

SERVICE MANUAL
QUADTRAC TRACTOR

9370
9380
9390

8-83394

1. Trim along dashed line.
2. Slide into pocket on Binder Spine.

TYPE 1-4

SERVICE MANUAL
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TYPE 1-4

9370, 9380, 9390 and Quadtrac Tractor Service Manual

Table of Contents

General	Section	Form No.
Loctite Product Chart		8-98902
General Information and Specifications	1003	7-65420
 Engine		
Engine Removal - 9370, 9380	2001	8-83900
 Fuel System		
Fuel System and Filters	3001	8-83620
 Electrical		
Wiring Schematic and Troubleshooting	4001	8-83240
Starting Motor - Delco Remy Series 42-MT	4002	8-83490
Battery Servicing and Testing	4003	8-83530
Delco 21-SI Alternator Testing and Repair	4014	8-83450
Wiring Schematic and Troubleshooting - Quadtrac	4015	8-84030
 Steering		
Tilt/Telescoping Steering Column	5001	8-83470
"Wide Angle" Steering Control Unit	5002	8-83790
Steering Priority Valve - 9370, 9380, 9390 and Quadtrac	5004	8-83760
 Power Train		
Powershift Transmission Removal - 9370, 9380, 9390	6001	8-83910
PTO Driveline Hanger Bearing	6002	8-83720
EW-16 Powershift Transmission Service	6004	8-83410
PTO Drive Unit Repair	6005	8-83420
Rear Driveline Support Bearing	6006	8-83710
PTO Drop Box Unit Repair	6008	8-83440
Differential Lock Electric Shift Motor Testing & Repair	6009	8-82651
694-60/70 and 694-62/72 Raba Axle Repair	6010	8-83120
Charge Pump Repair EW-16 Powershift HM-2 and HM-24 SynchroShift Transmission	6014	8-83460
Axle Repair - Quadtrac Model Tractors	6015	8-83960
Rear Axle Cooling (Quadtrac)	6016	8-83970
Axle Removal and Installation - Quadtrac	6017	8-83980

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BURLINGTON, ON L7N 3M6 CANADA

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Power Train (Cont'd)

Differential Pinion Seal Replacement (in tractor) Quadtrac	6018	8-84000
Track and Undercarriage - Quadtrac	6019	8-83990
HM-2 and HM-24 SynchroShift Transmission Pressure Testing	6021	8-83270
HM-2 and HM-24 SynchroShift Transmission Removal.....	6022	8-83260
12 Speed SynchroShift and 24 Speed HI-LO SynchroShift Transmission Repair	6023	8-83020

Brakes

Dual Stage Master Cylinder	7001	8-83310
Caliper Disc Brake System	7002	8-83330
Single Stage Master Cylinder	7003	8-83320

Hydraulic System

Hydraulic Troubleshooting and Schematic - 9370, 9380	8000	8-83190
Remote Control Valve	8001	8-83750
Hydraulic Piston Pump	8002	8-83650
Hydraulic Gear Pump	8003	8-83660
Hitch Valve	8005	8-84050
Hydraulic Filters	8006	8-83630
Electronic Hitch Calibration.....	8009	8-83170
Hydraulic Gear Pump - 9390.....	8010	8-84020
Hydraulic Troubleshooting and Schematics - 9390	8011	8-84011
Hydraulic Troubleshooting and Schematics - Quadtrac	8012	8-84040
TPH Valve	8013	7-85380
Axle Lubrication and Brake Circuit Troubleshooting (Quadtrac)	8014	7-87860

Chassis

Cab Removal and Installation	9001	8-83860
Center Hinge Bearings and Connecting Link.....	9002	8-83590
Drawbar Removal	9003	8-83520
Radiator Removal - 9370, 9380	9004	8-83920
Hood and Grille - 9370, 9380, 9390	9005	8-83930
HVAC System	9006	8-83550
Air Conditioner System - Refrigerant Recovery, System Evacuation and Recharging	9007	8-83560
Air Conditioner Compressor.....	9008	8-83640
Mechanical Seat.....	9009	8-83480
Deluxe Air Seat	9010	8-83940
Weighting the 4WD Tractor	9017	8-83040

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Section 1003

1003

GENERAL INFORMATION AND SPECIFICATIONS

For 9370 and 9380 Series Tractor

SAE FASTENER TORQUE CHART

NOTE: Use these torques, unless special torques are specified. Values are for UNC and UNF thread fasteners, plated or unplated, as received from supplier. Fasteners can be dry or lubricated with normal engine oil. Values do not apply if graphite, moly-disulphide or other extreme pressure lubricant is used.

SAE Grade No.	2				5				8*			
Bolt head identification (See Note 1)												
Bolt Size	LB FT		Nm		LB FT		Nm		LB FT		Nm	
	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
1/4	5	6	7	8	9	11	12	15	12	15	16	20
5/16	10	12	14	16	17	20.5	23	28	24	29	33	39
3/8	20	23	27	31	35	42	48	57	45	54	61	73
7/16	30	35	41	47	54	64	73	87	70	84	95	114
1/2	45	52	61	70	80	96	109	130	110	132	149	179
9/16	65	75	88	102	110	132	149	179	160	192	217	260
5/8	95	105	129	142	150	180	203	244	220	264	298	358
3/4	150	185	203	251	270	324	366	439	380	456	515	618
7/8	160	200	217	271	400	480	542	651	600	720	814	976
1	250	300	339	406	580	696	787	944	900	1080	1220	1464
1-1/8					800	880	1085	1193	1280	1440	1736	1953
1-1/4					1120	1240	1519	1681	1820	2000	2468	2712
1-3/8					1460	1680	1980	2278	2380	2720	3227	3688
1-1/2					1940	2200	2631	2983	3160	3560	4285	4827

NOTE 1: Bolt head identification marks as per grade. Manufacturing marks will vary.

*Thick nuts must be used with Grade 8 bolts

STANDARD TORQUE DATA FOR HYDRAULIC TUBES AND FITTINGS

TUBE NUTS FOR 37° FLARED FITTINGS								O-RING BOSS PLUGS, ADJUSTABLE FITTING LOCK NUTS, SWIVEL JIC - 37° SEATS			
SIZE	TUBING O.D.		THREAD SIZE	LB FT		Nm		LB FT		Nm	
	Inches	mm		Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
4	1/4	6.4	7/16-20	9	12	12	16	6	10	8	14
5	5/16	7.9	1/2-20	12	15	16	20	10	15	14	20
6	3/8	9.5	9/16-18	21	24	29	33	15	20	20	27
8	1/2	12.7	3/4-18	35	40	47	54	25	30	34	41
10	5/8	15.9	7/8-14	53	58	72	79	35	40	47	54
12	3/4	19.1	1-1/16-12	77	82	104	111	60	70	81	95
14	7/8	22.2	1-3/16-12	90	100	122	136	70	80	95	109
16	1	25.4	1-5/16-12	110	120	149	163	80	90	108	122
20	1-1/4	31.8	1-5/8-12	140	150	190	204	95	115	129	156
24	1-1/2	38.1	1-7/8-12	160	175	217	237	120	140	163	190
32	2	50.8	2-1/2-12	225	240	305	325	250	300	339	407

Above torque figures are recommended for plain, cadmium or zinc plated fittings, dry or wet installations and swivel nuts either swaged or brazed. These torques are not recommended for tubes 1/2 inch (12.7 mm) O.D. and larger with wall thickness of 0.035 inch (0.889 mm) or less. The torque is specified for 0.035 inch (0.889 mm) wall tubes on each application individually.

STANDARD TORQUE DATA FOR HYDRAULIC TUBES AND FITTINGS

TUBE NUTS FOR 37° FLARED FITTINGS								O-RING BOSS PLUGS, ADJUSTABLE FITTING LOCK NUTS, SWIVEL JIC - 37° SEATS			
SIZE	TUBING O.D.		THREAD SIZE	TORQUE				TORQUE			
				FOOT POUNDS		NEWTON METERS		FOOT POUNDS		NEWTON METERS	
	Inches	mm		Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
4	1/4	6.4	7/16-20	9	12	12	16	6	10	8	14
5	5/16	7.9	1/2-20	12	15	16	20	10	15	14	20
6	3/8	9.5	9/16-18	21	24	29	33	15	20	20	27
8	1/2	12.7	3/4-18	35	40	47	54	25	30	34	41
10	5/8	15.9	7/8-14	53	58	72	79	35	40	47	54
12	3/4	19.1	1-1/16-12	77	82	104	111	60	70	81	95
14	7/8	22.2	1-3/16-12	90	100	122	136	70	80	95	109
16	1	25.4	1-5/16-12	110	120	149	163	80	90	108	122
20	1-1/4	31.8	1-5/8-12	140	150	190	204	95	115	129	156
24	1-1/2	38.1	1-7/8-12	160	175	217	237	120	140	163	190
32	2	50.8	2-1/2-12	225	240	305	325	250	300	339	407

Above torque figures are recommended for plain, cadmium or zinc plated fittings, dry or wet installations.

Swivel nuts either swaged or brazed.

These torques are not recommended for tubes 1/2 inch (12.7 mm) O.D. and larger with wall thickness of 0.035 inch (0.889 mm) or less. Torque is specified for 0.035 inch (0.889 mm) wall tubes on each application individually.

FLUID CAPACITIES AND TYPES

All fluid capacities listed are a guide to the quantities required. Always use dipsticks or level plugs to ensure that the units are filled to the correct level.

ENGINE

Crankcase Capacity (with filter)	11 U.S. gallons (41.5 L)
Oil Type	Case No. 1 Multi-Viscosity Engine Oil
Cooling System Capacity (P.I.N. JEE0036000 and before)	17.5 U.S. gallons (66.0 L)
(P.I.N. JEE0036001 and after)	18.3 U.S. gallons (69.0 L)
Fluid Type	50 Percent Ethylene Glycol and Water

AXLE (each)

Oil Capacity (total)	9.0 U.S. gallons (34.0 L)
Oil Type	Case Hy-Tran Plus

TRANSMISSION (PowerShift)

Oil Capacity (with filter and PTO)	10.5 U.S. gallons (39.7 L)
(w/o PTO)	10.0 U.S. gallons (37.8 L)
Oil Type	Case Hy-Tran Plus

TRANSMISSION (HM-2, HM-24 SynchroShift)

Oil Capacity (with filter and PTO)	12.5 U.S. gallons (47.3 L)
(w/o PTO)	12.0 U.S. gallons (45.4 L)
Oil Type	Case Hy-Tran Plus

HYDRAULIC SYSTEM

Reservoir Capacity (with filter)	18.0 U.S. gallons (68.0 L)
Oil Type	Case Hy-Tran Plus

PTO DROP BOX

Oil Capacity	Transmission supplied
Oil Type	Case Hy-Tran Plus

BRAKE SYSTEM

Reservoir Capacity	1 U.S. quart (0.946 L)
Brake Fluid Type	SAE J1703 (DOT 3)

FUEL SYSTEM

Tank Capacity	270 U.S. gallons (1022.0 L)
Fuel Type	No. 2D

Oil Pressure (warm at 1300 RPM)	35 to 40 PSI (240 to 310 kPa)
Air Induction System	Dry Type, 2-Stage Aspirator
Fuel Injection Pump	Cummins
Fuel Injectors	Cummins Top Stop
Thermostat	180°F to 202°F (82°C to 94°C)
Radiator Cap	7 PSI (62 kPa)

P.I.N. JEE0036001 AND AFTER

Engine Make	Cummins
Model	N-14
Type	In-Line Six Cylinder, Four Stroke Cycle
Displacement	855 Cubic Inch (14.0 L)
Cylinder Sleeves	Removable, wet type
Bore	5.5 inch (140 mm)
Stroke	6.0 inch (152 mm)
Governed Speed (No Load)	2275 to 2450 RPM
Rated Speed	1700 to 2100 RPM
Idle Speed (approximate)	825 to 900 RPM
Engine Operating Torque (at 2100 RPM)	
9370	900 lb ft (1220 Nm)
9380	1000 lb ft (12356 Nm)
Engine Peak Torque (at 1400 RPM)	
9370	1215 lb ft (1649 Nm)
9380	1330 lb ft (1803 Nm)
Torque Rise	
9370	35%
9380	33%
Compression Ratio	
9370	18.5:1
9380	16.5:1
Firing Order	1-5-3-6-2-4
Oil Pressure (warm at 1300 RPM)	35 to 40 PSI (240 to 310 kPa)
Air Induction System	Dry Type, 2-Stage Aspirator
Fuel Injection Pump	Cummins
Fuel Injectors	Cummins Top Stop
Thermostat	180°F to 202°F (82°C to 94°C)
Radiator Cap	7 PSI (62 kPa)

