

Page Title	Page Number
CYLINDER BLOCK, TIMING GEAR COVER (GAS)	2
FLYWHEEL, CAMSHAFT, CRANKSHAFT AND TIMING GEARS	6
FLYWHEEL, CAMSHAFT, CRANKSHAFT AND TIMING GEARS	18
FLYWHEEL, CAMSHAFT, CRANKSHAFT AND TIMING GEARS	28
PISTONS, RINGS, CONNECTING RODS (GAS)	8
CYLINDER HEAD VALVES (GAS)	10
ENGINE GASKETS KITS (ENGINE GASKETS AND SEALS) (GAS)	12
OIL PUMP, OIL PAN, OIL FILTER, OIL GAUGE AND LINES (GAS)	14
CYLINDER BLOCK, TIMING GEAR COVER (STANDARD MOTORS DIESEL)	16
CYLINDER BLOCK, TIMING GEAR COVER (STANDARD MOTORS DIESEL)	26
PISTONS, RINGS, CONNRCTING RODS (STANDARD MOTORS DIESEL)	20
CYLINDER HEAD VALVES (STANDARD MOTORS DIESEL)	22
CYLINDER HEAD VALVES (STANDARD MOTORS DIESEL)	32
ENGINE GASKET KITS (STANDARD MOTORS DIESEL)	24
ENGINE GASKET KITS (STANDARD MOTORS DIESEL)	34
PISTONS, RINGS, CONNECTING RODS (STANDARD MOTORS DIESEL)	30
OIL PUMP, OIL PAN, OIL GAUGE AND LINES (SERVICE REPLACEMENT)	36
OIL PUMP, OIL PAN, OIL GAUGE AND LINES	38
OIL FILTER (STANDARD MOTORS DIESEL)	40
MANIFOLD, MUFFLER, AIR CLEANER (GAS)	42
MANIFOLD, MUFFLER, AIR CLEANER (STANDARD MOTORS DIESEL)	44
RADIATOR AND THERMOSTAT, WATER PUMP (GAS)	46
RADIATOR AND THERMOSTAT, WATER PUMP (STANDARD MOTORS DIESEL)	48
THROTTLE, CHOKE, GOVERNOR	50
THROTTLE, FUEL SHUT-OFF CONTROL (STANDARD MOTORS DIESEL)	52
FUEL TANK, FUEL FILTER AND LINES (GAS)	54
FUEL TANK, FUEL FILTER (STANDARD MOTORS DIESEL)	56
FUEL PUMP	58
CARBURETER (GAS) (USED TRACTOR SERIAL NUMBER 175639 AND UP)	60
CARBURETER (GAS)	62
CARBURETER (GAS)	64
CARBURETER (GAS)	66
CARBURETER (GAS)	68
INJECTION PUMP AND DRIVE, FUEL FILTERS AND LINES	70
INJECTION PUMP AND DRIVE, FUEL FILTERS AND LINES	72
FUEL FILTER (STANDARD MOTORS DIESEL)	74
FUEL FILTER (STANDARD MOTORS DIESEL)	76
INJECTION PUMP (STANDARD MOTORS DIESEL)	78
INJECTION PUMP (STANDARD MOTORS DIESEL)	80
INSTRUMENT PANEL AND INSTRUMENTS (GAS)	82
INSTRUMENT PANEL AND INSTRUMENTS (STANDARD MOTORS DIESEL)	84
ELECTRICAL WIRING (12 VOLT - GAS)	86
ELECTRICAL WIRING (6 VOLT - GAS)	88
ELECTRICAL WIRING (STANDARD MOTORS DIESEL)	90
DISTRIBUTOR (GAS) FOR SERVICE REPLACEMENT ENGINE	92
DISTRIBUTOR (GAS)	94
DISTRIBUTOR (GAS)	96
GENERATOR (12 VOLT - GAS) (SOLID TYPE)	98
GENERATOR (12 VOLT - GAS) (VENTILATED TYPE)	100
GENERATOR (12 VOLT - GAS) (VENTILATED TYPE)	102

