

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

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BURLINGTON, ON L7N 3M6 CANADA

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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			
	Inches	mm		FOOT POUNDS		NEWTON METERS		FOOT POUNDS		NEWTON METERS	
				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.

POWER TAKEOFF (if Equipped)

Type Live Independent System Integral with Transmission
 Clutch Type Modulateable, Hydraulic
 Control Hand Lever Actuated
 Rotation (from rear of tractor) Clockwise
 Shaft Size 1.75 Inch Diameter, 20 Splines
 Speed 1000 RPM at 2100 Engine RPM

HYDRAULIC SYSTEM

Type Closed Center, Load Sensing, Pressure Compensating
 Steering Full Priority System
 Remote Valve Closed Center, Stack Type with float position and flow control
 Pump Capacity (2100 RPM)
 Implement Pump - Powershift 27 GPM (102.2 L/min)
 SynchroShift 30 GPM (113.6 L/min)
 Steering Pump - PowerShift 31 GPM (117.3 L/min)
 SynchroShift 34 GPM (128.7 L/min)
 Maximum System Pressure 2900 PSI (197 Bar)
 Couplings ISO Standard Lever Type

HITCH SYSTEM (9370)

Type Hitch Three Point, Category IV-N
 Hitch Coupler (Adjustable) Category III or IVN
 Hitch Control Hand Lever Actuated, Electronic Control System
 Hitch Valve 3-Position, Lift, Hold and Lower
 Type Draft Arms Rigid, Swing Type with Manual Float Adjustment
 Lift Capacity (OECD static) 17 000 lb (7 711 Kg)
 24 inch (610 mm) back

DIESEL ENGINE**P.I.N. JEE0036000 AND BEFORE**

Engine Make Cummins
 Model NTA-855-A
 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 (1356 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 14.0:1
 9380 15.0:1
 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)

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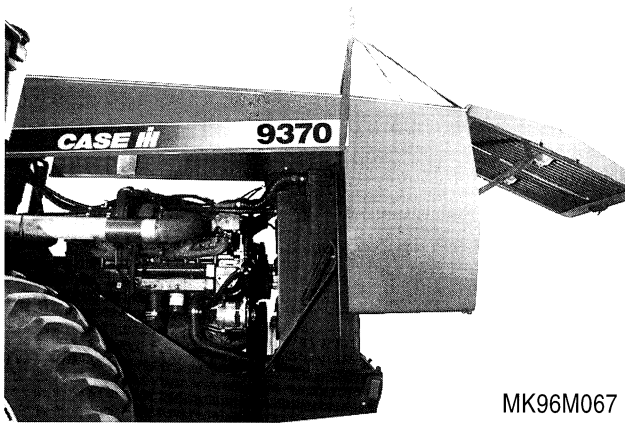
CASE CANADA CORPORATION
450 Sherman Avenue
Hamilton, ON L8N 4C4 CANADA

Rac 8-83900

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November, 1996

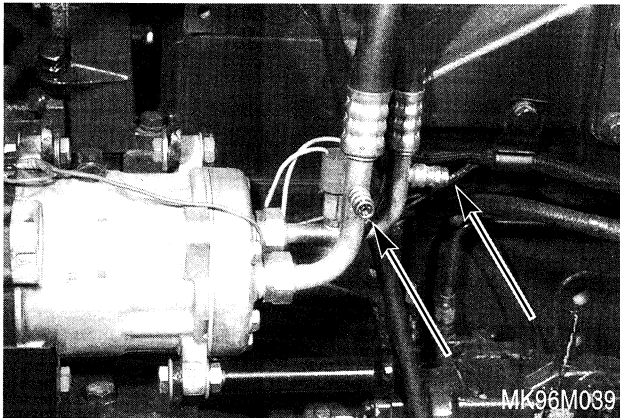
ENGINE REMOVAL

STEP 1



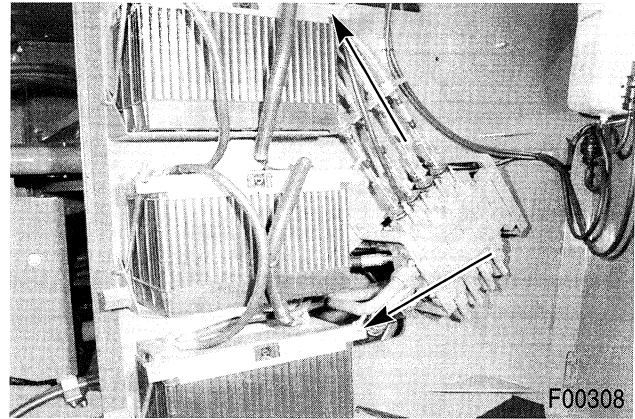
Remove the key from the switch. See Section 9005 in this manual for instructions to remove the hood and grille.

STEP 2



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

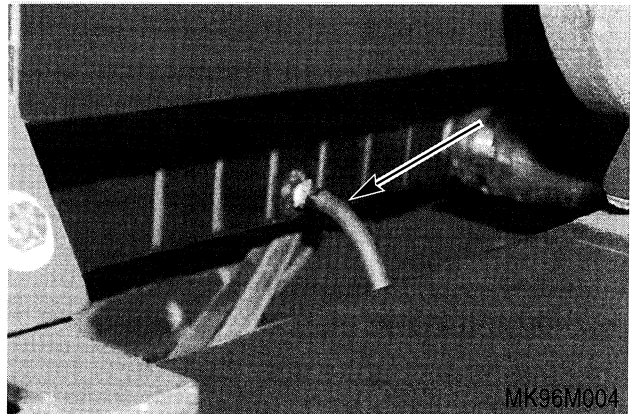
STEP 3



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.

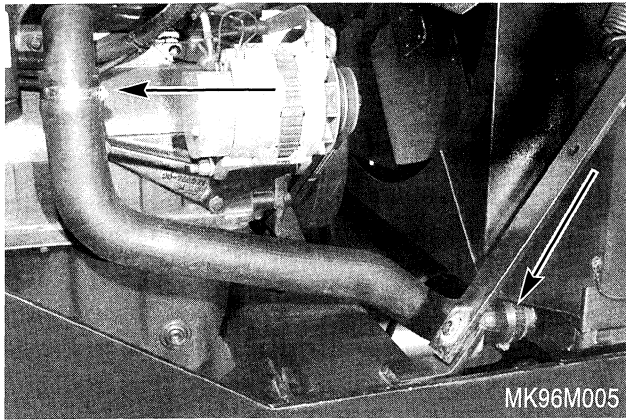
STEP 4



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

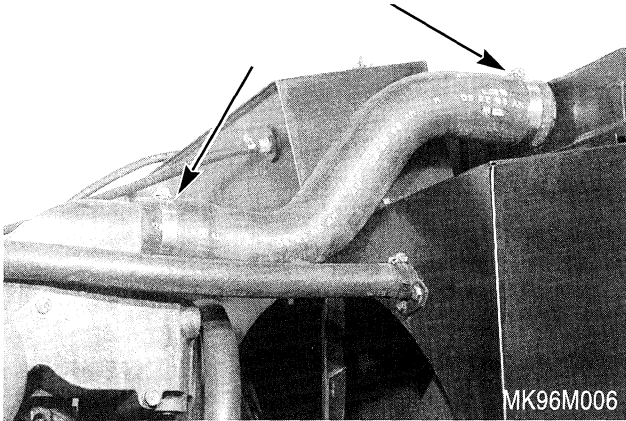
NOTE: The cooling system holds approximately 15 gallons (57 Liters) of coolant.