TRACTOR WEIGHTS

Approximate Shipping Weights

9370 with 20.8 R42 Dual Tires, Three Point Hitch and PTO	29 035 lb (13 153 Kg)
9380 with 710/70 R38 Dual Tires (No options)	31 947 lb (14 472 Kg)

NOTE: *Estimated shipping weights are less fuel, operator, quick coupler or other optional equipment.*

Maximum Tractor Operating Weight

9370	40 000 lb (18 144 Kg)
9380	44 000 lb (19 958 Kg)

NOTE: *Includes operator, tractor, tractor equipment and ballast with a 60% front and 40% rear static weight distribution.*

Section 2001

ENGINE REMOVAL 9370 and 9380 Model Tractors

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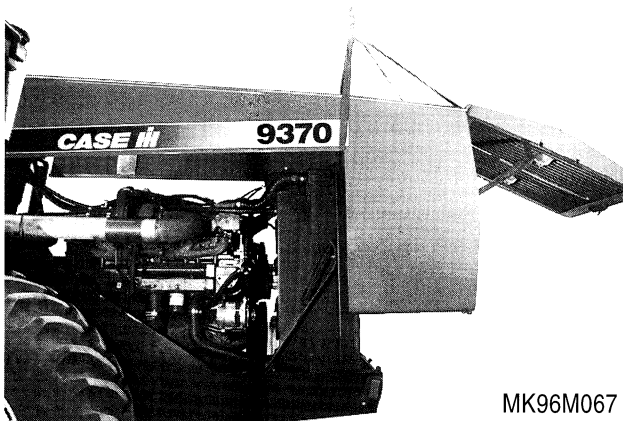
CASE CANADA CORPORATION
450 Sherman Avenue
Hamilton, ON L8N 4C4 CANADA

Rac 8-83900

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November, 1996

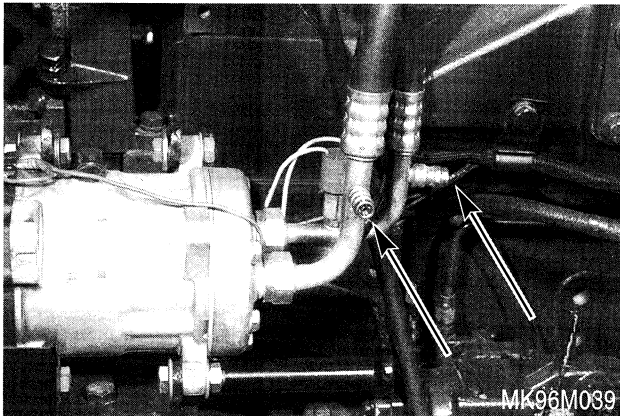
ENGINE REMOVAL

STEP 1



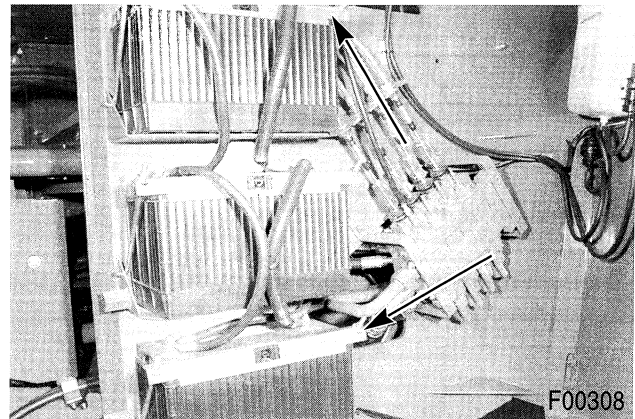
Remove the key from the switch. See Section 9005 in this manual for instructions to remove the hood and grille.

STEP 2



See Section 9007 in this manual for instructions on discharging the air conditioning system.

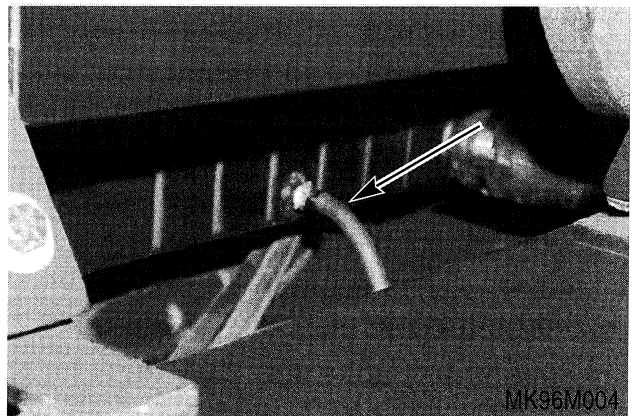
STEP 3



Open the battery access door and disconnect the negative and positive battery cables from the upper and lower batteries.

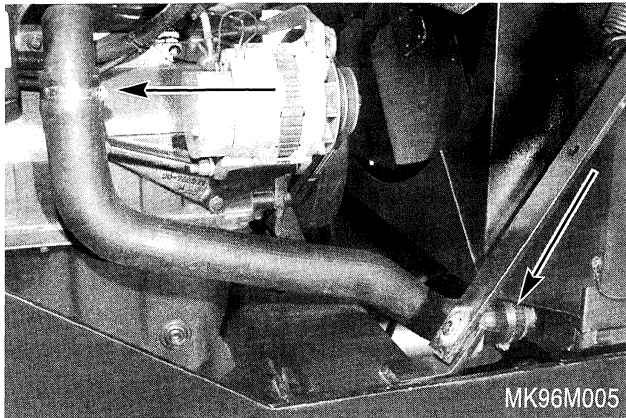
NOTE: Always disconnect the negative battery cable first.

STEP 4

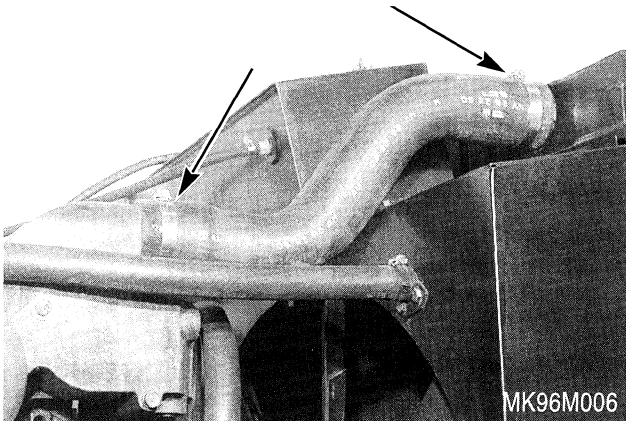


Install a short length of hose on the radiator drain valve. Open the valve and drain the cooling system.

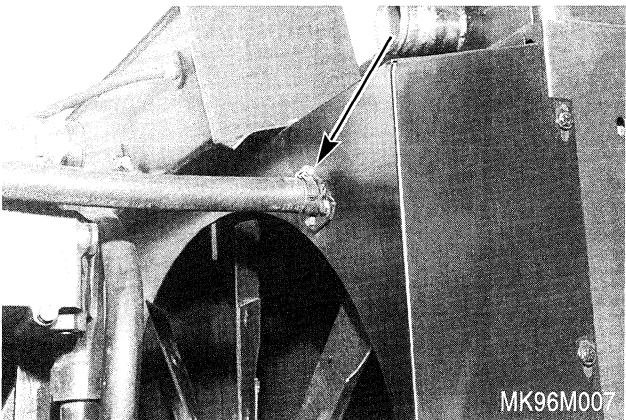
NOTE: The cooling system holds approximately 15 gallons (57 Liters) of coolant.

STEP 5

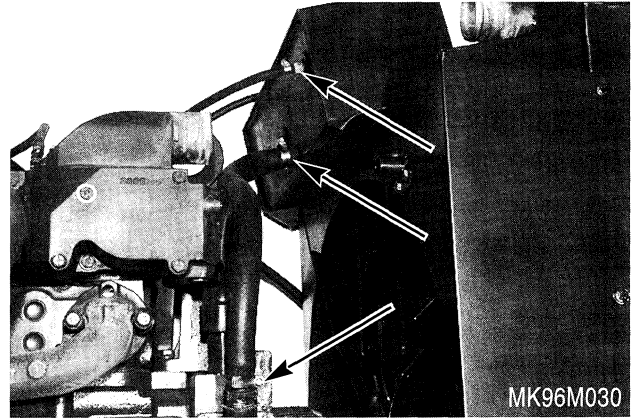
Place a catch pan under the lower radiator hose. Loosen the hose clamps and carefully remove the hose from the engine and radiator.

STEP 6

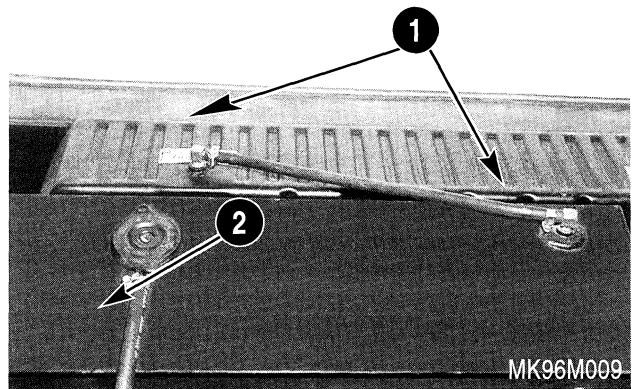
Remove the upper radiator hose from the engine and the radiator.

STEP 7

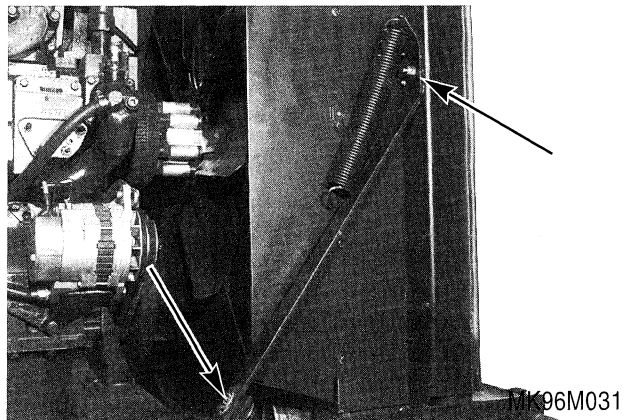
Remove the HVAC aspirator hose from the fan shroud.

STEP 8

Remove the engine air bleed and shunt hose from the engine and the radiator fill tank.

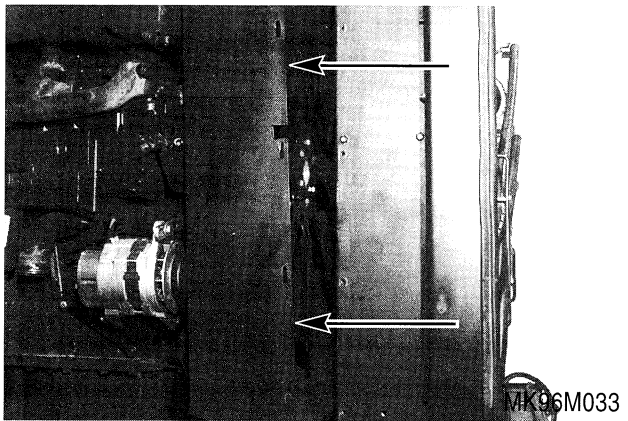
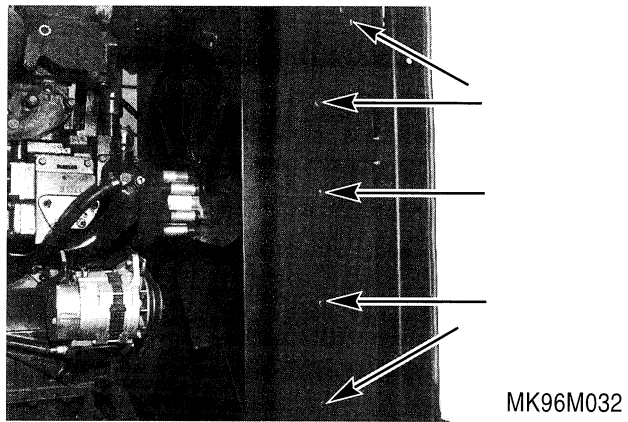
STEP 9

Remove the de-airiation hose (Ref. 1) between the radiator fill tank and the radiator. Remove the coolant recovery hose (Ref. 2) from the radiator fill tank.