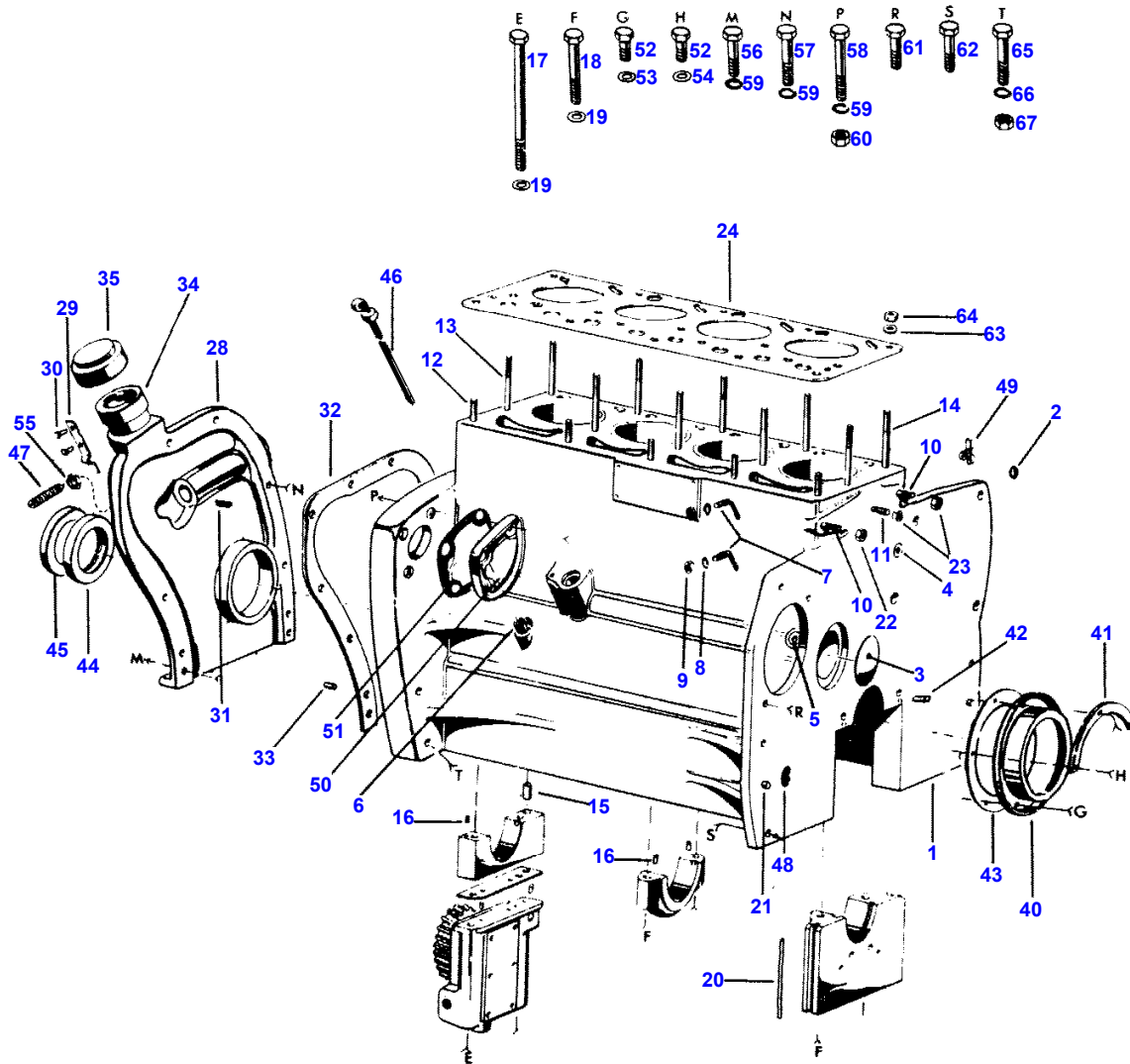
GENERATOR (12 VOLT - GAS) (VENTILATED TYPE)	104
GENERATOR (12 VOLT - GAS)	106
GENERATOR (6 VOLT - GAS)	108
GENERATOR (STANDARD MOTORS DIESEL) (SOLID TYPE)	110
GENERATOR (STANDARD MOTORS DIESEL) (VENTILATED TYPE)	112
GENERATOR	114
STARTER (12 VOLT - GAS)	116
STARTER (12 VOLT - GAS)	118
STARTER (6 VOLT - GAS)	120
STARTER AND SOLENOID (STANDARD MOTORS DIESEL)	122
STARTER (STANDARD MOTORS DIESEL)	126
LIGHTING EQUIPMENT HOOD MOUNTED (12 VOLT)	128
LIGHTING EQUIPMENT HOOD MOUNTED (6 VOLT)	130
LIGHTING EQUIPMENT (FENDER MOUNTED) (12 VOLT)	132
LIGHTING EQUIPMENT (HOOD MOUNTED) (DIESEL)	134
LIGHTING EQUIPMENT (FENDER MOUNTED) (DIESEL)	136
LIGHTING EQUIPMENT (UNIVERSAL TYPE LAMPS)	138
LAMP ASSEMBLY	140
FRONT AXLE AND SUPPORT	142
MANUAL STEERING GEAR	144
STEERING GEAR (POWER)	146
POWER STEERING GEAR (SERVICE REPLACEMENT)	148
POWER STEERING PUMP (HYDRAULIC PUMP) (POWER STEERING)	150
