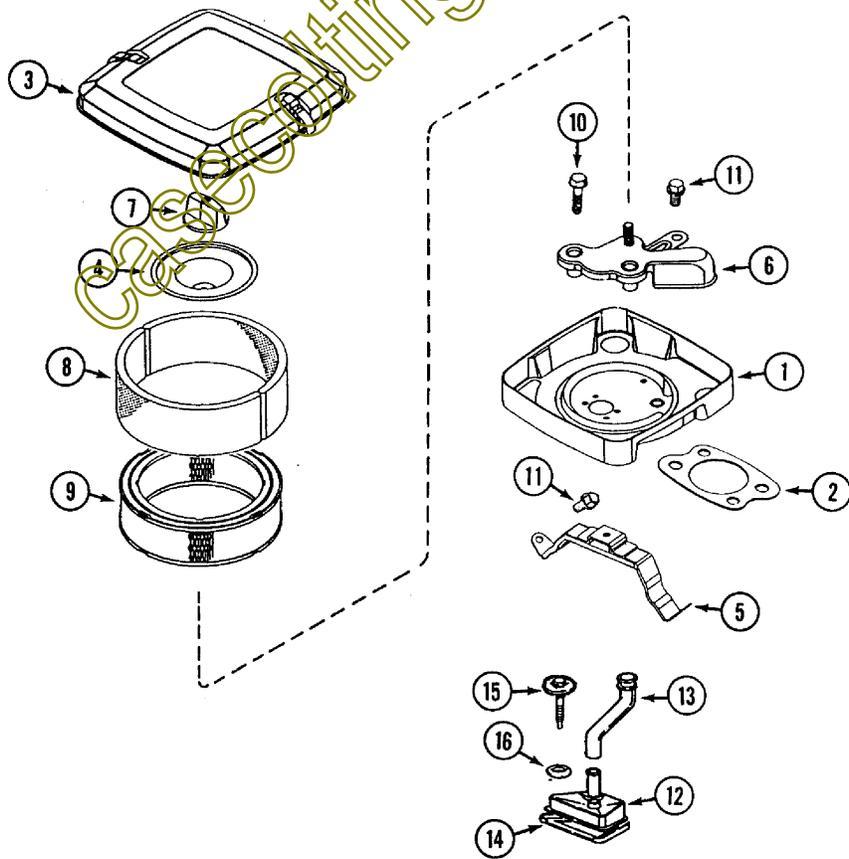
CARBURETOR, MANIFOLD AND FUEL PUMP

| REF. | PART NO. | DESCRIPTION | REQ'D |
|------|----------|--|-------|
| | C34254 | CARBURETOR - 3012, 3014..... | 1 |
| | C34255 | CARBURETOR - 3016 (used with square air filter)..... | 1 |
| 1 | C40919 | BODY - upper (used with round air filter)..... | 1 |
| 1 | C34241 | BODY - upper (used with square air filter)..... | 1 |
| 2 | C34258 | SHAFT - choke..... | 1 |
| 3 | NSS | COLLAR - choke (use overhaul kit)..... | 1 |
| 4 | NSS | SEAL - shaft (use overhaul kit)..... | 1 |
| 5 | NSS | GASKET - body (use overhaul kit)..... | 1 |
| 6 | C34245 | VALVE - choke..... | 1 |
| 7 | C34242 | SCREW - valve..... | 2 |
| 8 | C34250 | SCREW - body..... | 4 |
| 9 | C34244 | FLOAT - fuel..... | 1 |
| 10 | NSS | PIN - float hinge (use overhaul kit)..... | 1 |
| 11 | NSS | VALVE - fuel inlet (use overhaul kit)..... | 1 |
| 12 | NSS | JET - slow speed (use overhaul kit)..... | 1 |
| 13 | NSS | JET - main 3012, 3014 (use overhaul kit)..... | 1 |
| 13 | NSS | JET - main 3016 (use over haul kit)..... | 1 |
| 14 | C34355 | PLUG-jet..... | 1 |
| 15 | NSS | GASKET - plug..... | 1 |
| 16 | NSS | PLUG - welch (use overhaul kit)..... | 1 |
| 17 | NSS | VALVE - idle adjust (use overhaul kit)..... | 1 |
| 18 | C34243 | SCREW AND SPRING - throttle adjust..... | 1 |
| 19 | NSS | BODY - lower (use complete carburetor)..... | 1 |
| 20 | C34256 | VALVE - throttle..... | 1 |
| 21 | C34242 | SCREW - valve..... | 2 |
| 22 | C34257 | SHAFT - throttle..... | 1 |
| 23 | NSS | SEAL - shaft (use overhaul kit)..... | 1 |
| 24 | NSS | COLLAR - throttle..... | 1 |
| 25 | C34235 | BOLT - mounting..... | 2 |
| 26 | C34233 | GASKET - mounting..... | 2 |
| 27 | C34253 | SPACER - carburetor..... | 1 |
| 28 | C34232 | MANIFOLD intake..... | 1 |
| 29 | C34236 | BOLT - manifold..... | 4 |
| 30 | C34234 | GASKET - manifold..... | 2 |
| 31 | C34354 | SOLENOID - fuel shut off..... | 1 |
| 32 | NSS | HOSE - vacuum (use C28937 cut to length)..... | 1 |
| 33 | 214 -251 | CLAMP-hose..... | UAR |
| 34 | C34300 | PUMP - fuel..... | 1 |
| 35 | C34339 | SCREW - mounting..... | 2 |
| 36 | C34333 | BRACKET - fuel pump (3012, 3014)..... | 1 |
| 36 | C34334 | BRACKET - fuel pump (3016)..... | 1 |
| 37 | C34279 | SCREW - bracket..... | 2 |
| 38 | C34274 | BRACKET - choke control..... | 1 |
| 39 | C34268 | LINK - choke..... | 1 |
| 40 | BR221535 | CLAMP - casing..... | 1 |
| 41 | C34292 | SCREW - clamp..... | 1 |
| | C34251 | KIT - carburetor overhaul (3012, 3014)..... | 1 |
| | C34252 | KIT - carburetor overhaul (3016)..... | 1 |
| | C40920 | CARBURETOR - 3016 (used with round air filter)..... | 1 |

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MODEL 3012, 3014, 3016 AND 4016 COMPACT TRACTORS

AIR CLEANER AND CRANKCASE BREATHER

(Square Air Filter Style)

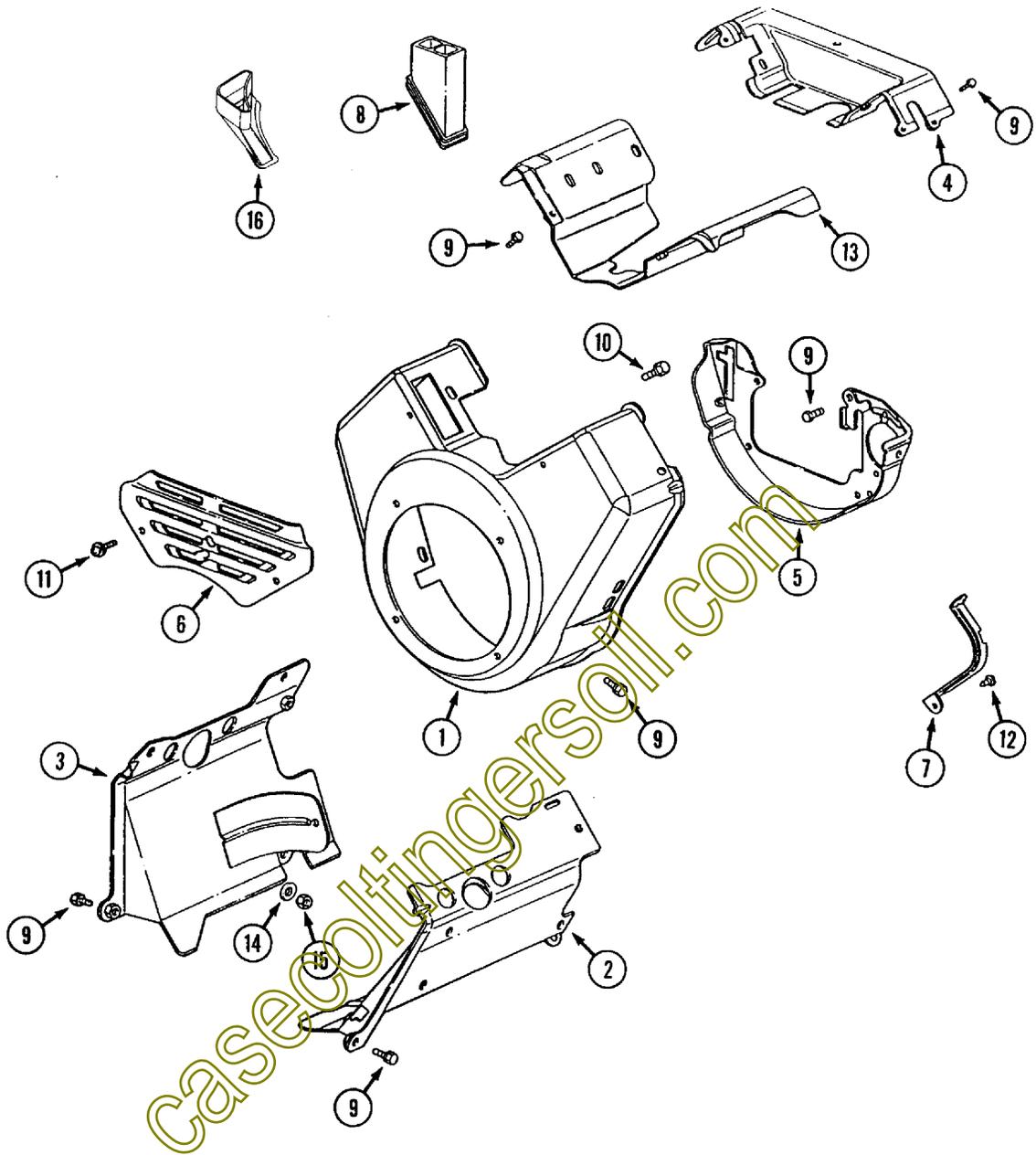
| REF. | PART NO. | DESCRIPTION | REQ'D |
|------|----------|----------------------------|-------|
| 1 | C34359 | SCREW - mounting..... | 1 |
| 2 | C34358 | COVER - air cleaner..... | 1 |
| 3 | C34363 | PRECLEANER..... | 1 |
| 4 | C34357 | FILTER - air..... | 1 |
| 5 | C34360 | BOLT - mounting..... | 2 |
| 6 | C34366 | DEFLECTOR - breather..... | 1 |
| 7 | C34356 | BASE - air cleaner..... | 1 |
| 8 | C34312 | GASKET - air cleaner..... | 1 |
| 9 | C34341 | BRACKET - air cleaner..... | 1 |
| 10 | C34279 | SCREW - bracket..... | 2 |
| 11 | C34197 | BREATHER ASSEMBLY..... | 1 |
| 12 | C34198 | GASKET - breather..... | 1 |
| 13 | C34200 | TUBE - breather..... | 1 |
| 14 | C34190 | SCREW - mounting..... | 1 |
| 15 | C34298 | WASHER..... | 1 |
| 16 | C34329 | SEAL - breather screw..... | 1 |
| 17 | C34330 | SEAL - breather screw..... | 1 |

AIR CLEANER AND CRANKCASE BREATHER

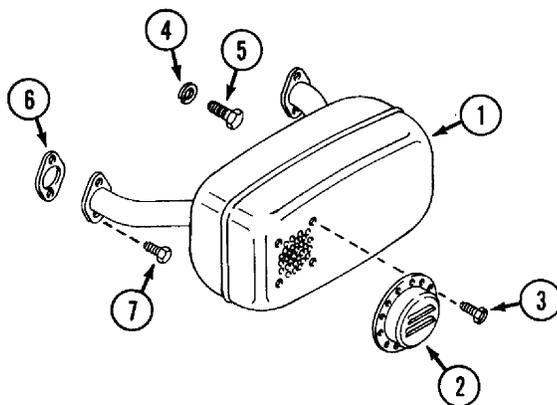
(Round Air Filter Style)

| REF. | PART NO. | DESCRIPTION | REQ'D |
|------|----------|--------------------------------|-------|
| 1 | C40921 | BASE - air cleaner..... | 1 |
| 2 | C40923 | GASKET - air cleaner..... | 1 |
| 3 | C40924 | COVER - air cleaner..... | 1 |
| 4 | C40925 | PLATE - air cleaner..... | 1 |
| 5 | C40926 | BRACKET - air cleaner..... | 1 |
| 6 | C40927 | SHIELD - carburetor inlet..... | 1 |
| 7 | C34680 | KNOB - air cleaner..... | 1 |
| 8 | C37543 | PRECLEANER..... | 1 |
| 9 | C37544 | FILTER - air..... | 1 |
| 10 | C34338 | BOLT..... | 2 |
| 11 | C34279 | BOLT..... | 3 |
| 12 | C34381 | BREATHER ASSEMBLY..... | 1 |
| 13 | C34200 | TUBE - breather..... | 1 |
| 14 | C34198 | GASKET - breather..... | 1 |
| 15 | C34382 | SCREW - mounting..... | 1 |
| 16 | C34330 | SEAL - breather screw..... | 1 |

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BLOWER HOUSING AND ENGINE AIR GUIDES

| REF. | PART NO. | DESCRIPTION | REQ'D |
|------|-----------|------------------------------------|-------|
| 1 | C40922 | HOUSING - blower..... | 1 |
| 2 | C34343 + | COVER - air guide (cyl. No.1)..... | 1 |
| 2 | C40936 ++ | COVER - air guide (cyl. No.1)..... | 1 |
| 3 | C34344 + | COVER - air guide (cyl. No.2)..... | 1 |
| 3 | C40937 ++ | COVER - air guide (cyl. No.2)..... | 1 |
| 4 | C34280 * | COVER - valley extension..... | 1 |
| 4 | C40935 ** | COVER - valley extension..... | 1 |
| 5 | C34318 | PLATE - back..... | 1 |
| 6 | C34350 | COVER - carburetor..... | 1 |
| 7 | C34332 | SHIELD - starter..... | 1 |
| 8 | C34365 | TUBE - air inlet..... | 1 |
| 9 | C34279 | SCREW - mounting..... | UAR |
| 10 | C34281 | SCREW - blower housing..... | UAR |
| 11 | C34325 | SCREW - carburetor cover..... | 2 |
| 12 | C34301 | SCREW - shield, starter..... | 2 |
| 13 | C34345 | COVER - valley..... | 1 |
| 14 | C34264 | LOCKWASHER..... | 1 |
| 15 | C34299 | NUT - hex..... | 1 |
| 16 | C43441 | TUBE - air inlet..... | 1 |

+ Use before Engine
Date Code
3012 - all
3014 - all
3016 - 90111700
4016 - 90111700

* Use PIN and after:
** Use before PIN:
3012 - all before
3014 - all before
3016 - 14169725
4016 - 14171045

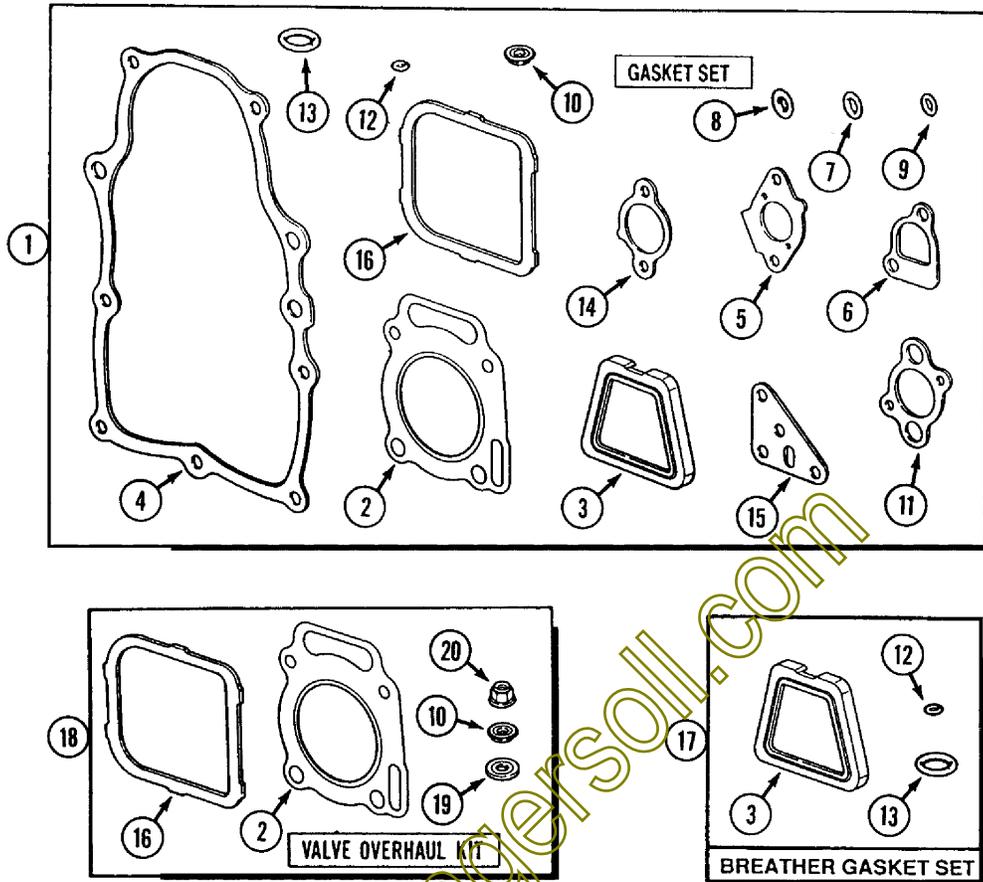
++ Use after Engine
Date Code
3016 - 90111600
4016 - 90111600

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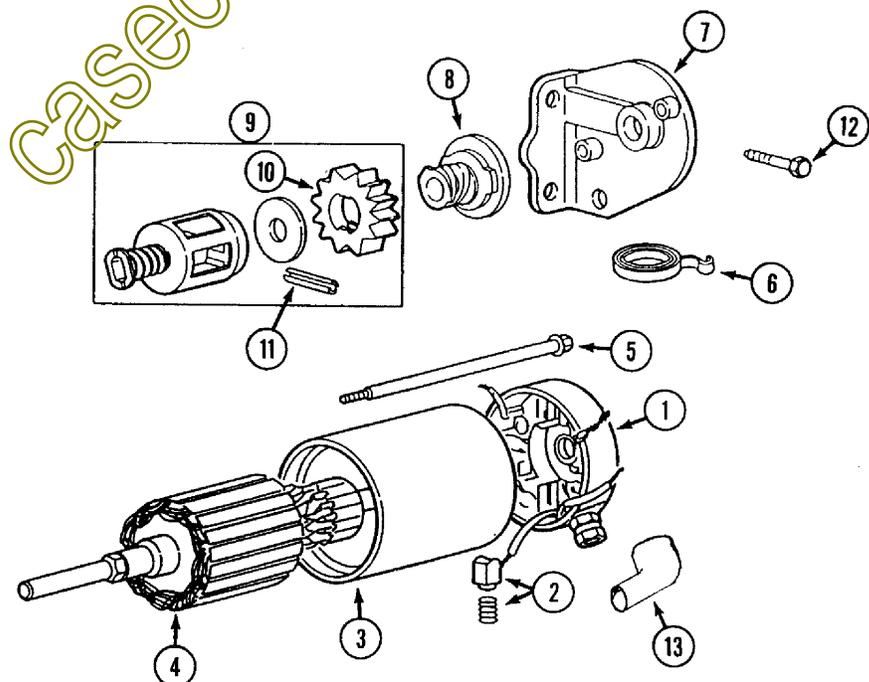
MUFFLER AND ATTACHING PARTS

| | | | |
|---|----------|-------------------------------|---|
| 1 | C33469 | MUFFLER..... | 1 |
| 2 | C33444 | DEFLECTOR - exhaust..... | 1 |
| 3 | 187-1041 | SCREW - #8 - 32 x 3/8..... | 4 |
| 4 | 192-21 | LOCKWASHER - 3/8..... | 1 |
| 5 | 113-208 | BOLT - 3/8" - 16 X 1-1/4..... | 1 |
| 6 | C34351 | GASKET - exhaust..... | 2 |
| 7 | C34320 | BOLT - exhaust flange..... | 4 |