STEP 5



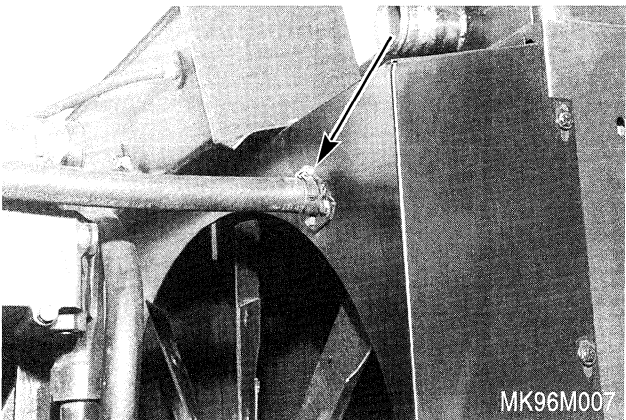
Place a catch pan under the lower radiator hose. Loosen the hose clamps and carefully remove the hose from the engine and radiator.

STEP 6



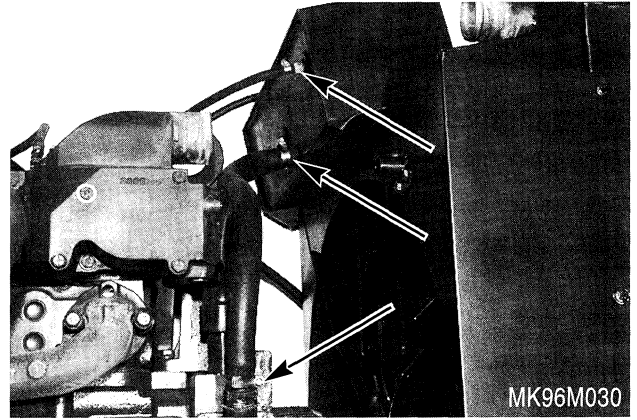
Remove the upper radiator hose from the engine and the radiator.

STEP 7



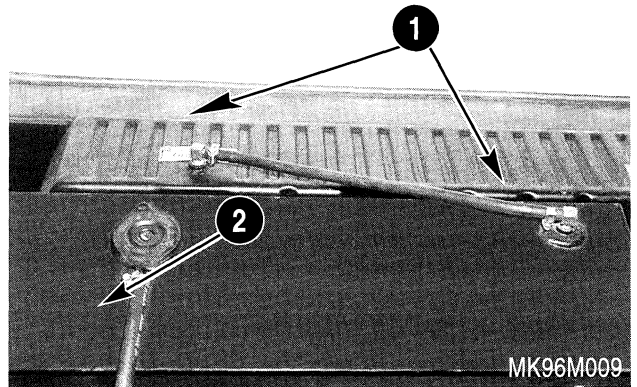
Remove the HVAC aspirator hose from the fan shroud.

STEP 8



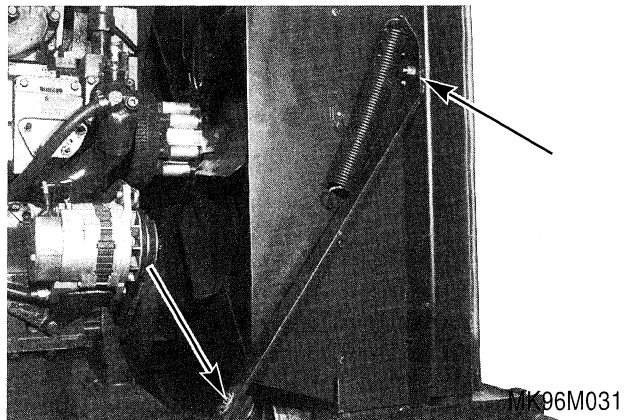
Remove the engine air bleed and shunt hose from the engine and the radiator fill tank.

STEP 9



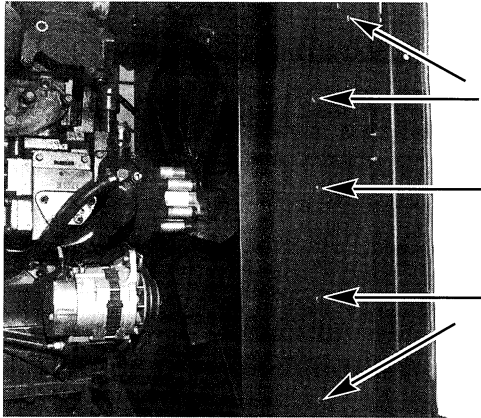
Remove the de-airiation hose (Ref. 1) between the radiator fill tank and the radiator. Remove the coolant recovery hose (Ref. 2) from the radiator fill tank.

STEP 10

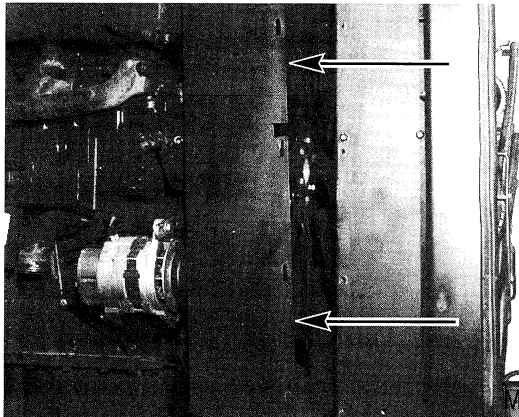


Remove a radiator mounting brace from one side of the front frame.

STEP 11



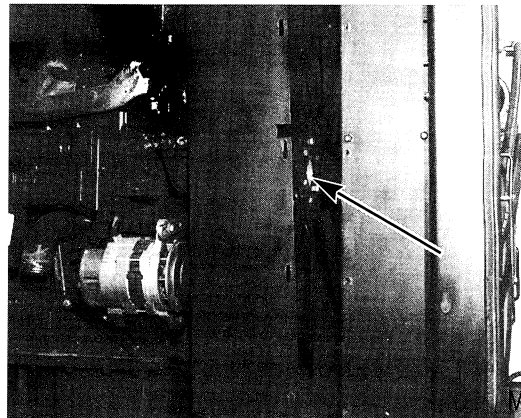
MK96M032



MK96M033

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

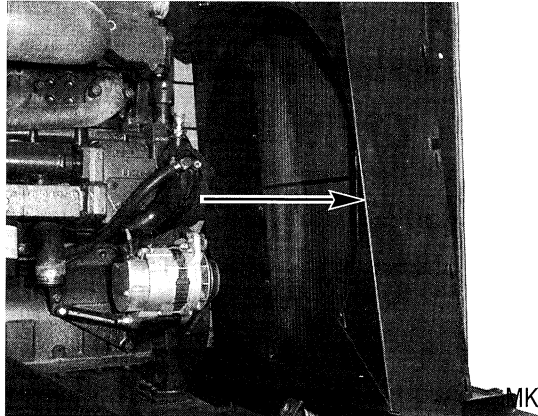
STEP 12



MK96M033

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

STEP 13

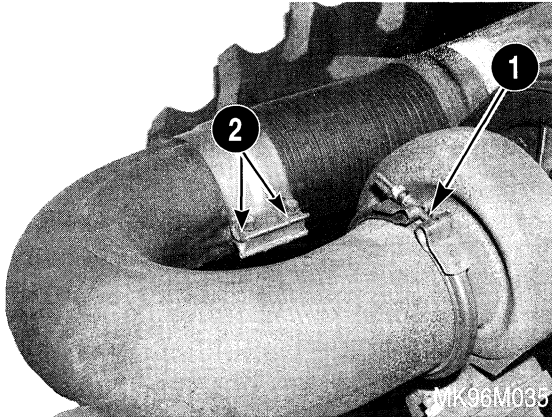


MK96M034

Remove the fan shroud from the tractor.