POWER STEERING PUMP	152
GEAR SHIFT, TRANSMISSION (DUAL CLUTCH)	154
GEAR SHIFT, TRANSMISSION (SINGLE CLUTCH)	158
TRANSMISSION CASE AND CLUTCH CONTROLS	160
DIFFERENTIAL HOUSING	162
CENTER HOUSING SERVICE KIT	164
DUAL CLUTCH	166
SINGLE CLUTCH (AGRICULTURAL TYPE)	168
REAR AXLE AND HOUSING	170
DIFFERENTIAL (USED TRACTOR SERIAL NUMBER 169467 AND UP)	172
BRAKES	174
P.T.O. SHAFT, LEVER AND FORK	176
BELT PULLEY AND DRIVE	178
DRAWBARS AND SUPPORTS	180
WHEELS	182
WHEELS	184
HOOD AND ATTACHING PARTS, DECALS	186
HOOD AND ATTACHING PARTS, DECALS	188
SEAT	190
SAFETY LAMP	192
LIFT LINKS, LIFT RODS, STABILIZER	194
HYDRAULIC LIFT SHAFT	196
HYDRAULIC LIFT COVER AND CONTROLS	198
HYDRAULIC PUMP (USED TRACTOR SERIAL NUMBER 179304 AND UP)	200
HYDRAULIC LIFT PUMP	202
HYDRAULIC VALVES (SEE NOTE A)	204
AUXILIARY HYDRAULIC VALVE (677219)	206
AUXILIARY HYDRAULIC VALVE (677221)	208
PULL BEHIND CYLINDER (2" SINGLE ACTING) (SEE NOTE)	210

