

MODEL 12 BLIZZARD



PARTS MANUAL

S/N 40305

MANUFACTURED BY
MORBARK INC.

02/02

CALIFORNIA

Proposition 65 Warning

Diesel engine exhaust and some of its constituents are known to the state of California to cause cancer, birth defects, and other reproductive harm.

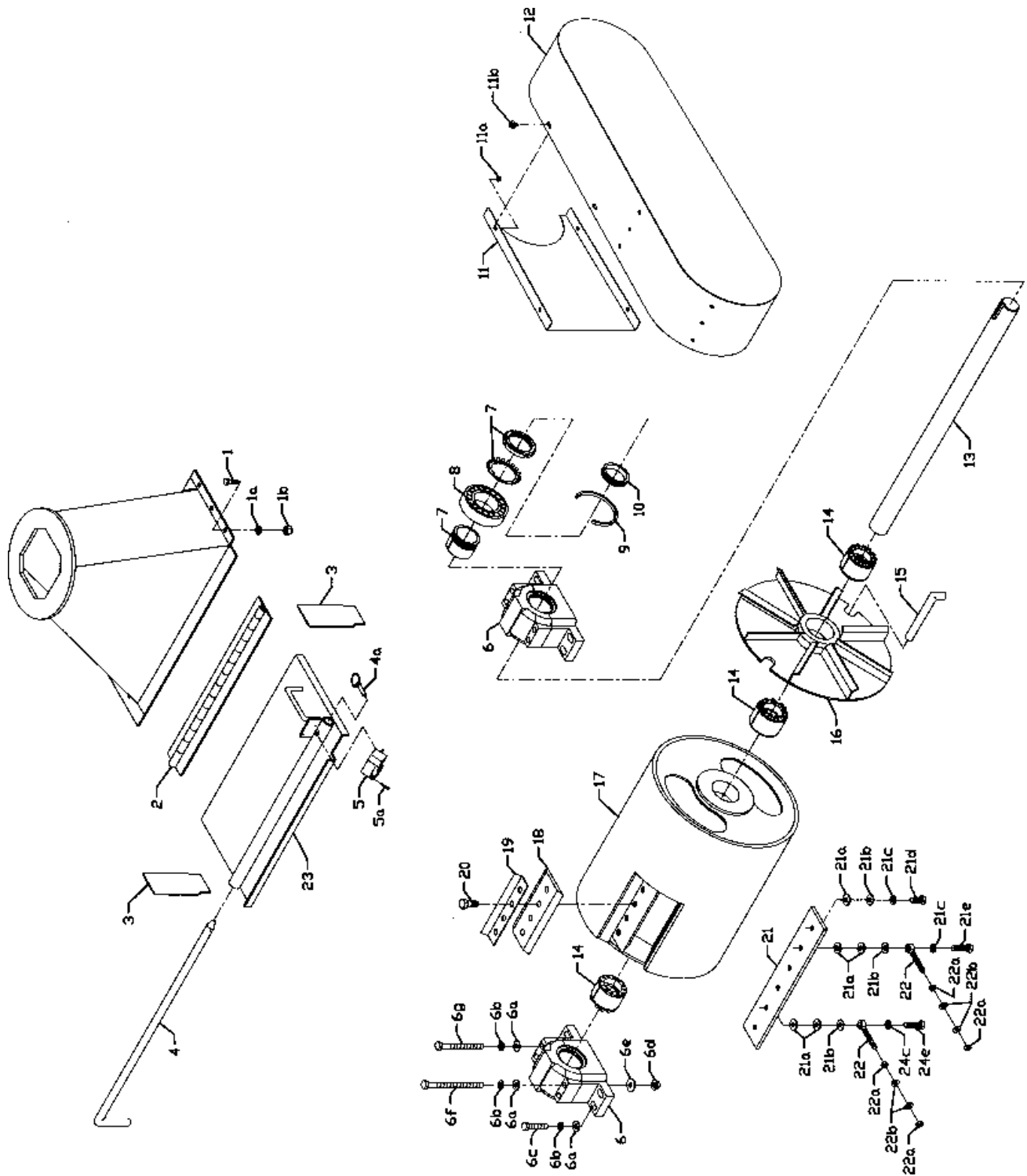
WARNING

The engine exhaust from this product contains chemicals known to the state of California to cause cancer, birth defects or other reproductive harm.

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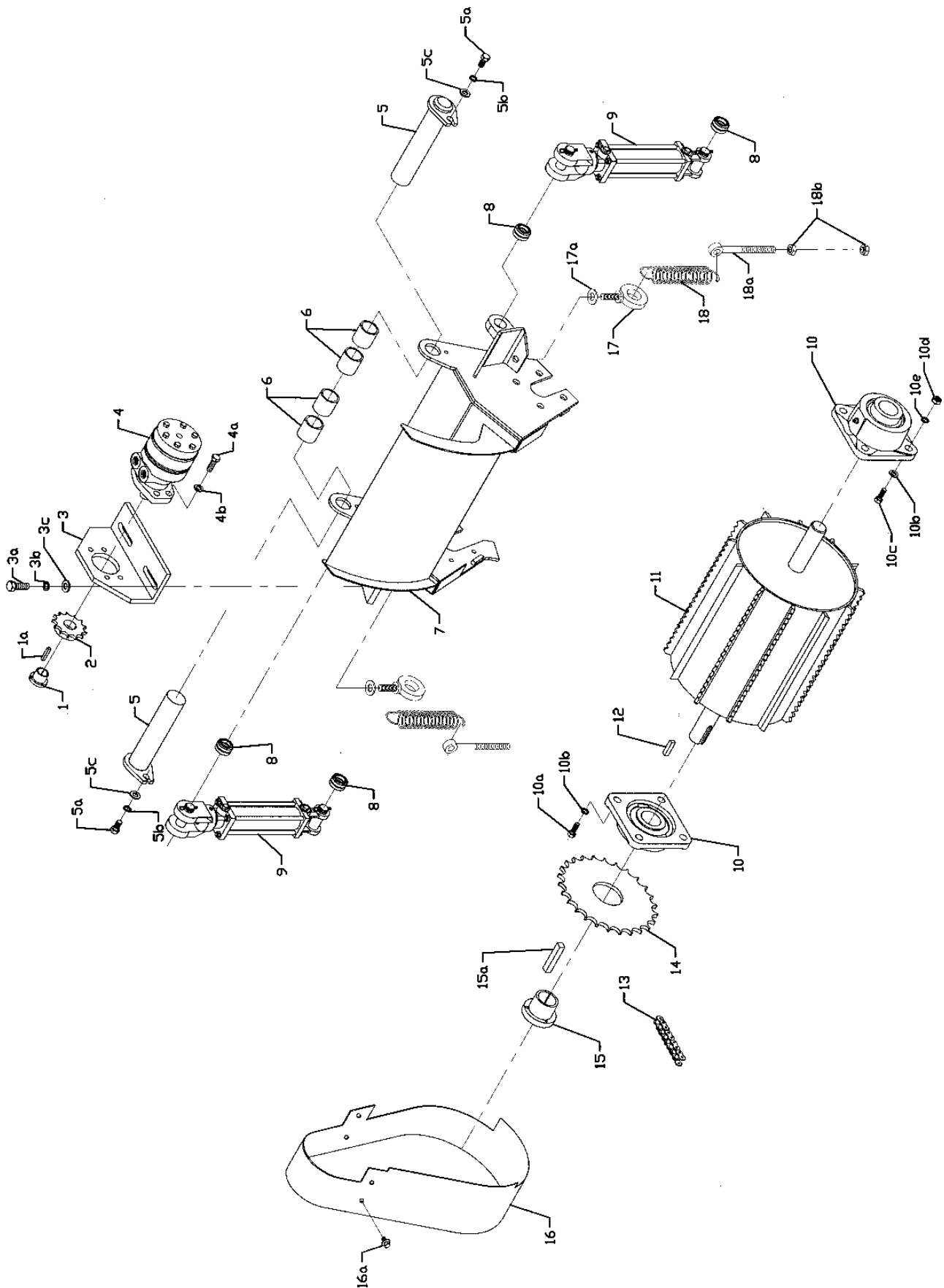
CHIPPER COMPONENTS



CHIPPER COMPONENTS

ITEM	QTY.	PART NO.	DESCRIPTION
1	6	21624-255	1/2" X 1 1/2" GR 8 BOLT
1A	6	21161-044	1/2" HARD FLAT WASHERS
1B	6	21733-305	1/2" NYLOC NUTS
2	1	31205-901	HINGE
3	2	30024-452	INSERTS
4	1	30438-452	PIN – HOOD
4A	1	21129-054	PIN – LYNCH
5	1	27413-566	SWITCH – SHUT-OFF
5A	2	21511-230	10-24 X 1 1/4" SCREW
6	2	23973-645	BEARING – HOUSING
6A	16	21161-046	5/8" HARD FLAT WASHER
6B	16	21171-143	1/2" LOCK WASHER
6C	8	21624-261	1/2" X 3" BOLT
6D	8	21733-409	1/2" STOVER NUT
6E	8	21161-364	1/2" FLAT WASHERS
6F	4	21624-261	1/2" X 3" GR 8 BOLTS
6G	4	21624-273	1/2" X 8" BOLT
(NOTE: QUANTITIES ARE FOR BOTH BEARINGS)			
7	2	23962-255	SNW ASSEMBLIES
8	2	23661-360	BEARINGS
9	2	23973-687	STABILIZING RING
10	4	23973-226	OIL SLINGERS
11	1	30413-452	BELT SHIELD BACKER
11A	4	21731-066	3/8" GR 8 NUTS
11B	A/R	21620-103	3/8" X 3/4" BOLT/WASHER
12	1	40253-452	BELT SHIELD
13	1	30756-452	SHAFT
14	1	31030-462	DRUM LOCKING PIN
15	3	24114-607	LOCKING – ASSEMBLY
16	1	40304-452	FAN ASSEMBLY
17	1	40470-452	DRUM ASSEMBLY
18	2	39233-692	KNIFE
19	2	30130-101	KNIFE – CLAMP
20	8	22424-403	3/4" X 1 1/2" GR 8 BOLTS
21	1	30412-462	ANVIL
21A	8	21161-359	5/8" FLAT WASHER
21B	6	21161-046	5/8" HARD FLAT WASHER
21C	6	21171-113	1/2" LOCK WASHER
21D	4	22424-353	5/8" X 1 1/2" BOLT
21E	2	22424-356	5/8" X 2 1/4" GR 8 BOLT
22	2	21711-018	1/2" X 3 1/2" EYE BOLT
22A	4	21731-068	1/2" GR 8 NUT
22B	4	21161-044	1/2" FLAT WASHER
NS.	1	40469-452	BASE ASSEMBLY
23	1	40220-452	DRUM BASE COVER
23A	1	40051-451	DRUM BASE COVER (DUST SUPPRESSION ONLY)