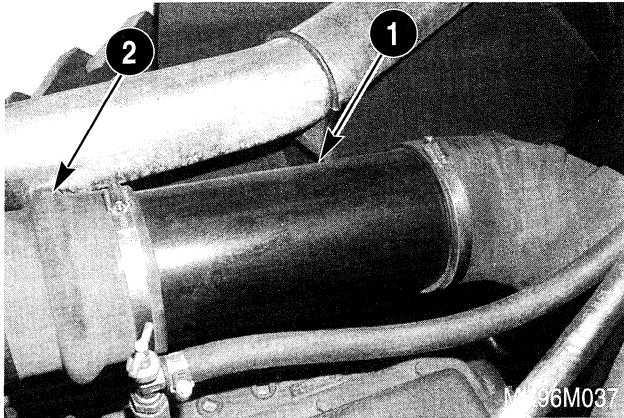
Right Side

STEP 14



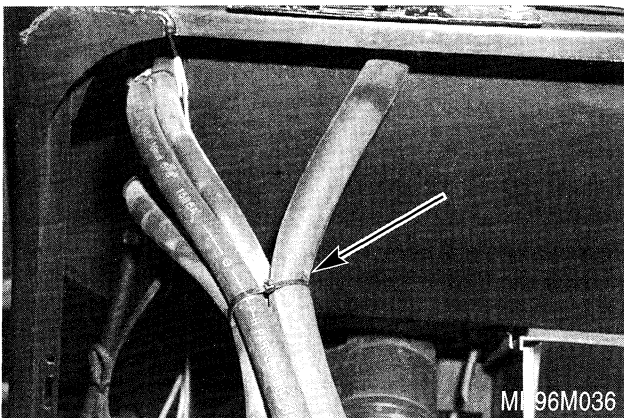
Remove the exhaust pipe clamp (Ref. 1) and loosen the band clamp (Ref. 2). Remove the exhaust pipe elbow.

STEP 15



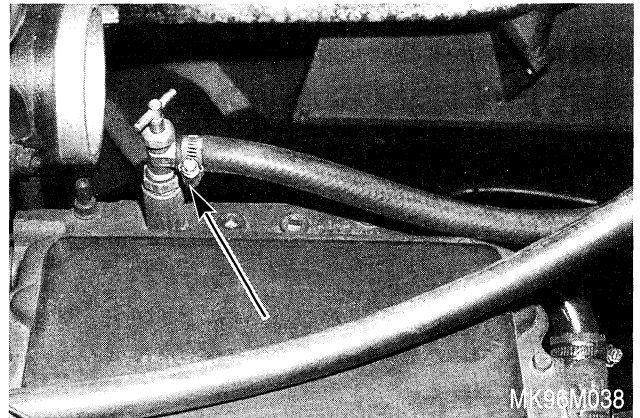
Loosen the clamps. Remove the turbo inlet tube (Ref. 1) and the flex connector (Ref. 2).

STEP 16



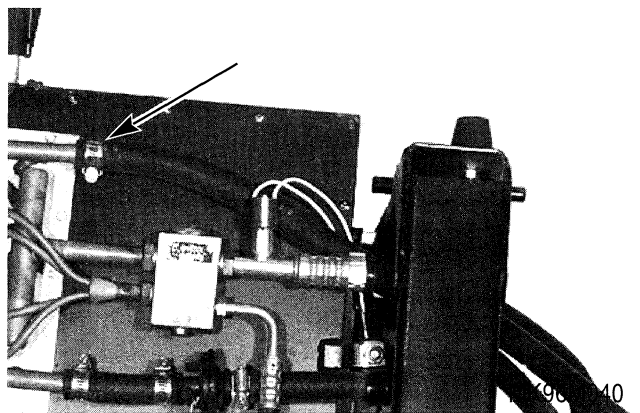
Remove the cable tie from the hoses in front of the HVAC box.

STEP 17



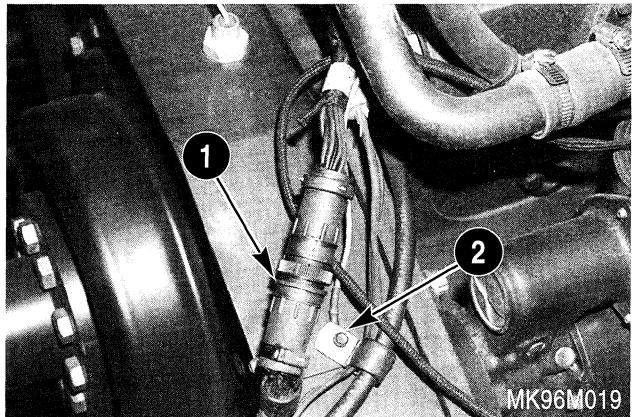
Remove the heater hose from the shut off valve.

STEP 18



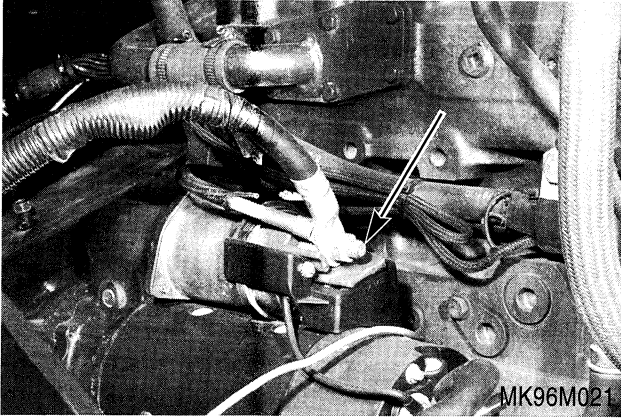
Remove the heater return hose from the heater core.

STEP 19



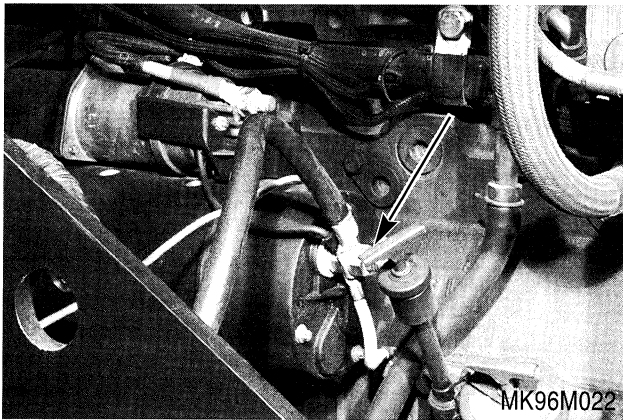
Disconnect the engine wire harness (Ref. 1) and remove the cable clamp bracket (Ref. 2).

STEP 20



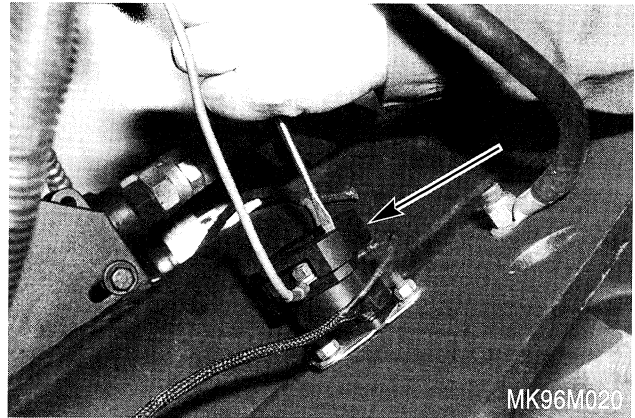
Remove the positive battery cable from the starter solenoid.