HYDRAULIC PULL BEHIND CYLINDER (2" DOUBLE ACTING) (SEE NOTE)	212
PULL BEHIND CYLINDER (2-1/2" DOUBLE ACTING) (SEE NOTE)	214
BREAKAWAY COUPLING (DUAL, SINGLE)	216

2

CYLINDER BLOCK, TIMING GEAR COVER

F207-53



1st Print

693 063 M4 (Issue 1) 9/70

CYLINDER BLOCK, TIMING GEAR COVER (GAS)

Item	Part Number	Qty	Description
	1024942M91	1	(A) Block Assembly, Cylinder, Short (Reg. Alt.) (Includes Stripped Block, Pistons, Crankshaft And Bearings, Camshaft, Connecting Rods And Bearings, Oil Pump, Oil Pan, And Timing Gears)
	1752395M91	1	(B,C) Block Assembly, Cylinder, Short (Reg. Alt.) (Includes Stripped Block, Pistons, Crankshaft And Bearings, Camshaft, Connecting Rods And Bearings, Oil Pump, Oil Pan, And Timing Gears)
	1750196M91	1	(D,C) Block Assembly, Cylinder, Short (Reg. Alt.) (Includes Stripped Block, Pistons, Crankshaft And Bearings, Camshaft, Connecting Rods And Bearings, Oil Pump, Oil Pan, And Timing Gears)
	1026530M91	1	Block Assembly, Cylinder, Short (Hi-Alt.) (Includes Stripped Block, Pistons, Crankshaft And Bearings, Camshaft, Connecting Rods And Bearings, Oil Pump, Oil Pan, And Timing Gears)
	1752396M91	1	(E) Block Assembly, cylinder, Short (Hi-Alt.) (Includes Stripped Block, Pistons, Crankshaft And Bearings, Camshaft, Connecting Rods And Bearings, Oil Pump, Oil Pan And Timing Gears)
1	1024941M91	1	(A) Block Assembly, Cylinder (Stripped)
	1752394M91	1	(B,F) Block Assembly, Cylinder, Stripped
	1750197M91	1	(D,G) Block Assembly, Cylinder, Stripped
2	1750122M1	1	Plug, (1" Expansion)
3	19259X	1	Plug (2-1/8" Expansion)
4	1000148M1	2	Plug (1/4" P.T. Sckt. Hd.)
5	355542X1	2	Plug (1/8" - 27 PT. Sq. Sckt. Hd.)
6	17595A	1	Support, Oil Level Gauge
7	1958X	2	Stud (1/4" NC x 7/8")
8	353441X1	2	Washer (1/4" Lock)
9	354121X1	2	Nut (1/4")
10	1754353M1	2	"O" Ring, Piston (Outer)
11	353963X1	1	Stud (7/16" NC, x 1-5/8")
12	353964X1	5	Stud (7/16" NC - NF x 1-7/8")
13	1008281M1	2	Stud (7/16" NC - NF x 4-5/16")
14	1035877M1	8	Stud (7/16" NC - NF x 4-11/16")
15	17608A	1	Dowel, Ring, Front Bearing Cap
16	760402M1	3	Dowel (1/4 x 15/32")
17	1750131M1	2	Bolt, Front Main Bearing Caps (Also Holds Oil Pump (1/2 x 6-1/2" NC, Hex.))
18	21215A	4	Bolt, Center & Rear Bearing Caps 1/2 x 2-1/2" NC, Hex.)
19	353773X1	6	Washer (1/2" Flat)
20		1	(H) Packing, Rear Main Bearing Cap
21	180069M1		Dowel
22	353426X1	1	Nut (7/16" NF, Hex.)
23	355645X1	2	Nut (7/16" NC, Hex.)
24	1750017M1	1	Gasket, Cylinder Head
	15251A	1	Pin, Plate (1/8 x 3/8" Rd. Hd.)
28	1750661M91	1	Cover Assembly, Timing Gear
29	1500071M1	1	(J) Spring
30	16863X	2	Rivet (1/8 x 7/16" Rd. Hd.)
31	1750151M1	1	Pin (1/8 X 1/4" Groove)
32	1750032M1	1	Gasket, Timing Gear Cover
33	191314M1	2	Dowel (3/8 x 25/32")
34	1750098M1	1	(K) Pipe, Oil Filler
35	760029M91	1	Cap Assembly, Oil Filler Pipe
40	1750216M92	1	Seal Assembly, Crankshaft Rear
41	1753957M1	1	Reinforcement, Oil Seal Retainer
42	760405M1	2	Pin (5/32 x 7/16")
43	1750112M1	1	Gasket, Rear Oil Seal
44	1008597M1	2	Seal, Oil, Crankshaft, Front
45	15288A	1	Seal, Dust, Crankshaft, Front (2-1/8 x 3 x 1/4" Felt) (Order 1008597M1)
46	1750095M91	1	Gauge Assembly, Oil Level
47	760138M1	1	Screw (1/4 x 2-11/16" NC, Spec.)
48	195546M1	1	Plug (7/8" Button Type)
49	763716M1	1	Drain, Cock
50	1751846M1	1	Cover, Hydraulic Pump Opening
51	191469M1	1	Gasket
52	353666X1	AR	Bolt (1/4 x 5/8" NC, Hex.)
53	1751636M1	AR	Washer (1/4" Copper)
54	353754X1	AR	Washer (9/32 x 5/8 x 1/16" Flat)
55	355564X1	AR	Nut (1/4" NC, Hex.)
56	353692X1	AR	Bolt (3/8 x 1-1/8" NC, Hex.)
57	354263X1	AR	Bolt (3/8 x 1-5/8" NC, Hex.)
58	354268X1	AR	Bolt (3/8 x 2-3/8" NC, Hex.)
59	353434X1	AR	Washer (3/8" Lock)
60	355566X1	AR	Nut (3/8" NC, Hex.)