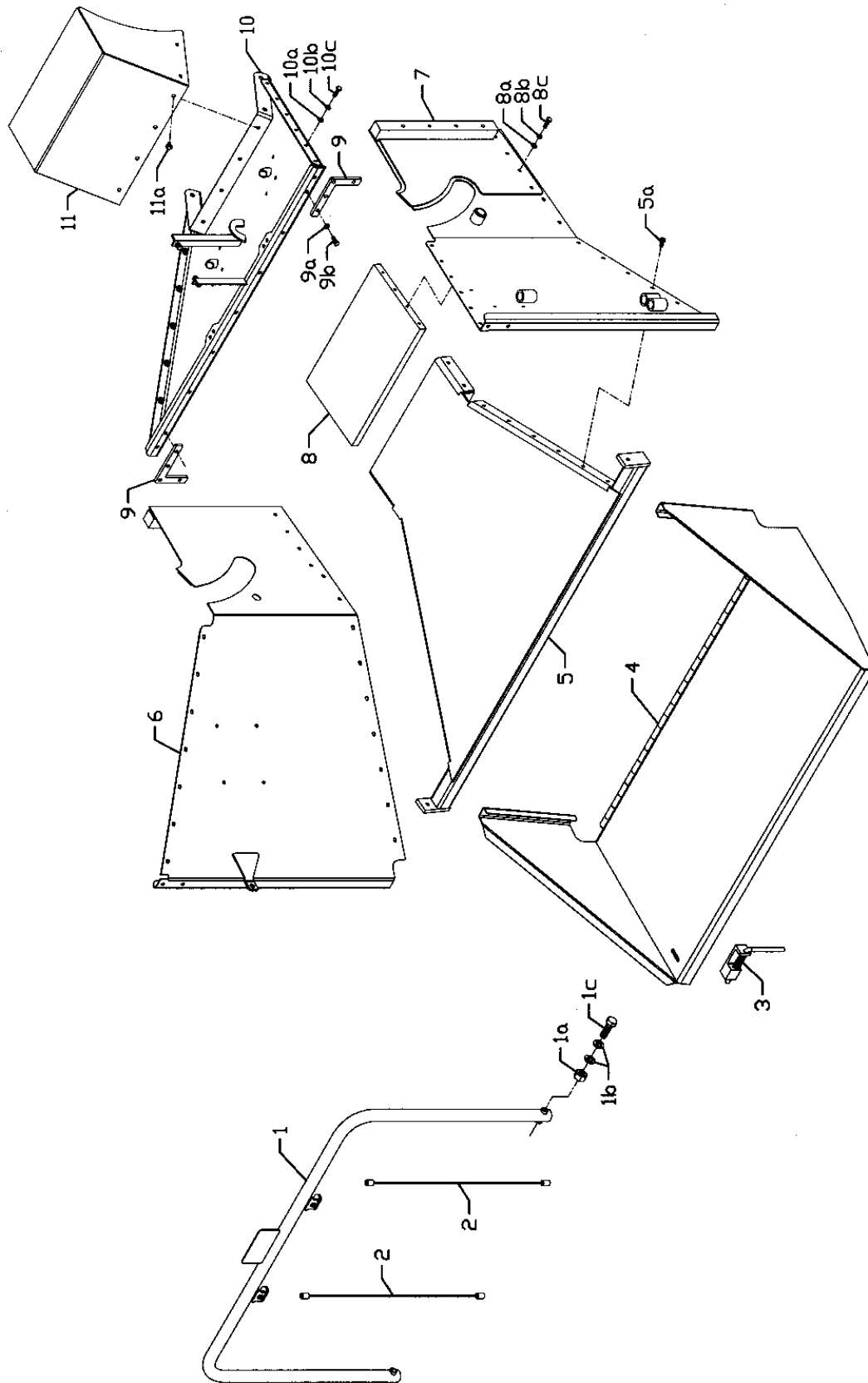
COMBO INFEED COMPONENTS



COMBO INFEED COMPONENTS

ITEM	QTY.	PART NO.	DESCRIPTION
1	1	24132-105	P1 1 1/4" DRIVE BUSHING
1A	1	30894-701	STEPKEY
2	1	24264-753	H60P15 DRIVE SPROCKET
3	1	30480-701	MOUNT – MOTOR
3A	2	21161-359	5/8" HARD FLAT WASHER
3B	2	21171-145	5/8" LOCK WASHER
3C	2	21624-352	5/8" X 1 1/4" GR 8 BOLT
4	1	26737-282	32 C.I. MOTOR
4A	4	21171-143	1/2" LOCK WASHER
4B	4	21624-255	1/2" X 1 1/2" GR 8 BOLT
5	2	40567-462	PIN – PIVOT
5A	2	21161-044	1/2" HARD FLAT WASHER
5B	2	21171-143	1/2" LOCK WASHER
5C	2	21624-253	1/2" X 1" GR 8 BOLT
6	4	23131-113	BUSHING – FIBER
7	1	40017-451	YOKE ASSEMBLY
8	4	30784-901	10 SFV 16 BEARING
9	2	26816-812	2006 HYD CYLINDER
10	4	23918-629	2 7/16" FLANGE BEARINGS
10A	4	21625-355	5/8" X 2" GR 8 BOLTS
10B	8	21171-145	5/8" LOCK WASHER
10C	4	21624-357	5/8" X 2 1/2" GR 8 BOLT
10D	1	21731-070	5/8" GR 8 NUT
10E	1	21171-145	5/8" LOCK WASHER
11	1	40434-452	FEED WHEEL ASSEMBLY
12	1	36359-700	KEYWAY
13	1	24251-025	#60 CHAIN – ROLLER
	1	24251-025	#60 CHAIN
(NOTE THE ABOVE NUMBER IS FOR 10 FOOT OF CHAIN)			
N.S.	1	24251-027	#60 MASTER LINK
N.S.	1	24251-028	#60 HALF LINK
N.S.	1	24251-027	#60 MASTER LINK
N.S.	1	24251-028	#60 HALF LINK
14	1	24264-837	60Q45 DRIVEN SPROCKET
15	1	24132-212	Q1 2" DRIVEN BUSHING
15A	1	36359-700	STEPKEY
16	1	40018-451	GUARD – CHAIN
16A	4	21620-103	3/8" X 3/4" BOLT/WASHER
17	2	22511-120	3/4" X 2" EYEBOLTS
17A	2	21733-308	3/4" NYLOC NUTS
18	2	24741-621	SPRINGS
18A	2	21711-029	5/8" X 7" EYEBOLTS
18B	2	21731-070	5/8" GR 8 NUTS

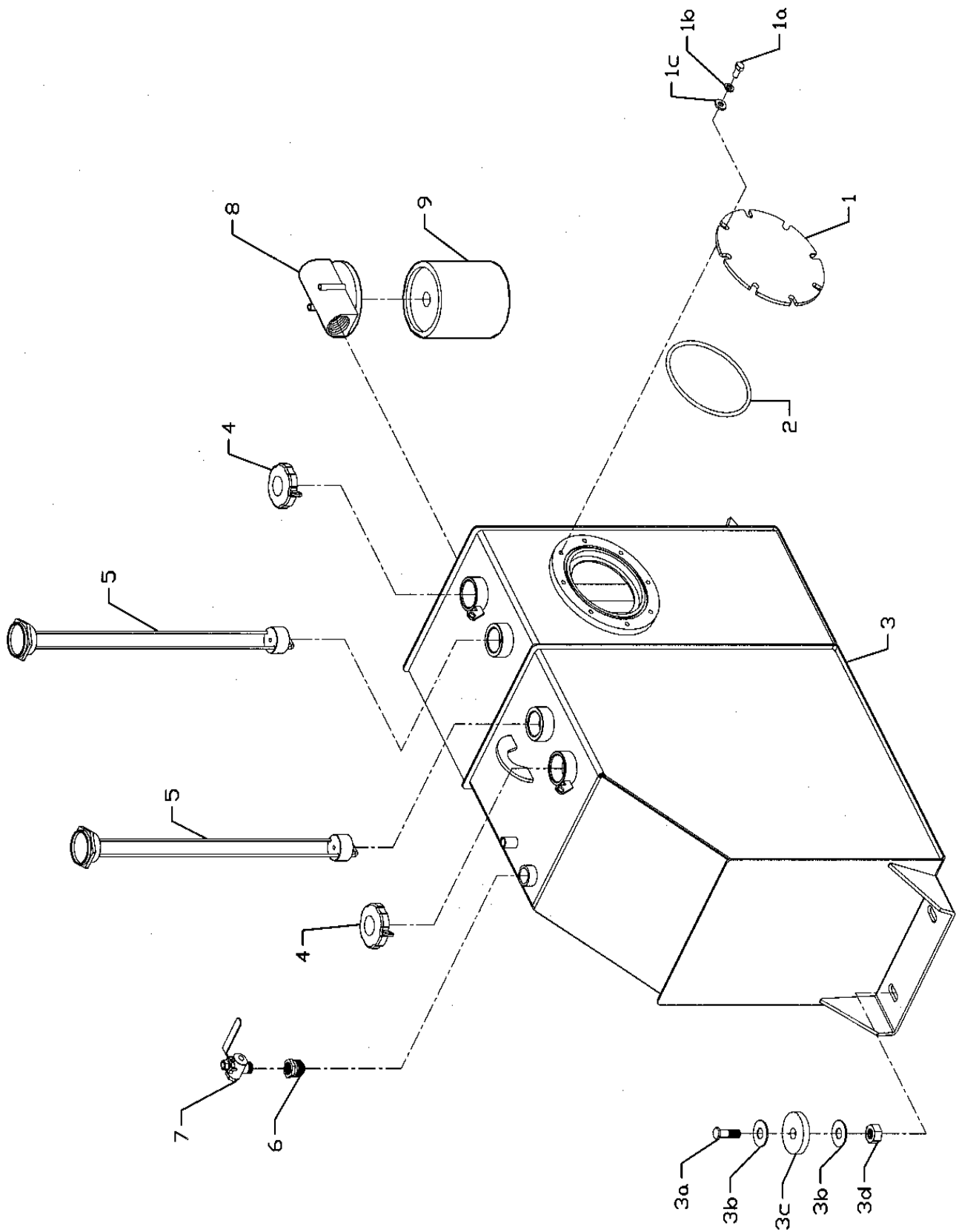
INFEED TRAY COMPONENTS



INFEED TRAY COMPONENTS

ITEM	QTY	PART NO	DESCRIPTION
1	1	40030-451	CONTROL HANDLE
1A	2	21624-259	1/2" X 2 1/2" GR 8 BOLTS
1B	4	21161-044	1/2" HARD FLAT WASHERS
1C	2	21733-305	1/2" NYLOC NUTS
2	2	24714-308	SAFETY CABLE
3	2	24717-270	1/2" LATCH PINS
4	1	40032-451	FOLDING INFEED TRAY
5	1	40013-451	BOTTOM INFEED PANEL
5A	A/R	21612-310	3/8" X 3/4" GR 5 SPIN LOCK BOLTS
6	1	40012-451	ROAD SIDE INFEED PANEL
7	1	40011-451	CURB SIDE INFEED PANEL
8	1	30024-451	BOTTOM INFEED INSERT PANEL
8A	A/R	21624-103	3/8" X 3/4" GR 8 BOLTS
8B	A/R	21171-140	3/8" LOCK WASHERS
8C	A/R	21161-042	3/8" HARD FLAT WASHERS
9	2	30075-451	L-BRACKETS
9A	A/R	21624-103	3/8" X 3/4" GR 8 BOLTS
9B	A/R	21171-140	3/8" LOCK WASHERS
10	1	40037-451	TOP PLATE ASSEMBLY
10A	A/R	21161-042	3/8" HARD FLAT WASHERS
10B	A/R	21171-140	3/8" LOCK WASHERS
10C	A/R	21612-310	3/8" X 3/4" GR 5 SPIN LOCK BOLTS
11	1	40015-451	YOKE COVER ASSEMBLY
11A	A/R	21612-310	3/8" X 3/4" GR 5 SPIN LOCK BOLTS

