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MODEL

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18350-3 MODEL 644 FINAL ASSEMBLY - DEERE

● DRIVE TRAIN (Includes Axle and Transmission Breakdown)

- 18352 Drive Train Assembly - Deere
- 18369 Throttle Assembly
- 18372 Radiator & Transmission Oil Cooler Assembly
- 18375 Air Cleaner Assembly
- 18378 Exhaust Assembly

● FRAME & PLATFORM

- 18354 Main Frame Assembly
- 18379 Operators Platform Assembly
- 18380 Instrument Panel Assembly

● BOOM & TRANSFER

- 18355 Telescopic Boom Assembly
- 18384 Hose Reel & Cable Assembly
- 18356 Transfer Carriage Assembly

● UPPER HYDRAULICS

- 29946 Hoist - Transfer Hydraulic Assembly
- 18357 Boom Hydraulic Assembly
- 18385 Hoist Cylinder Assembly
- 18386 Boom Extension Cylinder Assembly
- 18387 Rear Carriage Tilt Cylinder Assembly
- 18388 Front Carriage Tilt Cylinder Assembly
- 18393 Transfer Cylinder Assembly

● LOWER HYDRAULICS

- 18358 Pump, Suction - Return Hydraulics Assembly
- 29947 Joystick Control Hydraulics Assembly
- 29948 Frame Hydraulics Assembly
- 18392 Frame Tilt Cylinder Assembly
- 29949 Test Port Hydraulics Assembly
- 18389 Hydraulic Steering & Diff. Lock Assembly

● BRAKES

- 18361 Hydraulic Service Brake Assembly
- 18394 Parking Brake Assembly

● ELECTRICAL

- 18363 Electrical Assembly - Deere
- 18397 Wiring Diagram

● DECAL & ACCESSORIES

- 18365 Decal Group Assembly
- 18365 Optional Equipment (Accessories)

● FORKS CARRIAGE(S)