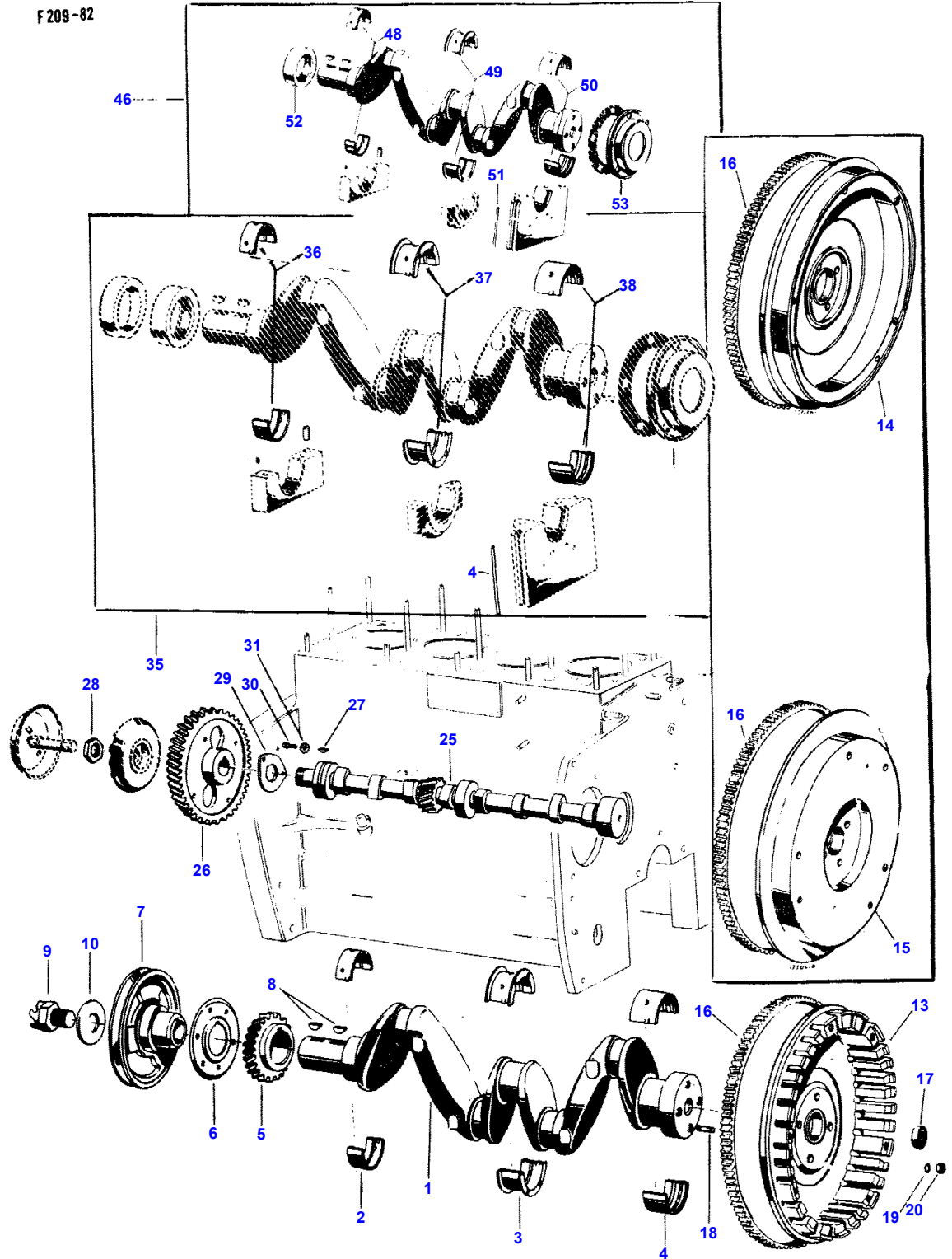
CYLINDER BLOCK, TIMING GEAR COVER (GAS)