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**MODEL 3012, 3014, 3016 AND 4016 COMPACT TRACTORS
GASKET SETS**

| REF. | PART NO. | DESCRIPTION | REQ'D |
|------|-----------|--|-------|
| 1 | C34297 * | GASKET SET - complete..... | 1 |
| 1 | C40938 ** | GASKET SET - complete..... | 1 |
| 2 | C34196 * | GASKET - cylinder head..... | 2 |
| 2 | C40934 ** | GASKET - head..... | 2 |
| 3 | C34198 | GASKET - breather..... | 1 |
| 4 | C34201 | GASKET - crankcase..... | 1 |
| 5 | C34233 | GASKET - carburetor mounting..... | 2 |
| 6 | C34234 | GASKET - intake manifold..... | 2 |
| 7 | C34246 | "O" RING - oil pump..... | UAR |
| 8 | C34247 | "O" RING - crankcase cover..... | UAR |
| 9 | C34248 | "O" RING - oil pick-up tube..... | 1 |
| 10 | C34261 | WASHER - valve cover..... | 4 |
| 11 | C40923 | GASKET - air cleaner..... | 1 |
| 12 | C34329 | SEAL - breather screw (early production)..... | 1 |
| 13 | C34330 | SEAL - breather screw..... | 1 |
| 14 | C34351 | GASKET - exhaust..... | 2 |
| 15 | C34361 | GASKET - oil filter adapter..... | 1 |
| 16 | C34367 | GASKET - valve cover..... | 2 |
| 17 | C34249 | BREATHER GASKET SET - includes Ref. 3, 12, 13..... | 1 |
| 18 | C34379 * | VALVE OVERHAUL GASKET KIT - includes Ref. 2, 10, 16, 19, 20..... | 1 |
| 18 | C40939 | VALVE OVERHAUL GASKET KIT - includes Ref. 2, 10, 16, 19, 20..... | 1 |
| 19 | C34195 | WASHER - cylinder head bolt..... | 8 |
| 20 | C34262 | NUT - lock, valve cover..... | 4 |

*Use before Engine

** Use after Engine Date Code

Date Code

3016 - 90091000

3012 - all

4016 - 90091000

3014 - all

4016 - 90091100

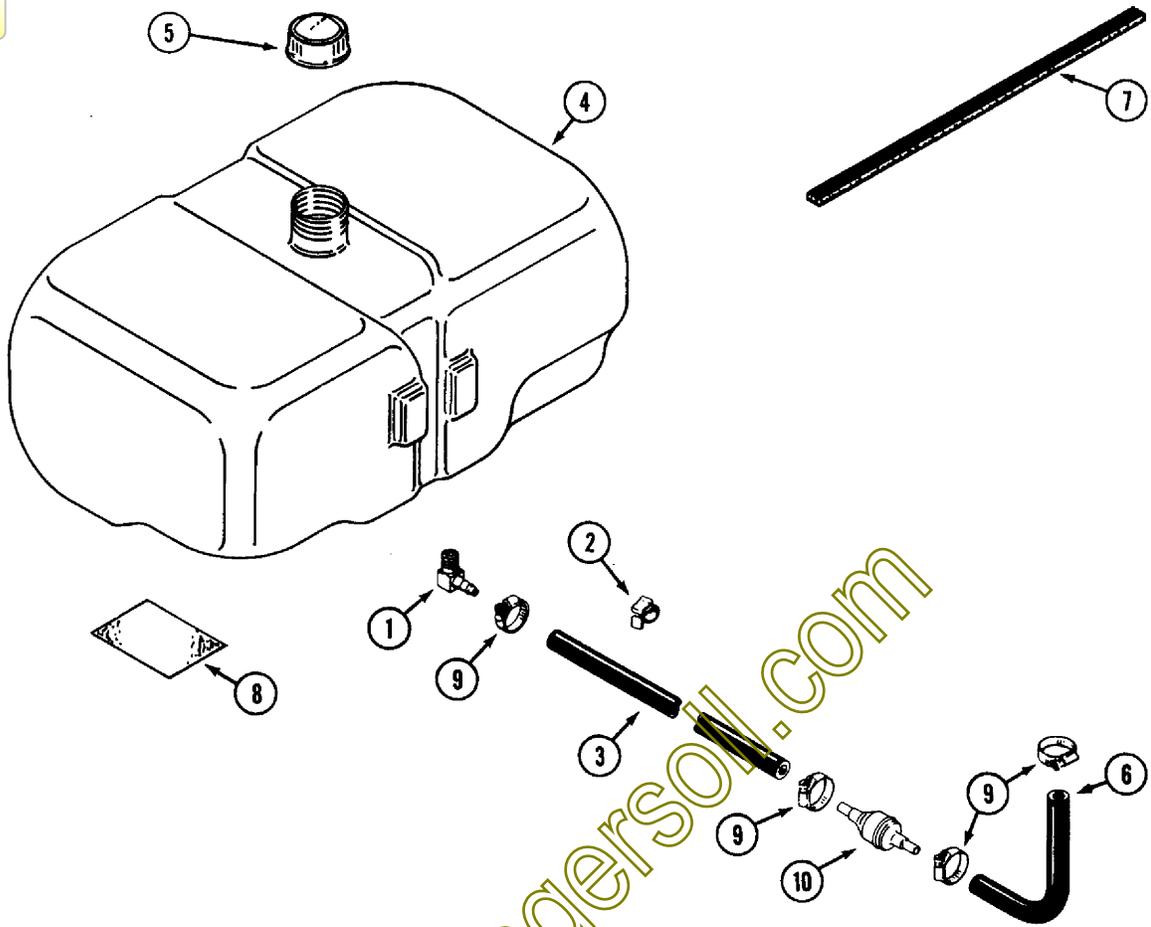
3016 - 90091100

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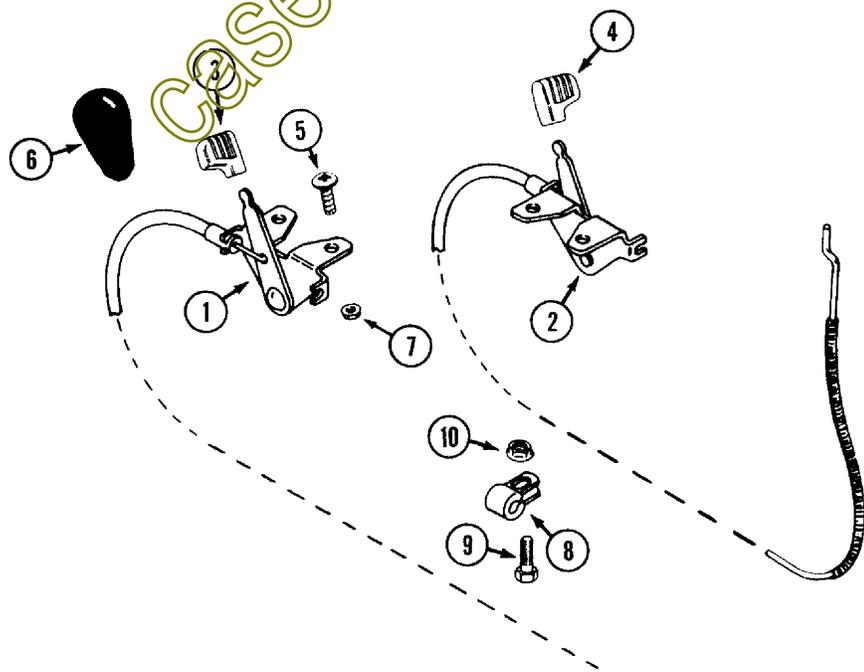
STARTER

| | | | |
|----|--------|--|---|
| | C34284 | STARTER - 12 volt..... | 1 |
| 1 | C34336 | CAP ASSEMBLY - commutator end..... | 1 |
| 2 | C34286 | BRUSH ASSEMBLY..... | 4 |
| 3 | C34405 | HOUSING - starter..... | 1 |
| 4 | C34313 | ARMATURE - starter..... | 1 |
| 5 | C34285 | BOLT - thru..... | 2 |
| 6 | C34364 | SPRING - brush..... | 4 |
| 7 | C30444 | CAP ASSEMBLY - drive end (3012, 3014)..... | 1 |
| 7 | C34335 | CAP ASSEMBLY - drive end (3016)..... | 1 |
| 8 | C30406 | CLUTCH - drive..... | 1 |
| 9 | C27424 | KIT - retainer..... | 1 |
| 10 | C27422 | GEAR - drive..... | 1 |
| 11 | C34353 | PIN - roll..... | 1 |
| 12 | C34263 | BOLT - starter mounting..... | 2 |
| 13 | C31618 | COVER - terminal..... | 1 |

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INDEX**FUEL SYSTEM (TRACTOR)**

| REF. | PART NO. | DESCRIPTION | REQ'D |
|------|----------|---|-------|
| 1 | C10678 | ELBOW - hose 90 | 1 |
| 2 | C28962 | RETAINER - fuel line | 1 |
| 3 | NSS | HOSE - fuel line (1270 mm) (use C28937 cut to length) | 1 |
| 4 | C28940 * | TANK - fuel - 1.50" Threads | 1 |
| 4 | C44818 * | TANK - fuel - 1.75" Threads | 1 |
| 5 | C37094 * | CAP - fuel tank - 1.50" Threads..... | 1 |
| 5 | C44819 * | CAP - fuel tank - 1.75" Threads..... | 1 |
| 6 | NSS | HOSE - fuel line (use C28937 cut to length)..... | 1 |
| 7 | C23527 | LINER - tank..... | 1 |
| 8 | C14690 | CUSHION - fuel tank..... | 2 |
| 9 | C32376 | CLAMP - hose 1/2"..... | 4 |
| 10 | C31978 | FILTER - fuel..... | 1 |

* Measure threads on the cap or filler neck on tank for correct part.

INDEX**CHOKE AND THROTTLE CONTROLS**

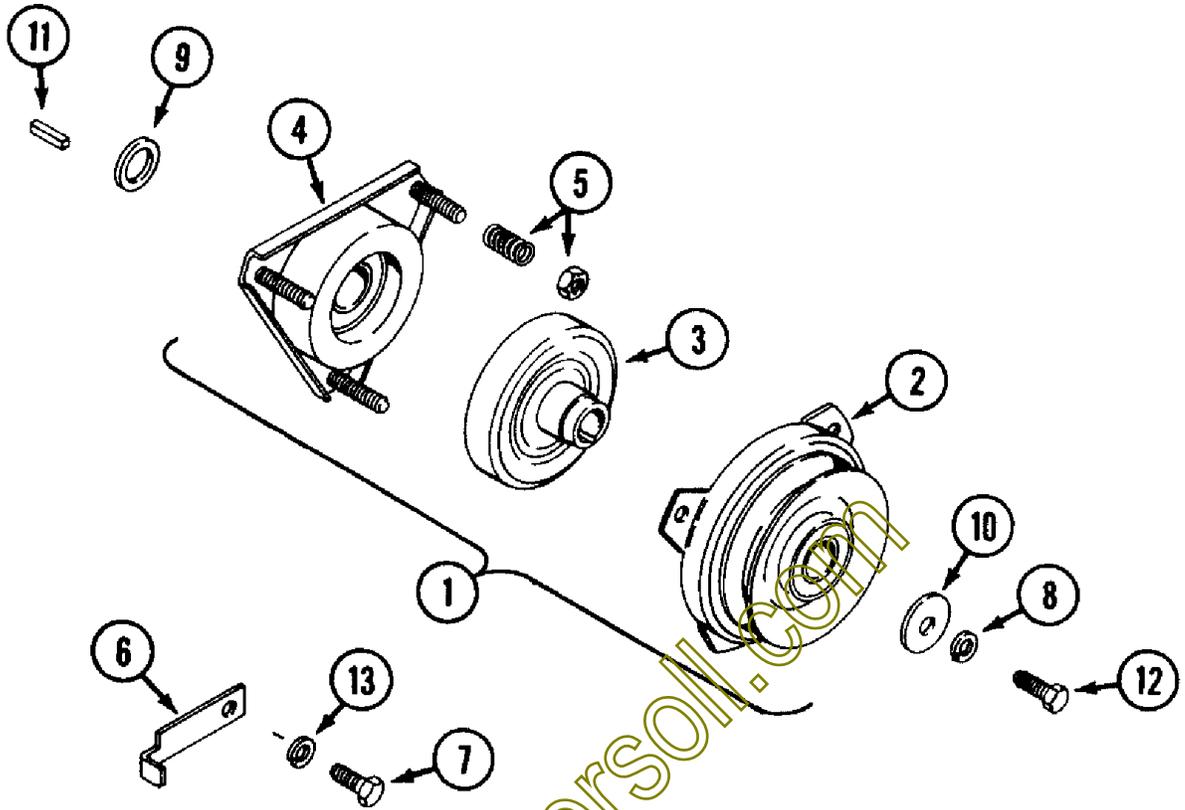
| | | | |
|----|-----------|---|---|
| 1 | C33468 * | CONTROL - throttle | 1 |
| 1 | C37149 ** | CONTROL - throttle | 1 |
| 1 | C46393 + | CONTROL - throttle | 1 |
| 2 | C33438 * | CONTROL - choke..... | 1 |
| 2 | C37150 ** | CONTROL - choke..... | 1 |
| 2 | C46394 + | CONTROL - choke..... | 1 |
| 3 | C30073 * | HANDLE - throttle | 1 |
| 4 | C30074 * | HANDLE - choke | 1 |
| 5 | 182-559 | BOLT - No. 10-24 x 3/4..... | 2 |
| 6 | C35291 | KNOB - control..... | 2 |
| 7 | C34117 | NUT - No. 10-24 flange lock | 2 |
| 8 | C31977 | CLIP - cable | 3 |
| 8 | C27233 | CLAMP - double | 1 |
| 9 | 113-1 | BOLT - 1/4" - 20 x 1/2" (clip to frame) | 1 |
| 9 | C37200 | SCREW - 6 mm (clip to engine)..... | 1 |
| 10 | 131-934 | NUT - 1/4"-20 | 1 |

* Use before PIN:
3012 - 14167800
3014 - 14168800
3016 - 14169500

** Use PIN and after:
3012 - 14167801
3014 - 14168800 to 14190501
3016 - 14169501
3018 - Prior To 14190546
4016 - Prior to 14190534

+ Use After PIN:
3014 - 14190502
3018 - 14190546
4016 - 14190534

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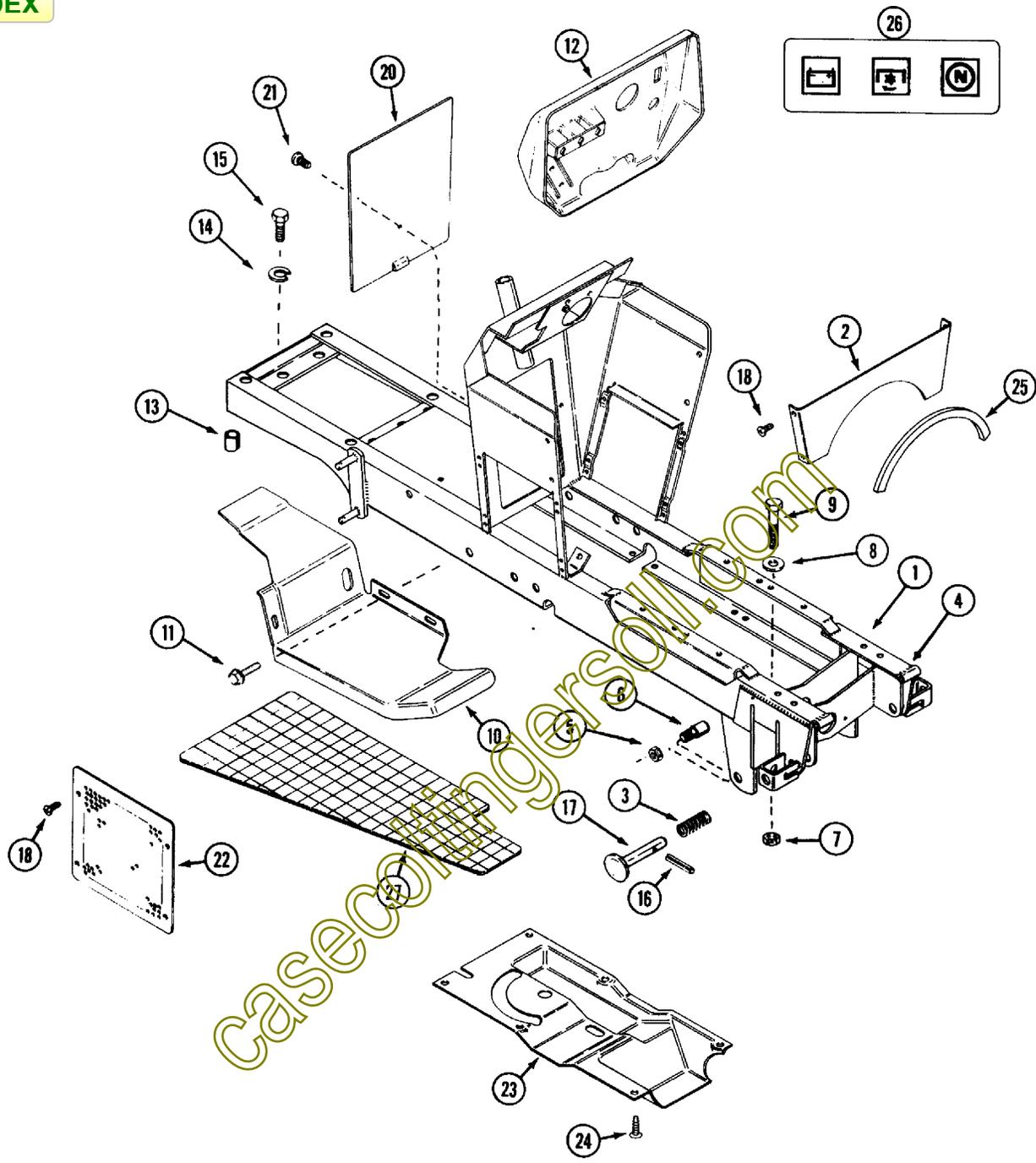
PTO ELECTRIC CLUTCH

| REF. | PART NO. | DESCRIPTION | REQ'D |
|------|------------|---|-------|
| 1 | C46992 * | CLUTCH - PTO | 1 |
| 1 | C33197 * * | CLUTCH - PTO | 1 |
| 2 | C32378 | ARMATURE - clutch | 1 |
| 3 | C32379 | ROTOR - clutch..... | 1 |
| 4 | C32380 | FIELD - clutch | 1 |
| 5 | C32381 | KIT - spring and nut..... | 1 |
| 6 | C33507 | BRACKET - anti-rotation | 1 |
| 7 | 113-335 | BOLT - 7/16" - 14 x 3/4" | 1 |
| 8 | 192-21 | LOCKWASHER - 3/8" | 1 |
| 9 | C31614 | SPACER - clutch..... | 1 |
| 10 | C31615 | WASHER - clamping..... | 1 |
| 11 | C31976 | KEY - 1/4" x 1/4" x 1-1/4" | 1 |
| 12 | 114-203 | BOLT - 3/8" - 24 x 1-1/2" (use 31 ft. lbs. torque)..... | 1 |
| 13 | 192-22 | LOCKWASHER - 7/16" | 1 |