Oil Seal CR-49398 USA
CR49098

RANSAN
609-567
5728

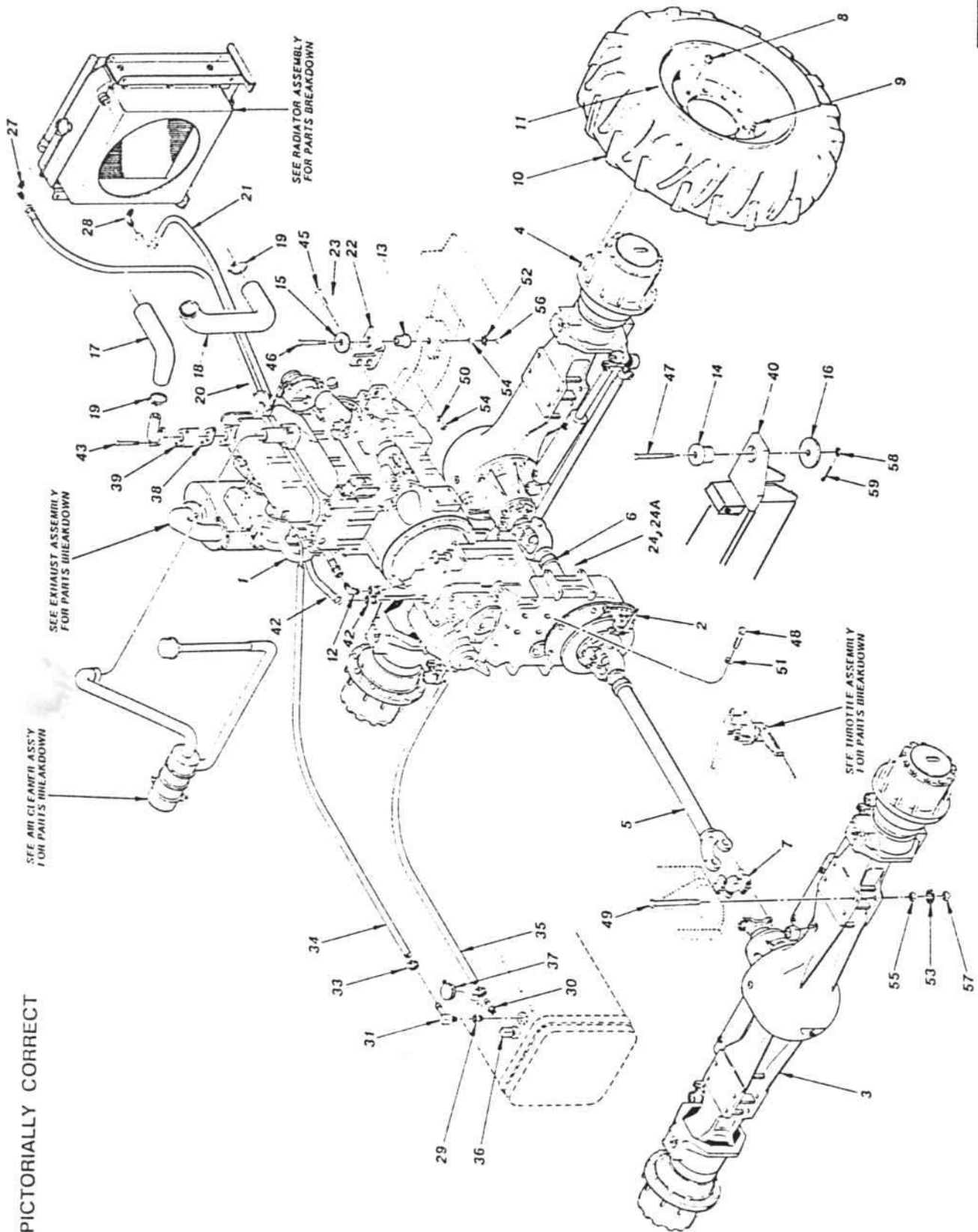
Wheel Seal
NATIONAL
B370063BG

Wheel Seal

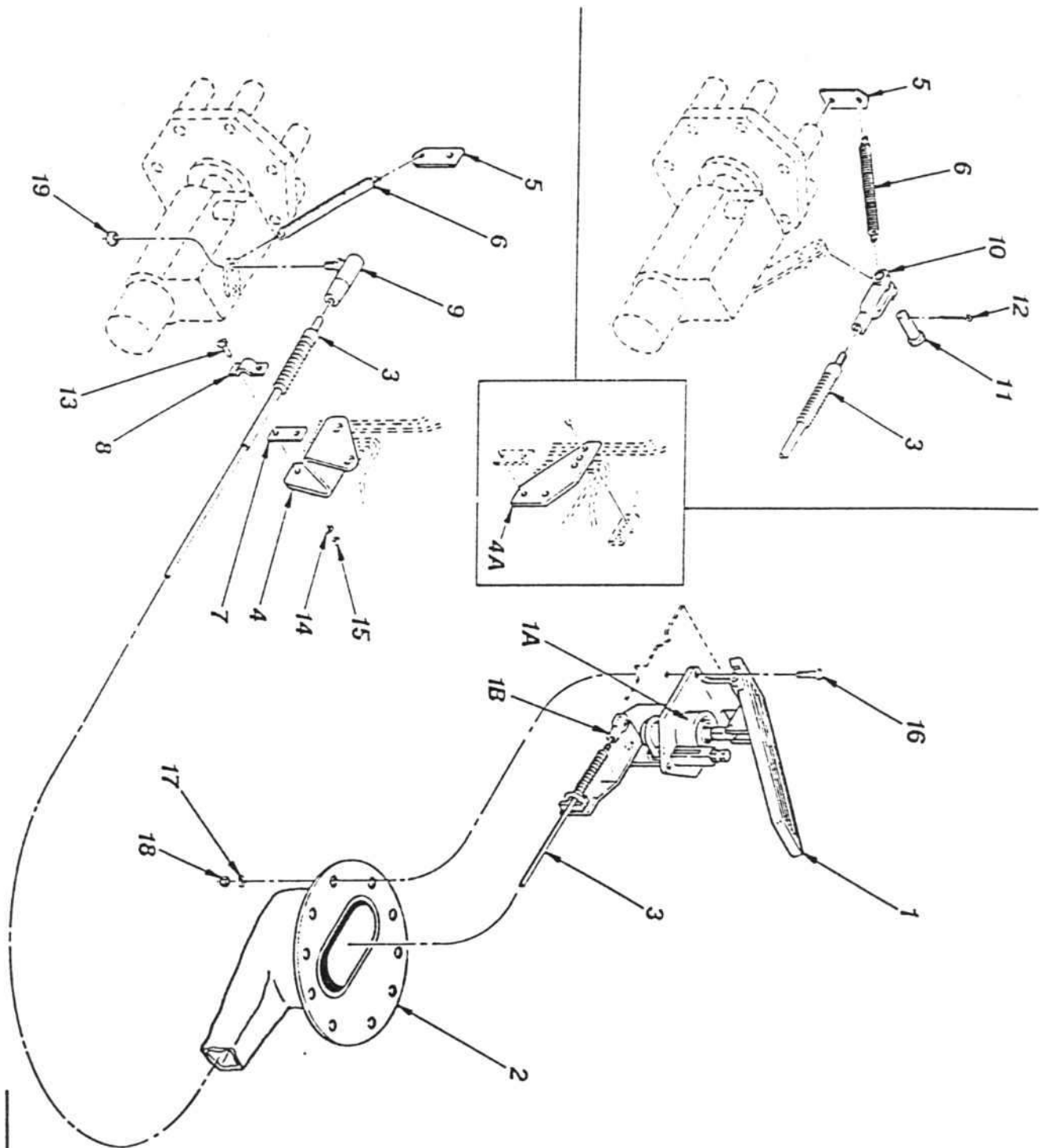
6 3/8" O.D.
in 5 inches
S/N 2784 THRU

MODEL 644 MISCELLANEOUS FILTERS								REMARKS
		PART NUMBERS	239 DEERE	230 DEUTZ	236 PERKINS	225 CHRYSLER	FILTERS	
P22635	X						Oil Filter	Spin-On Element
P19793							Oil Filter	
P20995		X					Oil Filter	
P20498			X				Oil Filter	
P12089				X			Oil Filter	
P22636	X						Fuel Filter	
P19856		X					Fuel Filter	
P21001			X				Fuel Filter	
P15267				X			Fuel Filter	
P12179	X						Air Filter	S/N 711 Thru S/N 711 Thru
P21498	X						Air Filter-Primary	
P21499	X						Air Filter-Safety	
P17276		X					Air Filter	
P19133	X						Transmission Filter	Funk Clark Spin-On Element Tank Mounted
P19868	X	X					Transmission Filter	
P19801	X	X	X			X	Hydraulic Oil Filter	
P13586	X	X	X	X		X	Hydraulic Oil Filter	
P24315	X	X	X				Hydraulic Oil Filter	