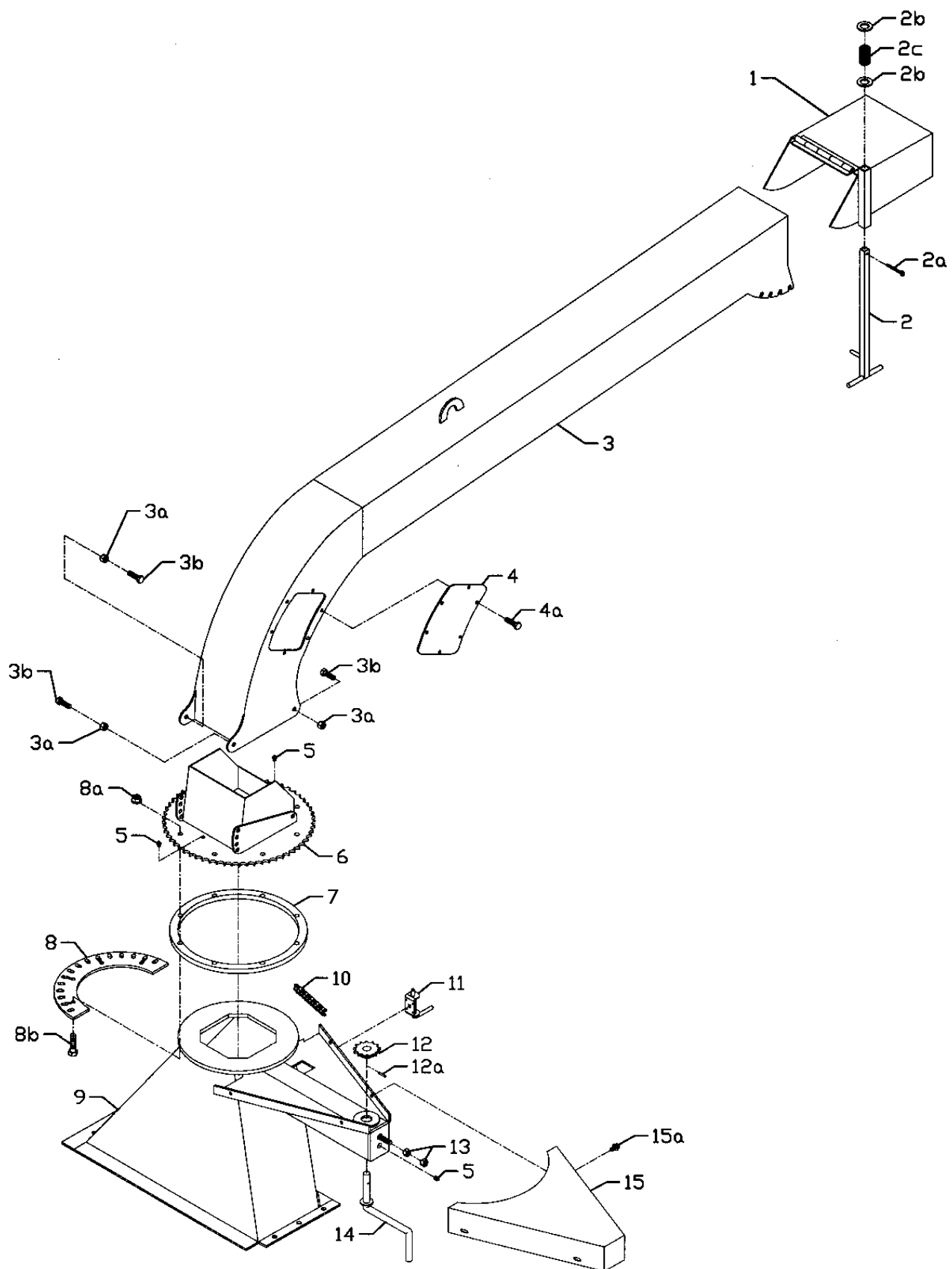
HYD/FUEL TANK COMPONENTS



HYD/FUEL TANK COMPONENTS

ITEM	QTY	PART NO	DESCRIPTION
1	1	30539-452	INSPECTION COVER
1A	8	21624-103	3/8" X 3/4" GR 8 BOLTS
1B	8	21171-140	3/8" LOCK WASHERS
1C	8	21161-042	3/8" HARD FLAT WASHERS
2	1	25152-362	CRUSH WASHER
3	1	40044-451	31 GAL FUEL / 14 GAL HYD TANK
3A	3	21624-255	1/2" X 1 1/2" GR 8 BOLTS
3B	6	21161-364	1/2" FLAT WASHERS
3C	3	24721-635	RUBBER GROMMETS
3D	3	21733-305	1/2" NYLOC NUTS
4	2	26849-150	FILLER CAP
5	2	26849-041	SIGHT GAUGE
6	1	25355-055	3/4" HALF COUPLING
7	1	40236-061	FUEL DRAW TUBE ASSY
8	1	26838-061	HYD FILTER HEAD
9	1	26838-071	HYD FILTERS
N.S.	1	26849-125	MAGNETIC DRAIN PLUG

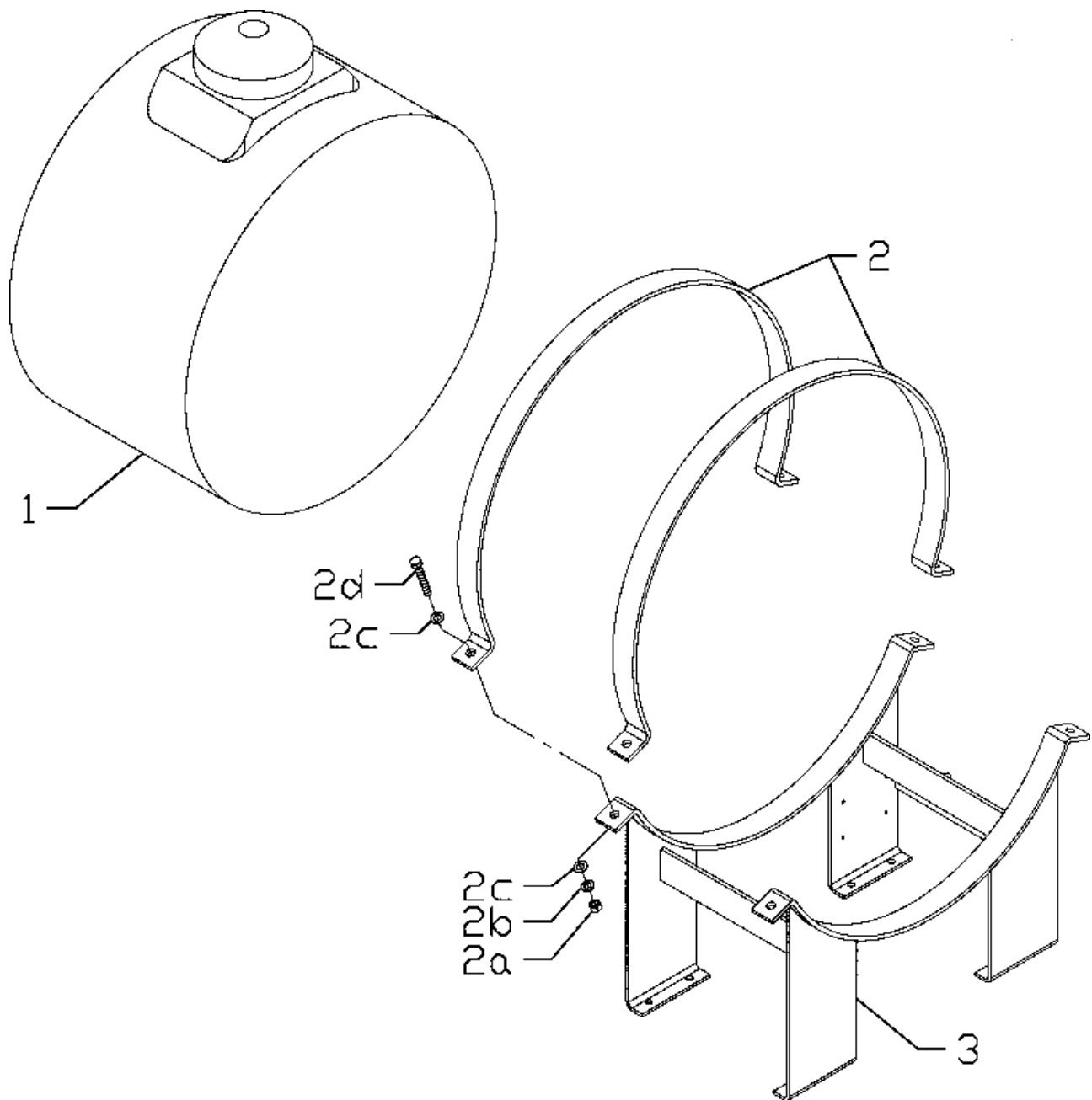
MAN DISCHARGE COMPONENTS



MAN DISCHARGE COMPONENTS

ITEM	QTY.	PART NO.	DESCRIPTION
1	1	40444-462	FLIPPER ASSEMBLY
2	1	40115-061	HANDLE ASSEMBLY
2A	1	21126-041	PIN – COTTER
2B	2	21161-048	7/8" FLAT WASHER
2C	1	26664-315	SPRING
3	1	40462-452	DISCHARGE ASSEMBLY
N.S.	1	40459-452	DISCHARGE ASSY W/O CLEANOUT
3A	4	21733-305	1/2" NYLOC NUT
3B	4	21624-255	1/2" X 1 1/2" GR 8 BOLT
4	1	31663-462	CLEAN OUT COVER (OPTIONAL)
4A	6	21620-103	3/8" X 3/4" BOLTS
5	3	26891-001	GREASE ZERK
6	1	40461-452	SWIVEL/TILT ASSY
7	1	31056-462	SPACER RING
8	2	30759-452	CLAMP RING
8A	8	21733-409	1/2" STOVER NUT
8B	8	21624-258	1/2" X 2 1/4" GR 8 BOLT
9	1	40472-452	MANUAL CRANK ASSEMBLY
9A	1	40053-451	MANUAL CRANK ASSEMBLY (DUST SUPPRESSION ONLY)
10	1	24251-025	#60 CHAIN
(NOTE THE ABOVE NUBER IS FOR 10 FOOT OF CHAIN)			
N.S.	1	24251-027	#60 MASTER LINK
N.S.	1	24251-028	#60 HALF LINK
11	1	24717-273	PIN
12	1	24264-102	60B10 SPROCKET
12A	1	21133-151	PIN DOWEL
13	2	21731-068	1/2" GR 8 NUT
14	1	40324-452	HANDLE ASSEMBLY – CRANK
15	1	30595-452	COVER
15A	4	21620-103	3/8" X 3/4" BOLT/WASHER

DUST SUPPRESSION COMPONENTS

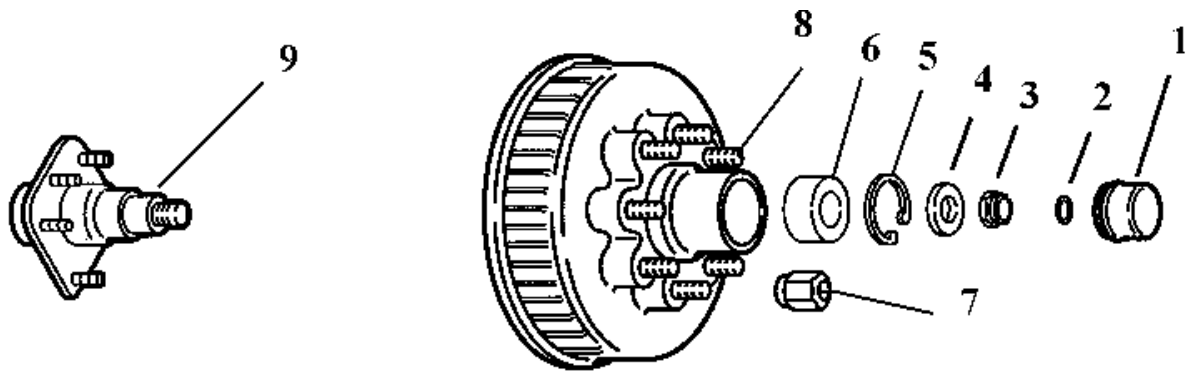


DUST SUPPRESSION COMPONENTS

ITEM	QTY.	PART NO.	DESCRIPTION
1	1	29818-616	DUST SUPPRESSOR
2	2	32088-460	MOUNTING CLAMPS
2A	4	21731-066	3/8" GR 8 NUTS
2B	4	21171-111	3/8" LOCKWASHERS
2C	8	21161-042	3/8" HARD FLAT WASHERS
2D	4	21624-111	3/8" X 2 1/2" GR 8 BOLTS
3	1	40049-451	MOUNT