* Use Serial Number 17192163 and After
* * Use before Serial Number 17192163



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FRAME, FOOTPADS AND BELLY PAN

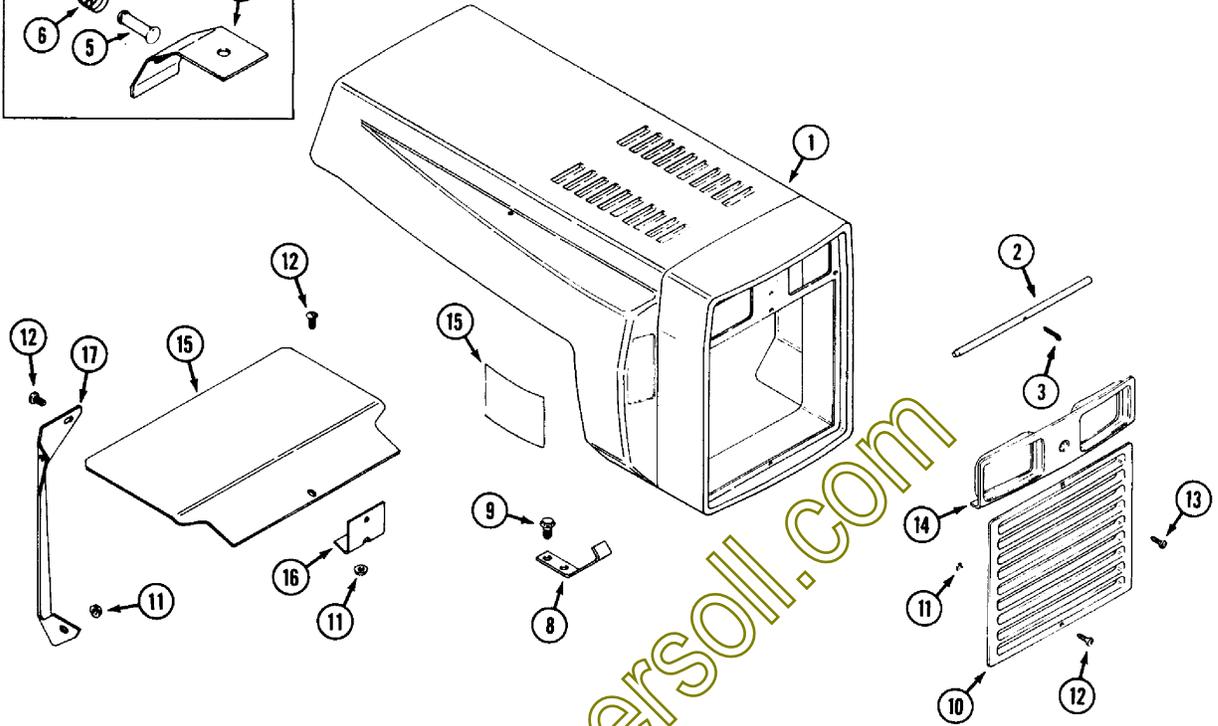
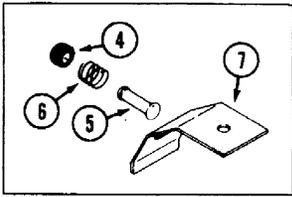
| REF. | PART NO. | DESCRIPTION | REQ'D |
|------|------------|--|-------|
| 1 | C37127 | FRAME - main (4016) | 1 |
| 1 | C37260 ** | FRAME - main (3012, 3014, 3016) | 1 |
| 1 | C34167 *** | FRAME - main (3012,3014,3016) | 1 |
| 1 | NSS + | FRAME - main (3012, 3014, 3016) (use C34167, C33940, C33945) | 1 |
| 2 | C31610 | SHIELD - oil tank | 1 |
| 3 | C24137 | SPRING - latch | 1 |
| 4 | C22023 | HINGE - frame | 2 |
| 5 | 131-1318 | NUT - lock 1/2" N.F. | 2 |
| 6 | C27508 | PIN - attachment | 2 |
| 7 | 131-69 | NUT - lock 5/16" - 18 lock | 2 |
| 8 | 195-521 | WASHER - 5/16" (over engine foot pad) | 4 |
| 9 | 113-120 | BOLT - 5/16" - 18 x 1-3/4" | 4 |
| 10 | C37132 ** | FOOT REST - L.H. (3012, 3014, 3016) | 1 |
| 10 | C37134 ** | FOOT REST - R.H. (3012, 3014, 3016) | 1 |
| 10 | C37136 | FOOT REST - L.H. (4016) | 1 |
| 10 | C37138 | FOOT REST - R.H. (4016) | 1 |
| 10 | C30458 * | FOOT REST - L.H. (3012, 3014, 3016) | 1 |
| 10 | C30460 * | FOOT REST - R.H. (3012, 3014, 3016) | 1 |
| 11 | 121-106 | BOLT - 5/16" x 1/2" NC. flange lock | 4 |
| 12 | C31368 * | CAP - instrument panel | 4 |
| 12 | C37167 ** | CAP - instrument panel | 1 |
| | C37166 ** | INSERT - cap | 1 |
| 13 | C14730 | SPACER - rear, frame | 2 |
| 14 | 192-23 | LOCKWASHER - 1/2" | 4 |
| 15 | 113-424 | BOLT - 1/2" - 13 x 1" transaxle mounting | UAR |
| 15 | 166-86 | BOLT - 1/2" - 13 x 1-1/4" 12 pt. flange (4016) | 1 |
| 16 | 138-2073 | PIN - roll 3/16" x 1-1/4" | 2 |
| 17 | C16373 | PIN-latch | 2 |
| 18 | C31597 | SCREW - 1/4" - 20 x 1/2" black | UAR |
| 18 | C33576 | SCREW - 1/4" x 5/16" black | UAR |
| 20 | C33548 | COVER - access | 1 |
| 21 | C33576 | SCREW - 1/4" - 20 x 5/16" | 2 |
| 22 | C33550 | SCREEN - tower side R.H. (shown) | 2 |
| 22 | C33549 | SCREEN - tower side L.H. | 1 |
| 23 | C31369 | PAN - belly | 1 |
| 24 | C31603 | RETAINER - belly pan | 6 |
| 25 | C33472 | SEAL - engine air | 1 |
| 26 | C30274 * | LENS - display | 1 |
| 27 | C37140 ** | PAD - foot rest L.H. | 1 |
| 27 | C37141 ** | PAD - foot rest R.H. | 1 |

+ Use before PIN:
 3012 - 14145818
 3014 - 14146794
 3016 - 14147979

* Use before PIN:
 ** Use PIN and after:
 3012 -14167800
 3014 - 14168800
 3016 - 14169500
 4016 - all after

*** Use PIN to PIN:
 3012 -14145818 to 14167800
 3014 - 14146794 to 14168800
 3016 -14147979 to 14169500

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HOOD AND GRILL

| REF. | PART NO. | DESCRIPTION | REQ'D |
|------|----------|--|-------|
| 1 | C33547 | HOOD..... | 1 |
| | C31357 | HINGE - hood (not shown) is welded to hood | 1 |
| 2 | C16362 | ROD - hood hinge | 1 |
| 3 | 132-334 | PIN - cotter 1/8" x 3/4"..... | 1 |
| 4 | C29314 | BUTTON - push, hood release | 1 |
| 5 | C30126 | ROD - push, hood release | 1 |
| 6 | C30004 | SPRING - release | 1 |
| 7 | C33467 | LATCH - hood | 1 |
| 8 | C31611 | BRACKET - hood stop | 2 |
| 9 | 121-106 | BOLT - 5/16" - 18 x 1/2" flange lock..... | 4 |
| 10 | C31365 | GRILLE..... | 1 |
| 11 | 131-934 | NUT - 1/4" - 20 flange lock | 9 |
| 12 | C31597 | SCREW - 1/4" - 20 x 1/2" black..... | 7 |
| 13 | 187-1328 | SCREW - #8 - 18 x 3/8" | 1 |
| 14 | C31366 | SHROUD - headlight..... | 1 |
| 15 | C33567 | SHIELD - heat..... | 1 |
| 16 | C33568 | BRACKET - heat shield..... | 1 |
| 17 | C33569 | EXTENDER - hood L.H..... | 1 |
| 17 | C33570 | EXTENDER - hood R.H. (shown) | 1 |

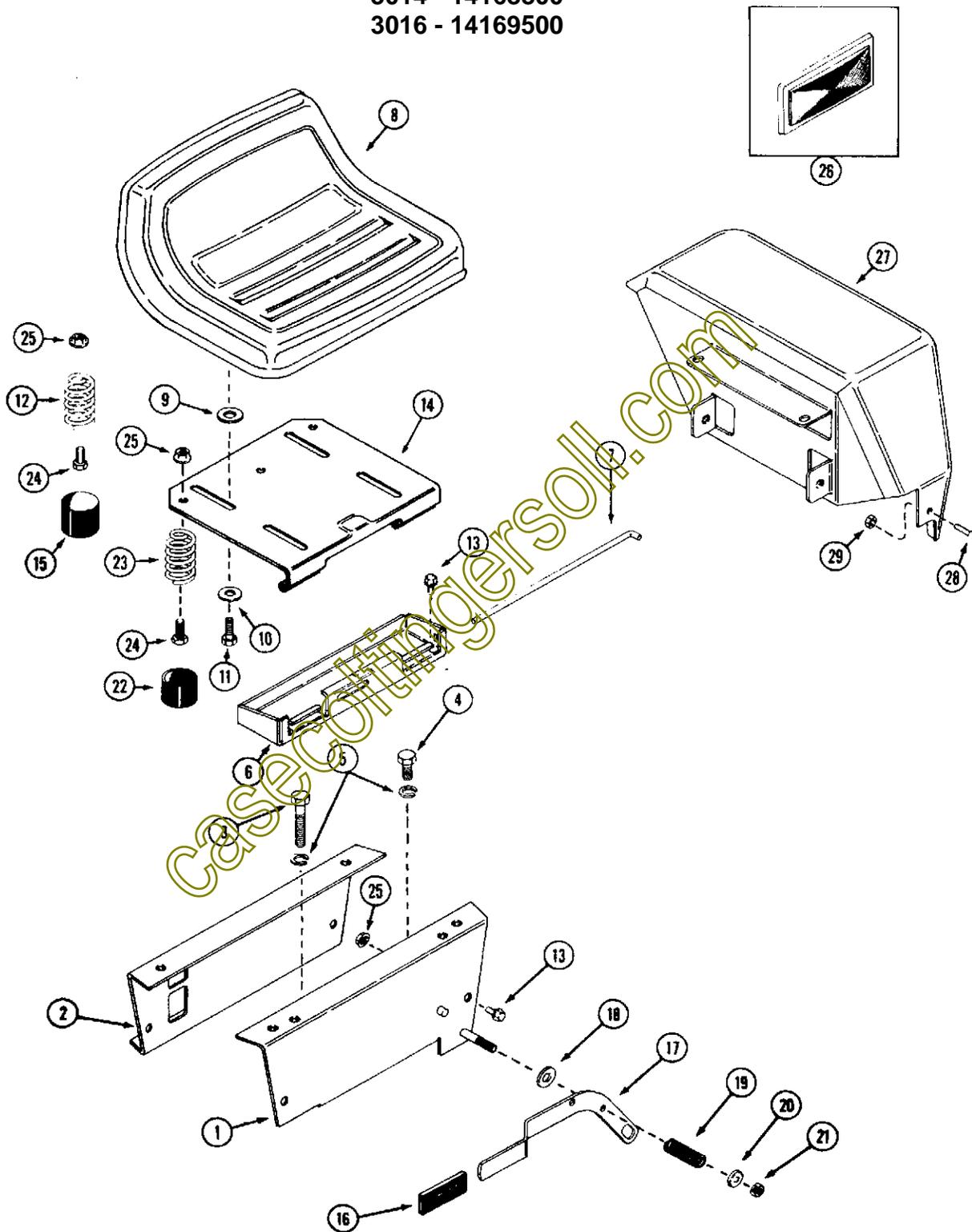
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SEAT, FENDER AND TOOL TRAY

Use Before PIN:
3012 - 14167800
3014 - 14168800
3016 - 14169500

AFTER THESE PIN'S



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SEAT, FENDER AND TOOL TRAY

**Use Before PIN:
3012 - 14167800
3014 - 14168800
3016 - 14169500**

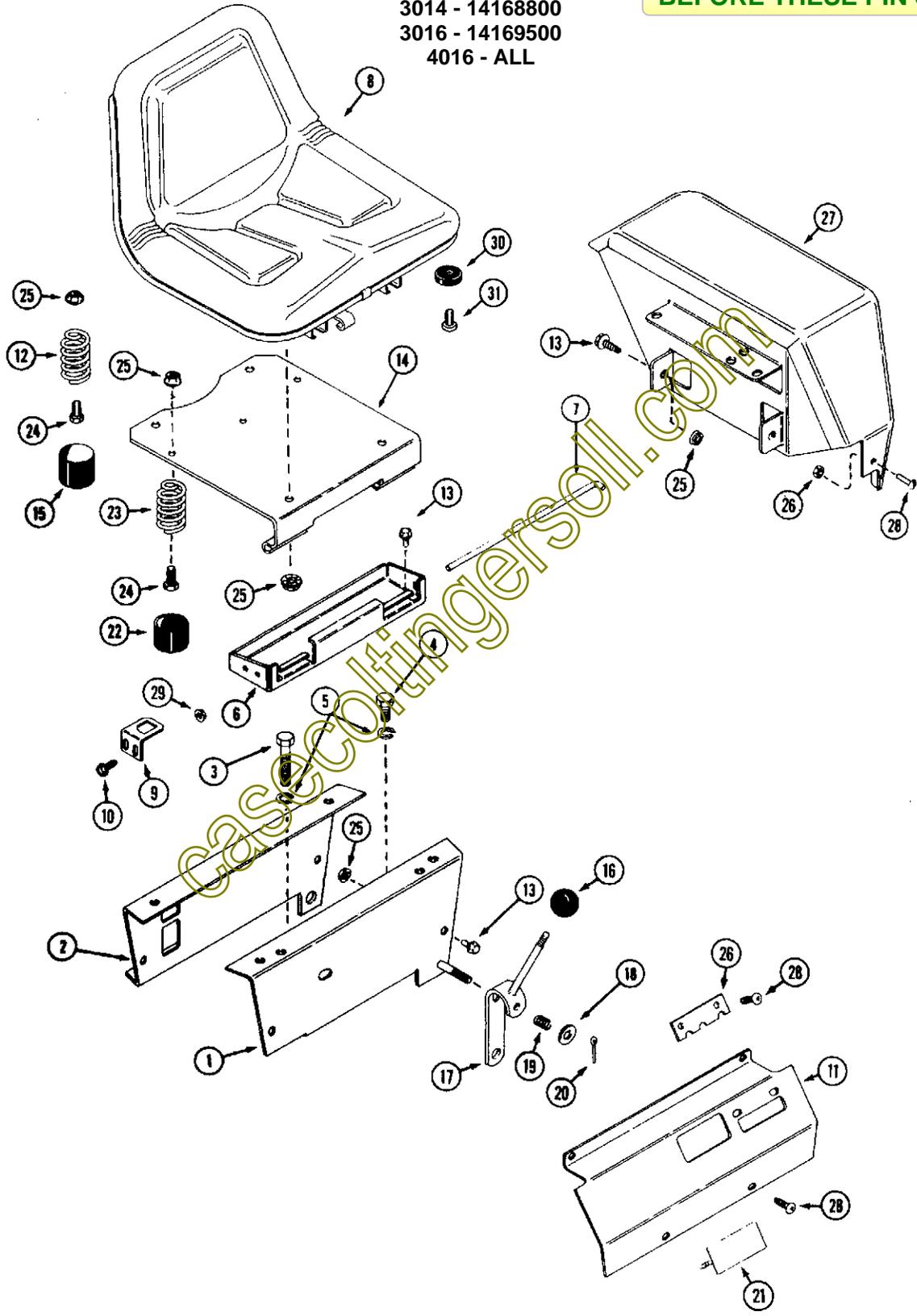
AFTER THESE PIN'S

| REF. | PART NO. | DESCRIPTION | REQ'D |
|------|----------|---|-------|
| 1 | C31020 | SUPPORT - seat, front..... | 1 |
| 2 | C26827 | SUPPORT - seat, rear | 1 |
| 3 | 113-427 | BOLT - 1/2" x 3-1/4" | 2 |
| 4 | 113-424 | BOLT - 1/2" x 1" N.C. hex | 1 |
| 4 | 113-118 | BOLT - 5/16" x 5/8" | 1 |
| 5 | 192-20 | LOCKWASHER - 5/16" | 1 |
| 5 | 192-23 | LOCKWASHER - 1/2" | 4 |
| 6 | C31004 | TRAY - tool..... | 1 |
| 7 | C16429 | PIN - seat hinge | 1 |
| 8 | C30067 | SEAT - shown | 1 |
| 9 | C29812 | WASHER..... | 4 |
| 10 | 195-2175 | WASHER - 5/16" x 1-1/4" OD, zinc | 4 |
| 11 | 113-122 | BOLT - 5/16" x 1-1/2" | 4 |
| 12 | C31006 | SPRING - seat switch | 1 |
| 13 | 121-106 | BOLT - 5/16" x 1 1/2" flange lock | 10 |
| 14 | C33474 | HINGE ASSEMBLY - seat | 1 |
| 15 | C26526 | CAP - spring..... | 1 |
| 16 | C14728 | GRIP - shift lever | 1 |
| 17 | C27594 | LEVER - shift..... | 1 |
| 18 | 195-525 | WASHER - 7/16" x 1-1/4" 0.0..... | 1 |
| 19 | C17216 | SPRING - shift lever..... | 1 |
| 20 | C30489 | WASHER..... | 1 |
| 21 | 131-1216 | NUT - lock 3/8" N.C. hex..... | 1 |
| 22 | C29305 | CAP - spring | 2 |
| 23 | C29306 | SPRING - seat | 2 |
| 24 | 113-102 | BOLT - 5/16" - 1 1/2 x 3/4" | 3 |
| 25 | 131-911 | NUT - 5/16" - 1 1/2 flange lock | 7 |
| 26 | C30942 | REFLECTOR - red, rear fender | 2 |
| 27 | C32386 | FENDER (R.H.) | 1 |
| 27 | C32385 | FENDER (L.H.) shown | 1 |
| 28 | 182-547 | SCREW - 1/4" - 20 x 1/2 | 2 |
| 29 | 131-934 | NUT - 1/4" | 2 |

SEAT, FENDER AND TOOL TRAY

Use PIN and AFTER:
3012 - 14167800
3014 - 14168800
3016 - 14169500
4016 - ALL

BEFORE THESE PIN'S



MODEL 3012, 3014, 3016 AND 4016 COMPACT TRACTORS

SEAT, FENDER AND TOOL TRAY

Use PIN and AFTER:

3012 - 14167800

3014 - 14168800

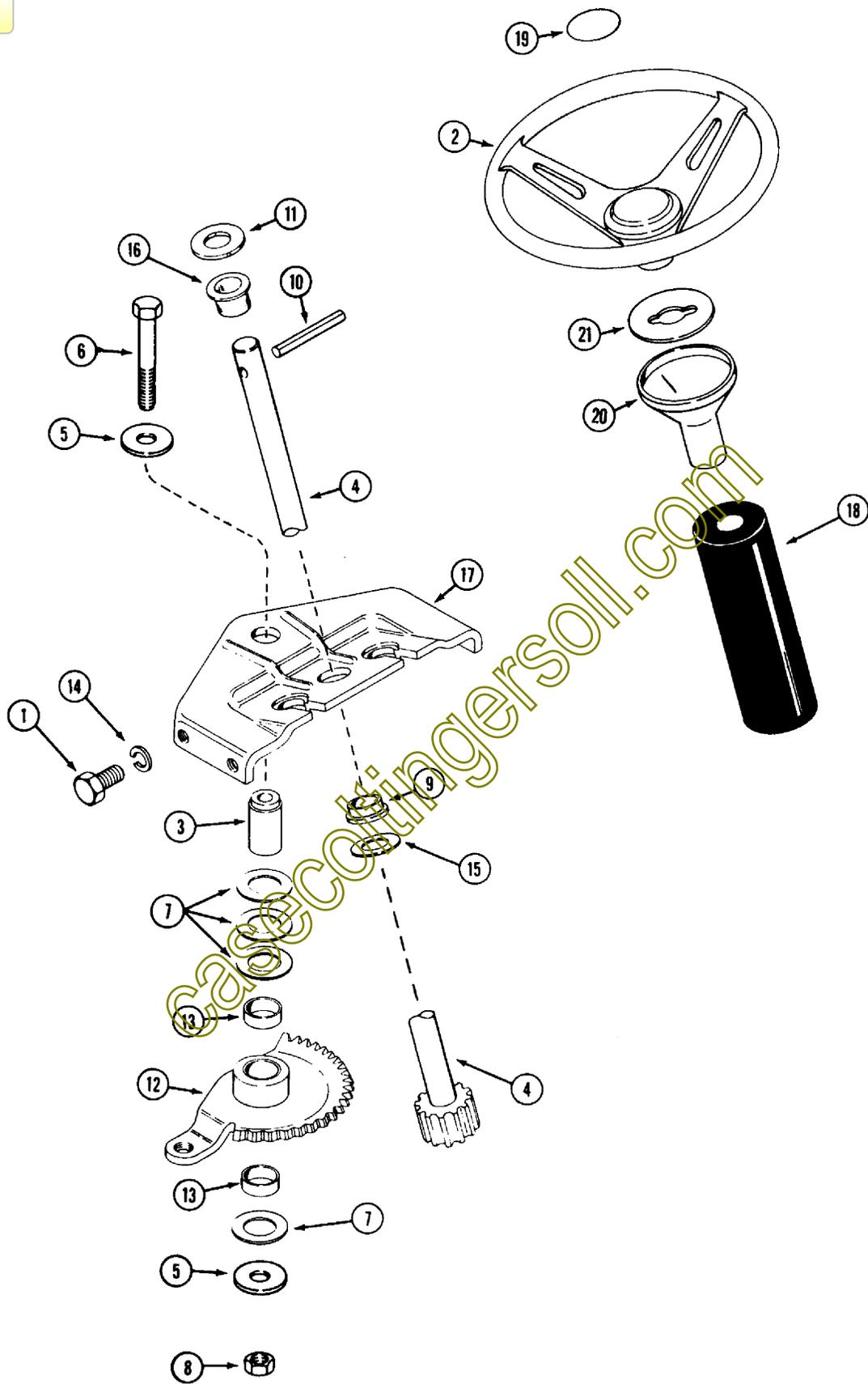
3016 - 14169500

4016 - ALL

BEFORE THESE PIN'S

| REF. | PART NO. | DESCRIPTION | REQ'D |
|------|----------|--|-------|
| 1 | C37261 | SUPPORT - seat, front (3012, 3014, 3016) | 1 |
| 1 | C37262 | SUPPORT - seat, front (4016) | 1 |
| 2 | C37266 | SUPPORT - seat, rear (4016) | 1 |
| 2 | C37265 | SUPPORT - seat, rear (3012, 3014, 3016) | 2 |
| 3 | 113-427 | BOLT - 1/2" x 3-1/4" (3012, 3014, 3016) | 2 |
| 3 | 113-441 | BOLT - 1/2" x 2-1/4" (4016) | 2 |
| 4 | 113-424 | BOLT - 1/2" x 1" N.C. hex | 1 |
| 4 | 113-118 | BOLT - 5/16" x 5/8" | 1 |
| 5 | 192-20 | LOCKWASHER - 5/16" | 1 |
| 5 | 192-23 | LOCKWASHER - 1/2" | 4 |
| 6 | C37017 | TRAY - tool | 1 |
| 7 | C16429 | PIN - seat hinge | 1 |
| 8 | C44982 | SEAT - operator's | 1 |
| | C37848 | KIT - Rail Set | 1 |
| 9 | C37060 | BRACKET - switch mounting | 1 |
| 10 | 113-2 | BOLT - 1/4" - 20 x 5/8" | 2 |
| 11 | C37409 | COVER - shift lever (3012, 3014, 3016) | 1 |
| 11 | C37411 | COVER - shift lever (4016) | 1 |
| 12 | C37462 | SPRING - seat switch | 1 |
| 13 | 121-106 | BOLT - 5/16" x 1/2" flange lock | 10 |
| 14 | C37152 | HINGE ASSEMBLY - seat | 1 |
| 15 | C26526 | CAP - spring | 1 |
| 16 | C10487 | KNOB - shift lever | 1 |
| 17 | C37244 | LEVER - shift (3012, 3014, 3016) | 1 |
| 17 | C37247 | LEVER - shift (4016) | 1 |
| 18 | 195-525 | WASHER - 7/16" x 1-1/4" O.D. | 1 |
| 19 | C10482 | SPRING - shift lever | 1 |
| 20 | 132-310 | PIN - cotter 1/8" x 1" | 1 |
| 21 | C37460 | COVER - plate | 1 |
| 22 | C29305 | CAP - spring | 2 |
| 23 | C29306 | SPRING - seat | 2 |
| 24 | 113-102 | BOLT - 5/16" - 18 x 3/4" | 3 |
| 25 | 131-911 | NUT - 5/16" - 18 flange lock | 11 |
| 26 | C37428 | PLATE - shift pattern (3012, 3014, 3016) (shown) | 1 |
| 26 | C37430 | PLATE - shift pattern (4016) | 1 |
| 27 | C37154 | FENDER - R.H. (3012, 3014, 3016) | 1 |
| 27 | C37153 | FENDER - L.H. shown (3012, 3014, 3016) | 1 |
| 27 | C37156 | FENDER - RH. (4016) | 1 |
| 27 | C37155 | FENDER - L.H. (4016) | 1 |
| 28 | C31597 | SCREW - 1/4" - 20 x 1/2" | 6 |
| 29 | 131-934 | NUT - 1/4" | 6 |
| 30 | C37850 | CUSHION - Seat Rail to Seat | 4 |
| 31 | C42056 | SCREW - Seat Rail Mounting | 4 |

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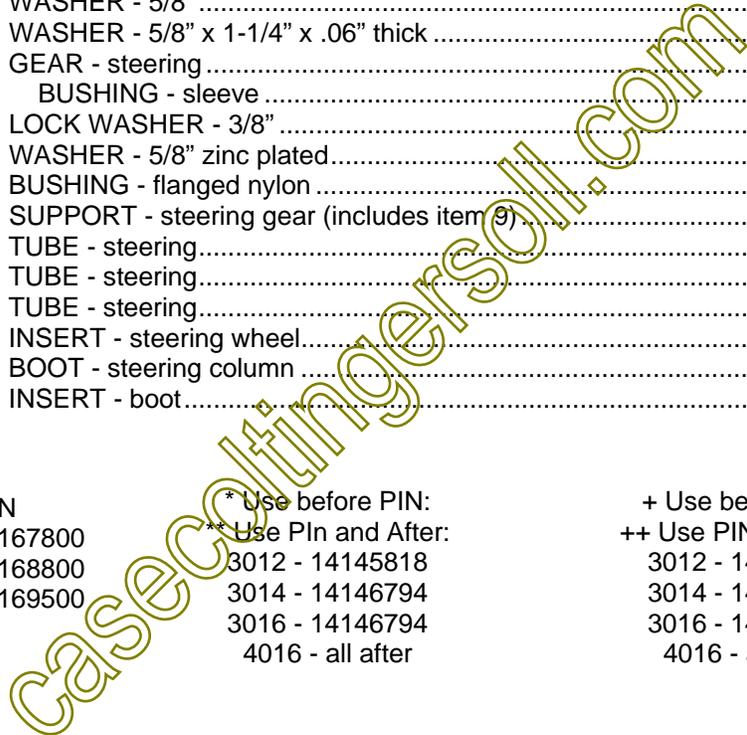
STEERING GEAR

| REF. | PART NO. | DESCRIPTION | REQ'D |
|------|------------|---|-------|
| 1 | 113- 206 | BOLT - 3/8" x 3/4" N.C. hex | 4 |
| 2 | C26325 + | WHEEL - steering | 1 |
| 2 | C37131 ++ | WHEEL - steering (shown)..... | 1 |
| | C42894 | INSERT – Steering wheel, (snaps in with two retainer tabs) | 1 |
| | C42591 | INSERT – Steering wheel, (also order a C42592 screw to secure)..... | 1 |
| 3 | C29044 | PIN-pivot..... | 1 |
| 4 | C26326 * | SHAFT - steering | 1 |
| 4 | C33940 ** | SHAFT - steering | 1 |
| 5 | C29812 | WASHER - 3/8" x 1.4" | 2 |
| 6 | 113-241 | BOLT - 3/8" - 16 x 3" | 1 |
| 7 | C14201 | WASHER - shim..... | 4 |
| 8 | 131-1352 | NUT - 3/8" - 16 hex lock (torque 40-45 ft. lbs.) | 1 |
| 9 | C27501 | BUSHING | 1 |
| 10 | 138-143 | PIN - roll 1/4" x 2-1/4"..... | 1 |
| 11 | 195 541 | WASHER - 5/8" | UAR |
| 11 | 195-2206 | WASHER - 5/8" x 1-1/4" x .06" thick | UAR |
| 12 | C33309 | GEAR - steering | 1 |
| 13 | C33308 | BUSHING - sleeve | 2 |
| 14 | 192-21 | LOCK WASHER - 3/8" | 4 |
| 15 | 195-2069 | WASHER - 5/8" zinc plated..... | 1 |
| 16 | C15096 | BUSHING - flanged nylon | 1 |
| 17 | C30019 | SUPPORT - steering gear (includes item 9)..... | 1 |
| 18 | C30127 * | TUBE - steering..... | 1 |
| 18 | C37479 ++ | TUBE - steering..... | 1 |
| 18 | C33945 *** | TUBE - steering..... | 1 |
| 19 | C37197 ++ | INSERT - steering wheel..... | 1 |
| 20 | C39504 + | BOOT - steering column | 1 |
| 21 | C39507 + | INSERT - boot..... | 1 |

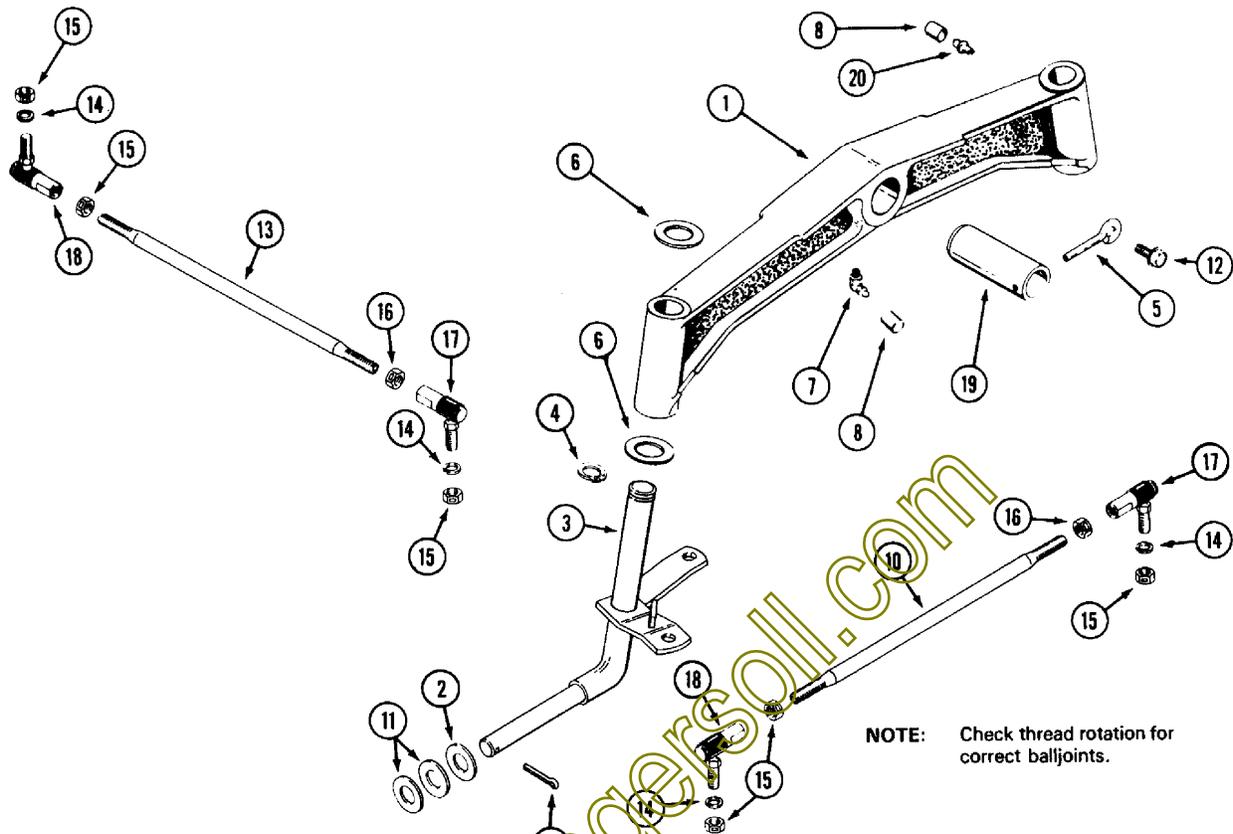
*** Use PIN to PIN
 3012 - 14145818 to 14167800
 3014 - 14146794 to 14168800
 3016 - 14147979 to 14169500

* Use before PIN:
 ** Use Pin and After:
 3012 - 14145818
 3014 - 14146794
 3016 - 14146794
 4016 - all after

+ Use before PIN:
 ++ Use PIN and after:
 3012 - 14167800
 3014 - 14168800
 3016 - 14169500
 4016 - all after



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NOTE: Check thread rotation for correct balljoints.

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MODEL 3012, 3014, 3016 AND 4016 COMPACT TRACTORS

**FRONT AXLE
(3012, 3014, 3016)**

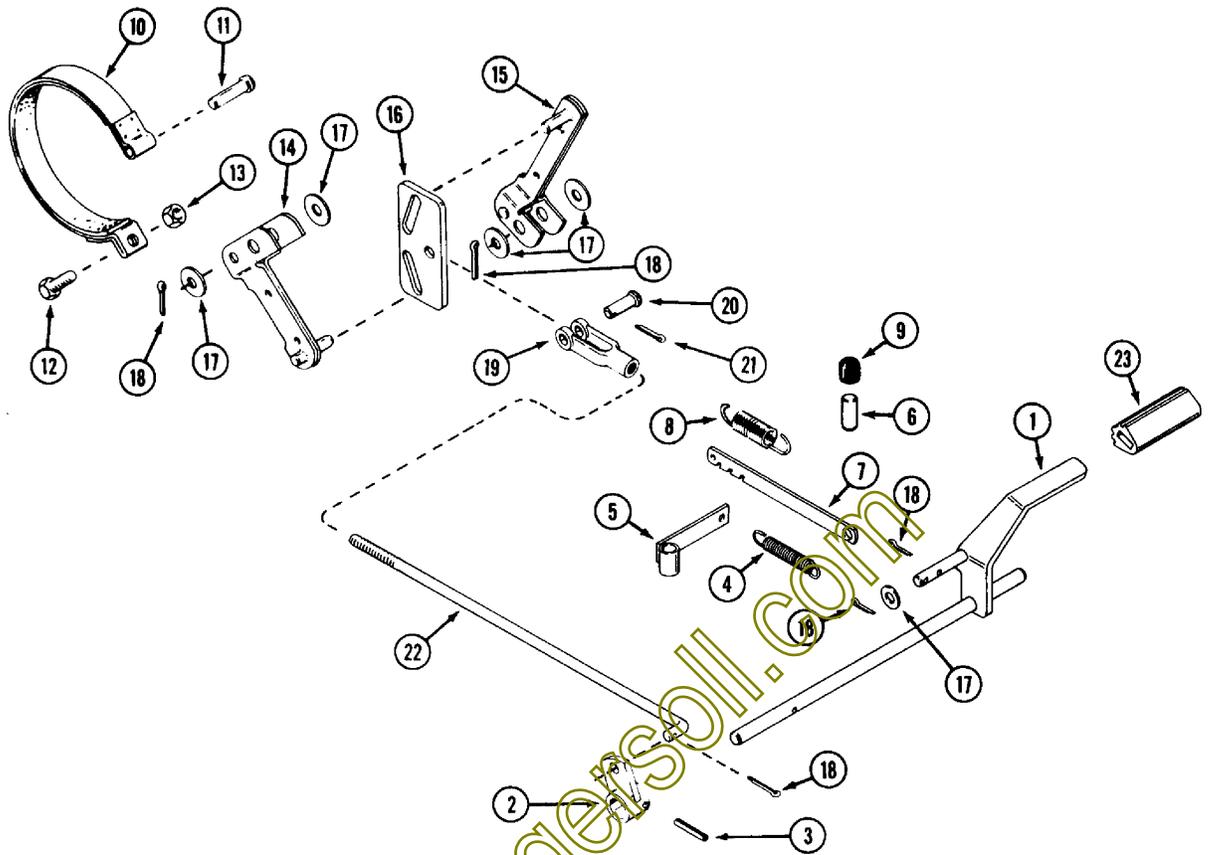
| REF. | PART NO. | DESCRIPTION | REQ'D |
|------|----------|---|-------|
| 1 | C18812 | AXLE - front..... | 1 |
| 2 | C27597 | WASHER - spacer | 2 |
| 3 | C31338 | SPINDLE - R.H | 1 |
| 3 | C31337 | SPINDLE - L.H..... | 1 |
| 4 | C28232 | RING - retaining, spindle..... | 2 |
| 5 | C22278 | PIN - retaining, axle pivot..... | 1 |
| 6 | C11906 | WASHER - thrust | 4 |
| 7 | 219-404 | FITTING - lubrication..... | 3 |
| 8 | C13106 | COVER - lubrication fitting | 3 |
| 9 | 132-311 | PIN - cotter 5/32" x 1-1/4"..... | 2 |
| 10 | C25856 | TIE ROD..... | 1 |
| 11 | C28226 | WASHER - wheel spacer | UAR |
| 12 | 187-1910 | BOLT - 3/8" - 16 x 3/4" N.C. hex head | 1 |
| 13 | C25857 | LINK - drag..... | 1 |
| 14 | 192-23 | LOCK WASHER - 1/2" zinc..... | 4 |
| 15 | 129-165 | NUT - 1/2" N.F. R.H. thread, lock..... | 6 |
| 16 | 129-365 | NUT - 1/2" N.F. L.H. thread, lock | 2 |
| 17 | C13605 | BALL JOINT - 1/2" L.H. thread..... | 2 |
| 18 | C12102 | BALL JOINT - 1/2" R.H. thread | 2 |
| 19 | C22568 | PIN - axle pivot..... | 1 |
| 20 | 219-17 | FITTING - lubrication..... | 2 |