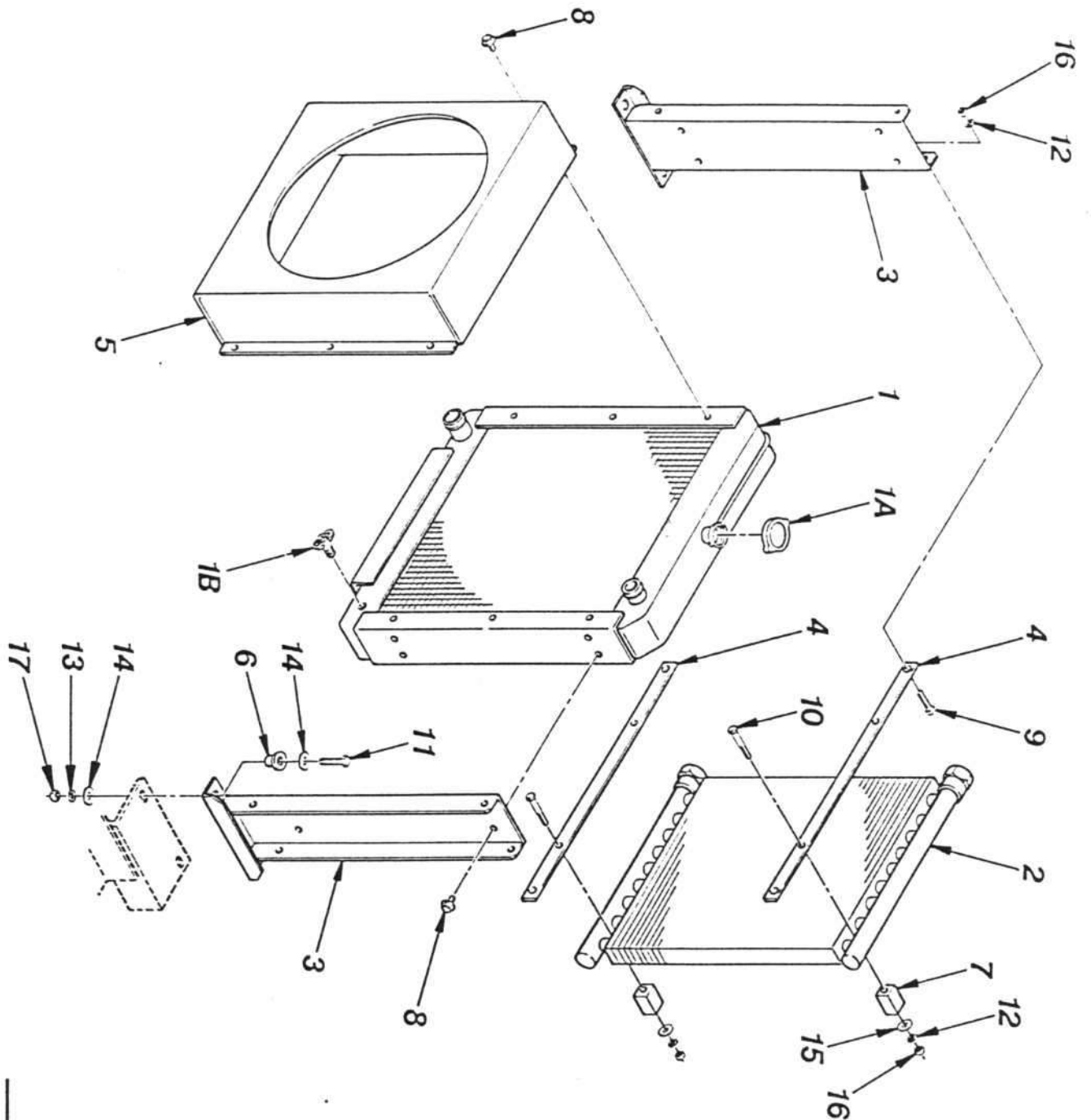
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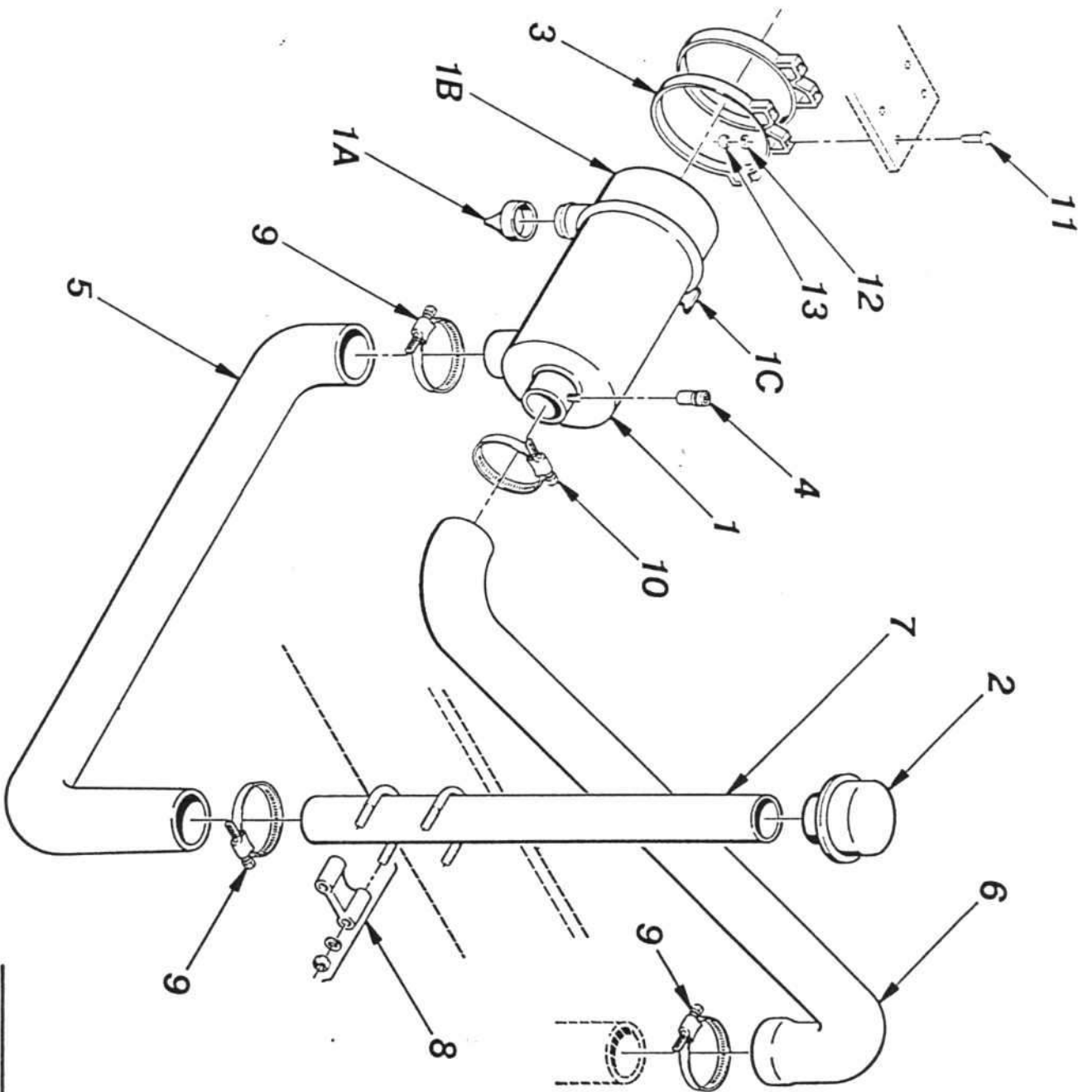
ITEM	PART NUMBER	DESCRIPTION	ITEM	PART NUMBER	QTY.	DESCRIPTION
1	P31134	Engine, Deere 239 C.I.D. 4 Cylinder	37	P12182	REF	Fuel Cap
2	P31437	Transmission, ZF	38	P25386	REF	Gasket, Thermostat
3	P31260	Axle, Front (Includes Item 8)	39	P21785	1	Extension, Thermostat Housing
4	P31259	Axle, Rear (Includes Item 8)	40	18412B	-	Extension (use with Optional Heater)
5	P21779	Drive Shaft, Front (Includes Item 7)	41	35026B	1	Transmssion Mount
6	P24270	Drive Shaft, Rear (Includes Item 7)	42	35080A	1	Strap, Transmission Dipstick
7	P18749	Cross & Bearing	43	P31573	2	Connector
8	P13894	Lug Nut, Wheel	44*	P00213	2	Bolt, Hx., 3/8"-16 x 3 1/4"
9	P13673	Valve Stem	45	P00604	2	Bolt, Hx., 5/8"-11 x 2"
10	P11688	Tire, 13.00 x 24 8 PLY	46	P00605	2	Bolt, Hx., 5/8"-11 x 2 1/4"
10A*	P19043	Tire, 13.00 x 24 12 PLY	47	P00689	2	Bolt, Hx., 5/8"-18 x 3 1/2" GR 8
11	P16443	Tire, 13.00 x 24 12 PLY Steelguard	48	30260A	2	Bolt, Hx., 5/8"-18 x 4 1/2" GR 8 (w/Hole)
12	P21570	Tube, 13.00 x 24	49	P04354	4	Bolt, Hs., M20-2.5 x 50mm GR 8.8
13	P31122	Wheel, Rim	50	P00791	16	Bolt, Hx., 3/4"-16 x 7" GR 8
14	P21632	90° Elbow	51	P01314	4	Lockwasher, 5/8"
15	P18180	Rubber Mount, Engine	52	P04613	4	Lockwasher, M20