STEP 10

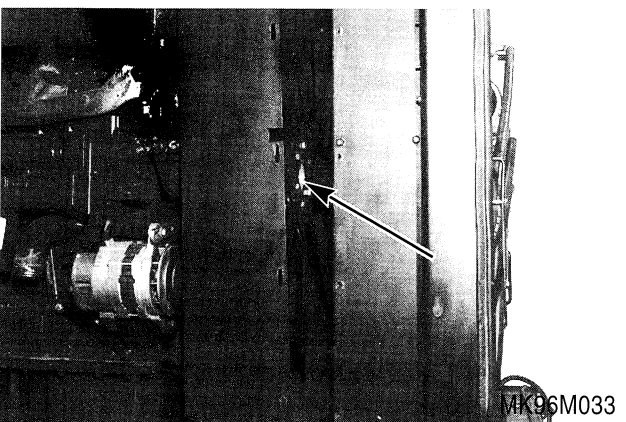
Remove a radiator mounting brace from one side of the front frame.

STEP 11



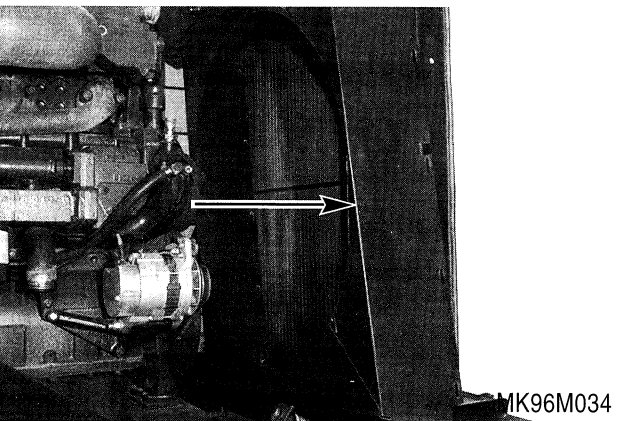
Remove the five right side and left side fan shroud mounting bolts. Move the fan shroud rearward against the frame crossmember.

STEP 12



Remove the fan mounting bolts. Remove the fan and the spacer.

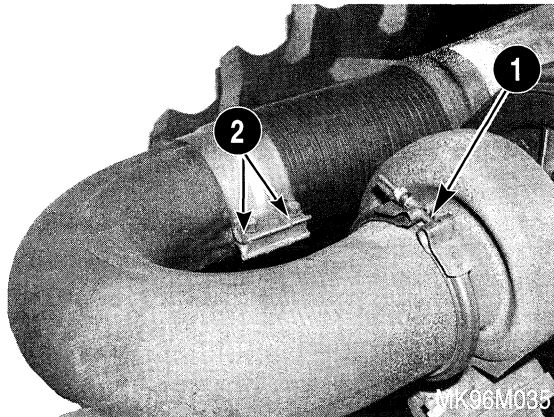
STEP 13



Remove the fan shroud from the tractor.

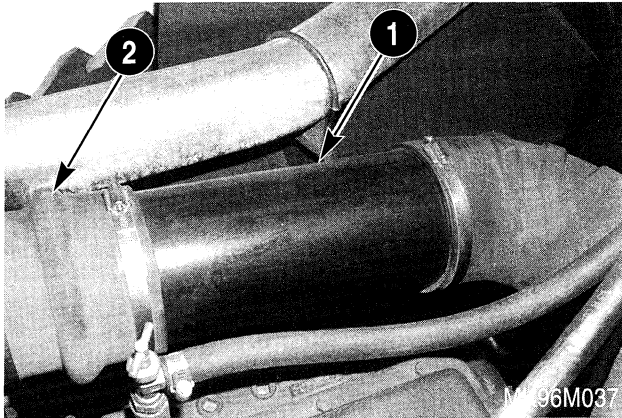
Right Side

STEP 14



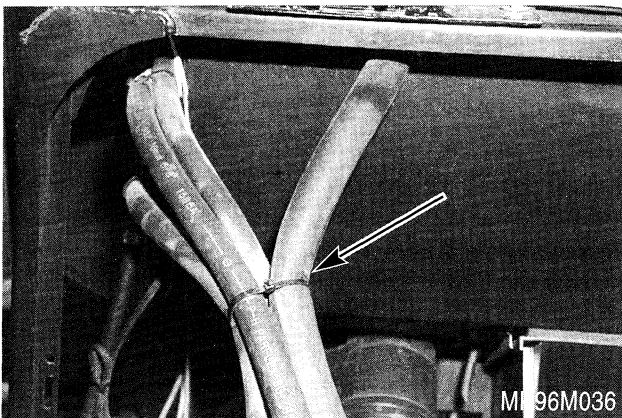
Remove the exhaust pipe clamp (Ref. 1) and loosen the band clamp (Ref. 2). Remove the exhaust pipe elbow.

STEP 15



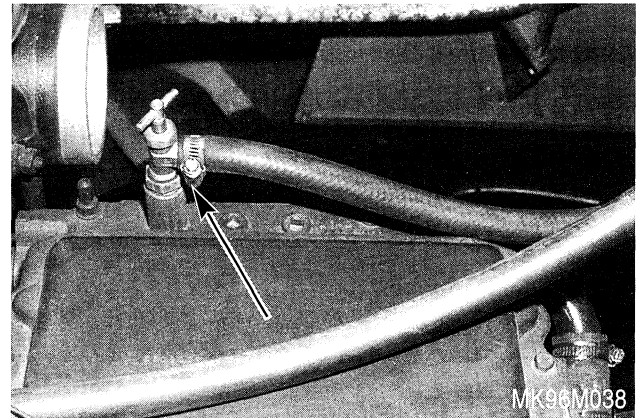
Loosen the clamps. Remove the turbo inlet tube (Ref. 1) and the flex connector (Ref. 2).

STEP 16



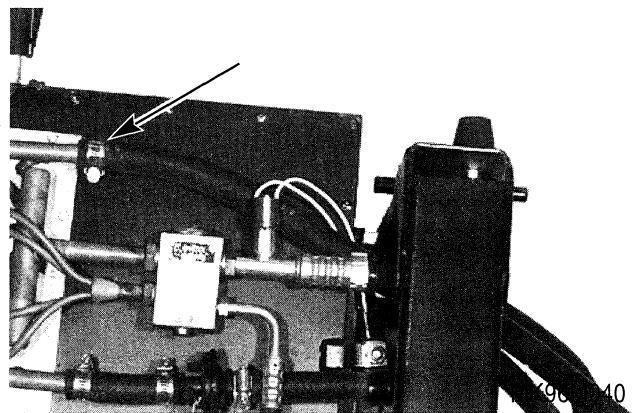
Remove the cable tie from the hoses in front of the HVAC box.

STEP 17



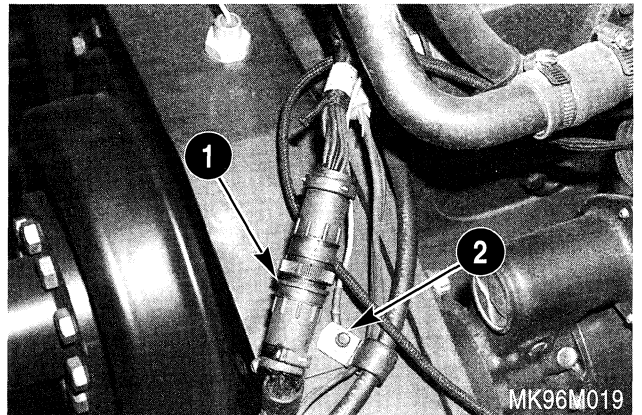
Remove the heater hose from the shut off valve.

STEP 18



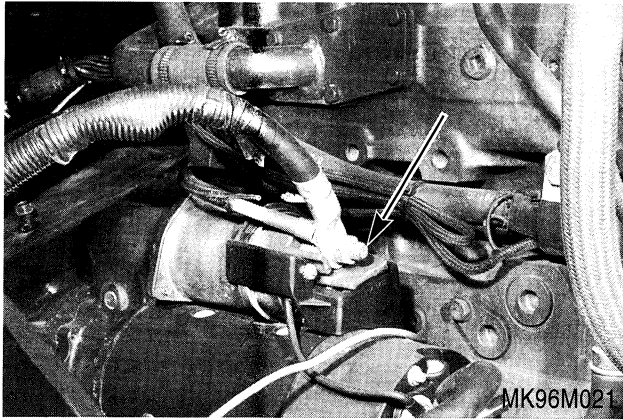
Remove the heater return hose from the heater core.

STEP 19



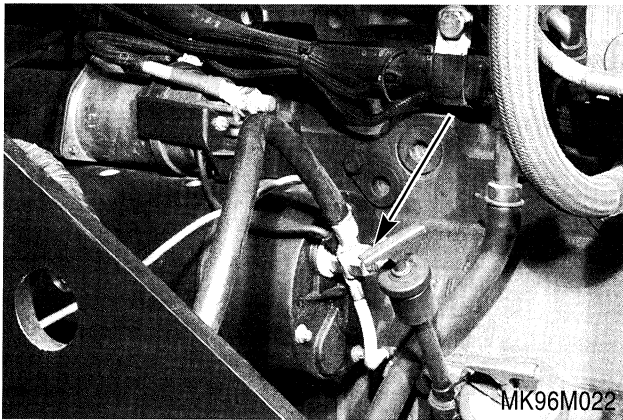
Disconnect the engine wire harness (Ref. 1) and remove the cable clamp bracket (Ref. 2).

STEP 20



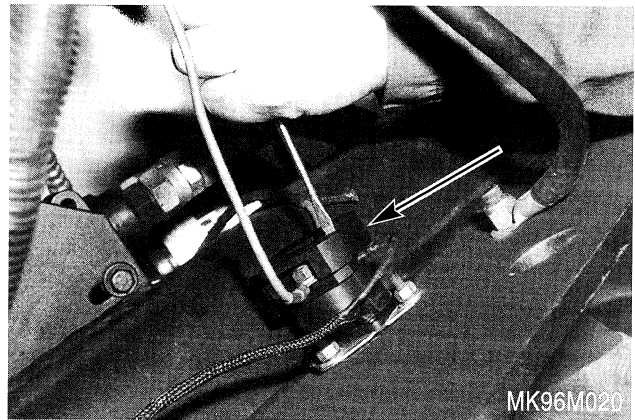
Remove the positive battery cable from the starter solenoid.

STEP 21

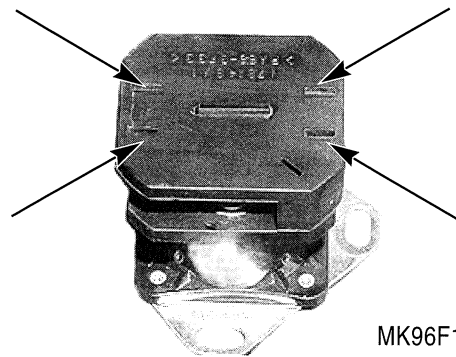


Remove the negative cable from the starter.

STEP 22

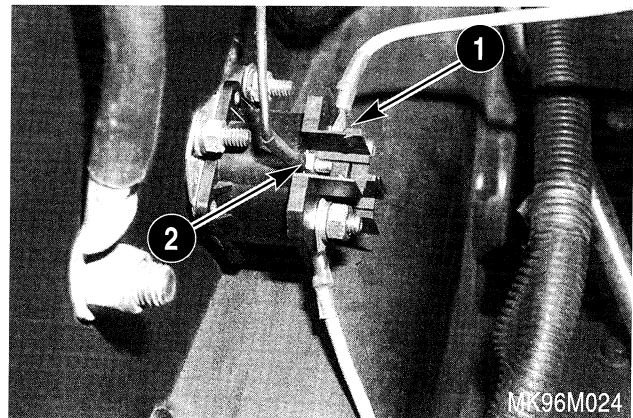


Remove the cover from the magnetic starter switch.