STEP 21

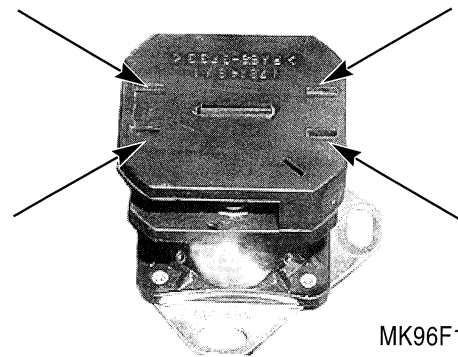


Remove the negative cable from the starter.

STEP 22

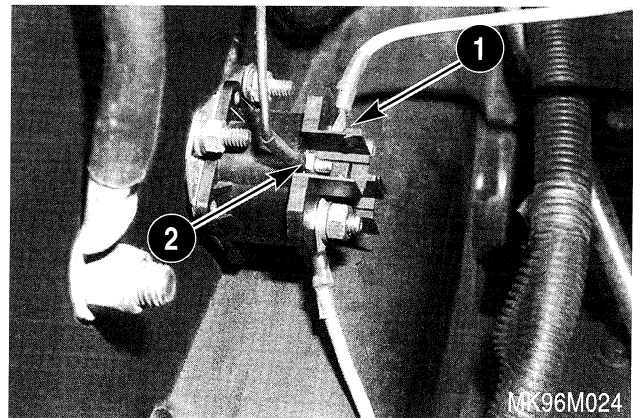


Remove the cover from the magnetic starter switch.



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

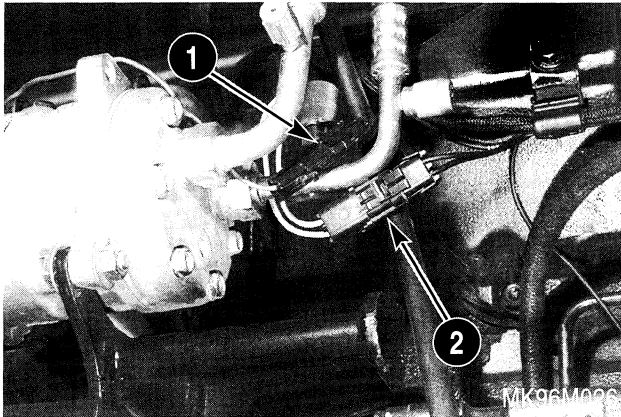
STEP 23



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

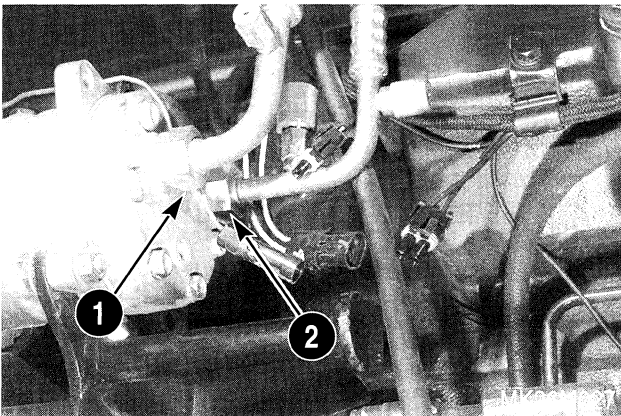
Left Side

STEP 24



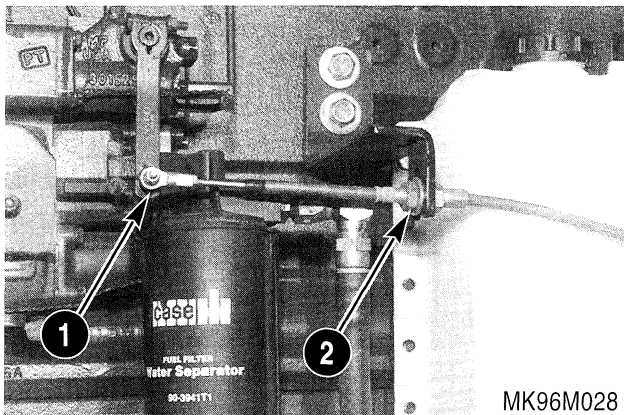
Disconnect the compressor clutch wire (Ref. 1) and the low pressure switch wires (Ref. 2) from the engine wire harness.

STEP 25



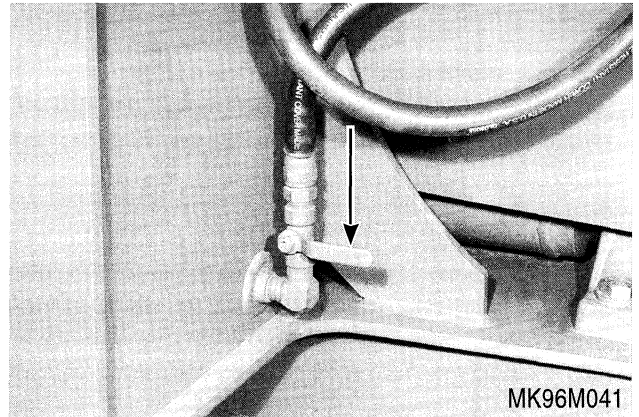
Remove the suction (Ref. 1) and the discharge (Ref. 2) hoses from the compressor. Install caps on the compressor and plugs in the hose ends. Discard the O-rings.

STEP 26



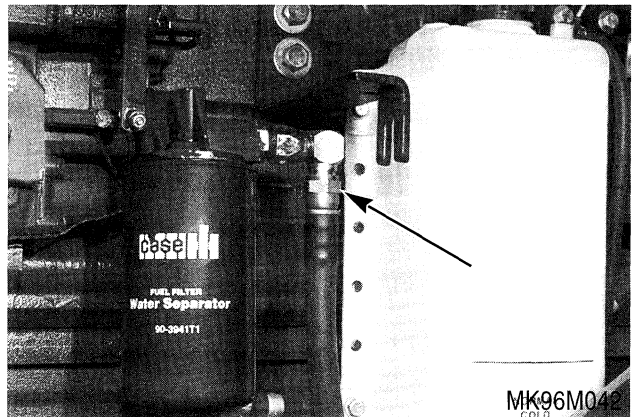
Remove the throttle cable from the fuel pump throttle lever (Ref. 1) and the mounting bracket (Ref. 2).

STEP 27



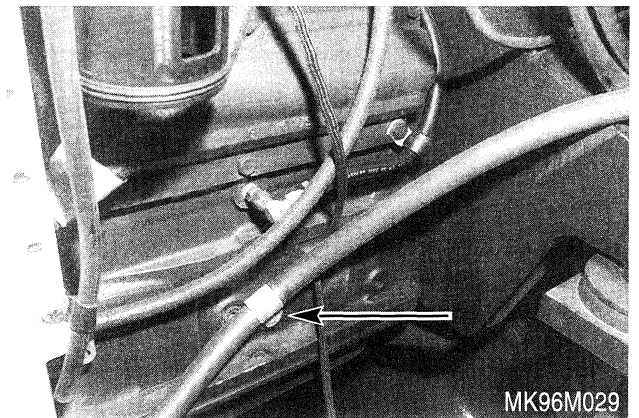
Shut off the fuel supply hose valve.

STEP 28



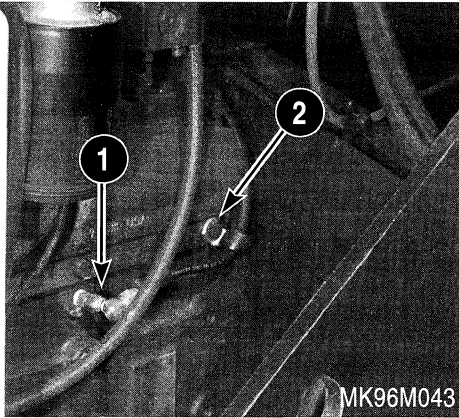
Remove the fuel hose from the fuel filter. Install a cap on the fitting and a plug in the hose end.