AXLE COMPONENTS

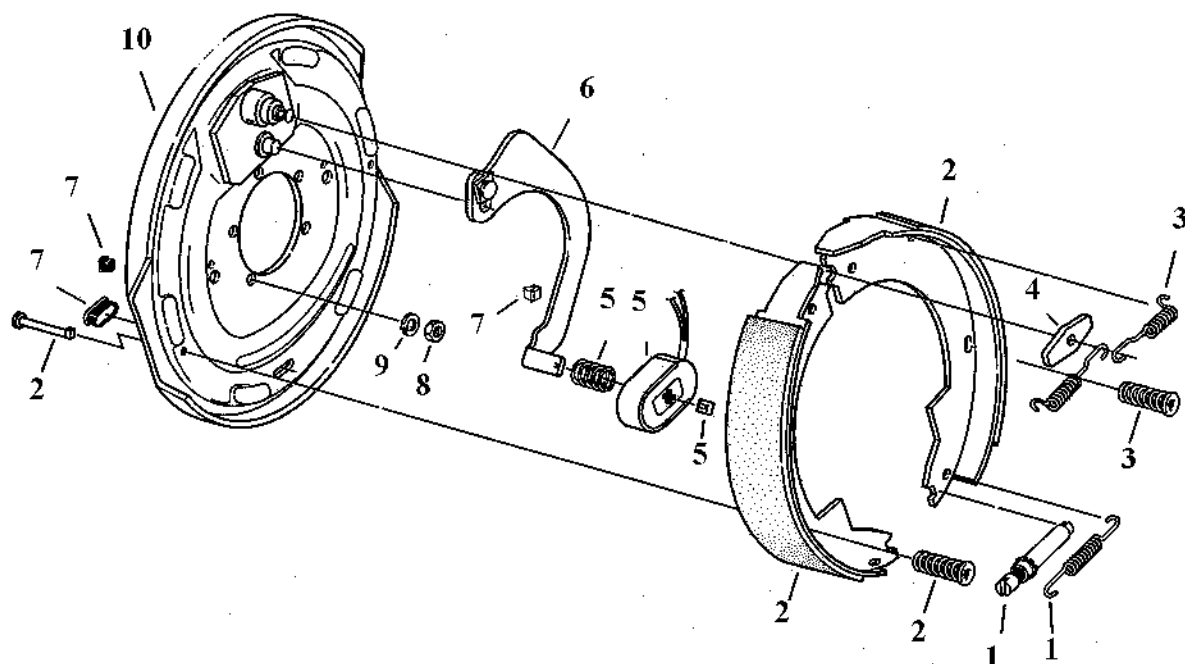
w/Electric Brakes



ITEM	QTY.	PART NO.	DESCRIPTION
1	2	29307-724	DUST CAP
2	2	29307-625	RETAINING RING
3	2	29307-624	SPINDLE NUT
4	2	29307-723	WASHER
5	2	29307-721	RETAINING RING
6	2	29307-720	BEARING CARTRIDGE
7	16	29307-126	WHEEL NUT
8	2	29307-722	HUB & DRUM (INCL. #6)
9	1	29310-490	AXLE (BEAM WITH SPINDLES)
	1	29310-546	AXLE - COMPLETE
	1	29334-061	ELECTRIC BRAKE ACTUATOR

AXLE COMPONENTS

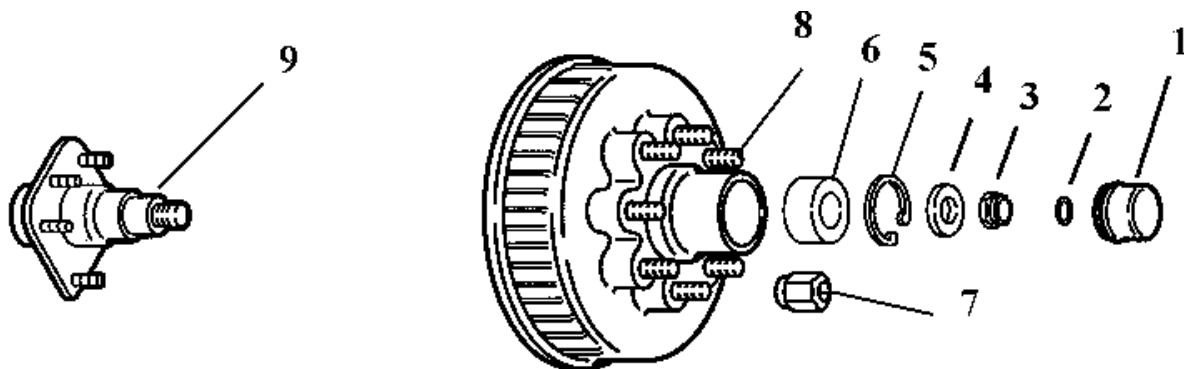
w/Electric Brakes



ITEM	QTY.	PART NO.	DESCRIPTION
-	1	29311-518	L.H. ELECTRIC BRAKE ASSY.
-	1	29311-517	R.H. ELECTRIC BRAKE ASSY.
1	2	29310-440	ADJUSTER ASSEMBLY
2	2	29310-464	SHOE & LINING KIT
3	2	29310-275	SPRING KIT
4	2	29310-276	ANCHOR POST WASHER
5	2	29311-468	MAGNET KIT
6	1	29310-277	ACTUATING ARM (L.H.)
6A	1	29310-278	ACTUATING ARM (R.H.)
7	2	29310-279	SPARE PARTS KIT
8	10	29310-289	BRAKE MOUNTING NUT
9	10	29310-290	LOCKWASHER
10	2	29310-280	BACKING PLATE ASSY

AXLE COMPONENTS

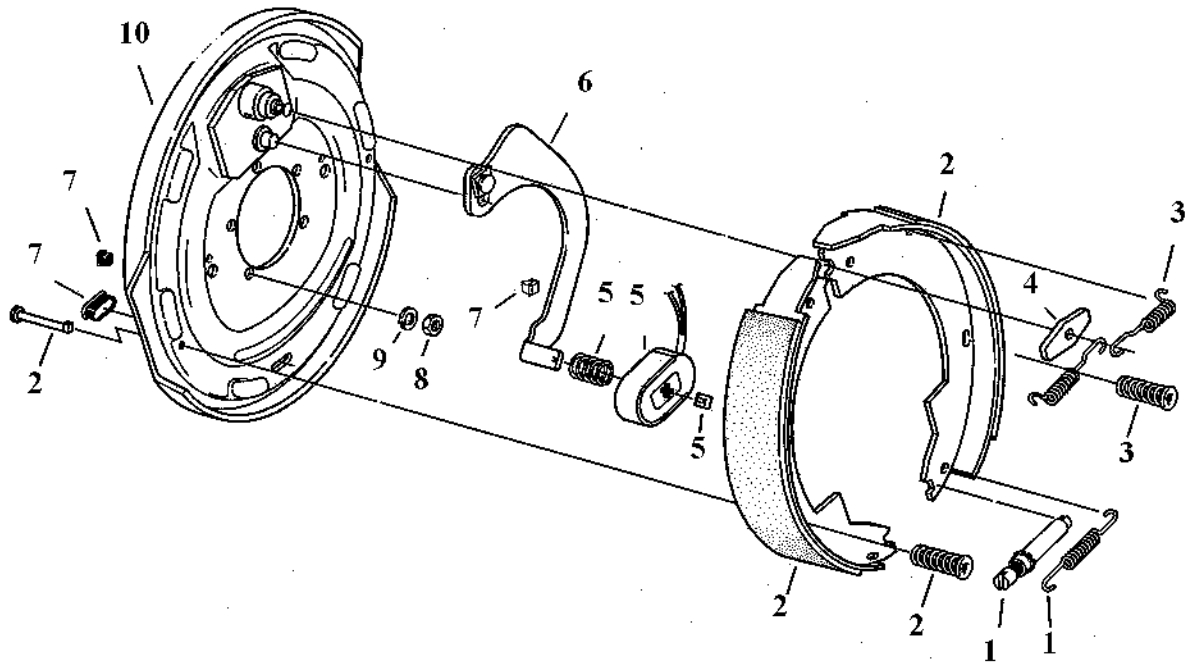
w/Electric Brakes



ITEM	QTY.	PART NO.	DESCRIPTION
1	2	29307-724	DUST CAP
2	2	29307-625	RETAINING RING
3	2	29307-624	SPINDLE NUT
4	2	29307-723	WASHER
5	2	29307-721	RETAINING RING
6	2	29307-720	BEARING CARTRIDGE
7	16	29307-126	WHEEL NUT
8	2	29307-722	HUB & DRUM (INCL. #6)
9	1	29310-490	AXLE (BEAM WITH SPINDLES)
	1	29310-480	AXLE - COMPLETE
	1	29334-061	ELECTRIC BRAKE ACTUATOR