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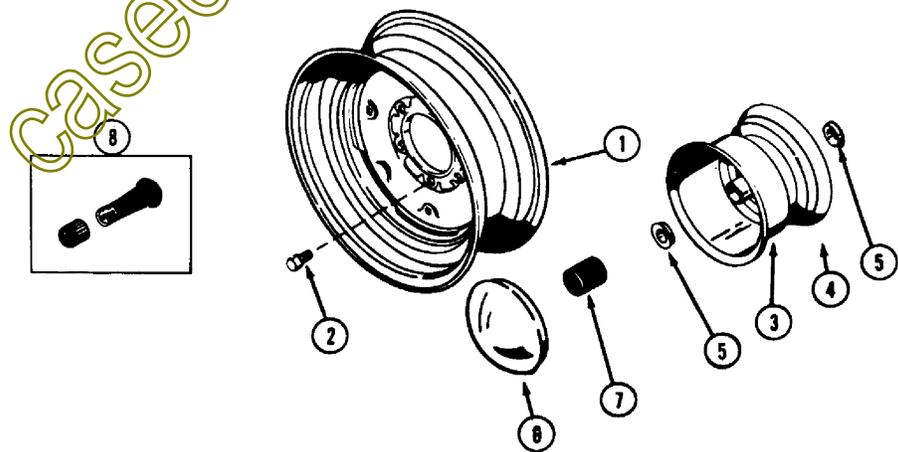
**FRONT AXLE
(4016)**

| REF. | PART NO. | DESCRIPTION | REQ'D |
|------|----------|---|-------|
| 1 | C18813 | AXLE - front..... | 1 |
| 2 | C27597 | WASHER - spacer | 2 |
| 3 | C31341 | SPINDLE - R.H | 1 |
| 3 | C31340 | SPINDLE - L.H..... | 1 |
| 4 | C27902 | RING - retaining, spindle..... | 2 |
| 5 | C22278 | PIN - retaining, axle pivot..... | 1 |
| 6 | C13716 | WASHER - thrust | 4 |
| 7 | 219-404 | FITTING - lubrication..... | 3 |
| 8 | C13106 | COVER - lubrication fitting | 3 |
| 9 | 132-311 | PIN - cotter 5/32" x 1-1/4"..... | 2 |
| 10 | C25855 | TIE ROD..... | 1 |
| 11 | C28226 | WASHER - wheel spacer | UAR |
| 12 | 187-1910 | BOLT - 3/8" - 16 x 3/4" N.C. hex head | 1 |
| 13 | C25857 | LINK - drag..... | 1 |
| 14 | 192-23 | LOCKWASHER - 1/2" zinc..... | 4 |
| 15 | 129-165 | NUT - 1/2" N.F. R.H. thread, lock..... | 6 |
| 16 | 129-365 | NUT - 1/2" N.F. L.H. thread, lock | 2 |
| 17 | C13605 | BALL JOINT - 1/2" L.H. thread..... | 2 |
| 18 | C12102 | BALL JOINT - 1/2" R.H. thread | 2 |
| 19 | C22568 | PIN - axle pivot..... | 1 |
| 20 | 219-17 | FITTING - lubrication..... | 2 |

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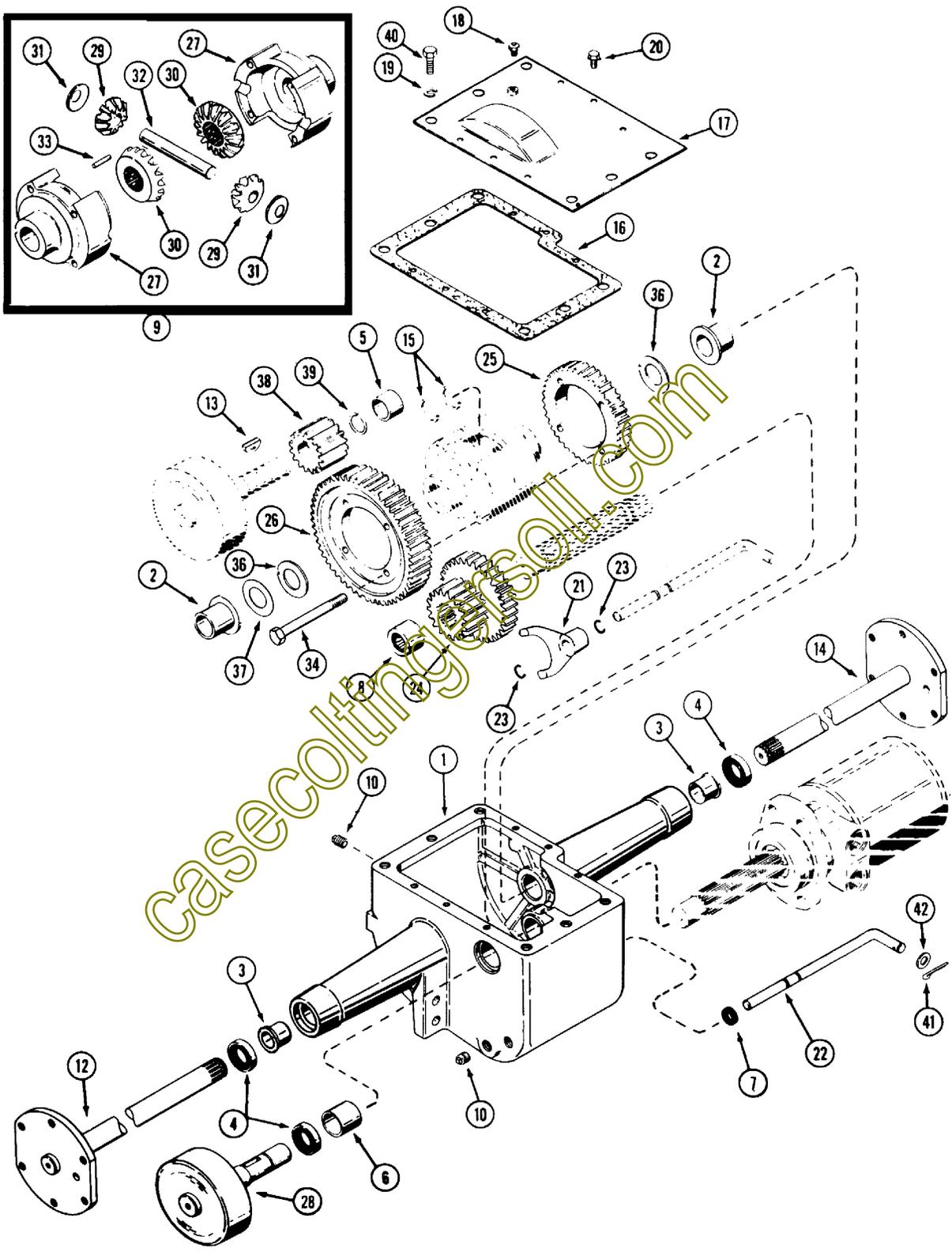
INDEX**MODEL 3012, 3014, 3016 AND 4016 COMPACT TRACTORS****BRAKE ASSEMBLY**

| REF. | PART NO. | DESCRIPTION | REQ'D |
|------|----------|--|-------|
| 1 | C33942 | PEDAL - brake actuating..... | 1 |
| 2 | C26381 | ARM - brake pedal..... | 1 |
| 3 | 138-2073 | PIN - roll 3116" x 1-1/4"..... | 1 |
| 4 | C31660 | SPRING - return..... | 1 |
| 5 | C31662 | GUIDE - neutral return..... | 1 |
| 6 | C31604 | ACCUATOR - parking brake..... | 1 |
| 7 | C31661 | LEVER - brake lock..... | 1 |
| 8 | C21942 | SPRING - brake lock..... | 1 |
| 9 | C31605 | CAP - actuator..... | 1 |
| 10 | C33427 | BAND - brake..... | 1 |
| 11 | C23910 | PIN - clevis..... | 1 |
| 12 | 113-2262 | BOLT - 3/8" - 16 x 1-1/2" hex..... | 1 |
| 13 | 129-143 | NUT - 3/8" -16..... | 1 |
| 14 | C23899 | ARM-brake..... | 1 |
| 15 | C24761 | ARM - brake (includes adjustment nut)..... | 1 |
| 16 | C40646 | GUIDE - brake actuator..... | 1 |
| 17 | 195-533 | WASHER - .531" I.D..... | 5 |
| 18 | 132-310 | PIN - cotter 1/8" x 1"..... | 5 |
| 19 | C28978 | CLEVIS..... | 1 |
| 20 | 141-4 | PIN - clevis..... | 1 |
| 21 | 132-321 | PIN - cotter..... | 1 |
| 22 | C31992 | ROD - brake (3012, 3014, 3016)..... | 1 |
| 22 | C31993 | ROD - brake (4016)..... | 1 |
| 23 | C31975 | PAD - brake pedal..... | 1 |

INDEX**FRONT AND REAR WHEELS**

| REF. | PART NO. | DESCRIPTION | REQ'D |
|------|----------|---|-------|
| 1 | C30913 | WHEEL - rear, 5 bolt for 23 x 8.50 - 12 tire (3012, 3014, 3016)..... | 2 |
| 1 | C30922 | WHEEL - rear, 5 bolt for 23 x 10.50 - 12 tire (3012, 3014, 3016)..... | 2 |
| 1 | C30917 | WHEEL - rear, 6 bolt (4016)..... | 2 |
| 2 | C10314 | BOLT - rear wheel (3012, 3014, 3016)..... | 10 |
| 2 | C27763 | BOLT - rear wheel (4016)..... | 12 |
| 3 | C30912 | WHEEL - front (includes bearings)..... | 2 |
| 4 | 219-403 | FITTING - lubrication..... | 2 |
| 5 | C12110 | BEARING - wheel..... | 2 |
| 6 | C28965 | CAP - hub, front wheel (optional)..... | 2 |
| 7 | C26021 | CAP - plastic, front..... | 2 |
| 8 | C28236 | STEM - valve..... | 4 |
| | C13106 | COVER - lubrication fitting..... | 2 |

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3000 and 4000 Series With Vanguard Engines

TRANSMISSION AND FINAL DRIVE

| REF. | PART NO. | DESCRIPTION | REQ'D |
|------|---------------|--|-------|
| | C47668 + | CASE ASSEMBLY – transmission, ribs are notched for frame..... | 1 |
| | C47666 + + | CASE ASSEMBLY – transmission, ribbed..... | 1 |
| 1 | NSS | CASE - transmission (see above)..... | 1 |
| 2 | C12713 | BEARING - flange..... | 2 |
| 3 | C24804 | BEARING - flange..... | 2 |
| 4 | C24803 | SEAL - shaft | 3 |
| 5 | C13241 | BEARING - sleeve..... | 1 |
| 6 | C13385 | BEARING - sleeve..... | 1 |
| 7 | C13266 | SEAL - shift rod..... | 1 |
| 8 | C28281 | BEARING - roller | 1 |
| 9 | C30029 * | DIFFERENTIAL ASSEMBLY, 20° PA gears (assemblies include items 25, 34, & 26)..... | 1 |
| 9 | C36902 ** | DIFFERENTIAL ASSEMBLY, 20° PA gears | 1 |
| 9 | C46929 *** | DIFFERENTIAL ASSEMBLY, 25° PA gears..... | 1 |
| 10 | 221-3 | PLUG - filler and drain 3/8" (square head)..... | 3 |
| 10 | 221-1842 | PLUG - pipe 3/8" socket | 1 |
| 12 | C22638 | SHAFT - axle, short R.H. (4000 Series)..... | 1 |
| 12 | C16699 | SHAFT - axle, short R.H. (3000 Series)..... | 1 |
| 13 | 126-128 | KEY - woodruff, brake idler #18, 1/4" x 1-1/8"..... | 2 |
| 14 | C22637 | SHAFT - axle, long L.H. (4000 Series) | 1 |
| 14 | C16700 | SHAFT - axle, long L.H. (3000 Series) | 1 |
| 15 | C26342 | RING - retainer, axle..... | 2 |
| 16 | C13196 | GASKET - transmission cover | 1 |
| 17 | C36935 | COVER - transmission..... | 1 |
| 18 | C28241 | BREATHER - transmission..... | 1 |
| 19 | 192-23 | LOCKWASHER - 1/2"..... | 4 |
| 20 | 121-21 | BOLT - 1/4" x 1/2" N.C. hex lock..... | 6 |
| 21 | C12725 | FORK - shift..... | 1 |
| 22 | C32486 * | ROD - gear shift..... | 1 |
| 22 | C37222 ** | ROD - gear shift..... | 1 |
| 23 | C14168 | RING - retaining..... | 2 |
| 24 | C14644 * | GEAR - cluster input, 20° PA gears..... | 1 |
| 24 | C36901 ** | GEAR - cluster input, 20° PA gears..... | 1 |
| 24 | C46928 *** | GEAR - cluster input, 25° PA gears..... | 1 |
| 25 | C30030 * | GEAR - high 41 tooth..... | 1 |
| 25 | C36903 ** | GEAR - high range | 1 |
| 26 | C12552 * & ** | GEAR - low 55 tooth, 20° PA gear – 25° gear is not available, order C46929 (and items C46927 and C46928 if needed to match pressure angle gears) | 1 |
| 27 | NSS | DIFFERENTIAL CASE..... | 1 |
| 28 | C33305 | BRAKE DRUM..... | 1 |
| 29 | NSS | GEAR - differential pinion | 2 |
| 30 | NSS | GEAR - differential..... | 2 |
| 31 | NSS | WASHER - pinion thrust | 2 |
| 32 | NSS | PIN - differential..... | 1 |
| 33 | NSS | PIN - differential pin lock..... | 1 |
| 34 | C30031 | KIT - screw (set of four)..... | 1 |
| 36 | C12718 | WASHER - differential | 2 |
| 37 | C14223 | WASHER - spacer | UAR |
| 38 | C33417 | GEAR - brake idler, 20° PA gear | 1 |
| 38 | C46927 *** | GEAR - brake idler, 25° PA gear | 1 |
| 39 | C14222 | RING - retainer, brake idler..... | 1 |
| 40 | 113-424 | BOLT - 1/2" - 13 x 1" hex | UAR |
| 40 | 166-85 | BOLT 1/2" - 13 x 1" 12 pt. flange | UAR |
| 41 | 132-310 | PIN - cotter 1/8" x 1" | 1 |
| 42 | 195-541 | WASHER - .656" ID x 1.312 OD..... | 1 |
| 43 | 138-2073 | PIN - spiral 3/16" x 1-1/4"..... | 1 |

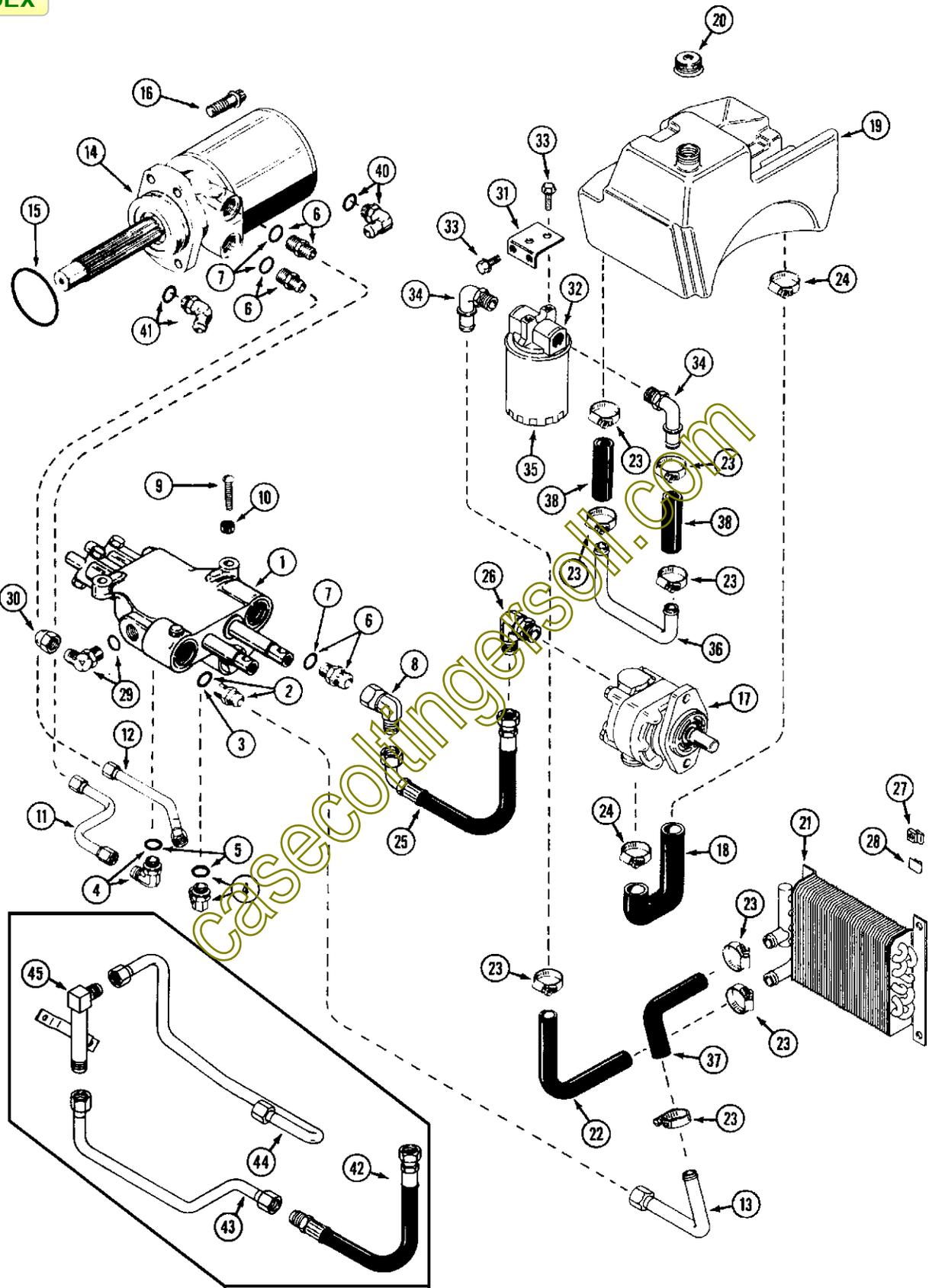
* Use before PIN:
 3012 - All
 3014 - 14168800
 3016 - 14169500

** Use PIN:
 3014 – 14168800 to 17192470
 3016 – 14169500 to 17192390
 3018 – Prior to 17192389
 4016 – Prior to 17192386
 4018 – Prior to 17192405
 These are 20° Pressure Angle gears and must not be used with 25° PA gears

*** Use PIN and After:
 3014 – 17192471
 3016 – 17192391
 3018 – 17192390
 4016 – 17192387
 4018 – 17192406
 These are 25° Pressure Angle gears and must not be used with 20° PA gears

+ Use Before PIN:
 + + Use PIN and After:
 All units -17193395

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**MODEL 3012, 3014, 3016 AND 4016 COMPACT TRACTORS
HYDRAULIC SYSTEM**