STEP 29



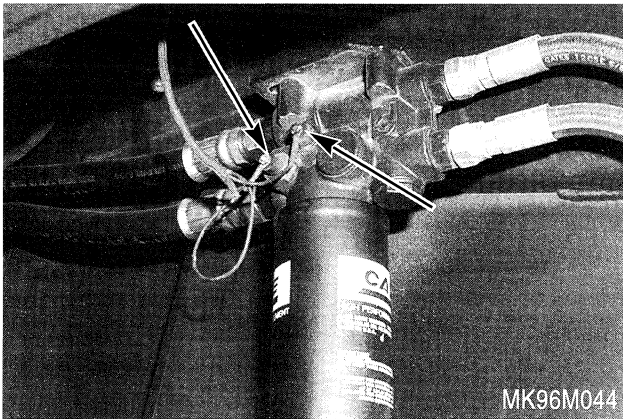
Remove the fuel hose clamp from the engine.

STEP 30



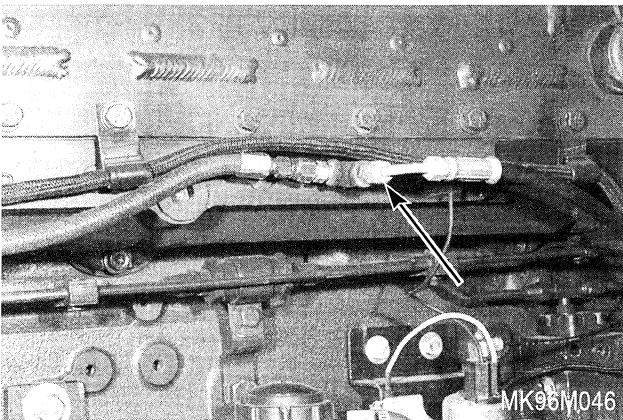
Remove the oil pressure hose (Ref. 1) and clamp (Ref. 2) from the engine. Install a cap on the fitting and a plug in the hose end.

STEP 31



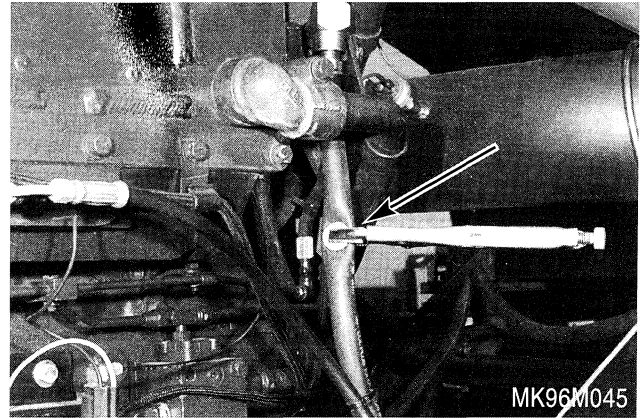
Remove the temperature and the restriction indicator switch wires from the transmission filter head.

STEP 32



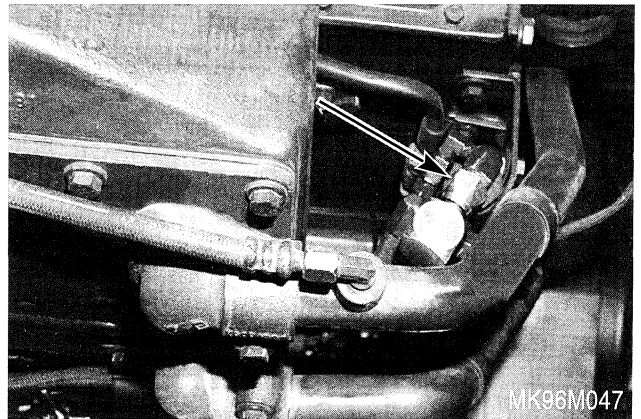
Remove the axle cooling turbo boost pressure line from the intake manifold.

STEP 33



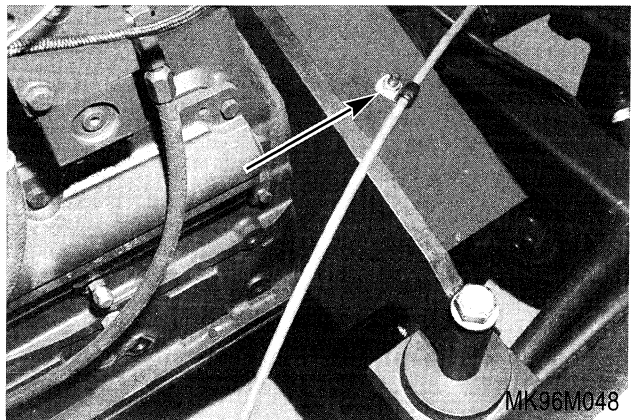
Install a clamp on the fuel return line. Do not tighten the clamp more than necessary to stop the fuel flow or the fuel return line may be damaged.

STEP 34

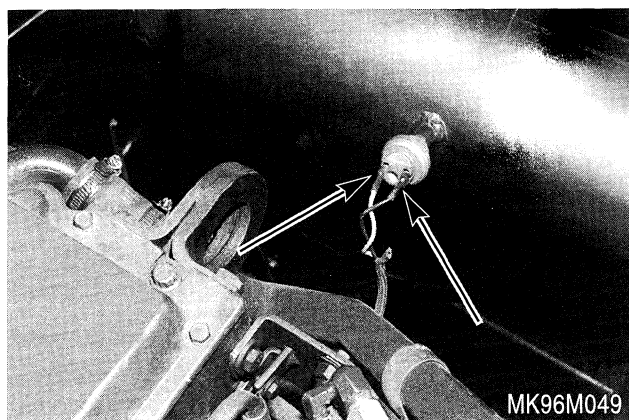


Remove the fuel return line. Install a cap on the fitting and a plug in the hose end.

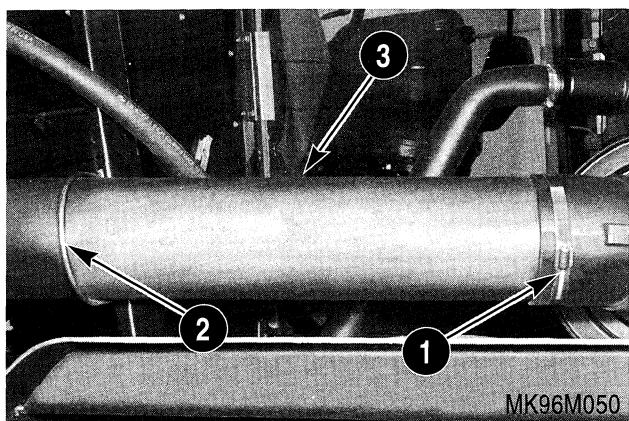
STEP 35



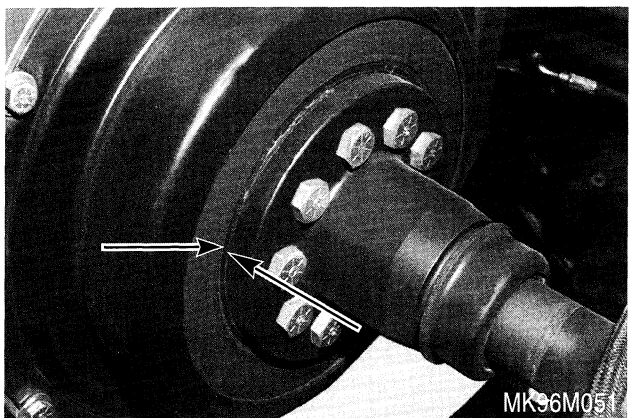
Remove the throttle cable clamp from the flywheel guard.