16	P18181	Rubber Mount, Transmission	53	P01363	2	Starwasher, 5/8"
17	P20396	Snubbing Washer, Engine	54	P01364	16	Starwasher, 3/4"
18	P20395	Snubbing Washer, Transmission	55	P01535	4	Nut, Hx., 5/8"-18
19	P24298	Radiator Hose, Upper	56	P01536	16	Nut, Hx., 3/4"-16
20	P21987	Radiator Hose, Lower	57	P01585	2	Jam Nut, Hx., 5/8"-16
21	P10601	Hose Clamp Radiator	58	P01586	16	Jam Nut, Hx., 3/4"-16
22	P32420	Hose, Transmission Cooler, 99" LG.	59	P01635	2	Castle Nut, Hx., 5/8"-18
23	P32419	Hose, Transmission Cooler, 68" LG.		P03838	2	Cotter Pin, 1/8" x 1"
24	28474B	Engine Mount, L.H.				
24A	28473B	Engine Mount, R.H.	REF*	20844B	1	Engine Block Heater Kit (Optional)
25	P31925	O-Ring, Transmission Filter	REF	P22635	-	Engine Oil Filter
26	P19133	Transmission Filter	REF	P22636	-	Engine Fuel Filter
27	P17792	45° Elbow, JIC-Pipe				
28	P17808	90° Elbow, JIC-Pipe				
29	P10690	Reducer Bushing				
30	P13619	Adapter, Pipe to Hose				
31	P21317	90° Elbow, Pipe to Hose - Fuel Tank				
32*	P21236	90° Elbow, Pipe to Hose - Fuel Pump				
33	P14047	Hose Clamp, Fuel Line				
34	N11433	Return Line, 1/4" I.D. Hose				
35	N11437	Full Line, 5/16" I.D. Hose				
36	P24983	Stand Tube, Fuel				
			* Not Illustrated			
			18352-9			
			644 S/N 3090, 3091, 3093 THRU			8/93
			DRIVE TRAIN ASSEMBLY (Deere/ZF)			