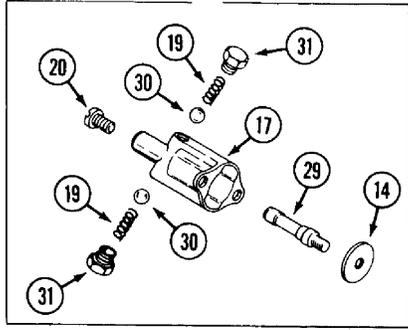
| REF. | PART NO. | DESCRIPTION | REQ'D |
|------|-----------|--|-------|
| 1 | C33473 | VALVE control (repairs page 41) | 1 |
| 2 | 218-5065 | FITTING - 3/4" x 7/8" "O" ring | 1 |
| 3 | 218-5007 | "O" RING | 1 |
| 4 | 218-5107 | FITTING - 90° elbow | 2 |
| 5 | 218-5007 | "O" RING | 1 |
| 6 | 218-5062 | FITTING - 5/8" x 7/8" "O" ring | 3 |
| 7 | 218-5007 | "O" RING | 1 |
| 8 | 218-5232 | FITTING - 90° elbow | 1 |
| 9 | C27764 | SCREW - 5/16" - 18 x 1-1/4" round head | 2 |
| 10 | 131-351 | NUT - lock 5/16" | 2 |
| 11 | C37220 ** | TUBE - valve to upper motor port (3012, 3014, 3016) | 1 |
| 11 | C37309 ** | TUBE - valve to upper motor port (4016) shown | 1 |
| 11 | C29655 * | TUBE - valve to upper motor port (3012, 3014, 3016) | 1 |
| 11 | C29657 * | TUBE - valve to upper motor port (4016) | 1 |
| 12 | C29656 * | TUBE - valve to lower motor port (3012, 3014, 3016) | 1 |
| 12 | C29658 * | TUBE - valve to lower motor port (4016) | 1 |
| 12 | C37310 ** | TUBE - valve to lower motor port (4016) shown | 1 |
| 12 | C37221 ** | TUBE - valve to lower motor port (3012, 3014, 3016) | 1 |
| 13 | C31435 | TUBE - valve "out" to heat exchanger | 1 |
| 14 | C30939 | MOTOR - hydraulic (repairs page 43) (3012, 3014, 3016) | 1 |
| 14 | C33234 | MOTOR - hydraulic (repairs page 43) (4016) | 1 |
| 15 | C28949 | SEAL - motor to transmission | 1 |
| 16 | 166-86 | SCREW - 1/2" - 18 x 1-1/4" 12 pt. flange | 4 |
| 17 | C31958 | PUMP - hydraulic 1/2" shaft (repairs page 45) | 1 |
| 18 | C33423 | HOSE - pump inlet | 1 |
| 19 | C33180 | RESERVOIR - oil | 1 |
| 20 | C37093 | CAP - reservoir | 1 |
| 21 | C31295 | EXCHANGER - heat | 1 |
| 22 | C33555 | HOSE - formed 90° 6-1/4" x 5" | 1 |
| 23 | 214-254 | CLAMP - hose 1-1/4" | 8 |
| 24 | 214-14 | CLAMP - hose 1-3/8" | 2 |
| 25 | C31966 | HOSE - pump to valve | 2 |
| 26 | 218-5117 | FITTING - 90° elbow | 1 |
| 27 | C31973 | "J" NUT - 1/4" -20 | 4 |
| 28 | C31974 | "U" Clip - retainer | 4 |
| 29 | C37425 | FITTING - 90° 3/8" tube x 1/2" - 20 | 1 |
| 30 | 218-754 | CAP - 3/8" tube | 1 |
| 31 | C33577 | BRACKET - oil filter | 1 |
| 32 | C33446 | HEAD - oil filter | 1 |
| 33 | 121-21 | BOLT - 1/4" - 20 x 1/2" | 1 |
| 34 | 217-333 | FITTING - 90° 3/8" NPTF x 3/4" hose | 2 |
| | C44911 | FITTING - "T" for case drain hose return | 1 |
| 35 | C33445 | FILTER - oil | 1 |
| 36 | C33544 | TUBE - filter to tank | 1 |
| 37 | C33556 | HOSE - formed 90° 3-1/2" x 3-1/2" | 1 |
| 38 | C14619 | HOSE - 3/4" x 4" | 2 |
| 39 | 192-23 | LOCKWASHER - 1/2" | 4 |
| 40 | 218-5107 | FITTING - 90° male 7/8" - 14 | 1 |
| 41 | 218-5137 | FITTING - 45° male 7/8" - 14 x 5/8" tube | 1 |
| 42 | C44924 | HOSE - Pump to PTO Ready Tube | 1 |
| 43 | C44918 | TUBE - Hose to PTO Valve 3000 Series | 1 |
| 43 | C44919 | TUBE - Hose to PTO Valve 4000 Series | 1 |
| 44 | C44922 | TUBE - PTO Valve to Travel Valve, 3000 Series | 1 |
| 44 | C44923 | TUBE - PTO Valve to Travel Valve, 4000 Series | 1 |
| 45 | C44908 | BRACKET - stand, tube support | 1 |

* Use before PIN:

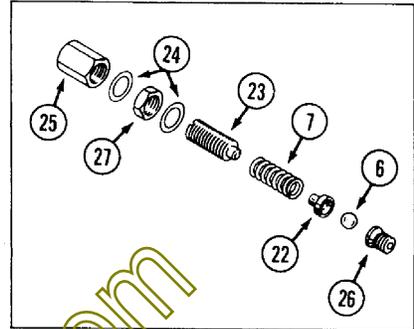
** Use PIN and After:

3012 - 14167922 3016 - 14169637

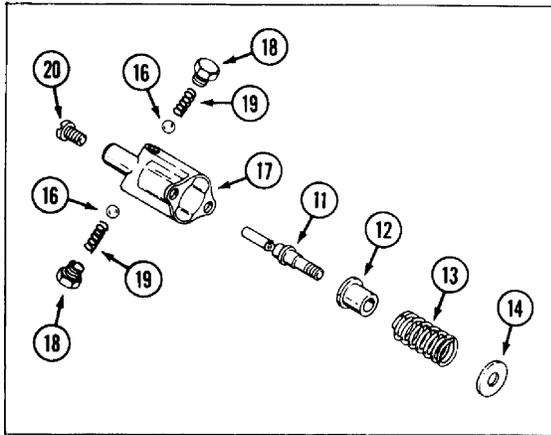
3014 - 14168927 4016 - 14170969



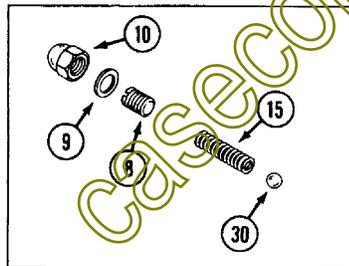
TRAVEL SECTION DETENT GROUP



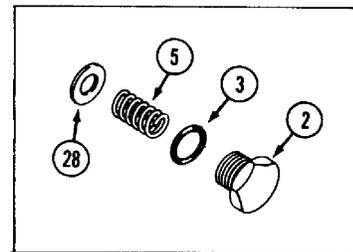
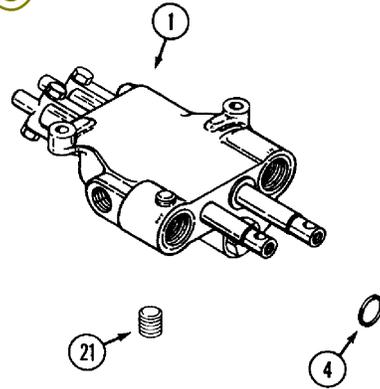
TRAVEL SECTION RELIEF GROUP



LIFT SECTION DETENT GROUP



LIFT SECTION RELIEF GROUP



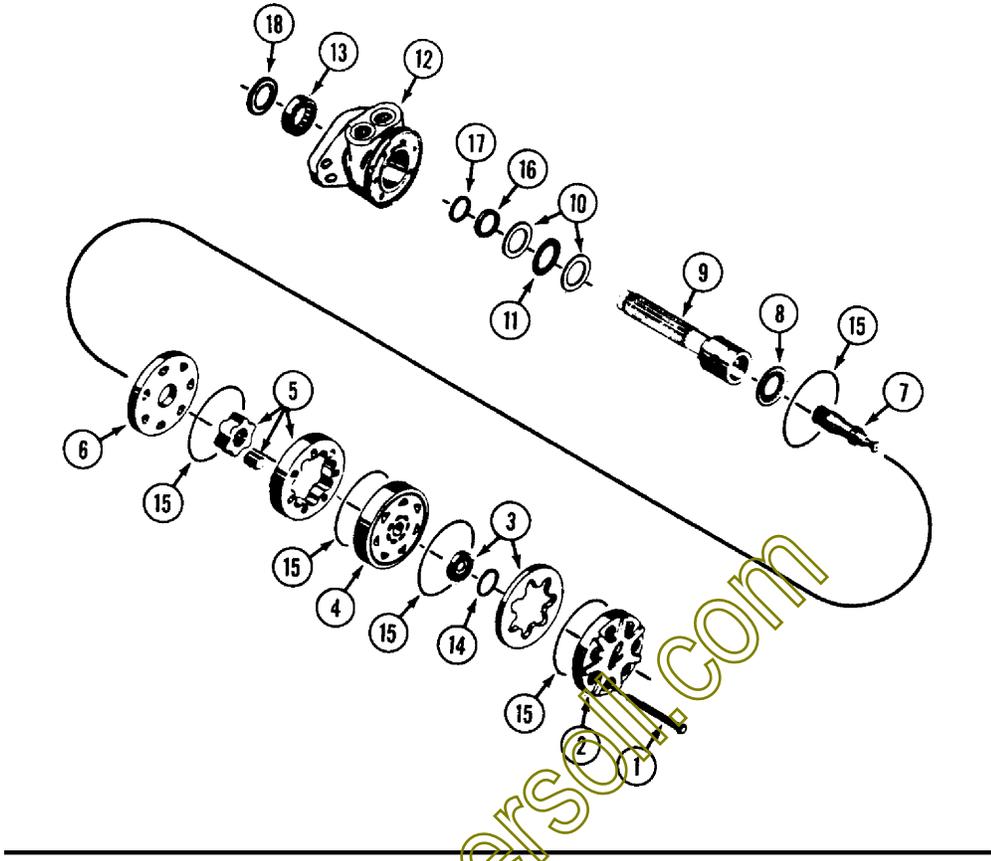
HOLDING SECTION GROUP

**MODEL 3012, 3014, 3016 AND 4016 COMPACT TRACTORS
HYDRAULIC CONTROL VALVE**

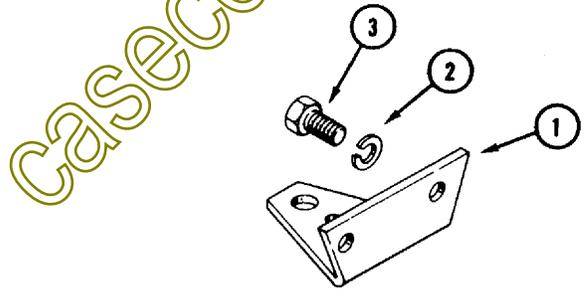
| REF. | PART NO. | DESCRIPTION | REQ'D |
|------|----------|---|-------|
| 1 | C33473 | VALVE - control, two spool | 1 |
| 2 | C29956 | CAP-end | 2 |
| 3 | C28217 | "O" RING - end cap..... | 1 |
| 4 | C28856 | SEAL - spool..... | 4 |
| 5 | C29951 | SPRING - centering..... | 2 |
| 6 | 211-208 | BALL - steel 5/16" (7.94mm) | 1 |
| 7 | C21507 | SPRING - relief | 2 |
| 8 | C17433 | SCREW - relief adjust..... | 1 |
| 9 | C17435 | GASKET - relief adjust cap..... | 1 |
| 10 | 129-531 | CAP - adjust screw | 2 |
| 11 | C26668 | DETENT - spool..... | 1 |
| 12 | C28707 | SPACER - detent..... | 1 |
| 13 | C28706 | SPRING - detent return | 1 |
| 14 | C28705 | WASHER - return | 2 |
| 15 | NSS | SPRING - relief (order C21511 relief kit, use spring only)..... | 1 |
| 16 | 211-5 | BALL - steel 3/16" (4.76 mm) | 2 |
| 17 | C17438 | COVER - detent..... | 1 |
| 18 | C28708 | SCREW - detent | 4 |
| 19 | C17444 | SPRING - detent..... | 4 |
| 20 | 169-114 | SCREW - cover | 4 |
| 21 | 221-841 | PLUG - pipe | 1 |
| 22 | C21506 | RETAINER - ball seat | 1 |
| 23 | C26665 | SCREW - adjust, relief..... | 1 |
| 24 | C26664 | GASKET - adjust cap | 1 |
| 25 | C26666 | CAP - adjust screw | 1 |
| 26 | C26663 | SEAT - relief ball | 1 |
| 27 | 129-166 | NUT - lock..... | 1 |
| 28 | C29950 | WASHER - spring retaining | 2 |
| 29 | C29958 | DETENT - spool..... | 1 |
| 30 | 211-7 | BALL - steel 1/4" (6.35 mm)..... | 2 |
| 31 | C17443 | SCREW - detent | 2 |
| | C30002 | KIT - seal | 1 |

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MODEL 3012, 3014, 3016 AND 4016 COMPACT TRACTORS

HYDRAULIC DRIVE MOTOR

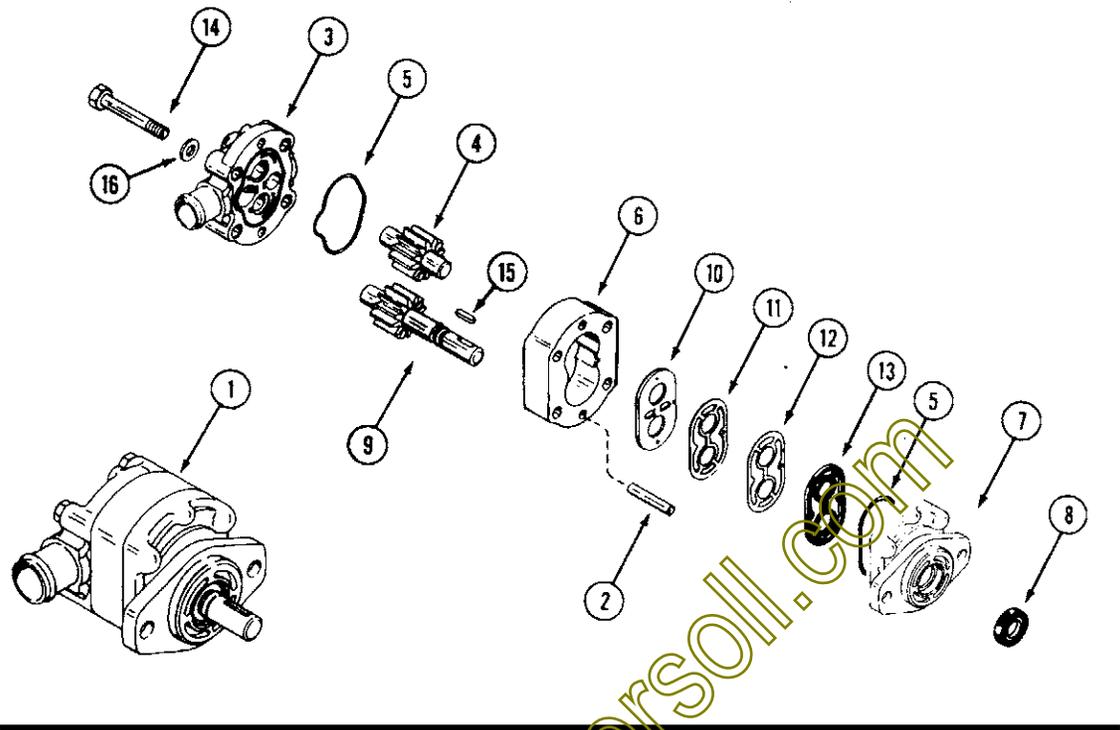
| REF. | PART NO. | DESCRIPTION | REQ'D |
|------|----------|--------------------------------|-------|
| | C30939 | MOTOR - hydraulic | 1 |
| 1 | 28-668 | BOLT - 3/8" - 24 x 4-1/4"..... | 7 |
| 2 | C31309 | COVER - end..... | 1 |
| 3 | C31310 | COMMUTATOR AND RING SET | 1 |
| 4 | C31311 | MANIFOLD | 1 |
| 5 | C31312 | ROTOR ASSEMBLY | 1 |
| 6 | C31314 | PLATE - wear | 1 |
| 7 | C31315 | LINK - drive..... | 1 |
| 8 | C31317 | BEARING - thrust | 1 |
| 9 | C31318 | SHAFT - coupling | 7 |
| 10 | C31319 | WASHER - thrust..... | 2 |
| 11 | C31320 | BEARING -thrust | 1 |
| 12 | C31321 | HOUSING - drive end | 1 |
| 13 | C31322 | BEARING - outer | 1 |
| | C31323 | KIT - seal | 1 |
| 14 | NSS | SEAL - commutator ring | 1 |
| 15 | NSS | SEAL - ring | 5 |
| 16 | NSS | SEAL - ring | 1 |
| 17 | NSS | WASHER - backup | 1 |
| 18 | NSS | SEAL - dirt (not used) | 1 |

DRAWBAR AND TOW HITCH

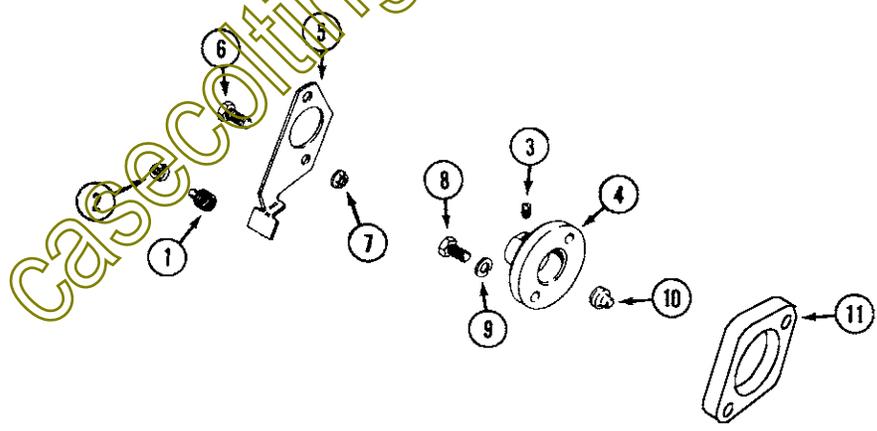
| | | | |
|---|---------|---------------------------------|---|
| 1 | C13360 | DRAWBAR | 1 |
| 2 | 192-23 | LOCKWASHER - 1/2" | 2 |
| 3 | 113-424 | BOLT - 1/2" x 1" N.C. hex | 2 |

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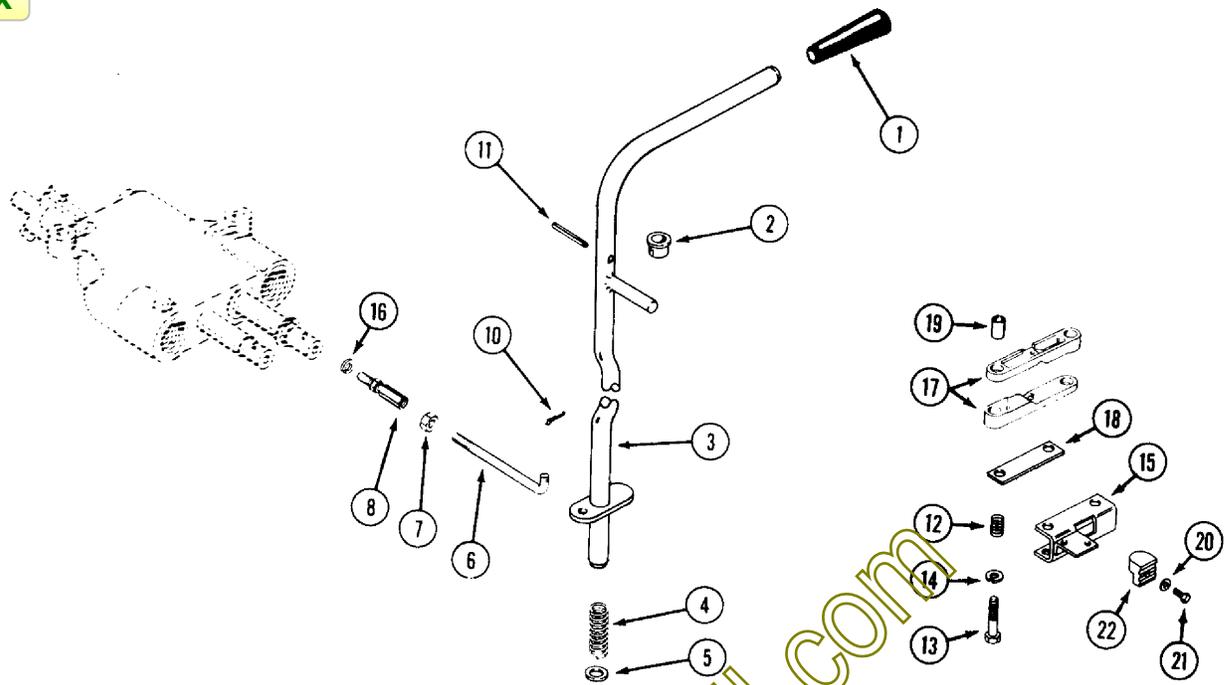
INDEX**MODEL 3012, 3014, 3016 AND 4016 COMPACT TRACTORS****HYDRAULIC PUMP (PARKER-HANNIFIN)**

| REF. | PART NO. | DESCRIPTION | REQ'D |
|------|----------|--|-------|
| 1 | C31958 | PUMP - hydraulic 1/2" shaft | 1 |
| 2 | F53109 | PIN - dowel | 2 |
| 3 | C31987 | COVER - rear | 1 |
| 4 | C15731 | GEAR ASSEMBLY - driven | 1 |
| 5 | C15732 | "O" RING - cover | 2 |
| 6 | C15733 | BODY - pump | 1 |
| 7 | C15734 | COVER - front..... | 1 |
| 8 | C15735 | SEAL - shaft..... | 1 |
| 9 | NSS | GEAR ASSEMBLY - drive (1/2" shaft) (use C31 958)..... | 1 |
| 10 | C15737 | PLATE - wear | 1 |
| 11 | C15738 | SHIELD - heat..... | 1 |
| 12 | C15739 | GASKET | 1 |
| 13 | C15740 | SEAL..... | 1 |
| 14 | 113-111 | BOLT..... | 4 |
| 15 | C31988 | KEY - 1/8" square x 3/4" long (1.587 mm x 19.05 mm)..... | 4 |
| 16 | C19115 | WASHER..... | 4 |