STEP 36

Remove the wires from the air filter restriction indicator switch.

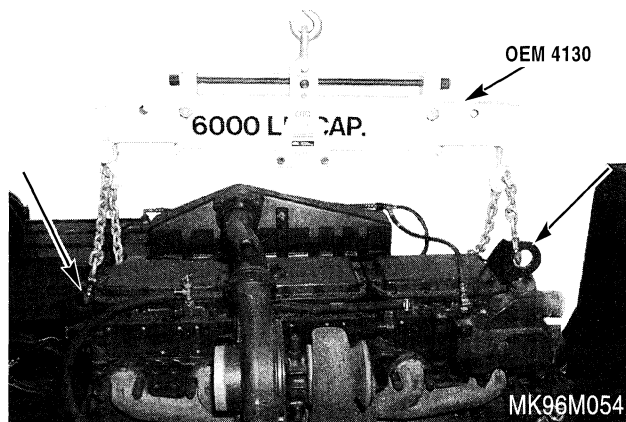
STEP 37

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

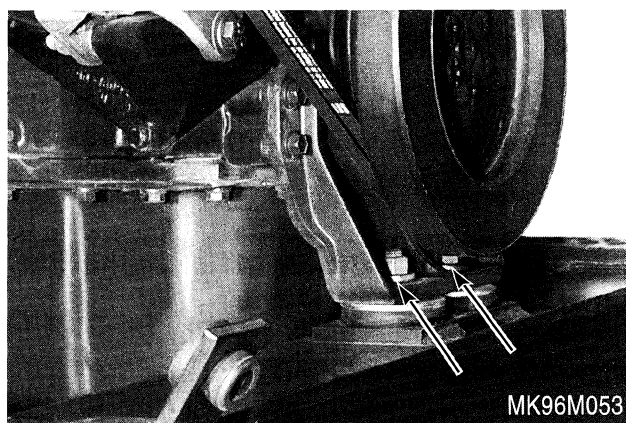
STEP 38

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.*

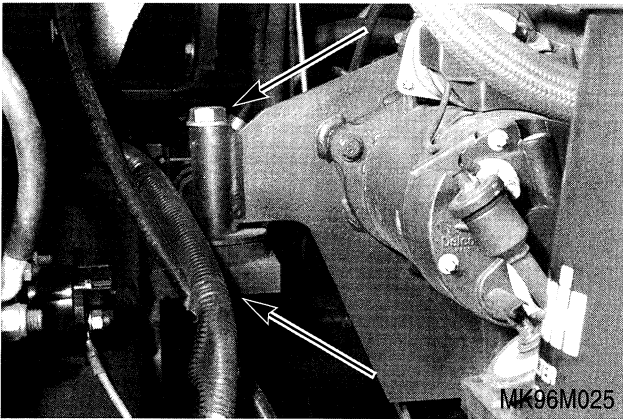
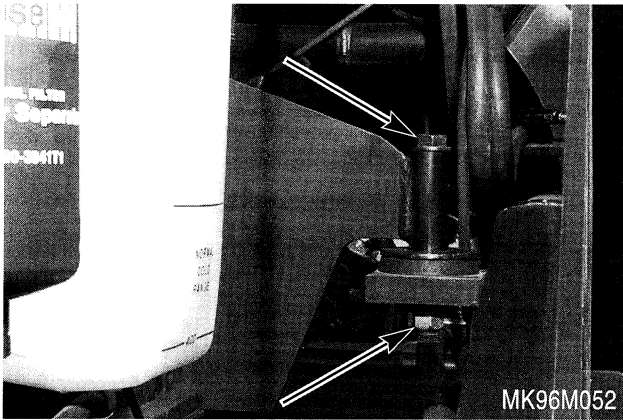
STEP 39

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

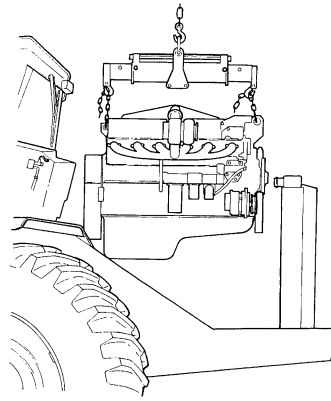
Remove the front motor mount bolts, nuts and washers.

STEP 41



Remove the LH and RH rear motor mounts.

STEP 42

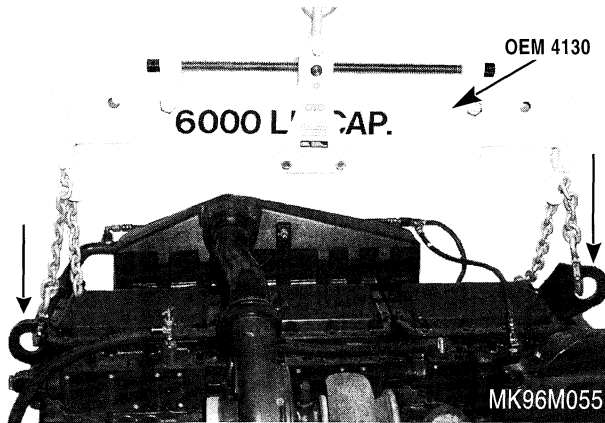


MB96M017

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.

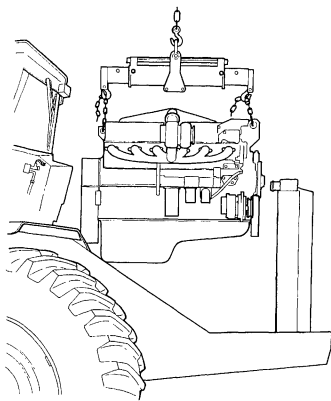
ENGINE INSTALLATION

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

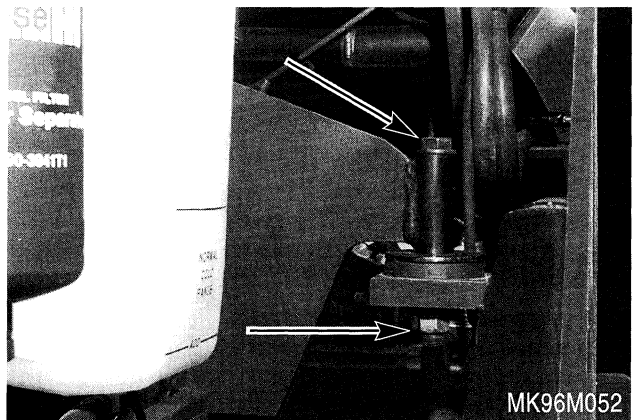
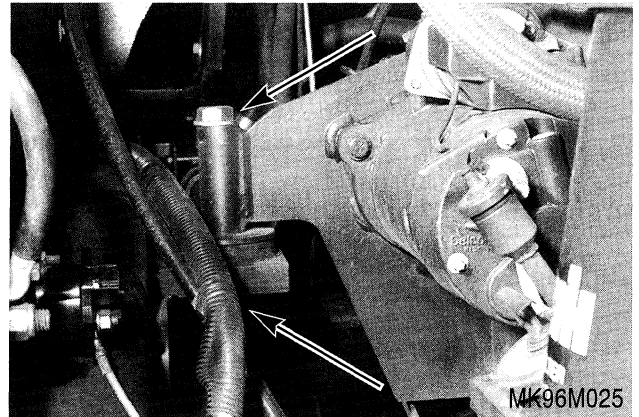


MB96M017

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.