NOTE: Insert a thin blade screwdriver into the slots in the cover to release the cover lock tabs.

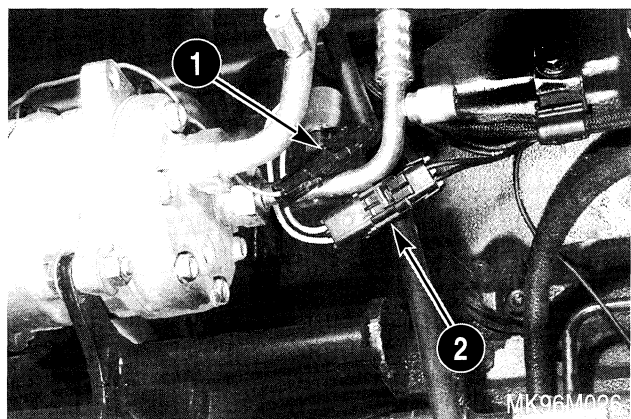
STEP 23



Remove the starter solenoid wire (Ref. 1) and the wire harness wire (Ref. 2) from the switch.

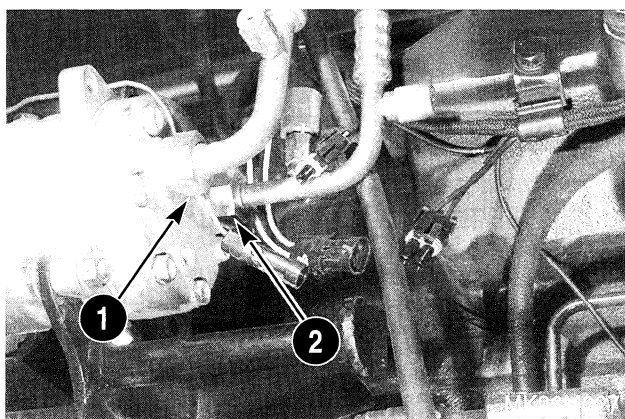
Left Side

STEP 24



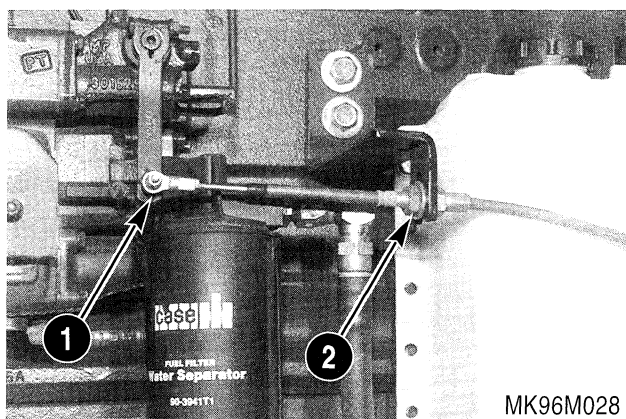
Disconnect the compressor clutch wire (Ref. 1) and the low pressure switch wires (Ref. 2) from the engine wire harness.

STEP 25



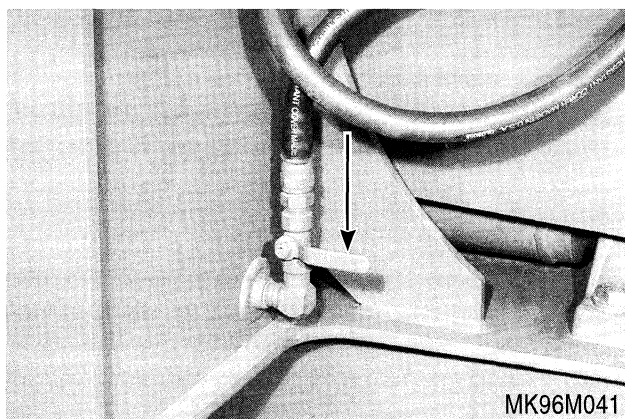
Remove the suction (Ref. 1) and the discharge (Ref. 2) hoses from the compressor. Install caps on the compressor and plugs in the hose ends. Discard the O-rings.

STEP 26



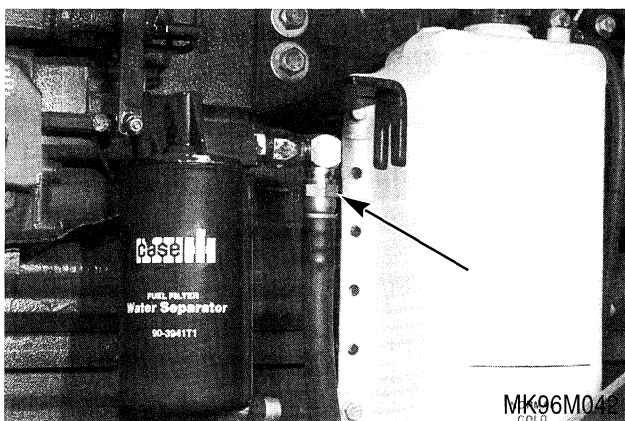
Remove the throttle cable from the fuel pump throttle lever (Ref. 1) and the mounting bracket (Ref. 2).

STEP 27



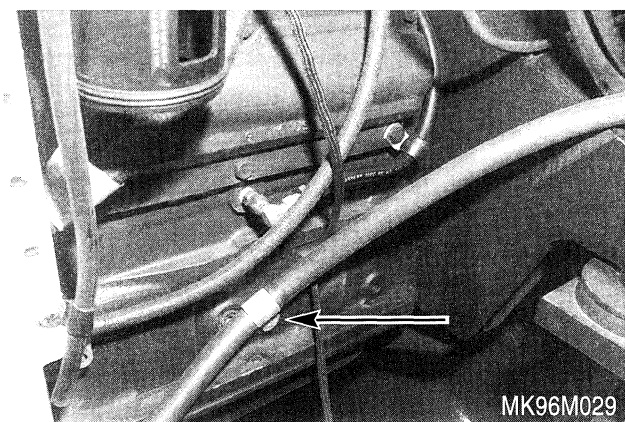
Shut off the fuel supply hose valve.

STEP 28



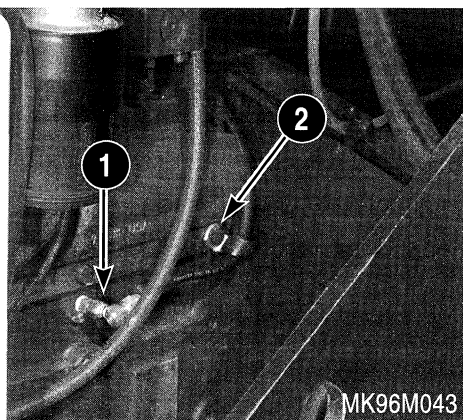
Remove the fuel hose from the fuel filter. Install a cap on the fitting and a plug in the hose end.

STEP 29



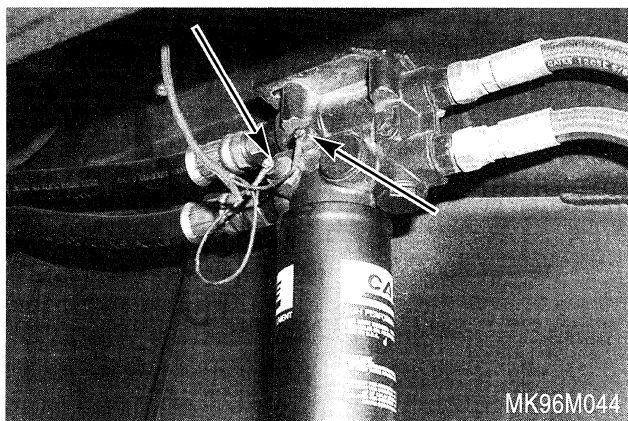
Remove the fuel hose clamp from the engine.

STEP 30



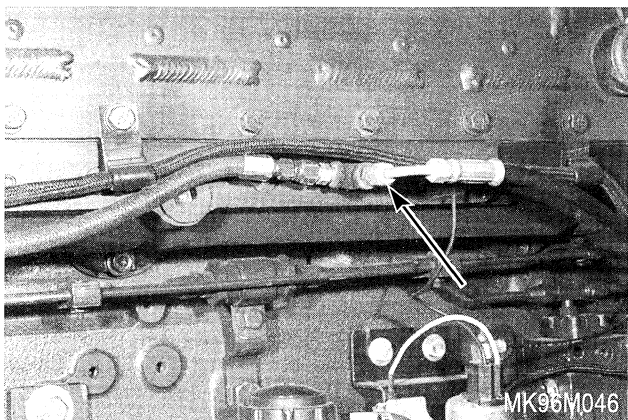
Remove the oil pressure hose (Ref. 1) and clamp (Ref. 2) from the engine. Install a cap on the fitting and a plug in the hose end.

STEP 31



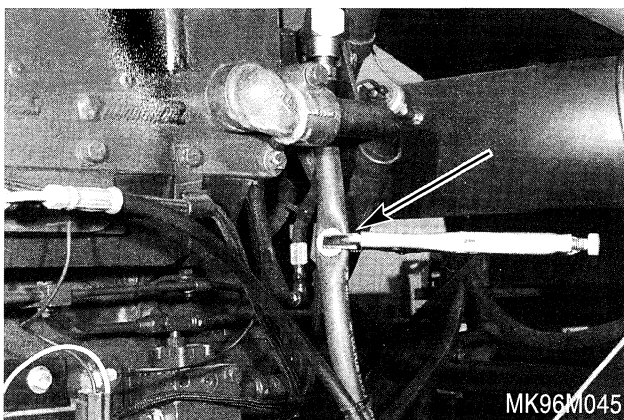
Remove the temperature and the restriction indicator switch wires from the transmission filter head.

STEP 32



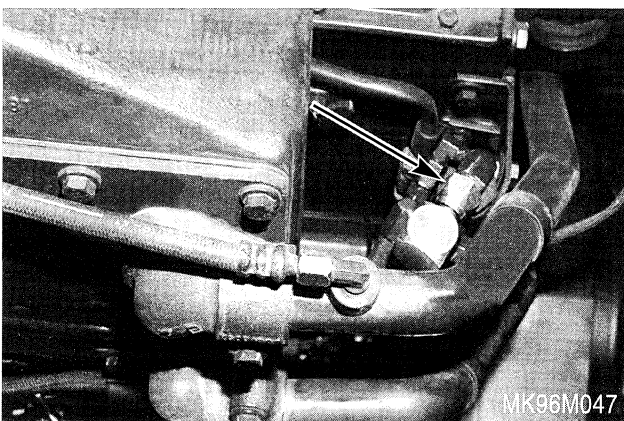
Remove the axle cooling turbo boost pressure line from the intake manifold.

STEP 33



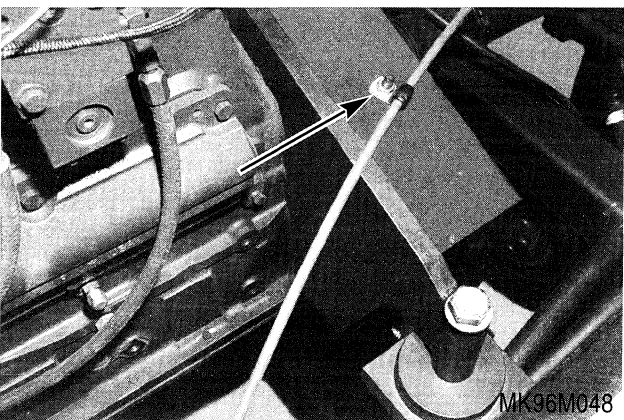
Install a clamp on the fuel return line. Do not tighten the clamp more than necessary to stop the fuel flow or the fuel return line may be damaged.