Item	Part Number	Qty	Description
61	353698X1	AR	Bolt (7/16 x 1" NC, Hex.)
62	353700X1	AR	Bolt (7/16 x 1-1/4" NC, Hex.)
63	353757X1	AR	Washer (15/32 x 59/64 x 1/16" Flat)
64	353426X1	AR	Nut (7/16" NF, Hex.)
65	353614X1	AR	Bolt, Plate To Support (5/8 x 1-7/8" NF, Hex.)
66	353433X1	AR	Washer (5/8" Lock)
67	353427X1	AR	Nut (5/8" NF, Hex.)

(A) - Service Replacement.			
(B) - Used Tractor Serial Number 162606 And Up.			
(C) - For Repairs Order 1 Each of 1024942M91 Block, 194058M91 Distributor, 194060M1 Clamp, 194061M1 Seal, 353679X1 Bolt And 353446X1 Washer.			
(D) - Used Prior To Tractor Serial Number 162606.			
(E) - For Repairs Order 1 Each Of 1026530M91 Block, 194058M91 Distributor, 194060M1 Clamp, 194061M1 Seal, 353679X1 Bolt And 353446X1 Washer.			
(F) - For Repairs Order 1 Each Of 1024941M91 Block, 194058M91 Distributor, 194060M1 Clamp, 194061M1 Seal, 353679X1 Bolt And 353446X1 Washer.			
(G) - For Repairs Order 1 Each Of 1024941M91 Block, 1751846M1 Cover, 191469M1 Gasket And 3 Each Of 355566X1 Nut, 353550X1 Bolts And 353434X1 Washers.			
(H) - For Repairs Order (1) 1021673M1 Packing (6' Strip).			
(J) - Straight Piece; Dealer Will Bend.			
(K) - For Repairs Order (1) 1018113M91 Pipe And (1) 15345A Cap.			