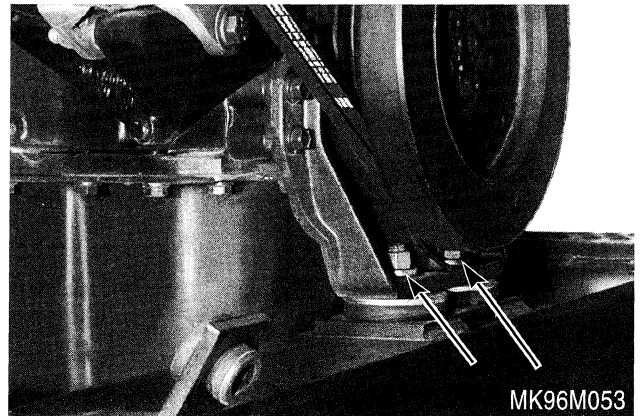
NOTE: Align the upper and lower motor mounts before the full weight of the engine is lowered onto the mounts.

STEP 47



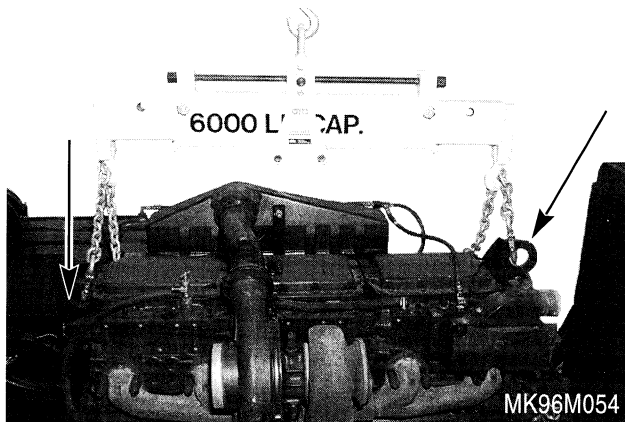
Install the RH and LH rear motor mount bolts, washers and nuts. Do not tighten the bolts.

STEP 48



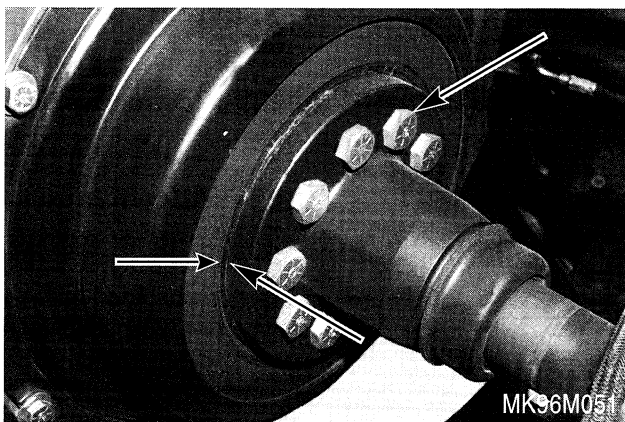
Install the front motor mount bolts, washers and nuts. Tighten the front motor mount bolts to a torque of 167 to 215 lb ft (226 to 291 Nm) and the rear mount bolts to a torque of 300 to 380 lb ft (406 to 515 Nm).

STEP 49



Disconnect the load rotor and hoist from the engine.

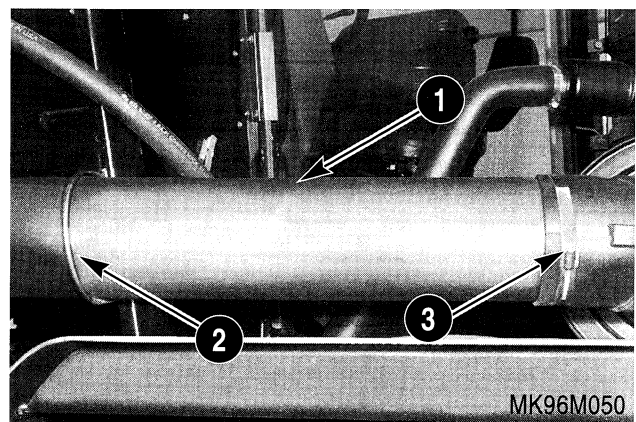
STEP 50



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.*

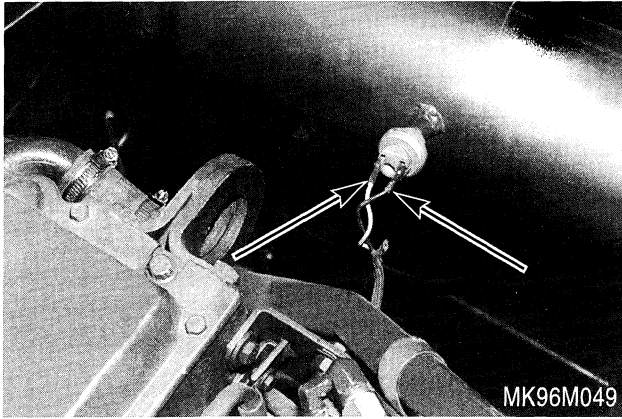
STEP 51



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.

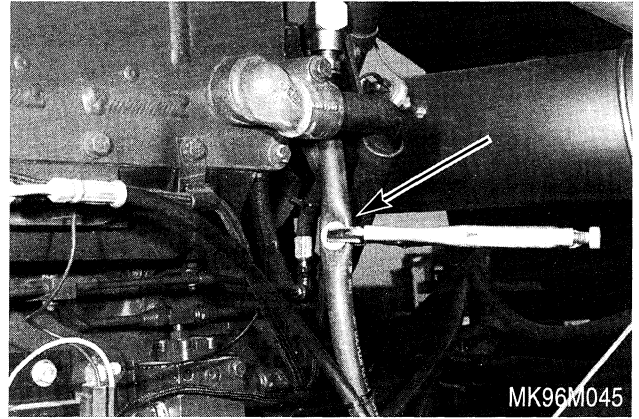
Left Side

STEP 52



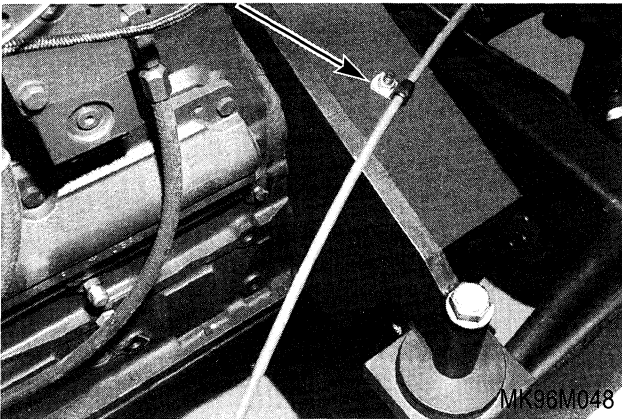
Connect the wires to the air filter restriction indicator switch.

STEP 55



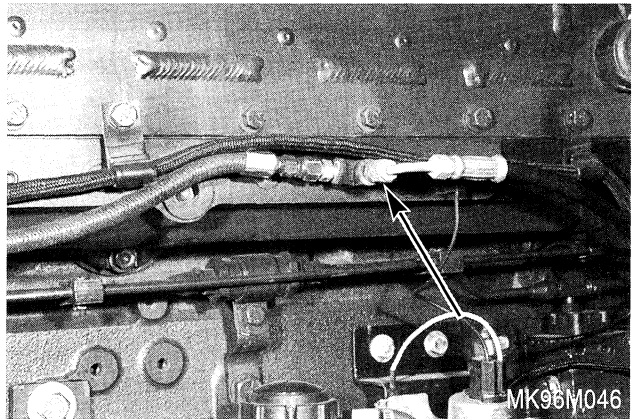
Remove the clamp from the fuel return hose.