STEP 34

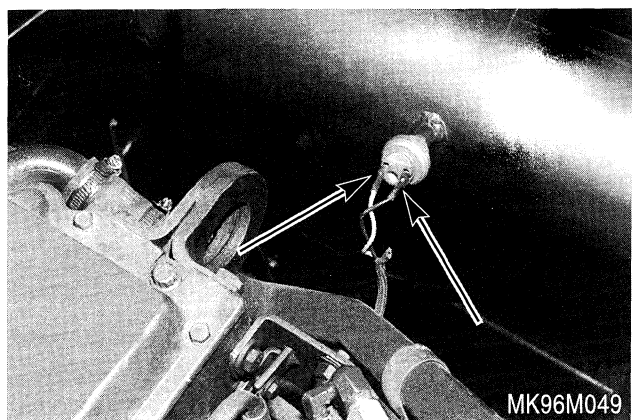


Remove the fuel return line. Install a cap on the fitting and a plug in the hose end.

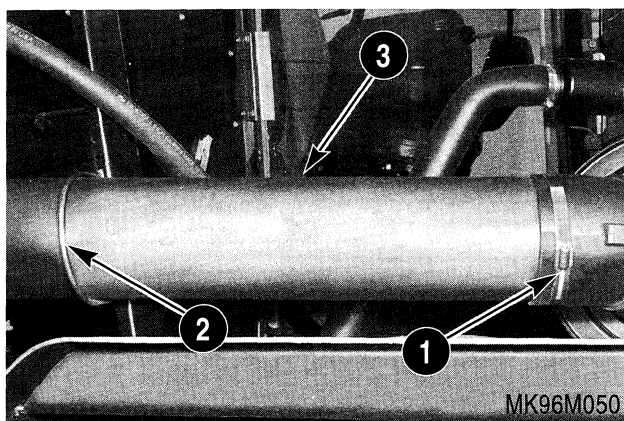
STEP 35



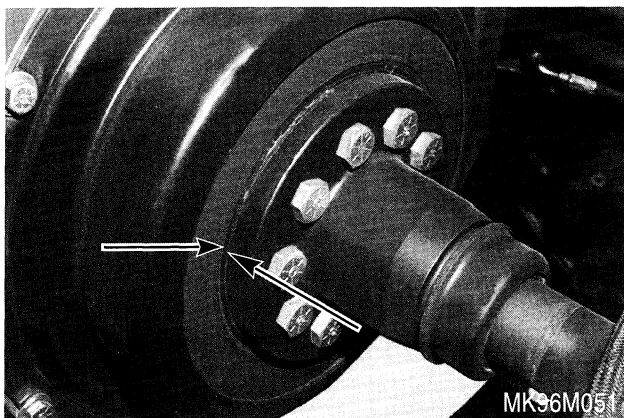
Remove the throttle cable clamp from the flywheel guard.

STEP 36

Remove the wires from the air filter restriction indicator switch.

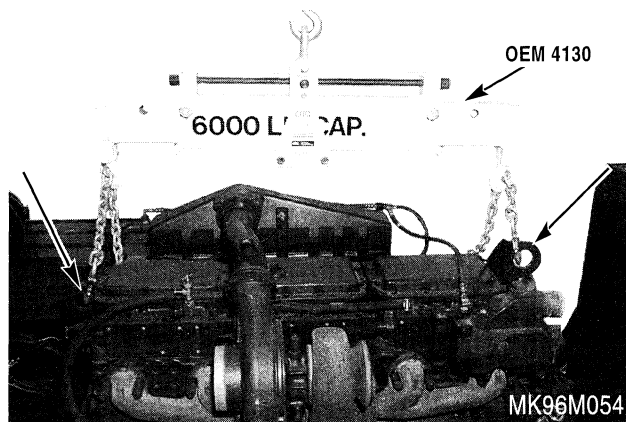
STEP 37

Loosen the clamp (Ref. 1), remove the U-clamp (Ref. 2) and remove the air inlet tube (Ref. 3).

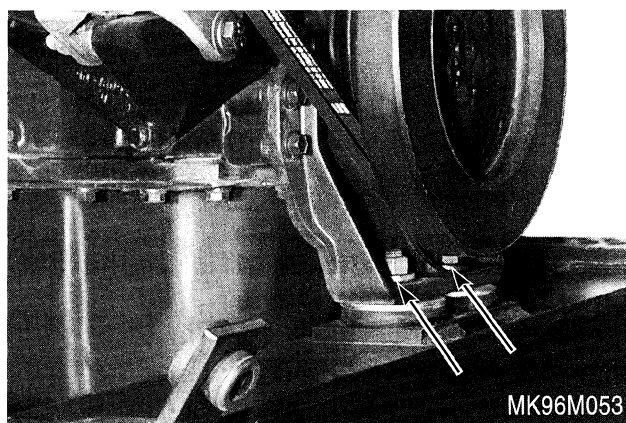
STEP 38

Mark the position of the driveshaft on the drive coupler. Remove the transmission input driveshaft from the engine drive coupler.

IMPORTANT: *Be sure the coupler moves freely on the shaft splines.*

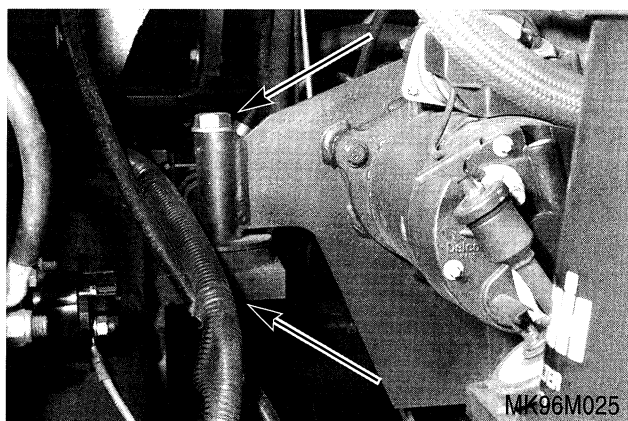
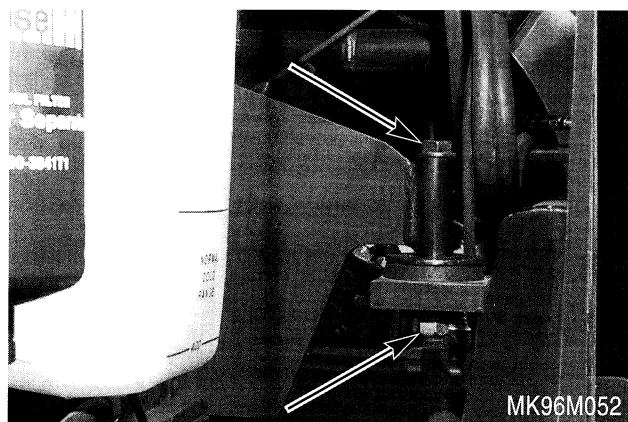
STEP 39

Install an OEM 4130 6000 lb (2722 Kg) Load Rotor on an overhead hoist. Connect the lifting chains to the front and rear engine lift brackets.

STEP 40

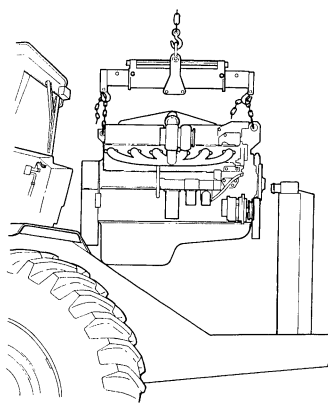
Remove the front motor mount bolts, nuts and washers.

STEP 41



Remove the LH and RH rear motor mounts.

STEP 42

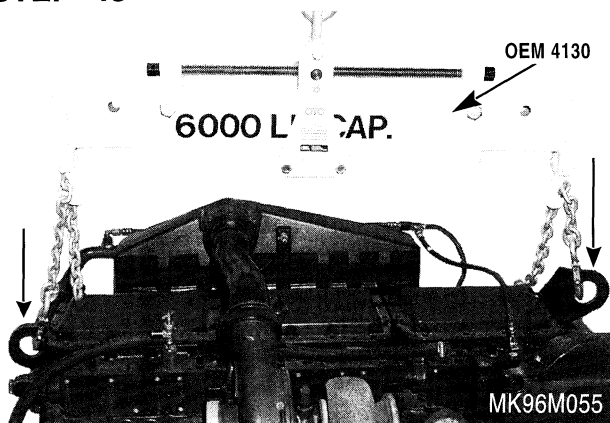


MB96M017

Be sure all hoses, lines, cables and wire harnesses are disconnected and clear of the engine. Lift the engine off the motor mounts and adjust the load rotor to balance the weight of the motor. Lift the engine until the oil pan will clear the side frame rails and remove the engine from the tractor.

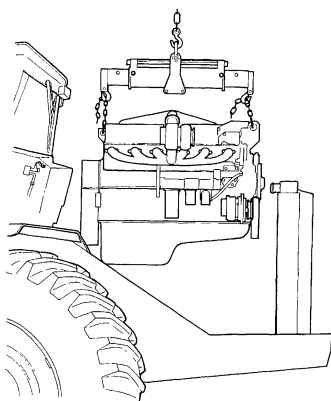
ENGINE INSTALLATION

STEP 45



Install an OEM 4130 6000 lb (2722 Kg) Load Rotor on an overhead hoist. Connect the lifting chains to the front and rear engine lift brackets. Lift the engine and adjust the load rotor to balance the weight of the motor.

STEP 46

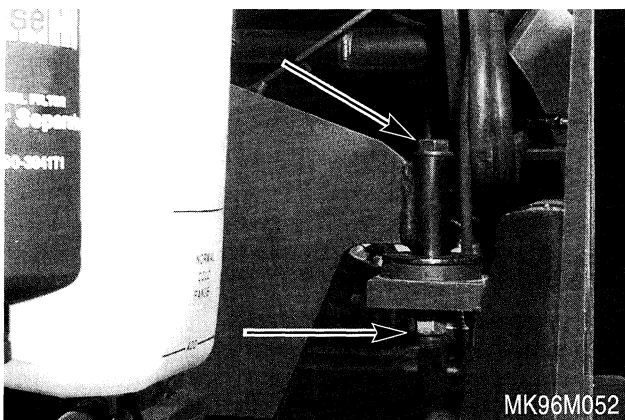
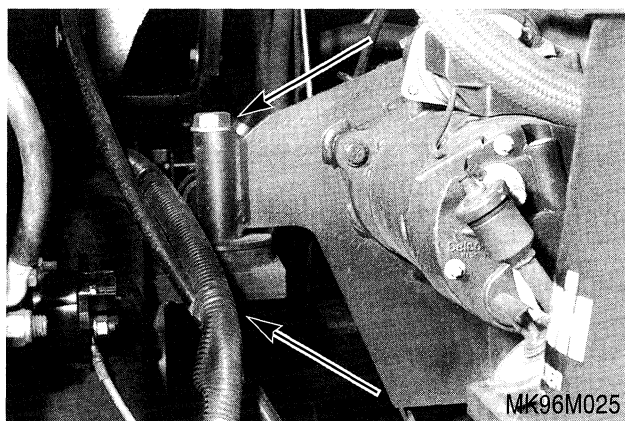


MB96M017

Lift the engine until the oil pan will clear the side frame rails and install the engine into the tractor. Lower the engine onto the motor mounts while guiding the transmission input driveshaft into the engine drive coupler.

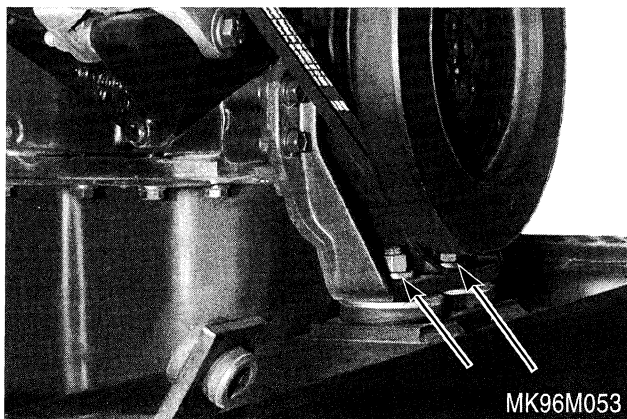
NOTE: Align the upper and lower motor mounts before the full weight of the engine is lowered onto the mounts.