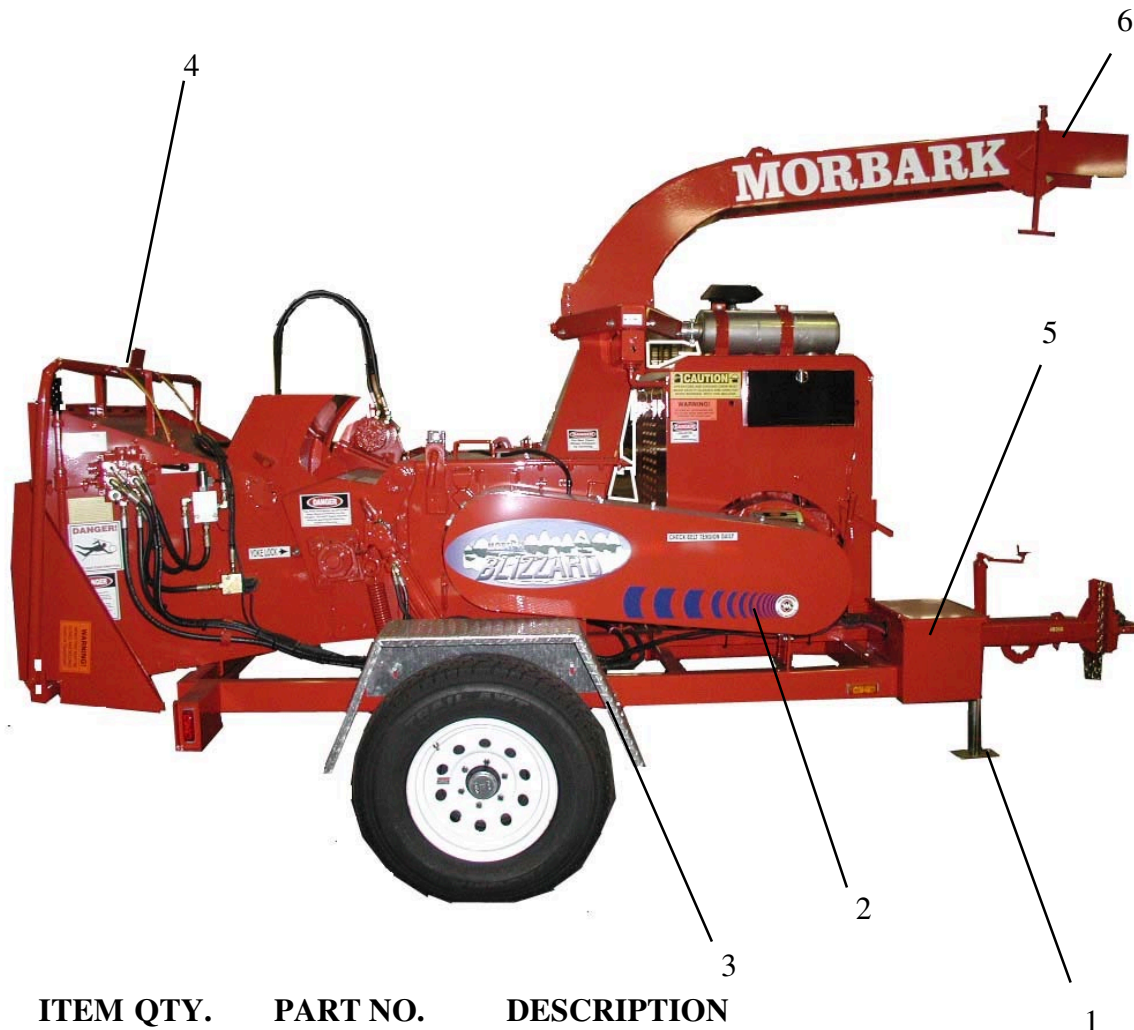
AXLE COMPONENTS

w/Electric Brakes



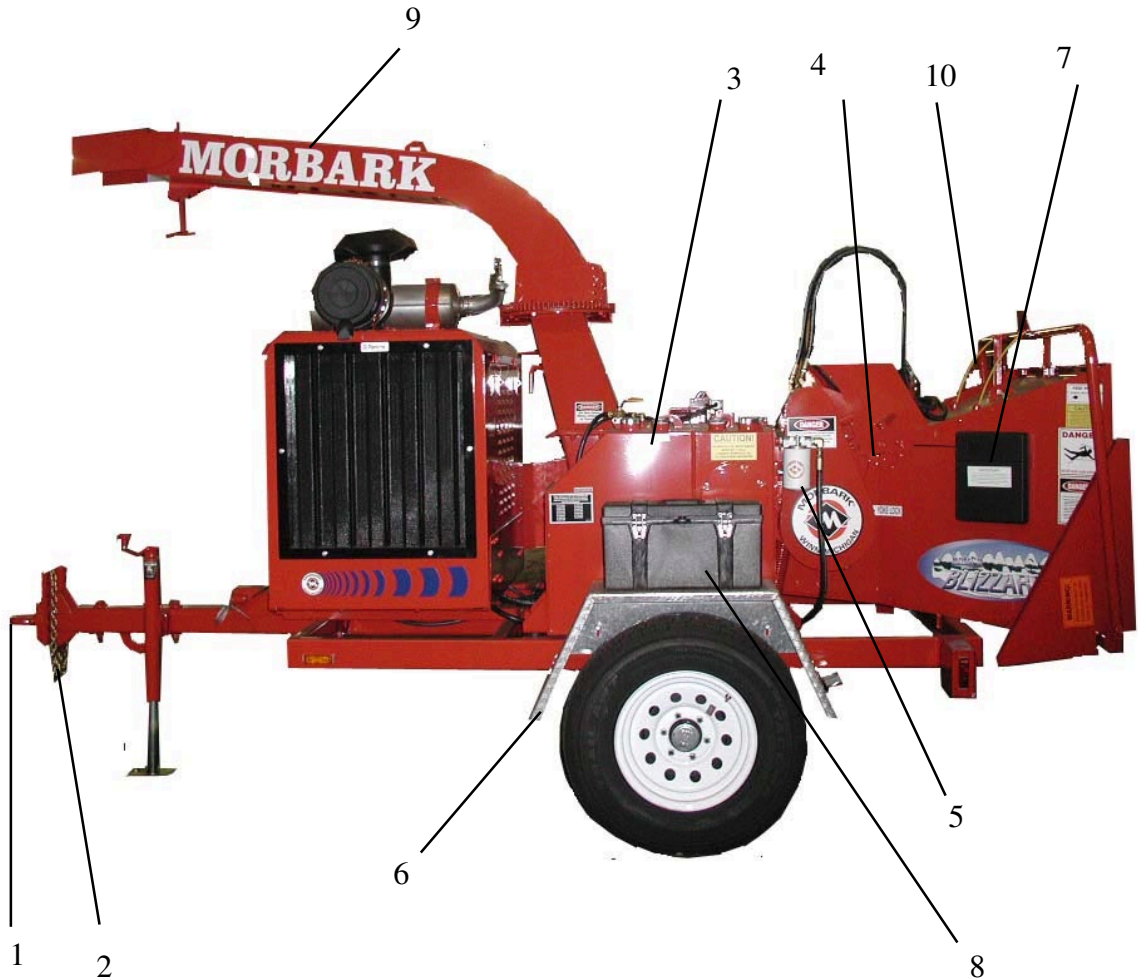
ITEM	QTY.	PART NO.	DESCRIPTION
-	1	29311-518	L.H. ELECTRIC BRAKE ASSY.
-	1	29311-517	R.H. ELECTRIC BRAKE ASSY.
1	2	29310-440	ADJUSTER ASSEMBLY
2	2	29310-464	SHOE & LINING KIT
3	2	29310-275	SPRING KIT
4	2	29310-276	ANCHOR POST WASHER
5	2	29311-468	MAGNET KIT
6	1	29310-277	ACTUATING ARM (L.H.)
6A	1	29310-278	ACTUATING ARM (R.H.)
7	2	29310-279	SPARE PARTS KIT
8	10	29310-289	BRAKE MOUNTING NUT
9	10	29310-290	LOCKWASHER
10	2	29310-280	BACKING PLATE ASSY

MISC. COMPONENTS



ITEM	QTY.	PART NO.	DESCRIPTION
1	1	29341-838	JACK
2	1	40025-451	BELT SHIELD
N.S.	1	40039-451	BELT SHIELD (AUTO CLUTCH)
N.S.	1	40040-451	BACK PLATE ASSY (AUTO CLUTCH)
3	1	40164-456	RHFENDER
N.S.	1	40363-452	YOKE LOCK HANDLE ASSY
4	1	31170-462	VALVE BANK LINKAGE
5	1	40546-460	LOCKABLE BATTERY BOX
N.S.	1	29315-007	BATTERY BOX (PLASTIC)
N.S.	1	29315-021	BATTERY
6	1	40115-061	FLIPPER HANDLE
N.S.	1	40174-456	SPARE TIRE MOUNT
N.S.	1	31363-901	7-PRONG CONNECTOR
N.S.	1	40043-451	SWING TONGUE ASSEMBLY
N.S.	1	40046-451	SWING FRAME
N.S.	1	40055-451	RIGID INFEED TRAY

MISC. COMPONENTS

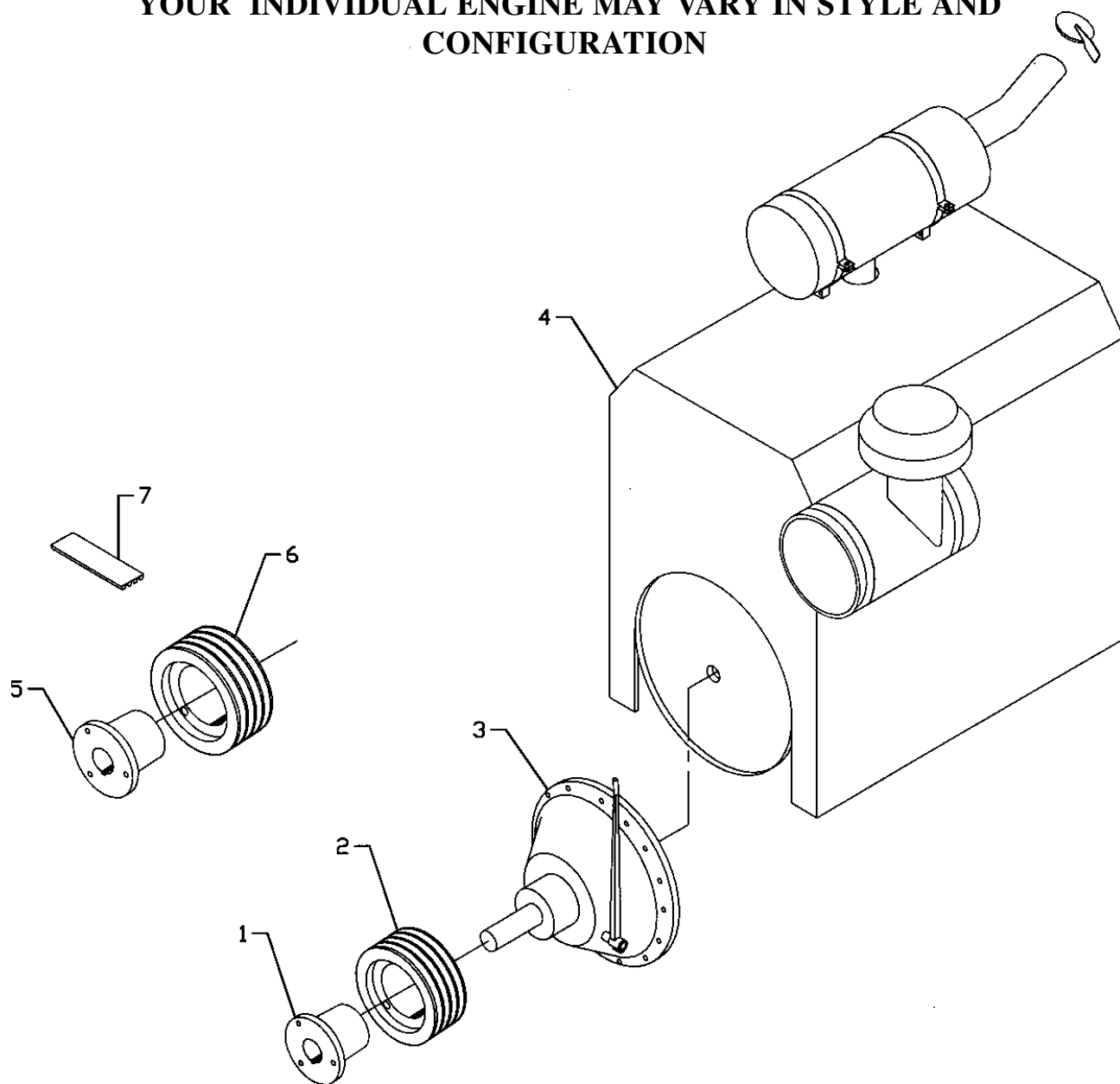


ITEM	QTY.	PART NO.	DESCRIPTION
1	1	29311-608	LUNETRING
N.S.	1	40208-460	2" BALL HITCH
N.S.	1	40636-462	25/16" BALL HITCH
2	1	29313-515	28" OF SAFETY CHAIN
3	1	40374-452	HYDRAULIC TANK/FUEL TANK
4	1	40018-451	CHAIN GUARD
5	1	26838-071	HYDRAULIC FILTER
6	1	40163-456	LH FENDER
N.S.	1	31030-462	DRUM LOCK
7	1	39234-208	PLASTIC PAPER HOLDER
8	1	52130-118	TOOL BOX
9	1	40026-451	DISCHARGE
10	2	24714-308	SAFETY CABLE
N.S.	1	52130-128	DIAMOND PLATE TOOL BOX
N.S.	1	40897-462	RAKE AND SHOVEL HOLDER
N.S.	1	40328-061	SHORT ADJUSTABLE SLIDING TONGUE
N.S.	1	40475-452	LONG ADJUSTABLE SLIDING TONGUE

ENG COMPONENTS

NOTE: THE ENGINE DISPLAYED IN THIS BOOK IS FOR DISPLAY PURPOSES ONLY.

YOUR INDIVIDUAL ENGINE MAY VARY IN STYLE AND CONFIGURATION



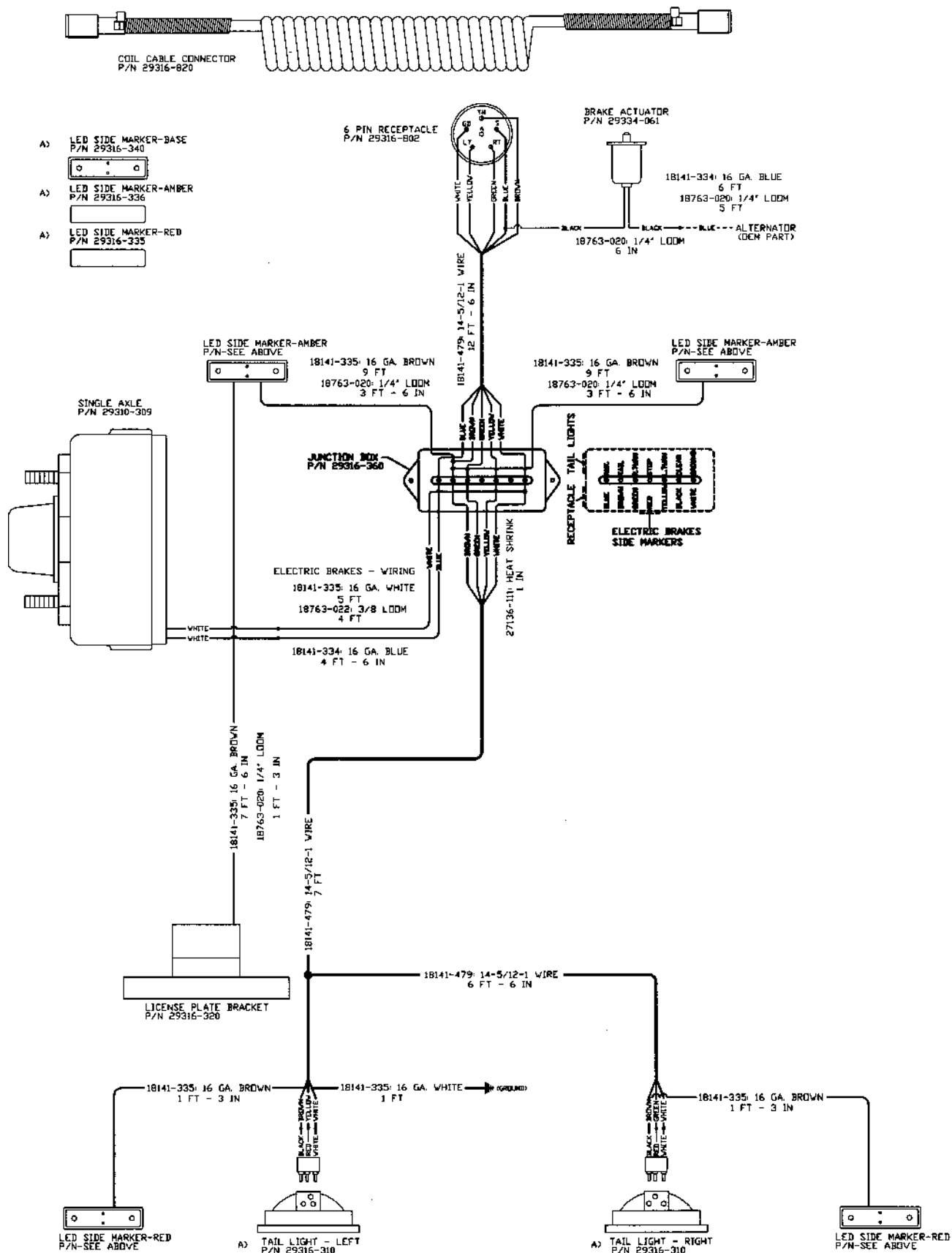
ITEM	QTY	PART NO	DESCRIPTION
1	1	SEENEXTPAGE	DRIVEBUSHING
2	1	SEENEXTPAGE	DRIVESHEAVE
3	1	SEENEXTPAGE	CLUTCH
4	1	SEENEXTPAGE	ENGINE
5	1	SEENEXTPAGE	DRIVENBUSHING
6	1	SEENEXTPAGE	DRIVENSHEAVE
7	1	SEENEXTPAGE	DRIVEBELTS