INDEX**PUMP MOUNTING COMPONENTS**

| | | | |
|----|----------|--|---|
| 1 | C32437 | MOUNT - rubber | 1 |
| 2 | 131-911 | NUT - 5/16" - 18 flange lock..... | 1 |
| 3 | 83-55 | SCREW - set 5/16" - 18 x 5/16" socket..... | 2 |
| 4 | C33441 | ADAPTER - drive..... | 1 |
| 5 | C33506 | PLATE - pump torque arm | 1 |
| 6 | 113-208 | BOLT - 3/8" - 18 x 1-1/4" hex..... | 2 |
| 7 | 131-1352 | NUT - 3/8" - 16 flange lock..... | 2 |
| 8 | 113-103 | BOLT - 5/16" - 18 x 1" hex | 2 |
| 9 | 192-20 | LOCKWASHER - 5/16" | 2 |
| 10 | C33505 | PILOT - pump adapter | 1 |

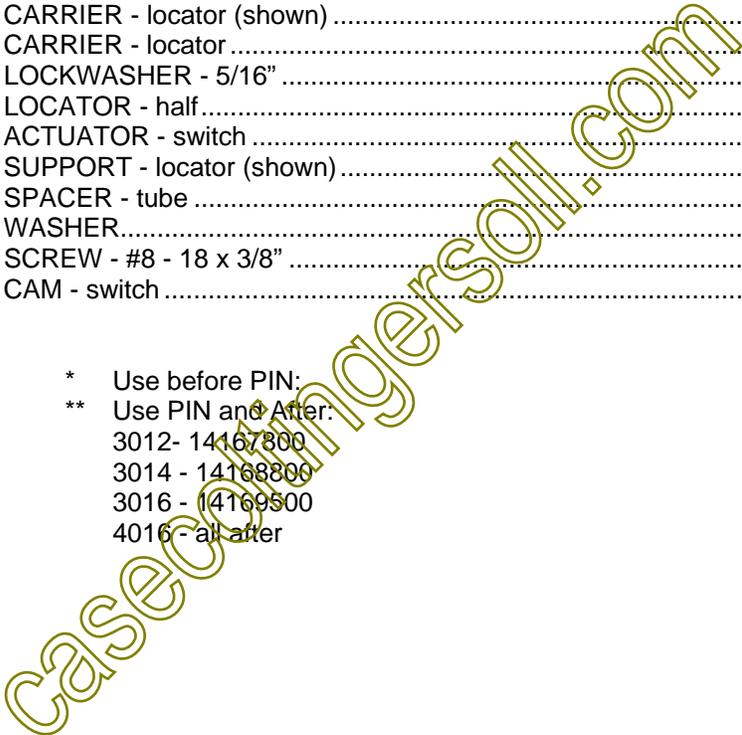
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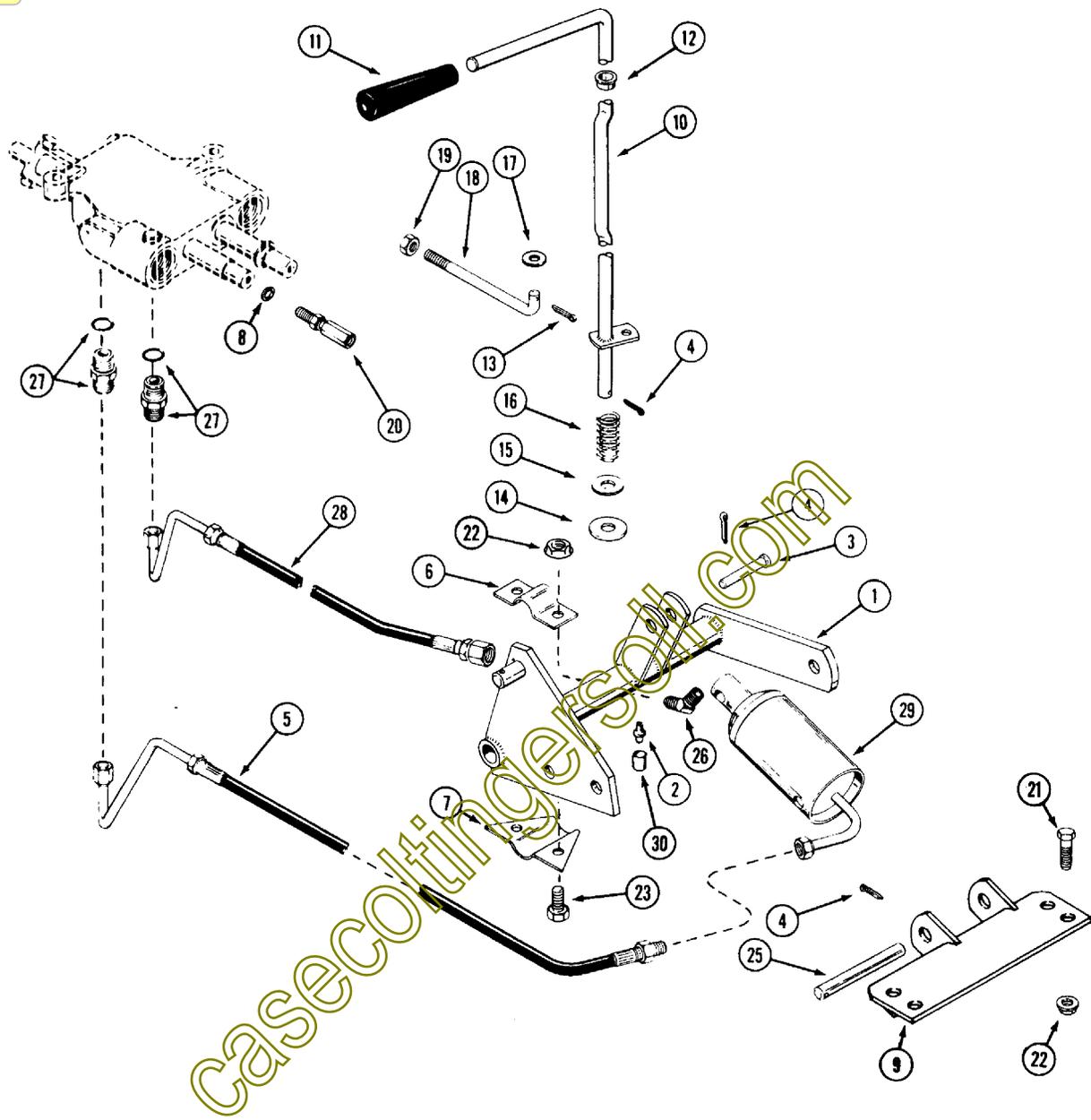
SPEED CONTROL

| REF. | PART NO. | DESCRIPTION | REQ'D |
|------|-----------|--|-------|
| 1 | C28237 | KNOB - speed control (Plastic) | 1 |
| 1 | C28237 | GRIP - speed control (Soft rubber) | 1 |
| 2 | C29636 | BUSHING - lever | 1 |
| 3 | C37250 | LEVER - speed control..... | 1 |
| 4 | C10482 | SPRING - compression..... | 1 |
| 5 | C21518 | WASHER - nylon..... | 1 |
| 6 | C31670 | ROD - control | 1 |
| 7 | 129-122 | NUT - 5/16" N.F. hex zinc plated | 1 |
| 8 | C19025 | JOINT - ball | 1 |
| 10 | 132-320 | PIN - cotter 3/32" x 3/4" | 1 |
| 11 | 138-2072 | PIN - roll 1/8" x 1-3/4" | 1 |
| 12 | C30827 | SPRING - locator | 2 |
| 13 | 113-14 | BOLT - 1/4" 20 x 2" | 2 |
| 14 | 192-19 | LOCKWASHER - 1/4" | 2 |
| 15 | C37255 ** | CARRIER - locator (shown) | 1 |
| 15 | C31678 * | CARRIER - locator | 1 |
| 16 | 192-20 | LOCKWASHER - 5/16" | 1 |
| 17 | C32362 | LOCATOR - half | 2 |
| 18 | C31674 * | ACTUATOR - switch | 1 |
| 18 | C37254 ** | SUPPORT - locator (shown) | 1 |
| 19 | C29653 | SPACER - tube | 2 |
| 20 | 195-513 | WASHER..... | 1 |
| 21 | 187-1328 | SCREW - #8 - 18 x 3/8" | 1 |
| 22 | C37198 ** | CAM - switch | 1 |

* Use before PIN:
 ** Use PIN and After:
 3012- 14167800
 3014 - 14168800
 3016 - 14169500
 4016 - all after



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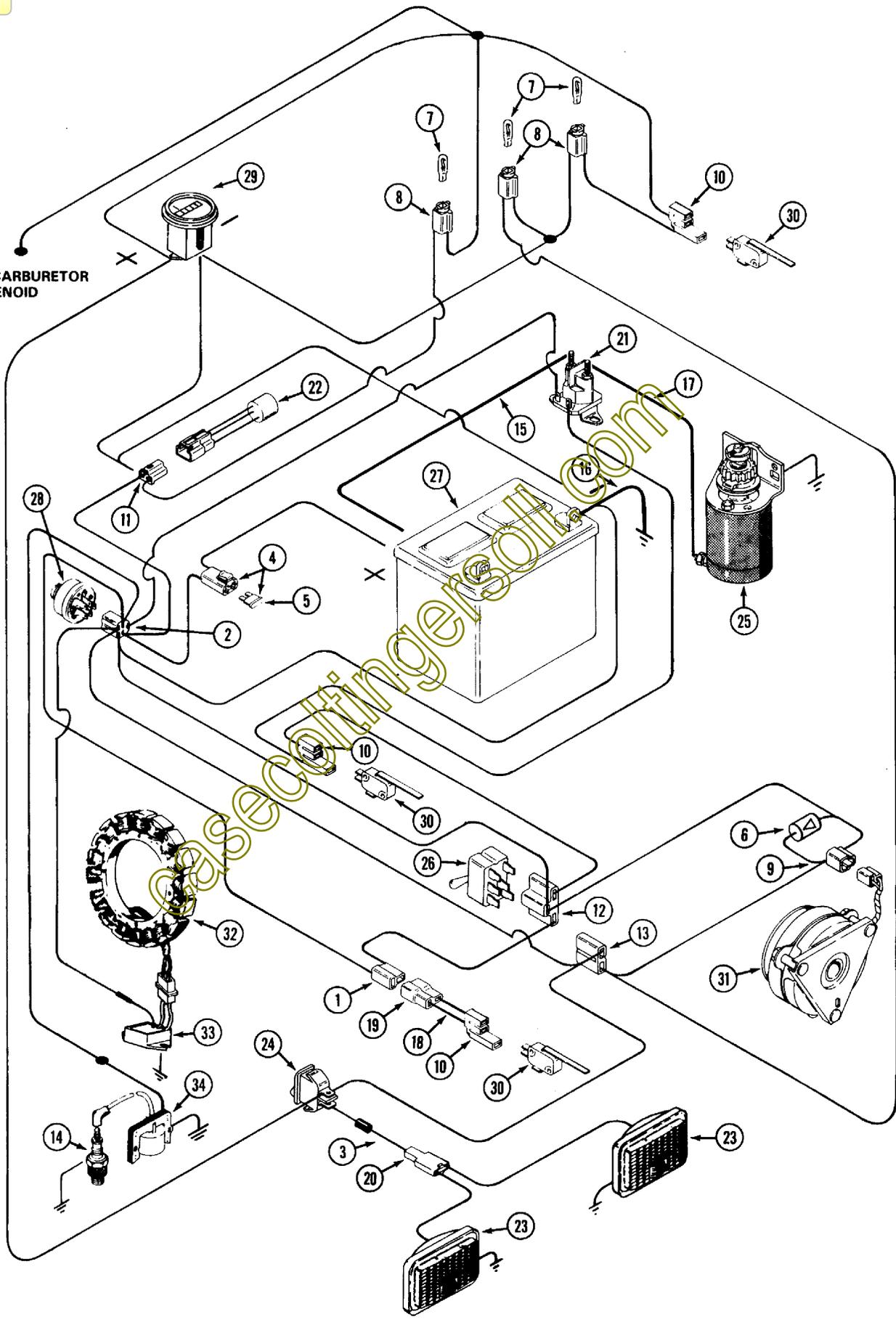


HYDRAULIC LIFT

| REF. | PART NO. | DESCRIPTION | REQ'D |
|------|----------|---|-------|
| 1 | C32259 | SHAFT ASSEMBLY - lift | 1 |
| 2 | 219-17 | FITTING - lubrication..... | 1 |
| 3 | C29693 | PIN - cylinder to lever, clevis..... | 1 |
| 4 | 132-310 | PIN - cotter 1/8" x 1"..... | 5 |
| 5 | C17734 | HOSE - long..... | 1 |
| 6 | C17249 | BRACKET - mounting, top..... | 2 |
| 7 | C17250 | BRACKET - mounting, bottom..... | 2 |
| 8 | 192-20 | LOCKWASHER - 5/16"..... | 1 |
| 9 | C33136 | BRACKET - cylinder..... | 1 |
| 10 | C33956 | LEVER - lift control..... | 1 |
| 11 | C28237 | KNOB - control lever (plastic)..... | 1 |
| | C46481 | GRIP - control lever (soft rubber)..... | 1 |
| 12 | C29636 | BUSHING - lift lever..... | 1 |
| 13 | 132-320 | PIN - cotter 3/32" x 3/4"..... | 1 |
| 14 | 195-533 | WASHER - 1/2"..... | 1 |
| 15 | C21518 | WASHER - nylon..... | 1 |
| 16 | C31681 | SPRING - control lever..... | 1 |
| 17 | 195-521 | WASHER - 5/16"..... | 1 |
| 18 | C31670 | ROD - control..... | 1 |
| 19 | 129-122 | NUT - 5/16" N.F. hex..... | 1 |
| 20 | C19025 | BALL JOINT..... | 1 |
| 21 | 113-209 | BOLT - 3/8" x 1-1/2" N.C. hex..... | 8 |
| 22 | 131-938 | NUT - lock 3/8" N.C. hex..... | 8 |
| 23 | 113-208 | BOLT - 3/8" - 16 x 1-1/4"..... | 4 |
| 25 | C26188 | PIN - cylinder base..... | 1 |
| 26 | 218-1093 | FITTING - hydraulic 45 elbow..... | 1 |
| 27 | 218-5056 | FITTING - valve (includes 218-5004 "O" ring)..... | 2 |
| 28 | C31682 | HOSE - short..... | 1 |
| 29 | C27590 | CYLINDER - lift..... | 1 |
| | C30054 | KIT - seal..... | 1 |
| 30 | C13106 | COVER - lubrication fitting..... | 1 |

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TO CARBURETOR SOLENOID



MODEL 3012, 3014, 3016 AND 4016 COMPACT TRACTORS

ELECTRICAL SYSTEM

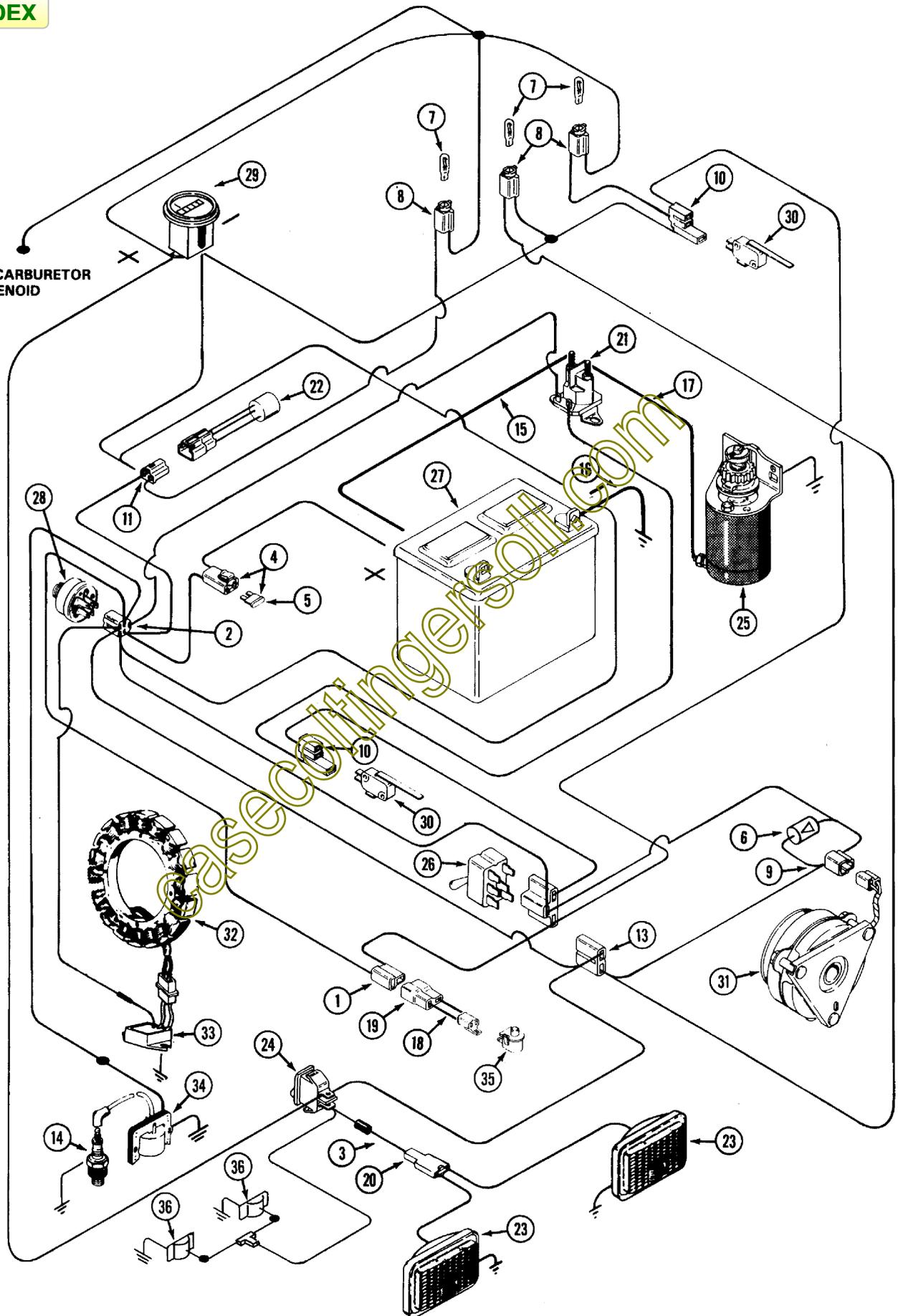
Use before PIN:
3012 - 14167800
3014 - 14168800
3016 - 14169500