STEP 47



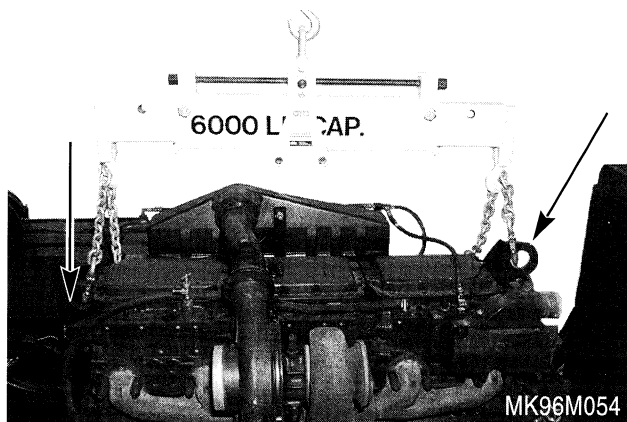
Install the RH and LH rear motor mount bolts, washers and nuts. Do not tighten the bolts.

STEP 48



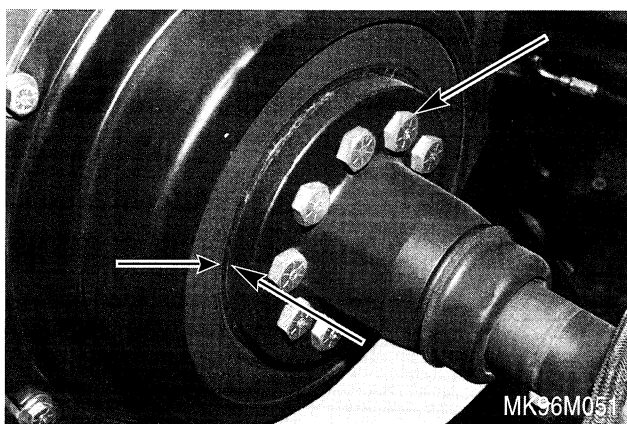
Install the front motor mount bolts, washers and nuts. Tighten the front motor mount bolts to a torque of 167 to 215 lb ft (226 to 291 Nm) and the rear mount bolts to a torque of 300 to 380 lb ft (406 to 515 Nm).

STEP 49



Disconnect the load rotor and hoist from the engine.

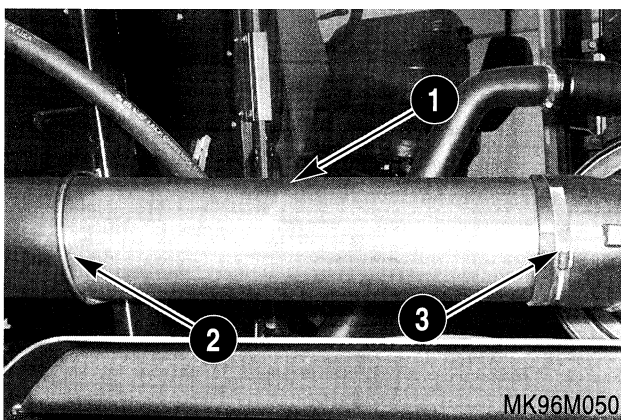
STEP 50



Align the driveshaft and the drive coupler with the marks made before disassembly. Tighten the bolts to a torque of 157 to 173 lb ft (212 to 236 Nm).

IMPORTANT: *The coupler must move freely on the splines of the shaft.*

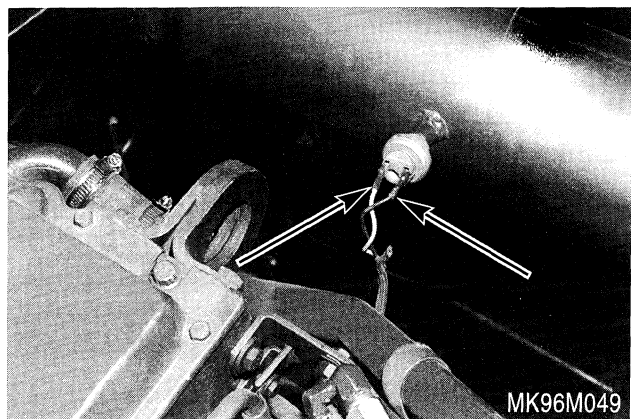
STEP 51



Install the air inlet tube (Ref. 1) the U-clamp (Ref. 2) and clamp (Ref. 3) onto the air cleaner and hood support bracket. Do not tighten the clamp or U-clamp.

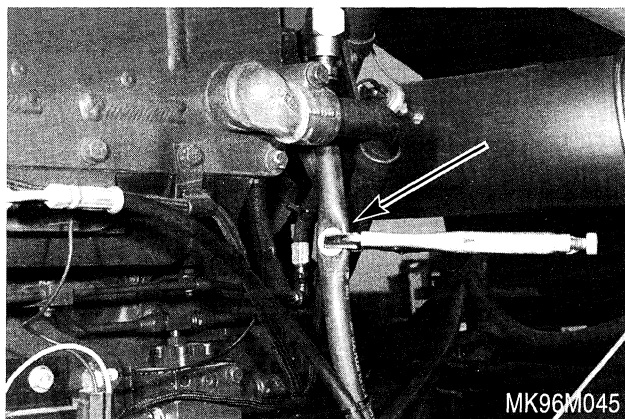
Left Side

STEP 52



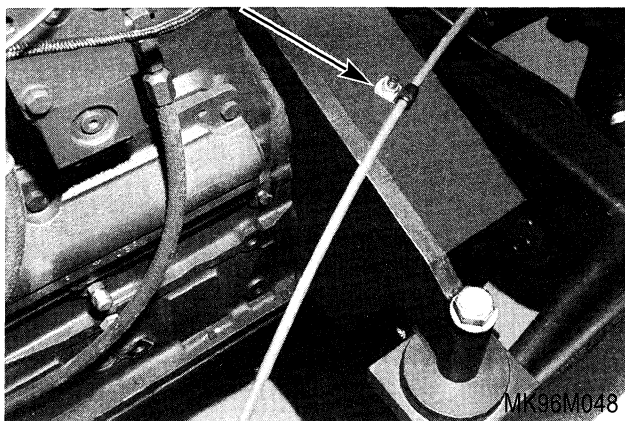
Connect the wires to the air filter restriction indicator switch.

STEP 55



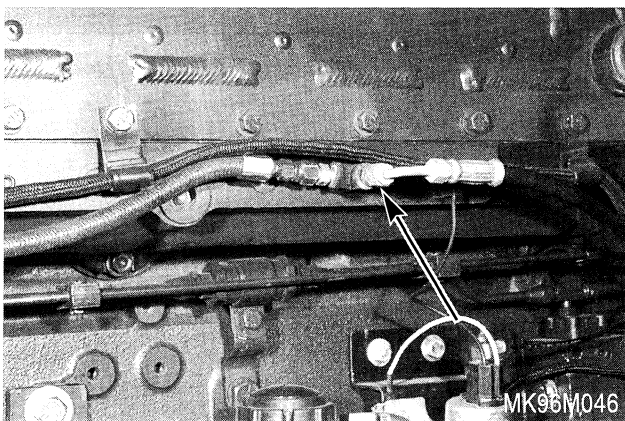
Remove the clamp from the fuel return hose.

STEP 53



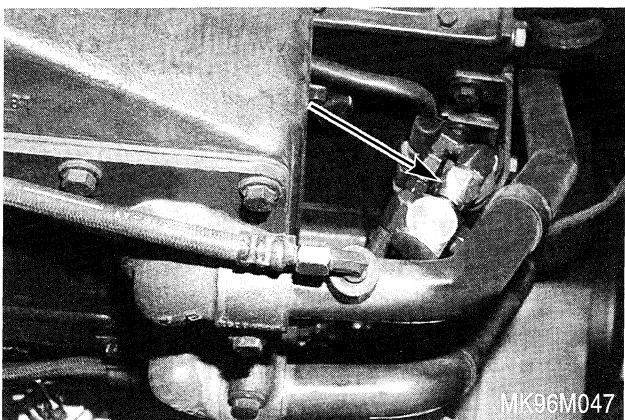
Install the throttle cable clamp on the flywheel guard.

STEP 56



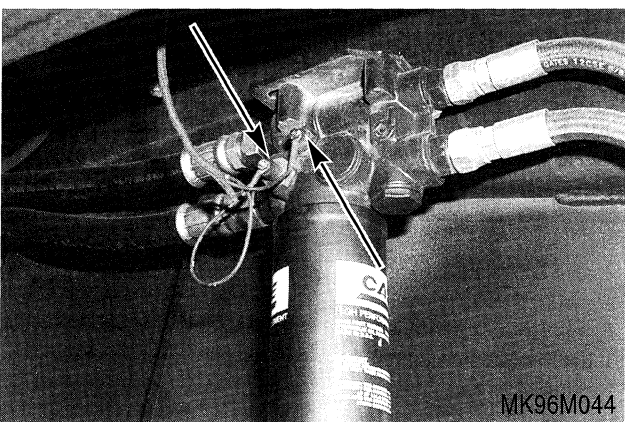
Install the axle cooling turbo boost pressure line on the intake manifold.

STEP 54



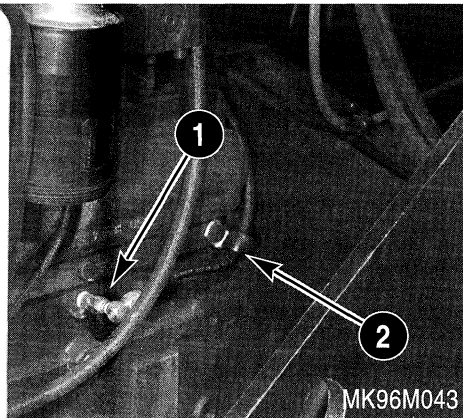
Install the fuel return line.

STEP 57



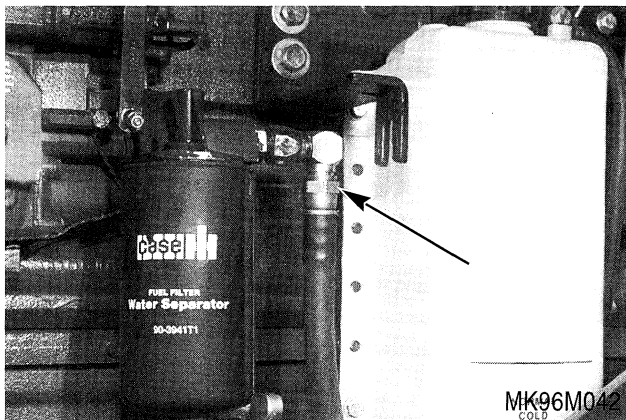
Install the temperature sensor and the restriction indicator wires on the transmission filter head.

STEP 58



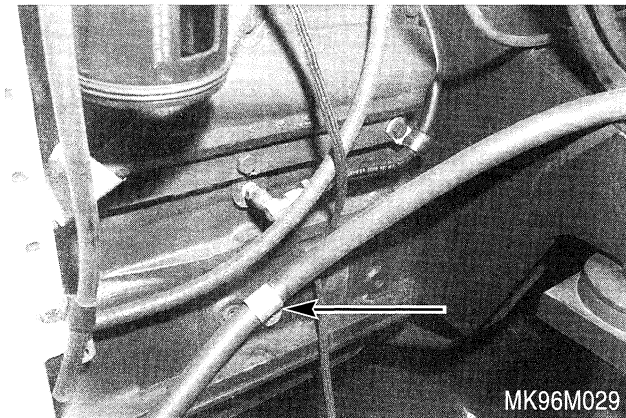
Install the oil pressure hose (Ref. 1) and clamp (Ref. 2).

STEP 59



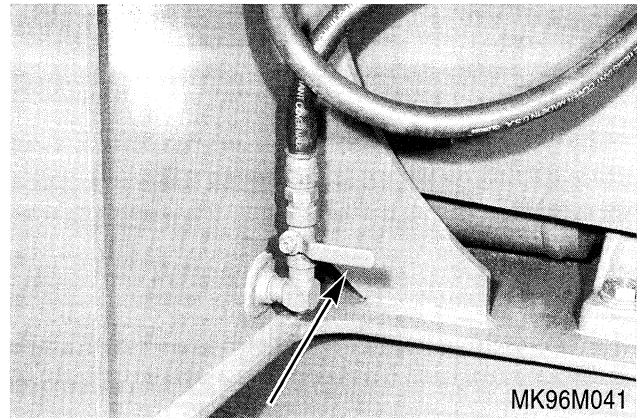
Install the fuel hose onto the fuel filter.