ENG DRIVE COMPONENTS

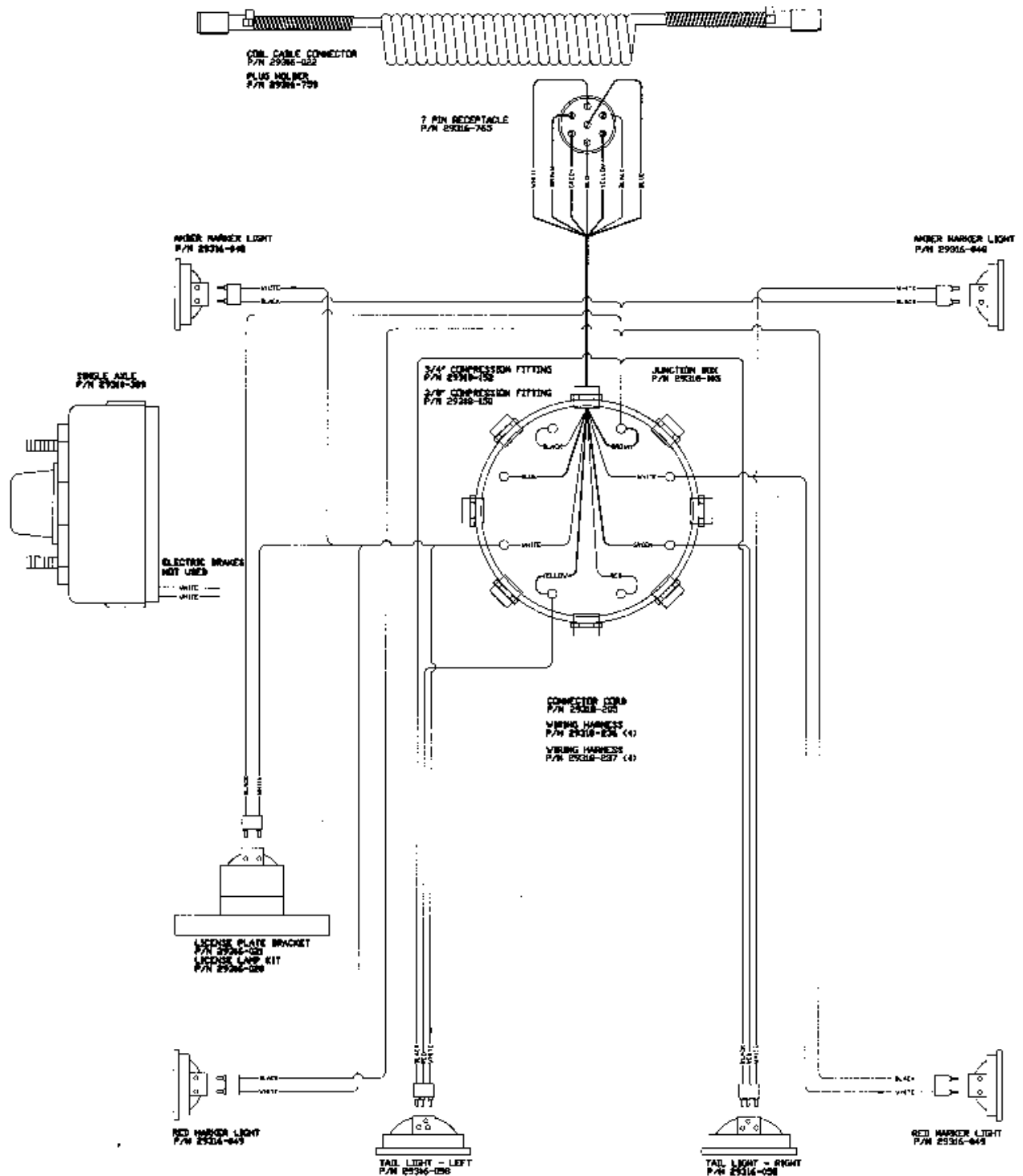
CHECK UNDER ENG MODEL AND TRANSMISSION FOR INDIVIDUAL DRIVE SHEAVE AND BUSHING (NOTE AC MEANS AUTO CLUTCH)

MODEL 12	ENGINE #	TRANS	ENG BELT	DR SHEAVE	DR BUSH	DRN SHEAVE	DRN BUSH	PUMP #
CAT 86 H.P.	29247-423	SP111	24181-660	24217-667	24133-587	24217-669	24133-591	26726-515
CAT 110 H.P.	29247-424	SP111	24181-660	24217-667	24133-587	24217-669	24133-591	26726-515
CAT 125 H.P.	29247-426	SP211	24181-660	24217-667	24133-592	24217-669	24133-591	26726-515
CAT 140 H.P.	29247-463	SP211	24181-660	24217-667	24133-592	24217-669	24133-591	26726-515
CUM 80 H.P.	29217-455	AC	24181-660	24217-668	24133-579	24217-669	24133-591	26726-515
CUM 85 H.P.	29218-002	SP111	24181-660	24217-666	24133-587	24217-669	24133-591	26726-570
CUM 85 H.P.	29218-002	AC	24181-660	24217-904	24133-579	24217-669	24133-591	26726-515
CUM 116 H.P.	29217-494	SP111	24181-660	24217-668	24133-587	24217-669	24133-591	26726-515
CUM 116 H.P.	29217-024	AC	24181-660	24217-668	24133-579	24217-669	24133-591	26726-515
CUM 130 H.P.	29217-495	SP211	24181-660	24217-668	24133-592	24217-669	24133-591	26726-515
CUM 130 H.P.	29217-456	AC	24181-660	24217-668	24133-579	24217-669	24133-591	26726-515
JD 80 H.P.	29229-553	SP111	24181-660	24217-668	24133-587	24217-669	24133-591	26726-570
JD 80 H.P.	29228-502	AC	24181-660	24217-668	24133-579	24217-669	24133-591	26726-570
JD 115 H.P.	29229-555	SP111	24181-660	24217-668	24133-587	24217-669	24133-591	26726-570
JD 115 H.P.	29228-501	AC	24181-660	24217-668	24133-579	24217-669	24133-591	26726-570
JD 125 H.P.	29229-643	SP211	24181-660	24217-667	24133-592	24217-669	24133-591	26726-570
JD 125 H.P.	29228-503	AC	24181-660	24217-667	24133-579	24217-669	24133-591	26726-570
PER 86 H.P.	29233-316	SP111	24181-660	24217-667	24133-587	24217-669	24133-591	26726-515
PER 86 H.P.	29233-304	AC	24181-660	24217-667	24133-579	24217-669	24133-591	26726-515
PER 110 H.P.	29233-317	SP111	24181-660	24217-667	24133-587	24217-669	24133-591	26726-515
PER 110 H.P.	29233-305	AC	24181-660	24217-667	24133-579	24217-669	24133-591	26726-515
PER 115 H.P.	29233-527	SP 111	24181-660	24217-667	24133-587	24217-669	24133-591	26726-515
PER 125 H.P.	29233-318	SP211	24181-660	24217-667	24133-592	24217-669	24133-591	26726-515
PER 125 H.P.	29233-308	AC	24181-660	24217-667	24133-579	24217-669	24133-591	26726-515