ITEM	PART NUMBER	QTY.	DESCRIPTION	ITEM	PART NUMBER	QTY.	DESCRIPTION
1	P19263	1	Accelerator Pedal				
1A	P20069	REF	Bellows				
1B	P20072	REF	Clevis Kit				
2	P19268	1	Boot Gaurd				
3	P19264	1	Cable, Throttle				
4	18028B	1	Bracket, Cable				
4A	A)18764A	-	Bracket, Cable				
5	17786A	1	Anchor, Spring				
6	P21260	1	Spring				
7	P19128	1	Shim, Cap				
8	P17678	1	Clamp, Cable				
9	P10505	1	Ball Joint				
10	A)P10508	1	Clevis				
11	A)P10509	1	Clevis Pin				
12	A)P03823	1	Cotter Pin, 3/32" x 3/4"				
13	P02057	2	Screw, Rd. Hd., #10-24 x 3/4"				
14	P01306	2	Lockwasher, #10				
15	P01504	2	Nut, Hx., #10-24				
16	P00005	3	Bolt, Hx., 1/4"-20 x 1"				
17	P01308	3	Lockwasher, 1/4"				
18	P01506	3	Nut, Hx., 1/4"-20				
19	P01529	1	Nut, Hx., 1/4"-28				
NOTES: A) Alternate used in Production.							