AFTER THESE PIN'S

| REF. | PART NO. | DESCRIPTION | REQ'D |
|------|----------|--|-------|
| | C33436 | HARNESS - wire | 1 |
| 1 | C25338 | CONNECTOR - seat harness, male | 1 |
| 2 | C24460 | CONNECTOR - ignition switch | 1 |
| 3 | C34181 | WIRE - lights | 1 |
| 4 | C31947 | KIT - fuse holder..... | 1 |
| 5 | C30260 | FUSE - 30 amp | 1 |
| 6 | C31986 | KIT - diode, 6 amp, 15 volt..... | 1 |
| 7 | C30262 | BULB - indicator light (not included with harness) | 3 |
| 8 | C30263 | SOCKET - bulb | 3 |
| 9 | C31948 | CONNECTOR - PTO male..... | 3 |
| 10 | C30279 | CONNECTOR - switch..... | 3 |
| 11 | C25486 | CONNECTOR - sensor | 1 |
| 12 | C31950 | CONNECTOR - 3 terminal..... | 1 |
| 13 | C31951 | CONNECTOR - PTO switch, 2 terminal | 1 |
| 14 | C34291 | SPARK PLUG - includes gasket | 2 |
| 15 | C33022 | CABLE - battery positive to solenoid | 1 |
| 16 | C31943 | CABLE - battery negative to ground | 1 |
| 17 | C33088 | CABLE - solenoid to starter..... | 1 |
| 18 | C31945 | HARNESS - seat switch (includes ref. 10 and 19)..... | 1 |
| 19 | C24813 | CONNECTOR - seat harness, female | 1 |
| 20 | C14537 | CONNECTOR - headlights | 1 |
| 21 | C33024 | SOLENOID - start, 12 volt..... | 1 |
| 22 | C31617 | SENSOR - voltage (includes connector)..... | 1 |
| 23 | C32178 | HEADLIGHT - 12 volt (see page 55 for repairs) | 2 |
| 24 | C43044 | SWITCH - headlight | 1 |
| 25 | C34284 | STARTER - 12 volt (see page 17 for repairs) | 1 |
| 26 | C31937 | SWITCH - PTO | 1 |
| 27 | C31213 | BATTERY - 12 volt, 32 amps, 230 CCA | 1 |
| 28 | C30267 | SWITCH - ignition (includes key and hardware)..... | 1 |
| | C32407 | KEY - ignition | 2 |
| 29 | C42929 | HOURMETER | 1 |
| 30 | C30275 | SWITCH - inter - lock | 3 |
| 31 | C33197 | CLUTCH - PTO (see page 21 for repairs) | 1 |
| 32 | C34303 | STATOR - charging..... | 1 |
| 33 | C34304 | RECTIFIER - voltage, 12 volts | 1 |
| 34 | C34289 | ARMATURE - magneto (3012, 3014) | 2 |
| 34 | C34294 | ARMATURE - magneto (3016) | 2 |

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TO CARBURETOR
SOLENOID



MODEL 3012, 3014, 3016 AND 4016 COMPACT TRACTORS

ELECTRICAL SYSTEM

Use PIN and After:

3012 - 14167800

3014 - 14168800

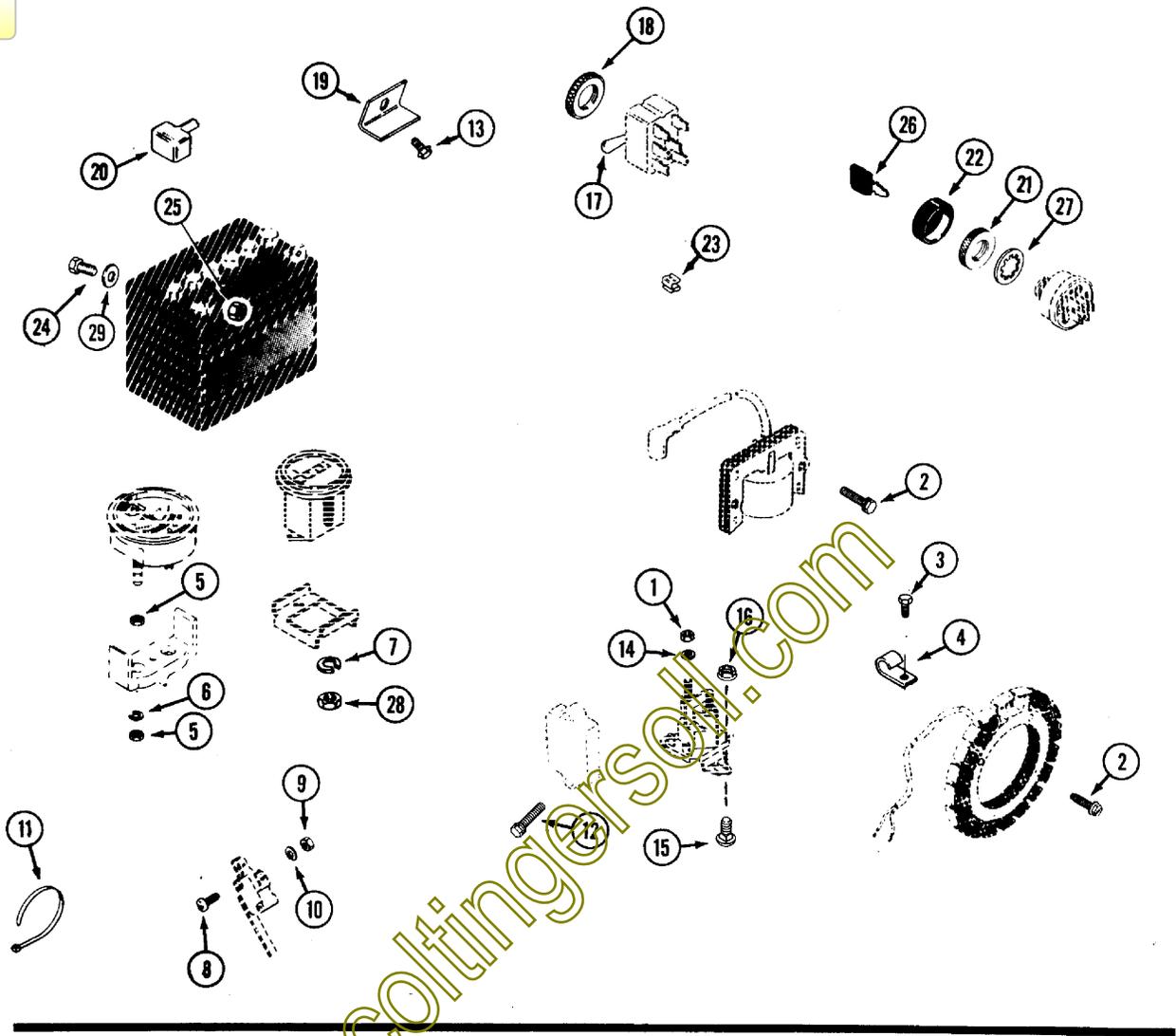
3016 - 14169500

4016 – All

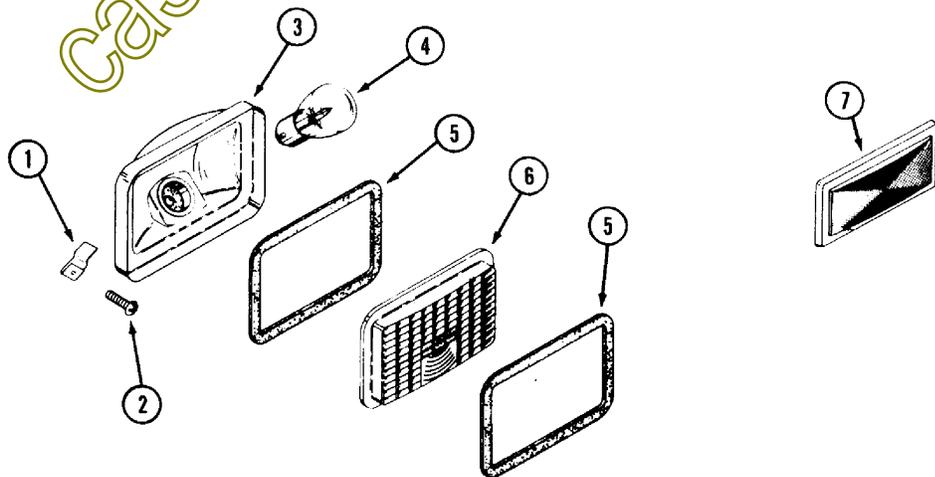
BEFORE THESE PINS

| REF. | PART NO. | DESCRIPTION | REQ'D |
|------|----------|--|-------|
| | C46800 | HARNESS – wire, rear (seat, switch, etc)..... | 1 |
| | C44935 | HARNESS – wire, main | 1 |
| 1 | C25338 | CONNECTOR - seat harness, male..... | 1 |
| 2 | C24460 | CONNECTOR - ignition switch..... | 1 |
| 3 | C34181 | WIRE - lights..... | 1 |
| 4 | C31947 | KIT - fuse holder..... | 1 |
| 5 | C30260 | FUSE - 30 amp..... | 1 |
| 6 | C31986 | KIT - diode, 6 amp, 15 volt | 1 |
| 7 | C30262 | BULB - indicator light (not included with harness) | 3 |
| 8 | C30263 | SOCKET - bulb..... | 3 |
| 9 | C31948 | CONNECTOR - PTO male..... | 1 |
| 10 | C30279 | CONNECTOR - switch | 3 |
| 11 | C25486 | CONNECTOR - sensor | 1 |
| 12 | C31950 | CONNECTOR - 3 terminal | 1 |
| 13 | C31951 | CONNECTOR - PTO switch, 2 terminal..... | 1 |
| 14 | C34291 | SPARK PLUG - includes gasket..... | 2 |
| 15 | C33022 | CABLE - battery positive to solenoid | 1 |
| 16 | C31943 | CABLE - battery negative to ground..... | 1 |
| 17 | C37272 | CABLE - solenoid to starter..... | 1 |
| 18 | C37270 | HARNESS - seat switch and taillights..... | 1 |
| 19 | C24813 | CONNECTOR - seat harness, female..... | 1 |
| 20 | C14537 | CONNECTOR - headlights | 1 |
| 21 | C33024 | SOLENOID - start, 12 volt..... | 1 |
| 22 | C31617 | SENSOR - voltage (includes connector)..... | 1 |
| 23 | C32178 | HEADLIGHT - 12 volt (see page 55 for repairs) | 2 |
| 24 | C29322 | SWITCH - headlight | 1 |
| 25 | C34284 | STARTER - 12 volt (see page 17 for repairs) | 1 |
| 26 | C31937 | SWITCH - PTO..... | 1 |
| 27 | C41010 | BATTERY - 12 volt | 1 |
| 28 | C30267 | SWITCH - ignition (includes key and hardware)..... | 1 |
| | C32407 | KEY - ignition..... | 2 |
| 29 | C33756 | HOURMETER | 1 |
| 30 | C30275 | SWITCH - inter - lock | 2 |
| 31 | C33197 | CLUTCH - PTO (see page 21 for repairs) | 1 |
| 32 | C34303 | STATOR - charging..... | 1 |
| 33 | C34304 | RECTIFIER - voltage, 12 volts..... | 1 |
| 34 | C34289 | ARMATURE - magneto (3012, 3014) | 2 |
| 34 | C34294 | ARMATURE - magneto (3016, 4016) | 2 |
| 35 | C33744 | SWITCH – seat, gray (shown) | 1 |
| 35 | C45537 | SWITCH – seat strip style, inserted into the seat | 1 |
| 36 | C37165 | LIGHTS - tail | 2 |

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INDEX**MODEL 3012, 3014, 3016 AND 4016 COMPACT TRACTORS****ELECTRICAL SYSTEM HARDWARE**

| REF. | PART NO. | DESCRIPTION | REQ'D |
|------|----------|--|-------|
| 1 | 129-101 | NUT - 1/4"-20 | 2 |
| 2 | C34290 | SCREW - sems | 6 |
| 3 | C37200 | SCREW - 6mm..... | 1 |
| 4 | C32455 | CLIP - wire..... | 2 |
| 5 | 129-27 | NUT - #10..... | 4 |
| 6 | 193-99 | LOCKWASHER - #10 | 2 |
| 7 | 192-16 | LOCKWASHER - #8 | 2 |
| 8 | C33696 | SCREW - #4 - 40 x 1-1/8" | 2 |
| 9 | C33697 | NUT - # 4 - 40 | 2 |
| 10 | 192-13 | LOCKWASHER - #4 | 2 |
| 11 | C22947 | TIE - nylon..... | UAR |
| 12 | C34310 | SCREW - rectifier mounting | 2 |
| 13 | 121-21 | BOLT - 1/4" - 20 x 1/2" flange lock..... | 1 |
| 14 | 192-19 | LOCKWASHER - 1/4" | 2 |
| 15 | 111-101 | BOLT - 1/4" - 20 x 5/8" carriage | 2 |
| 16 | 131-934 | NUT - 1/4" - 20 flange | 2 |
| 17 | C31619 | CAP - PTO switch | 1 |
| 18 | C31620 | NUT - knurled 1/2" - 27 | 1 |
| 19 | C33475 | RETAINER - battery..... | 1 |
| 20 | C24069 | COVER - terminal | 1 |
| 21 | C32396 | NUT - switch 5/8" - 32 | 1 |
| 22 | C32397 | CAP - nut..... | 1 |
| 23 | C19521 | CLIP - wire..... | 3 |
| 24 | 113-3 | BOLT - 1/4" - 20 x 3/4" | 2 |
| 25 | 129-102 | NUT - 1/4" - 20 | 2 |
| 26 | C32407 | KEY - ignition | 1 |
| 27 | C23012 | LOCKWASHER..... | 1 |
| 28 | 129-36 | NUT - #8 - 36 | 2 |
| 29 | 195-518 | WASHER - 1/4" | 2 |

INDEX**HEADLIGHT ASSEMBLY AND REAR REFLECTOR**

| REF. | PART NO. | DESCRIPTION | REQ'D |
|------|----------|--|-------|
| 1 | C29637 | RETAINER - head light..... | 4 |
| 2 | 187-1328 | SCREW - No. 8 x 3/8" | 4 |
| | C32178 | HEADLIGHT ASSEMBLY | 2 |
| 3 | NSS | RECEPTACLE - headlight (order C32178)..... | 1 |
| 4 | C28932 | BULB - headlight..... | 1 |
| 5 | C14304 | GASKET - headlight..... | 2 |
| 6 | C22573 | LENS - headlight..... | 1 |
| 7 | C30942 | REFLECTOR - red, rear fender | 2 |

①
INGERSOLL 3012

⑦
INGERSOLL 3014

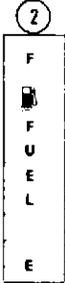
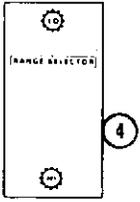
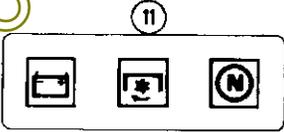
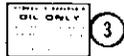
⑥
INGERSOLL 3016

⑰
INGERSOLL 3018

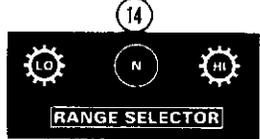
⑫
INGERSOLL 4016



⑤
BRAKE: PULL UP LEFT SIDE OF TRACTOR
PARKING BRAKE LOCK
TO ENGAGE. PUSH BRAKE AND PUSH LOCK DOWN
TO RELEASE. PUSH BRAKE PEDAL DOWN



⑨
CAUTION
READ OPERATOR'S MANUAL
KNOW LOCATION AND FUNCTION OF ALL CONTROLS
KEEP ALL SWITCHES AND SAFETY SWITCHES FUNCTIONAL
BEFORE STARTING ENGINE. DIM INHALE ATTACHMENT
BRAKE AND PLACE TRACTOR CONTROL IN NEUTRAL.
REMOVE OBJECTS FROM THE TERRAIN THAT COULD
BE INJURED BY THE ATTACHMENT.
KEEP PEOPLE AND PETS A SAFE DISTANCE AWAY
WHILE WORKING.
ALWAYS LOCK WRENCH TRACTOR BEFORE BACKING
OR ANY WHEEL THAT THE TRACTOR CAN BE SAFELY
OPERATED LOW RANGE GEAR.
FRONT END TIP OVER CAN OCCUR WHEN OPERATING ON
LOADING RAMPS OR HILLS. BACK UP RAMPS OR HILLS
DRIVE FORWARD SLOWLY DOWN RAMPS OR HILLS
TO LEAVE TRACTOR. PLACE TRACTOR CONTROL IN
NEUTRAL, SET PARKING BRAKE, DISMOUNT
ATTACHMENT DRIVE, REMOVE KEY AND REMOVE KEY
FRAME TRACTOR BEFORE SERVICING OR MAKING
ADJUSTMENTS TO TRACTOR OR ATTACHMENTS.
FAILURE TO OBSERVE THESE PRECAUTIONS
COULD RESULT IN INJURY.



⑧
INGERSOLL



DECALS

| REF. | PART NO. | DESCRIPTION | REQ'D |
|------|------------|---------------------------------------|-------|
| 1 | C33429 * | DECAL - "3012" hood L.H..... | 1 |
| 1 | C32002 * | DECAL - "3012" hood R.H..... | 1 |
| 1 | C36918 ** | DECAL - "3012" hood L.H. (shown)..... | 1 |
| 1 | C36919 ** | DECAL - "3012" hood R.H..... | 1 |
| 2 | C33588 | DECAL - fuel gauge..... | 1 |
| 3 | 321-4767 | DECAL - hydraulic reservoir..... | 1 |
| 4 | 321-1788 * | DECAL - shift range..... | 1 |
| 5 | C33590 | DECAL - brake..... | 1 |
| 6 | C32004 * | DECAL - "3016" hood L.H..... | 1 |
| 6 | C32005 * | DECAL - "3016" hood R.H..... | 1 |
| 6 | C36922 ** | DECAL - "3016" hood L.H. (shown)..... | 1 |
| 6 | C36923 ** | DECAL - "3016" hood R.H..... | 1 |
| 7 | C36920 ** | DECAL - "3014" hood L.H. (shown)..... | 1 |
| 7 | C36921 ** | DECAL - "3014" hood R.H..... | 1 |
| 7 | C33430 * | DECAL - "3014" hood L.H..... | 1 |
| 7 | C32003 * | DECAL - "3014" hood R.H..... | 1 |
| 8 | C32093 * | DECAL - seat back "Ingersoll"..... | 1 |
| 9 | 321-6659 | DECAL - "Caution"..... | 1 |
| 10 | C30539 | MEDALLION..... | 1 |
| 11 | C30274 ** | LENS - display..... | 1 |
| 12 | C37071 | DECAL - "4016" hood L.H. (shown)..... | 1 |
| 12 | C37072 | DECAL - "4016" hood R.H..... | 1 |
| 13 | C34184 ** | DECAL - flag..... | 1 |
| 14 | C37274 ** | DECAL - shift range..... | 1 |
| 15 | C37275 ** | DECAL - PTO..... | 1 |
| 16 | C37197 ** | DECAL - steering wheel..... | 1 |
| 17 | C45425 | DECAL - "3018" hood R.H..... | 1 |
| 17 | C45424 | DECAL - "3018" hood L.H..... | 1 |

* Use before PIN:
 ** Use PIN and after:
 3012 - 14167800
 3014 - 14168800
 3016 - 14169500