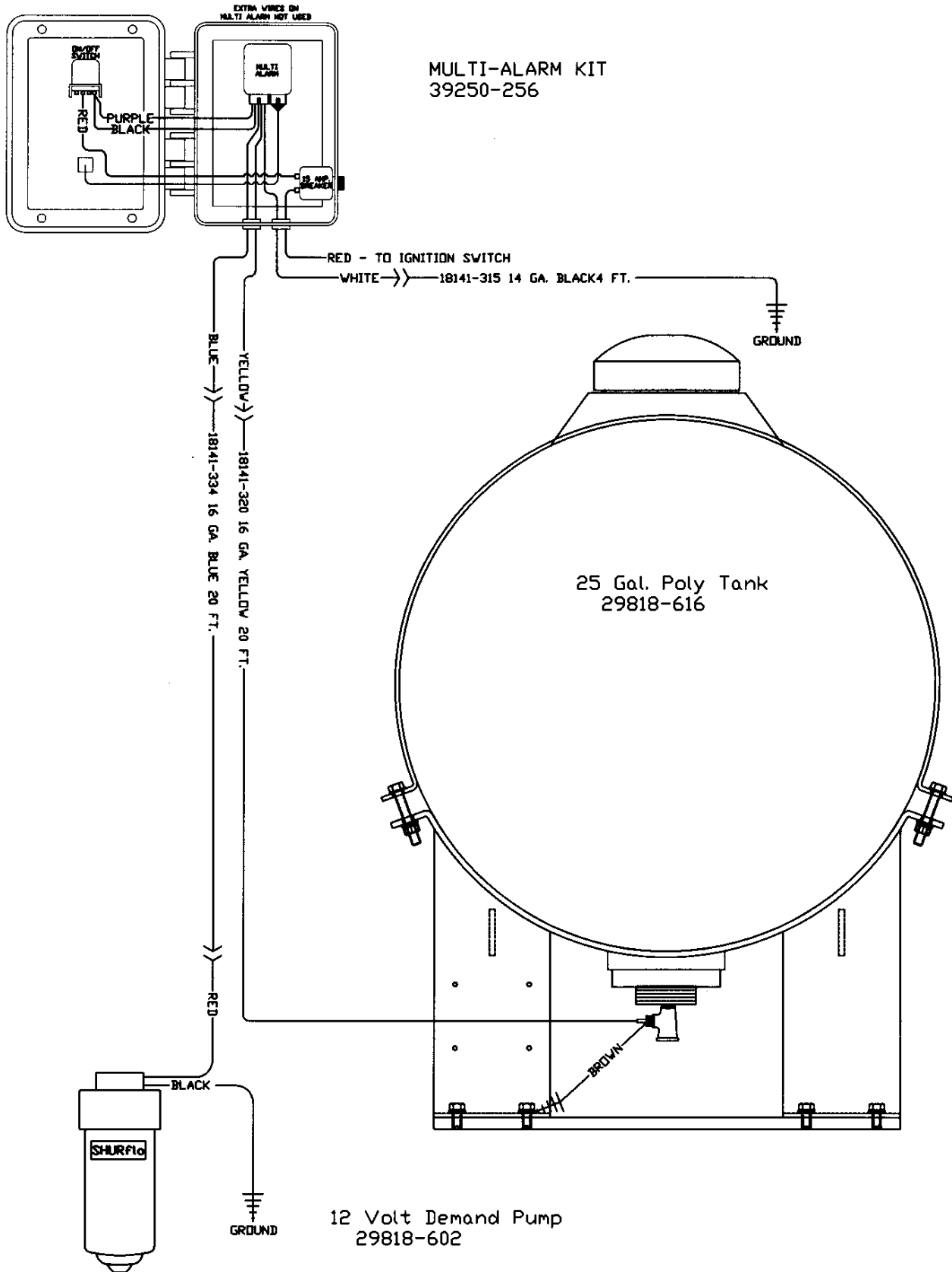
ELECTRICAL DIAGRAM



ELECTRICAL DIAGRAM

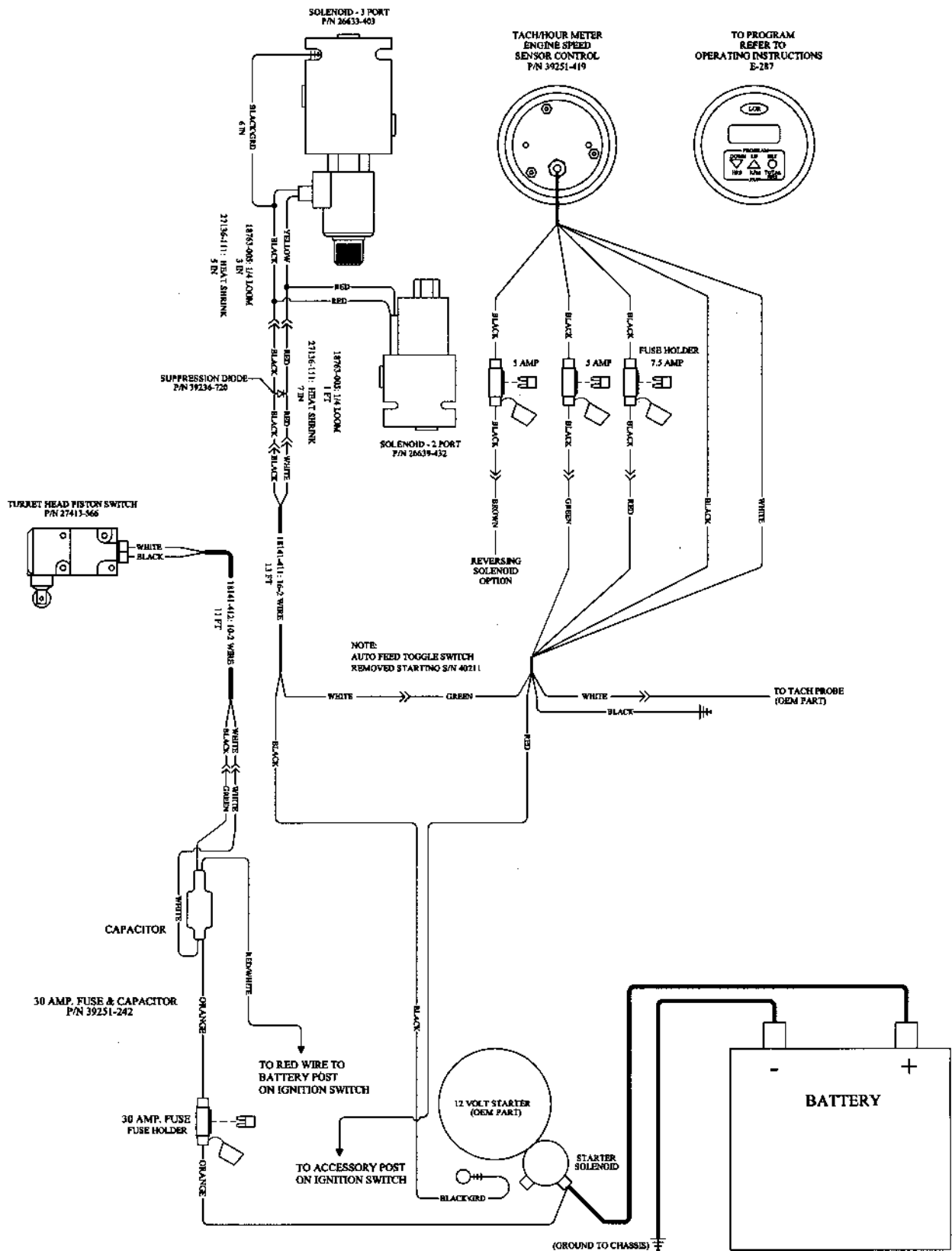


DUST SUPPRESSION

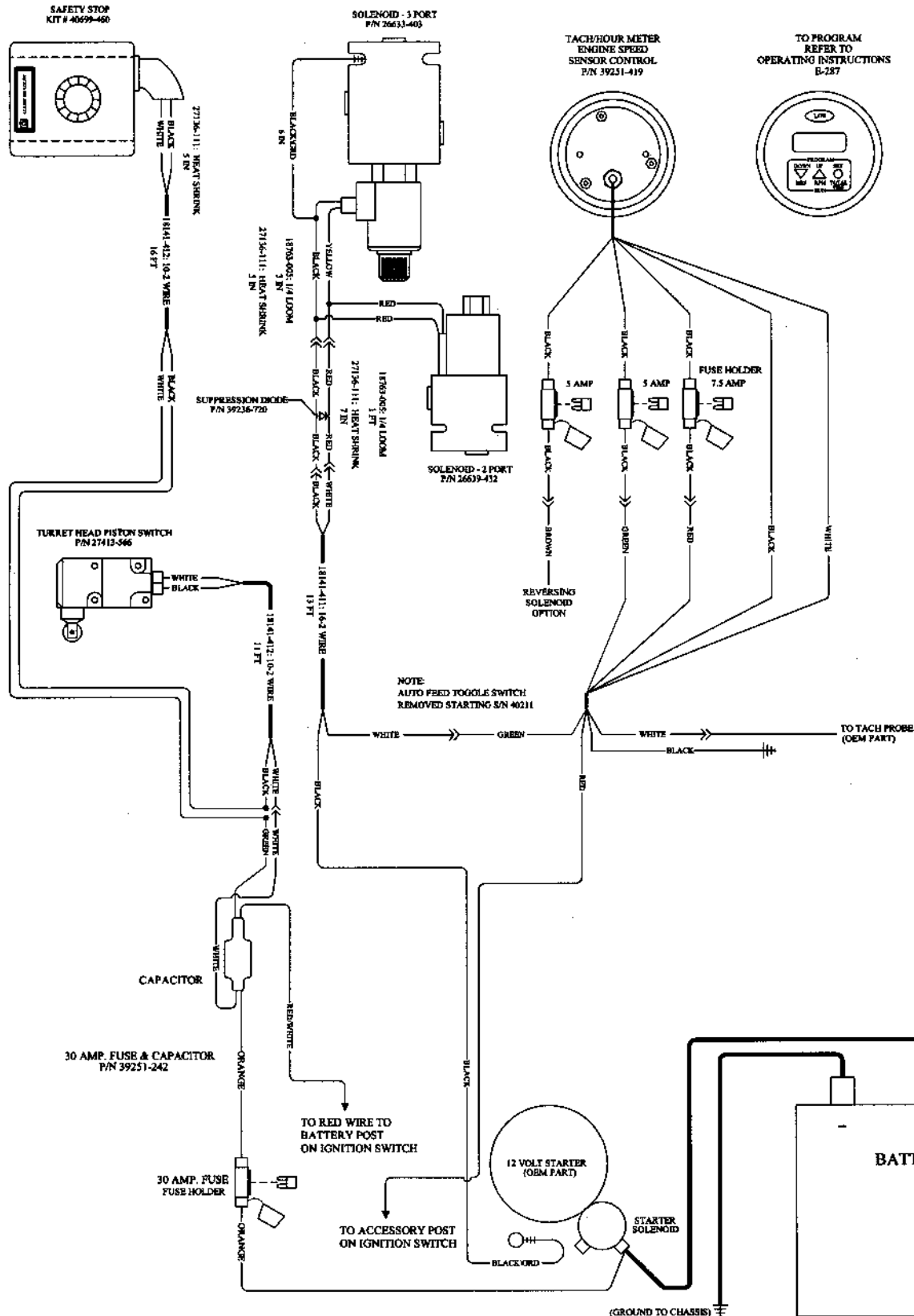


AUTO FEED DIAGRAM

CATERPILLAR, CUMMINS & PERKINS

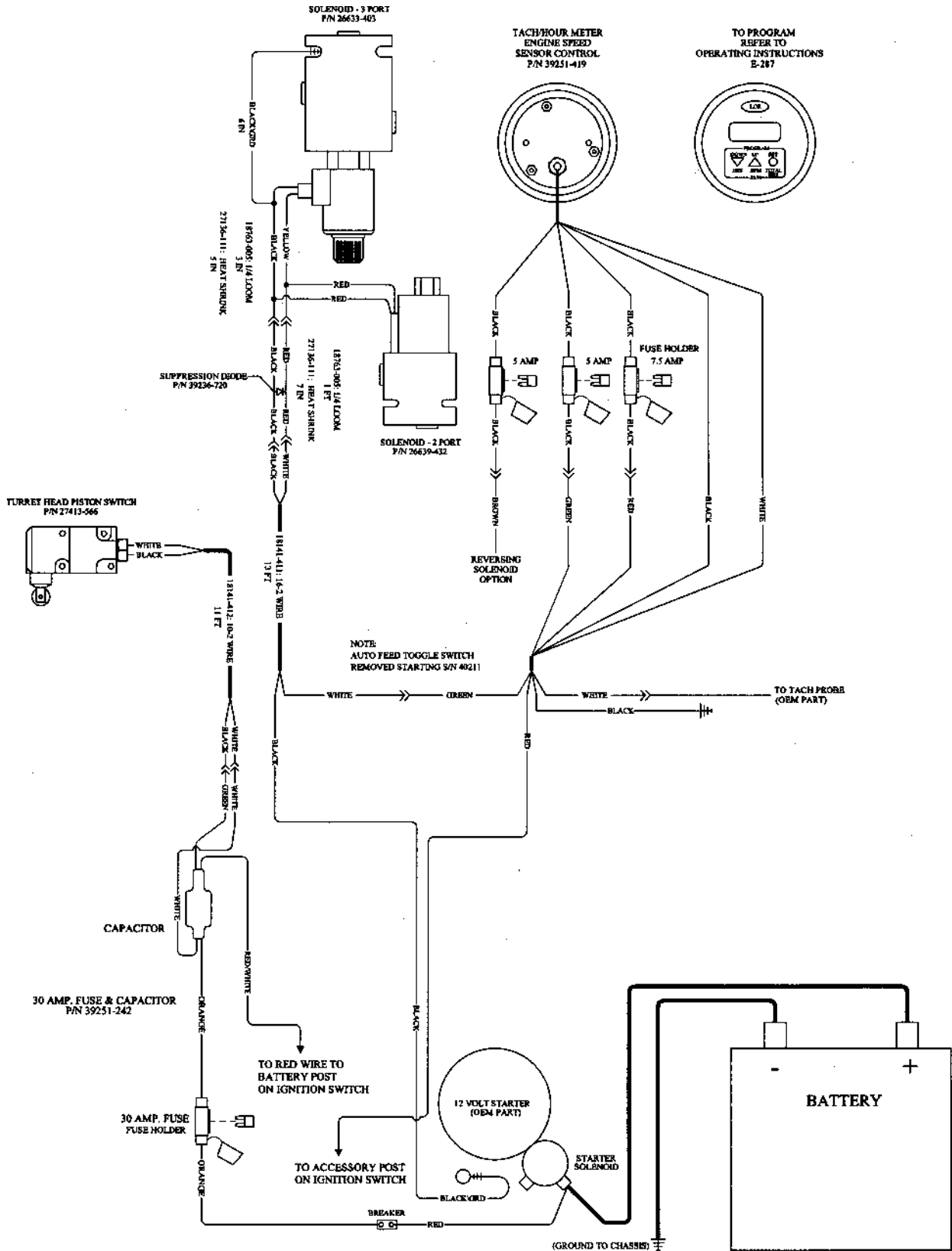


AUTO FEED W/SAFETY STOP DIAGRAM CATERPILLAR, CUMMINS & PERKINS

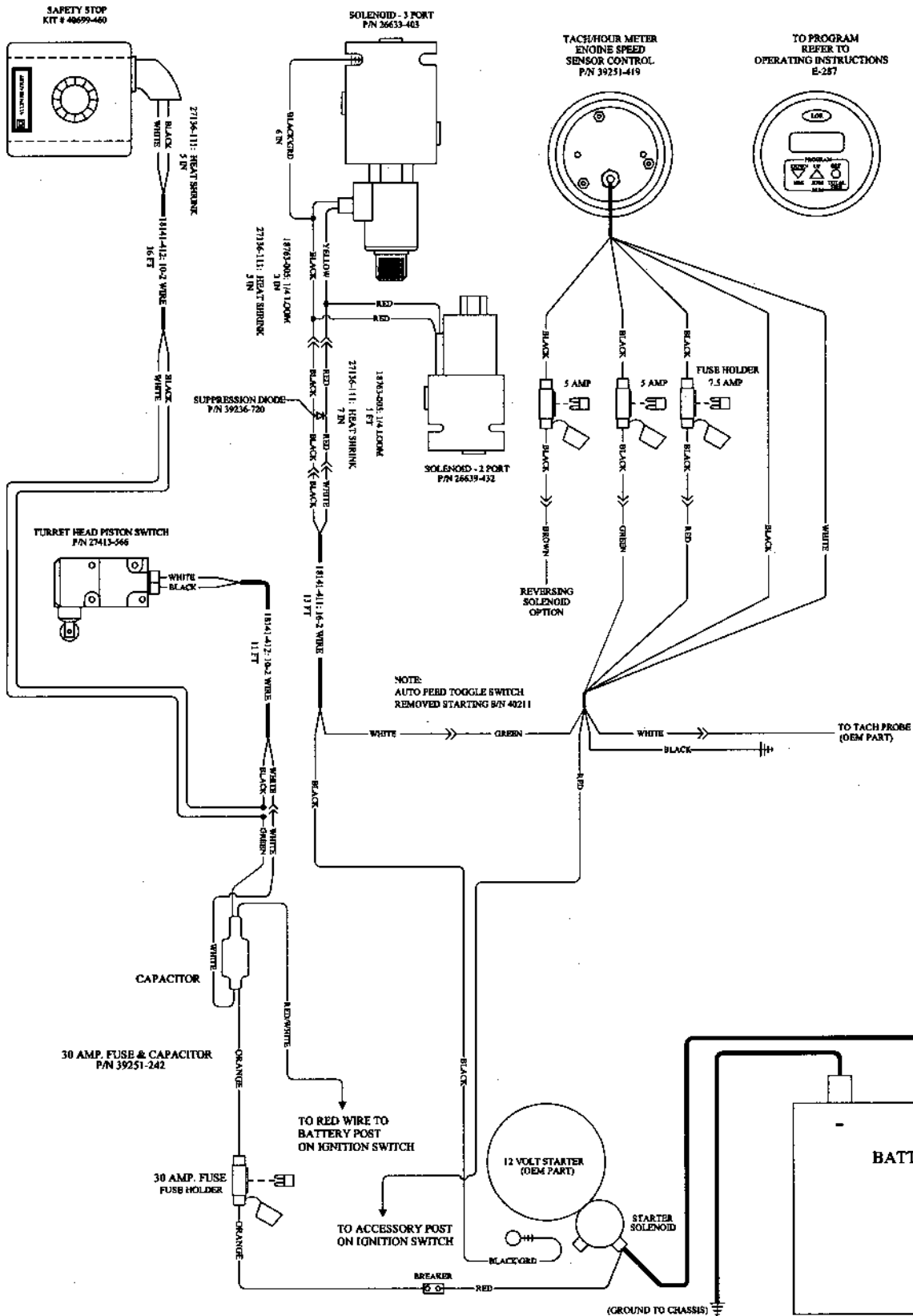