6

FLYWHEEL, CAMSHAFT, CRANKSHAFT AND TIMING GEARS



1st Print

693 063 M4 (Issue 1) 9/70

FLYWHEEL, CAMSHAFT, CRANKSHAFT AND TIMING GEARS

Item	Part Number	Qty	Description
1	1750169M1	1	(A) Crankshaft
2	1751444M91	1	Insert Assembly, Front (See Item #35)
3	1751440M91	1	Insert Assembly, Center (See Item #35)
4	1751448M91	1	Insert Assembly, Rear (See Item #35)
5	1750054M1	1	Gear, Camshaft Timing (24 Teeth)
	1750203M1	AR	(B) Gear (-.001")
	1750205M1	AR	(B) Gear (-.002")
	1750202M1	AR	(B) Gear (+.001")
	1750204M1	AR	(B) Gear (+.002")
6	15286A	1	Washer, Oil Throw-off
7	1750076M1	1	Pulley, Fan Drive
8	15356A	2	Key, Crankshaft (1/4 x 1" Hi-Pro)
9	1754021M1	1	Jaw, Crankshaft Starting
10	1750149M1	1	Washer (11/16 x 2 x 3/16")
13	1754020M91	1	(C) Flywheel Assembly
14	1750041M91	1	(D) Flywheel Assembly (Dual Clutch) (Incl. Item #16)
15	1750040M91	1	Flywheel Assembly (Single Clutch) (Incl. Item #16)
16	1750034M1	1	Gear, Ring (145 Teeth)
17	832960M3	1	Bearing, Ball
18	1750134M1	4	Stud, Flywheel (7/16" NC-NF x 1-9/16")
19	359404X1	4	Washer (7/16" Int. Tooth Lock)
20	353426X1	4	Nut (7/16" NF, Hex.)
25	1750293M1	1	(E) Camshaft
	1750074M1	1	(F) Camshaft
26	1750237M1	1	Gear, Camshaft Timing (Std.)
	1750207M1	AR	(B) Gear (-.001")
	1750209M1	AR	(B) Gear (-.002")
	1750206M1	AR	(B) Gear (+.001")
	1750208M1	AR	(B) Gear (+.002")
27	1691X	1	Key (5/32 x 5/8" Woodruff)
28	1500098M1	1	Nut, Camshaft
29	1500056M1	1	Plate, Camshaft Thrust
30	1750127M1	2	Bolt (5/16 x 1/2" NC, Special)
31	022428X	2	Washer (5/16" Lock)
35	830516M91	AR	Insert Kit, Main Bearing (Std.)
36	1751444M91	1	Insert Assembly, Front
37	1751440M91	1	Insert Assembly, Center
38	1751448M91	1	Insert Assembly, Rear
35	830637M91	AR	Insert Kit, Main Bearing (-.002")
36	1751445M91	1	Insert Assembly, Front
37	1751441M91	1	Insert Assembly, Center
38	1751449M91	1	Insert Assembly, Rear
35	830638M91	AR	Insert Kit, Main Bearing (-.010")
36	1751446M91	1	Insert Assembly, Front
37	1751442M91	1	Insert Assembly, Center
38	1751450M91	1	Insert Assembly, Rear
35	830639M91	AR	Insert Kit, Main Bearing (-.020")
36	1751447M91	1	Insert Assembly, Front
37	1751443M91	1	Insert Assembly, Center
38	1751451M91	1	Insert Assembly, Rear
46	830686M91	1	Crankshaft Kit
	830516M91	1	Insert Kit, Main Bearings (Std.) (See Item 35)
48	1751444M91	1	Insert Assembly, Front
49	1751440M91	1	Insert Assembly, Center
50	1751448M91	1	Insert Assembly, Rear
51	1021673M1	1	Packing, Rear Bearing Cap (12' Ball)
52	1008597M1	1	Seal, Oil, Crankshaft, Front
53	1750216M92	1	Seal Assembly, Crankshaft Rear
	836543M91	1	Camshaft Kit
	1750293M1	1	Camshaft
		1	Instructions
	733504M1	1	(G) Pulley, Crankshaft

 (A) - For Repairs Order 830686M91
 Crankshaft Kit. See Item 46.

(B) - Undersize And Oversize Gears Are

Item	Part Number	Qty	Description
			Furnished On Special Orders When Needed To Obtain Quiet Gear Operation. (C) - Used Tractor Serial Numbers 177395 Thru 177519, 177538 And Up. (D) - Used Prior To Tractor Serial Number 177395; Also Used Tractor Serial Numbers 177520 Thru 177537. (E) - Used Tractor Serial Numbers (Single Clutch) 166768 And Up; (Dual Clutch) 167258 Thru 167805, 168319 Thru 168339, 168505 And Up. (F) - Used Prior To Tractor Serial Numbers (Single Clutch) 166768; (Dual Clutch) 167258, Also Used 167806 Thru 168318 And 168340 Thru 1668504. For Repairs Order 836543M91 Camshaft Kit. (G) - For Use When Equipped With 102 Loader.