STEP 60



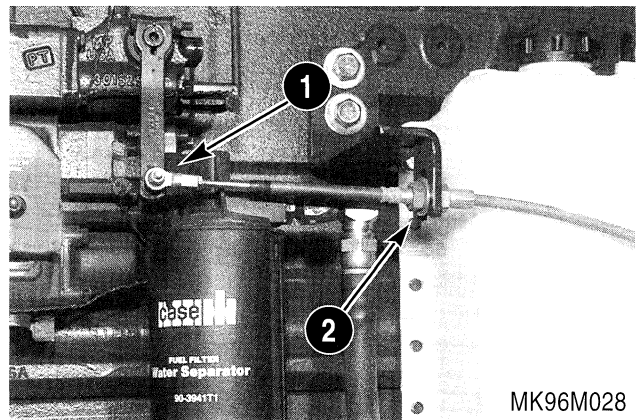
Install the fuel line clamp on the engine.

STEP 61



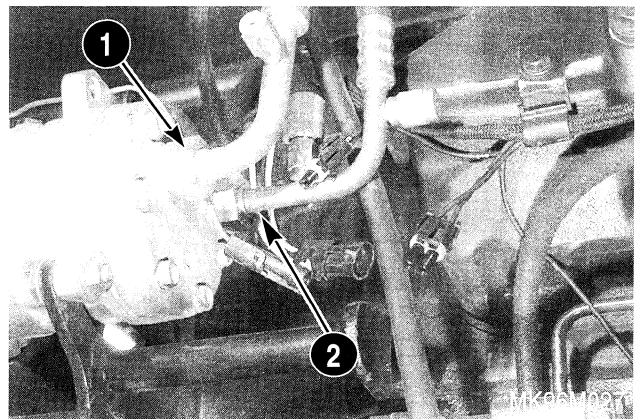
Turn on the fuel supply hose valve.

STEP 62

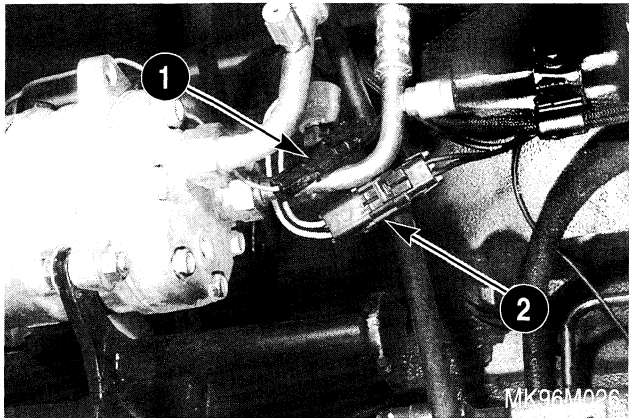


Install the throttle cable on the throttle lever (Ref. 1) and the cable mount (Ref. 2).

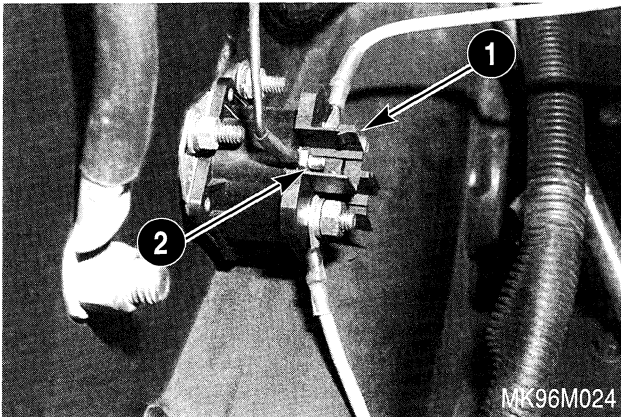
STEP 63



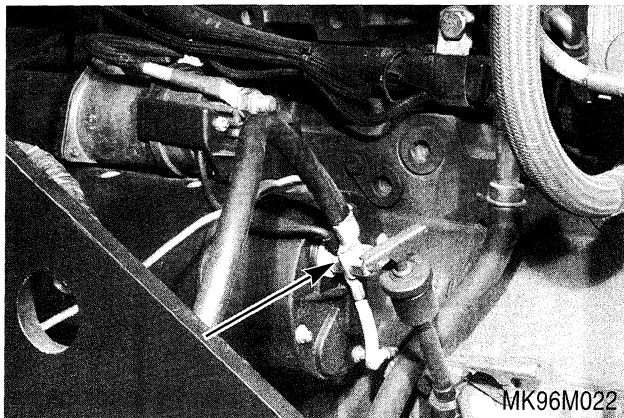
Lubricate the new O-rings with clean refrigerant oil and install on the hose end fittings. Install the suction (Ref. 1) and the discharge (Ref. 2) hoses on the compressor.

STEP 64

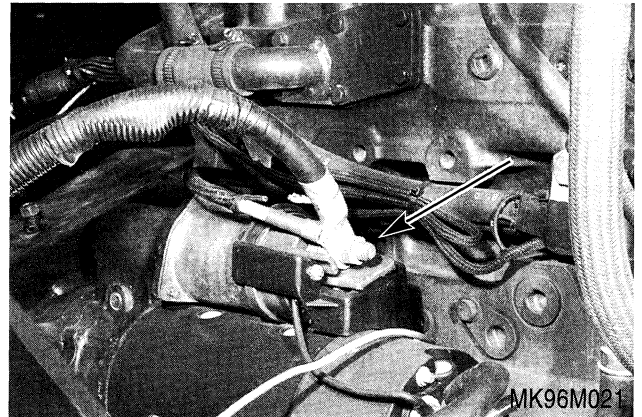
Connect the compressor clutch (Ref. 1) and the low pressure sensor (Ref. 2) wires to the engine wire harness.

Right Side**STEP 65**

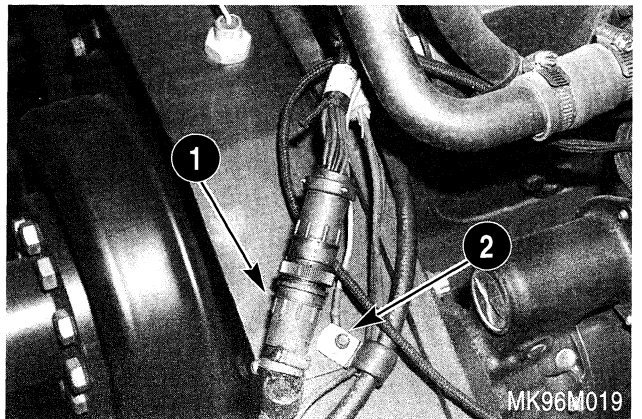
Install the starter solenoid (Ref. 1) and the engine wire harness (Ref. 2) wires onto the magnetic starter switch. Install the switch cover.

STEP 66

Install the negative cable to the starter.

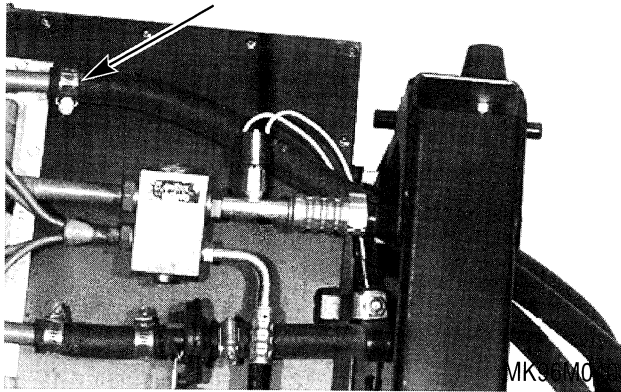
STEP 67

Install the positive battery cable to the starter solenoid.

STEP 68

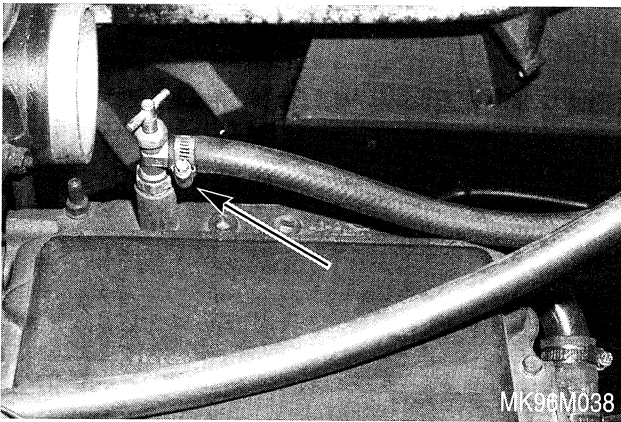
Connect the engine wire harness (Ref. 1) to the front frame wire harness. Install the cable clamp bracket and hose clamp (Ref. 2).

STEP 69



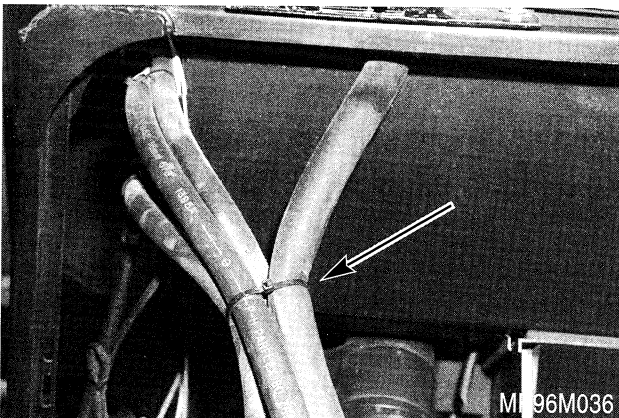
Install the heater return hose on the heater core.

STEP 70



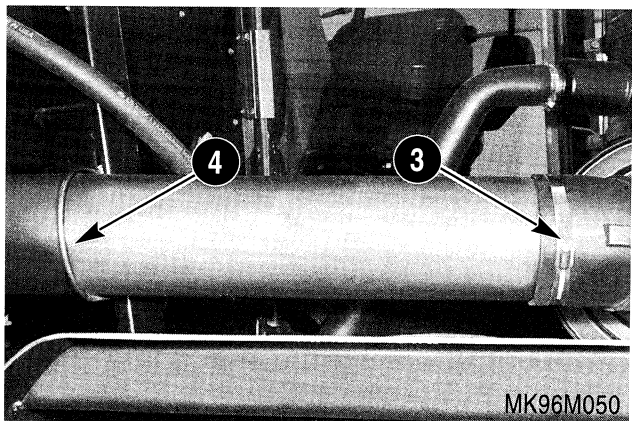
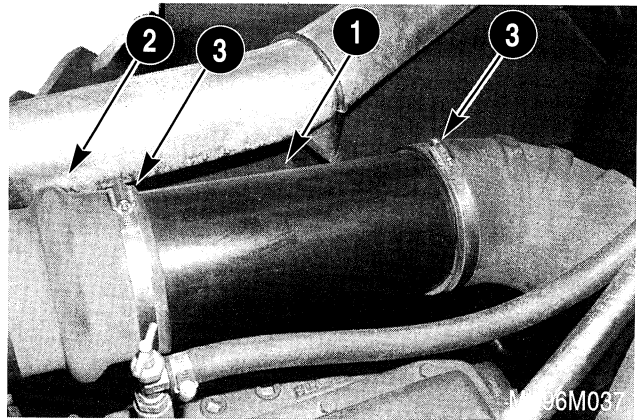
Install the heater hose on the shutoff valve.