AUTO FEED DIAGRAM

JOHN DEERE



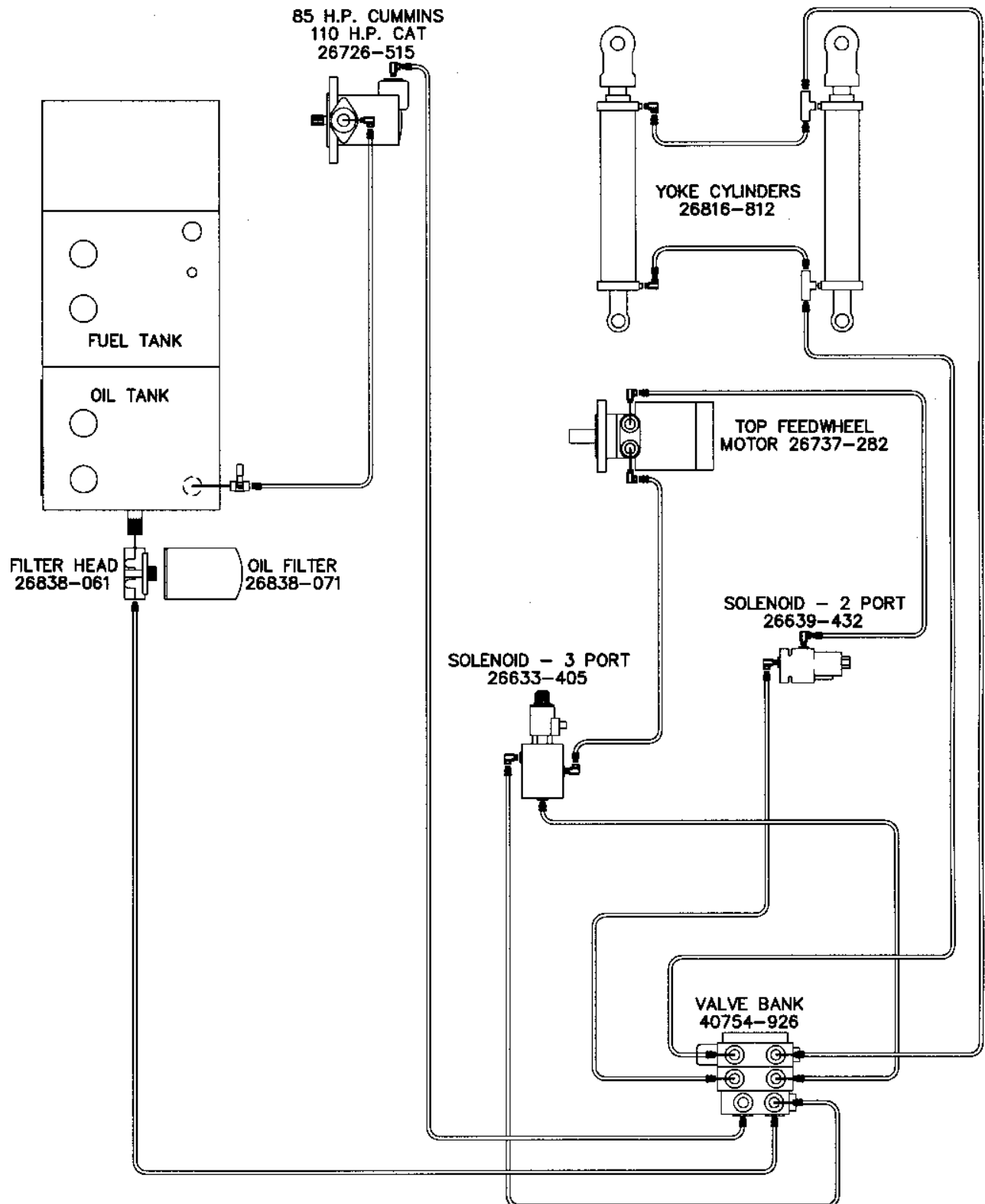
AUTO FEED W/SAFETY STOP DIAGRAM



HYDRAULIC SCHEMATIC

ENGINE OPTION - PER, CAT, CUM & JD

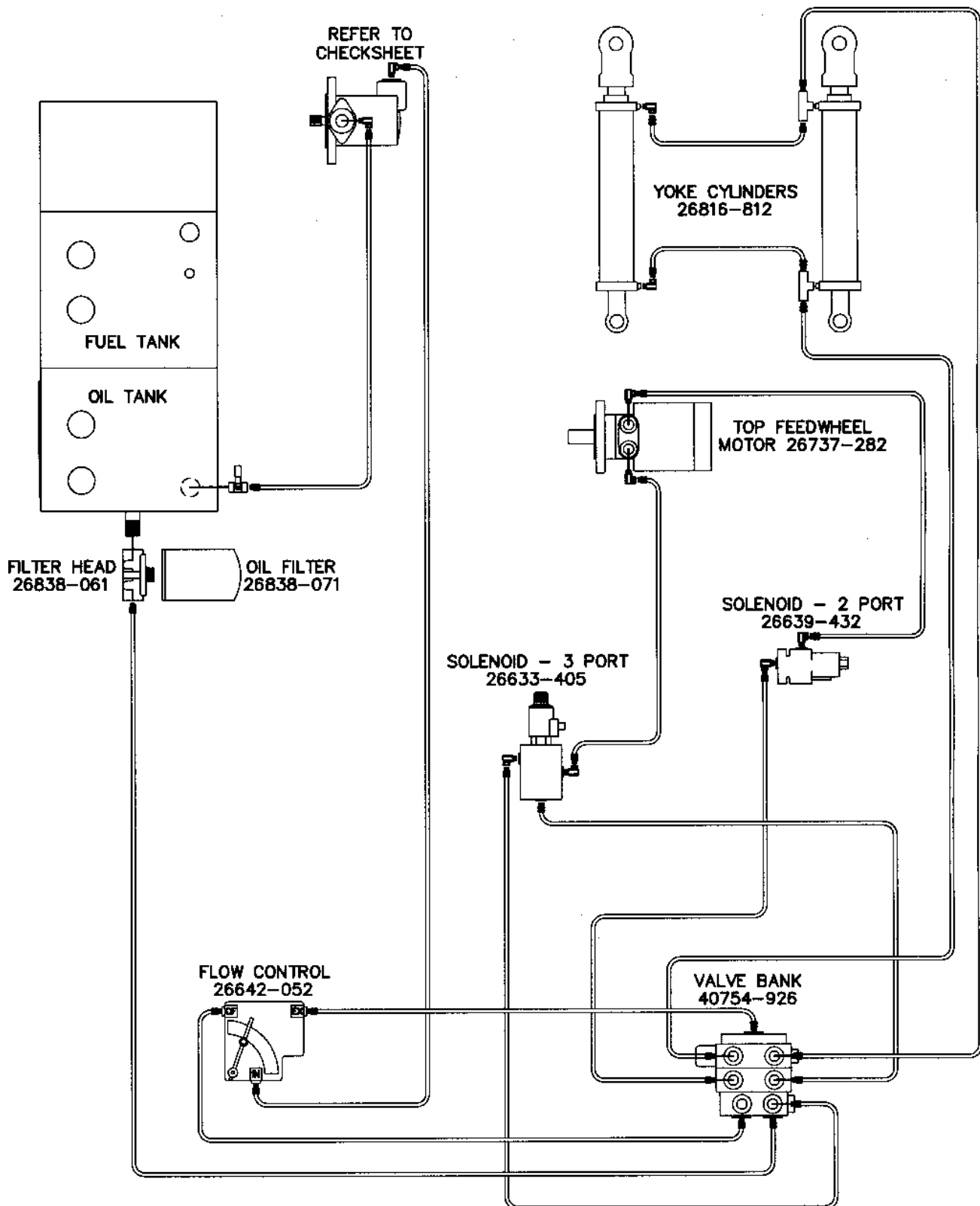
(Down Pressure)



CAT HYDRAULIC SCHEMATIC

ENGINE OPTION - PERKINS, CAT, CUM & JD

(Down Pressure, Flow Control)



(OBM -Down Pressure)



REPLACEMENT PARTS ORDER RECORD

[illegible]