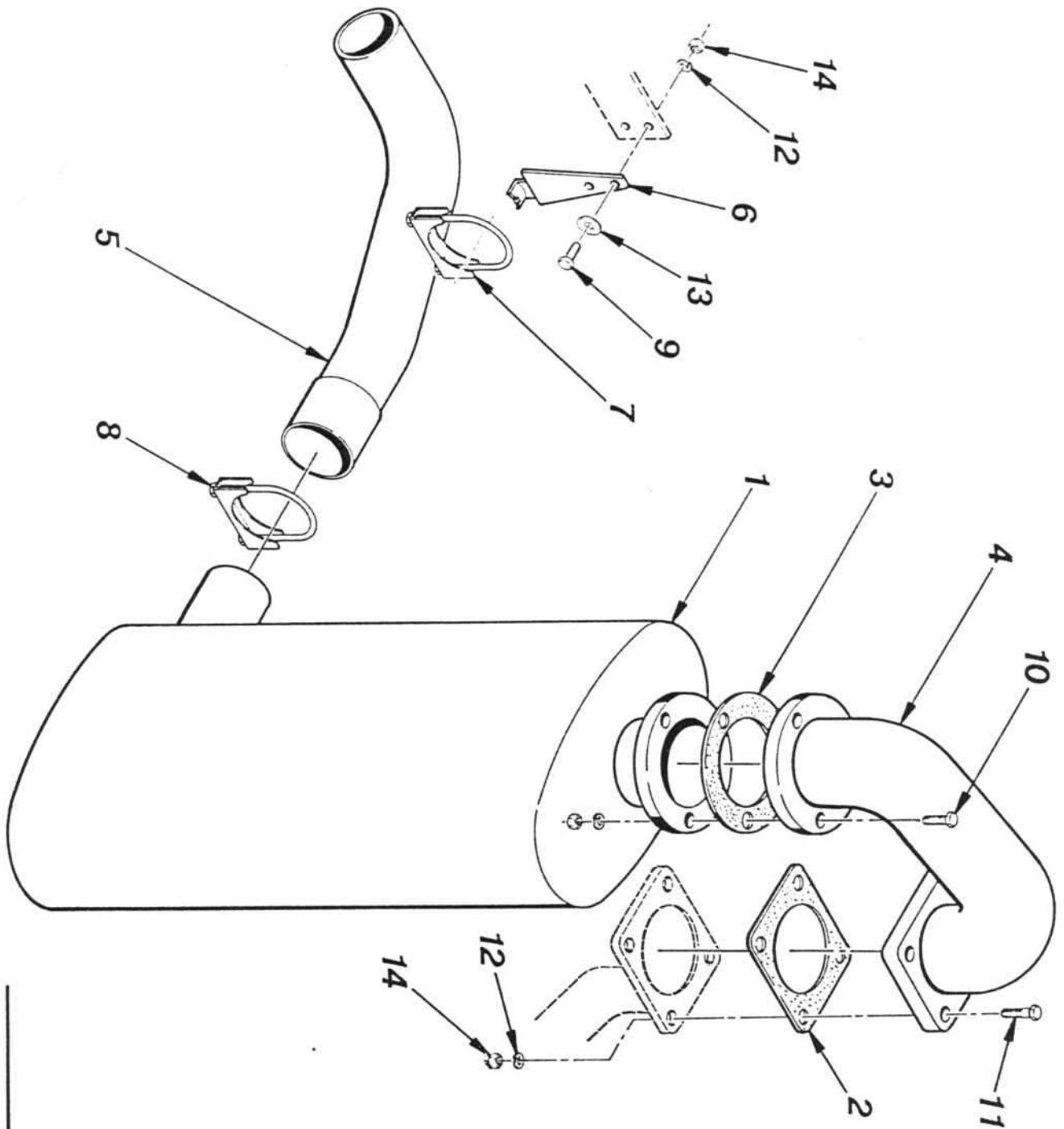


ITEM	PART NUMBER	QTY.	DESCRIPTION	ITEM	PART NUMBER	QTY.	DESCRIPTION
1	P24296	1	Radiator				
1A	P25365	REF	Cap, Radiator				
1B	P16675	REF	Drain Cock				
2	P17598	1	Oil Cooler, Transmission				
3	18751B	2	Mounting Bracket, Transmission				
4	18415B	2	Mounting Bar, Oil Cooler				
5	P24731	1	Fan Shroud				
6	P18723	4	Rubber Grommet				
7	P26312	4	Rubber Mounting Block				
8	P24307	14	Bolt, Flange Hd., 5/16"-18 x 1/2"				
9	P00104	4	Bolt, Hx., 5/16"-18 x 1"				
10	P00111	4	Bolt, Hx., 5/16"-18 x 2 3/4"				
11	P00205	4	Bolt, Hx., 3/8"-16 x 1 1/4"				
12	P01309	8	Lockwasher, 5/16"				
13	P01310	4	Lockwasher, 3/8"				
14	P01404	8	Flatwasher, 3/8"				
15	P01453	4	Flatwasher, 5/16" - Fender				
16	P01507	8	Nut, Hx., 5/16"-18				
17	P01508	4	Nut, Hx., 3/8"-16				