STEP 71



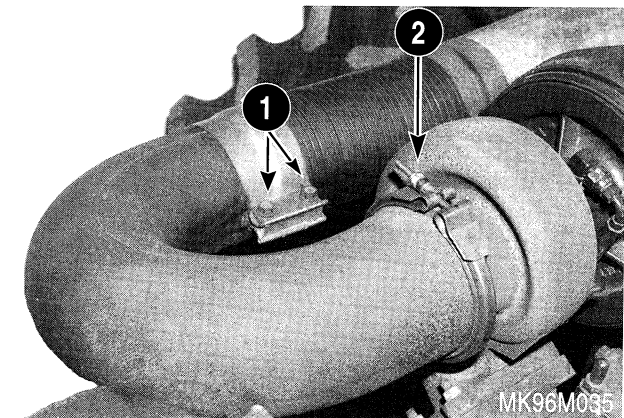
Install a cable tie around the hoses in front of the HVAC box.

STEP 72

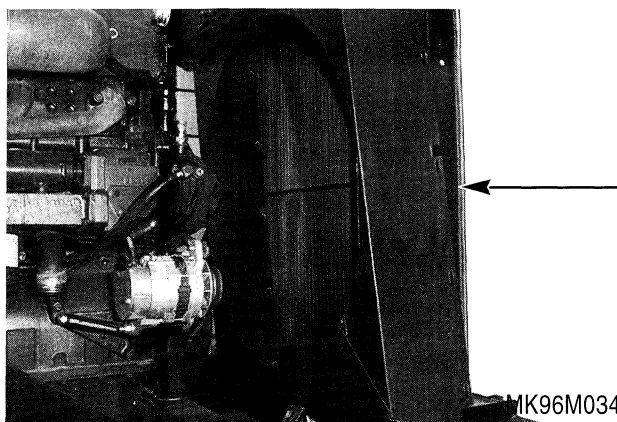


Install the turbo inlet tube (Ref. 1) and the flex connector (Ref. 2). Tighten all the inlet clamps (Ref. 3) to a torque of 77 to 93 lb inch (9 to 11 Nm). Tighten the U-clamp (Ref. 4) to a torque of 9 to 10 lb ft (12 to 14 Nm).

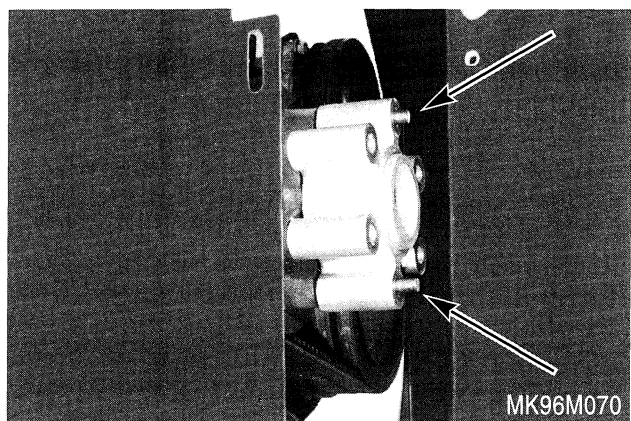
STEP 73



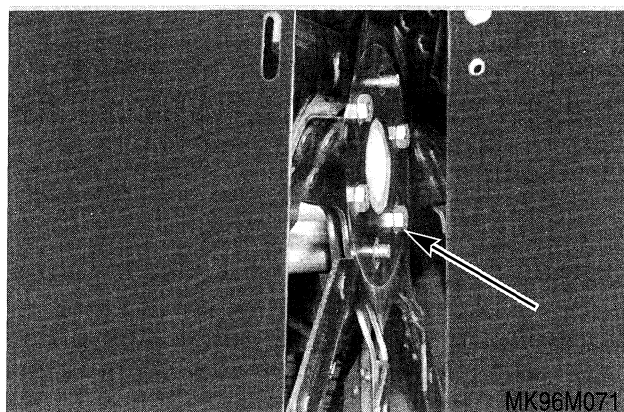
Install the exhaust pipe elbow between the turbo outlet and the exhaust pipe. Tighten the band clamp (Ref. 1) to a torque of 34 to 38 lb ft (46 to 52 Nm) and the elbow to turbo clamp (Ref. 2) to a torque of 75 lb inch (8 Nm).

STEP 74

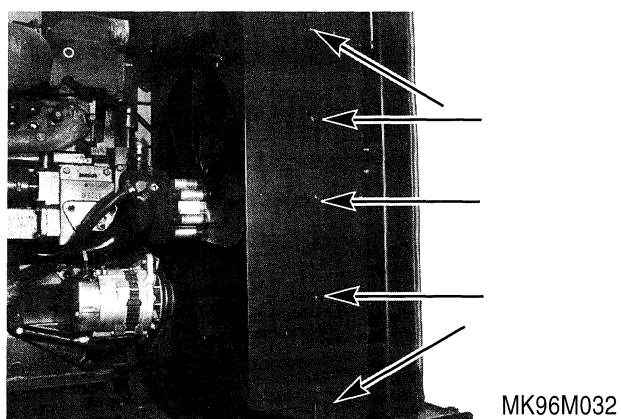
Install the fan shroud into the tractor. Place the shroud against the frame crossmember.

STEP 75

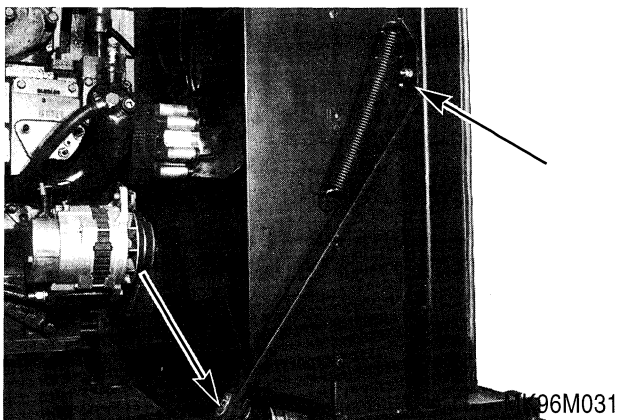
Install two pilot studs into the fan mounting flange and install the fan spacer on the studs.

STEP 76

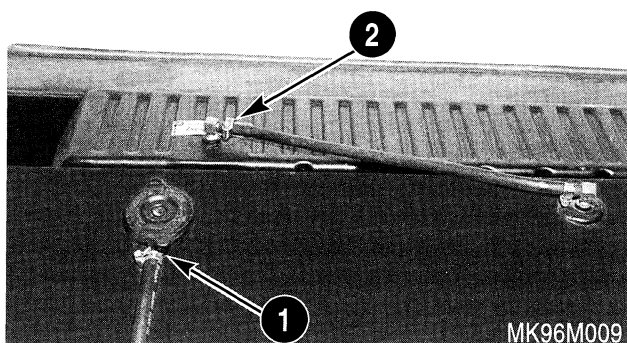
Install the fan on the spacer and install four of the mounting bolts. Remove the pilot studs and install the last two mounting bolts. Tighten the mounting bolts to a torque of 70 to 80 lb ft (95 to 108 Nm).

STEP 77

Move the fan shroud forward and install the five right side and left side mounting bolts. Tighten the bolts to a torque of 12 to 14 lb ft (16 to 19 Nm).

STEP 78

Install the radiator mount brace. Tighten the mounting bolts to a torque of 70 to 80 lb ft (95 to 108 Nm).

STEP 79

Install the coolant recovery hose (Ref. 1) onto the radiator fill tank. Install the de-airation hose (Ref. 2) between the radiator fill tank and the radiator. Tighten the clamps.



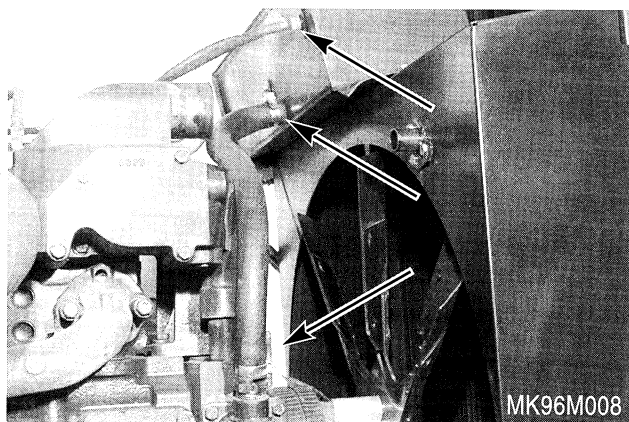
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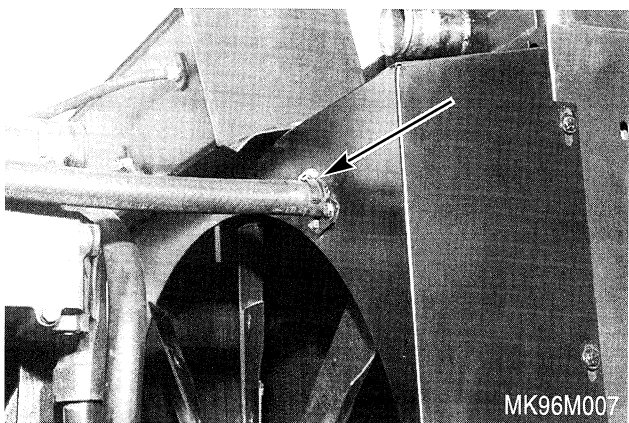
Thank you so much for reading

STEP 80



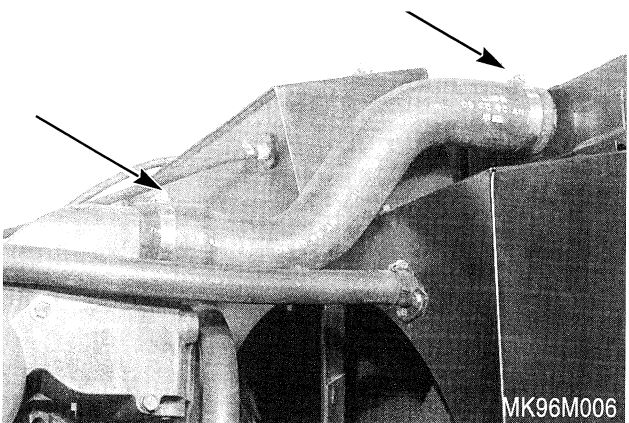
Install the air bleed hose and shunt hose between the engine and the radiator fill tank.

STEP 81



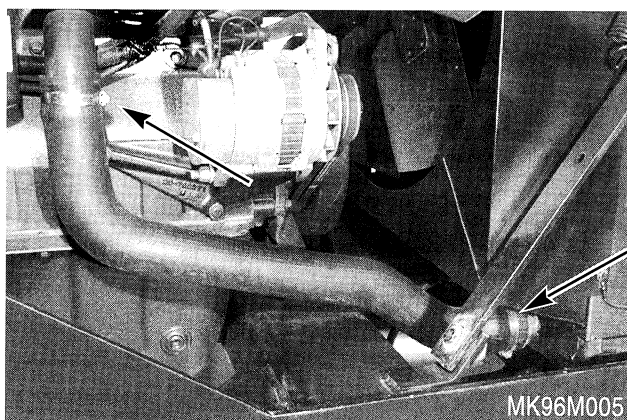
Install the HVAC aspirator hose onto the fan shroud.

STEP 82



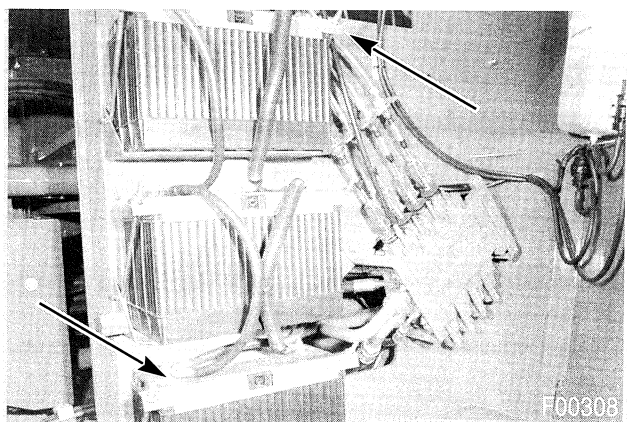
Install the upper radiator hose on the engine and the radiator.

STEP 83



Install the lower radiator hose on the radiator and the engine.

STEP 84



Open the battery access door. Connect the positive and the negative battery cables.

NOTE: Always connect the positive cable first and the negative cable last.

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