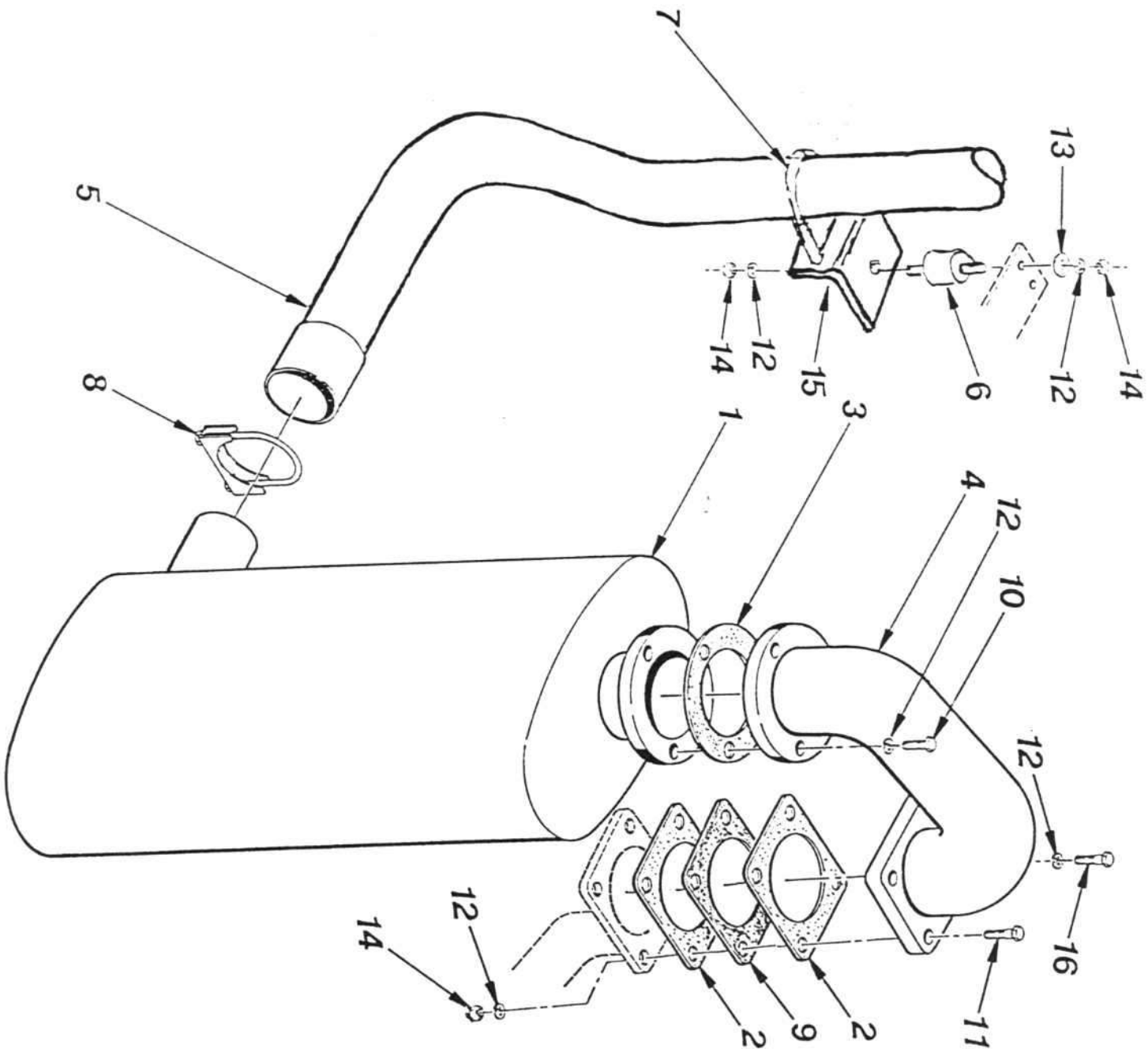
18375-2

ITEM	PART NUMBER	DESCRIPTION	QTY.	ITEM	PART NUMBER	DESCRIPTION	QTY.
1	P21483	Air Cleaner	1				
1A	P21497	Vacuator Valve	REF				
1B	P19727	Vacuator Cup	REF				
1C	P20499	Clamp, Air Cleaner	REF				
1D*	P20076	Baffle	REF				
1E*	P21496	Wing Nut and Washer Gasket	REF				
1F*	P21498	Filter Element, Safety	REF				
1G*	P21499	Filter Element, Primary	REF				
2	P17136	Rain Cap	1				
3	P12165	Mounting Band	2				
4	P21485	Service Indicator	1				
5	P21508	Intake Hose, Air Stack	1				
6	P21509	Intake Hose, Engine	1				
7	18347-13C	Tube, Air Stack	1				
8	P17169	Clamp, Stack Tube	2				
9	P10553	Hose Clamp	3				
10	P10601	Hose Clamp	1				
11	P00204	Bolt, Hx., 3/8"-16 x 1"	4				
12	P01310	Lockwasher, 3/8"	4				
13	P01508	Nut, Hx., 3/8"-16	4				



18378-2

ITEM	PART NUMBER	QTY.	DESCRIPTION	ITEM	PART NUMBER	QTY.	DESCRIPTION
1	P21790	1	Muffler				
2	P21786	1	Gasket, Manifold				
3	P22197	1	Gasket, Muffler				
4	18990C	1	Exhaust Elbow				
5	P21800	1	Tail Pipe				
6	P19280	1	Hanger, Tail Pipe				
7	P12169	1	Muffler, Clamp, 2 1/2"				
8	P21078	1	Muffler, Clamp, 2 3/4"				
9	P00202	2	Bolt, Hx., 3/8"-16 x 3/4"				
10	P00205	3	Bolt, Hx., 3/8"-16 x 1 1/4"				
11	P00207	4	Bolt, Hx., 3/8"-16 x 1 3/4"				
12	P01310	9	Lockwasher, 3/8"				
13	P01404	2	Flatwasher, 3/8"				
14	P01508	9	Nut, Hx., 3/8"-16				



ITEM PART NUMBER QTY. DESCRIPTION

1	35095A	1	Muffler
2	P21786	2	Gasket, Manifold
3	P22197	1	Gasket, Muffler
4	18990C	1	Exhaust Elbow
5	P31671	1	Tail Pipe
6	P27620	1	Rubber Mount
7	P12169	1	Muffler, Clamp, 2 1/2"
8	P21078	1	Muffler, Clamp, 2 3/4"
9	P31669	1	Spacer
10	P00205	3	Bolt, Hx., 3/8"-16 x 1 1/4"
11	P00210	3	Bolt, Hx., 3/8"-16 x 2 1/2"
12	P01310	9	Lockwasher, 3/8"
13	P01404	1	Flatwasher, 3/8"
14	P01508	5	Nut, Hx., 3/8"-16
15	35099A	1	Bracket
16	P00208	1	Bolt, Hx., 3/8"-16 x 2"

18378-3

644 S/N 3112 THRU
EXHAUST ASSEMBLY (Deere)
8/93