STEP 53



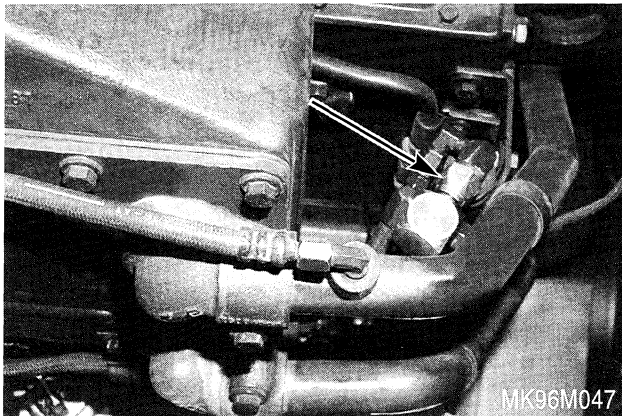
Install the throttle cable clamp on the flywheel guard.

STEP 56



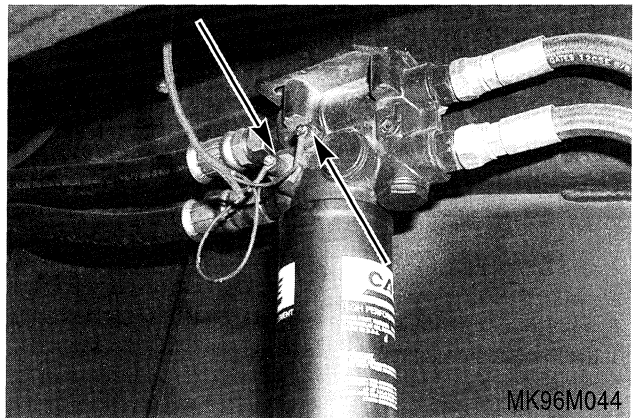
Install the axle cooling turbo boost pressure line on the intake manifold.

STEP 54



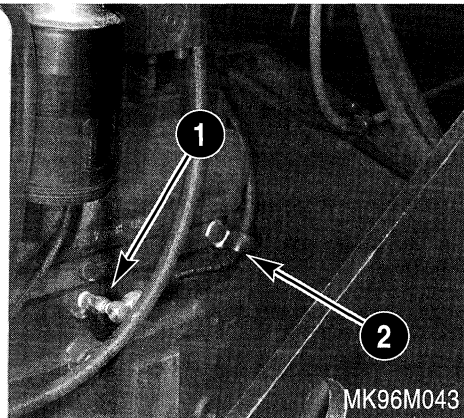
Install the fuel return line.

STEP 57



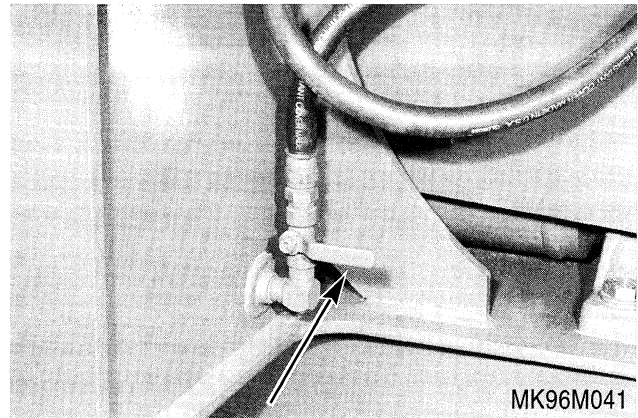
Install the temperature sensor and the restriction indicator wires on the transmission filter head.

STEP 58



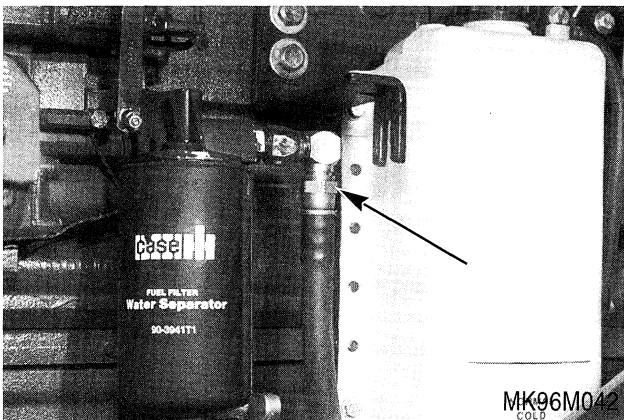
Install the oil pressure hose (Ref. 1) and clamp (Ref. 2).

STEP 61



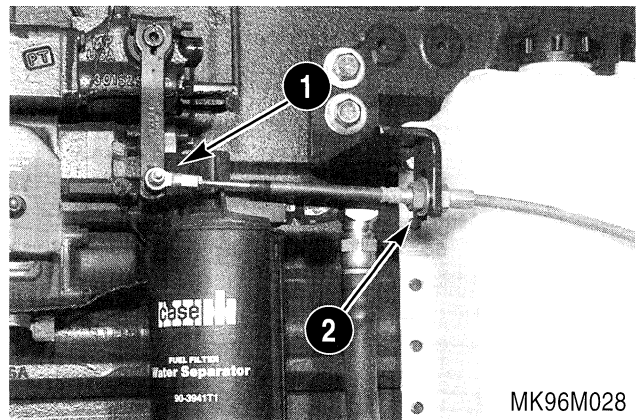
Turn on the fuel supply hose valve.

STEP 59



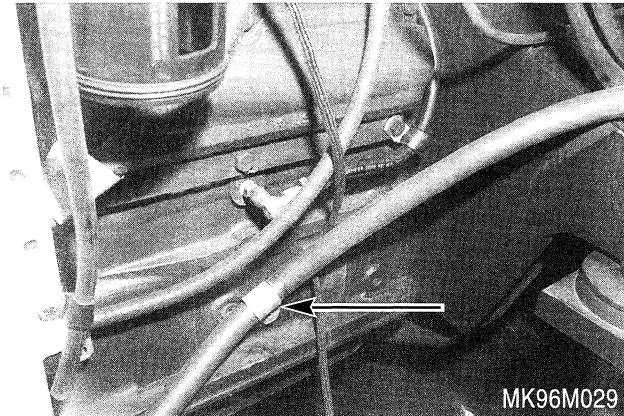
Install the fuel hose onto the fuel filter.

STEP 62



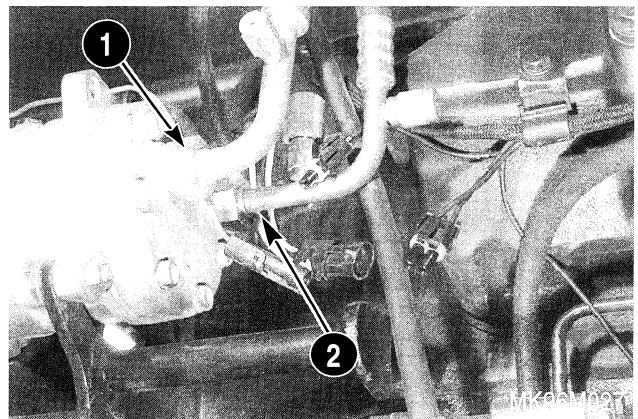
Install the throttle cable on the throttle lever (Ref. 1) and the cable mount (Ref. 2).

STEP 60



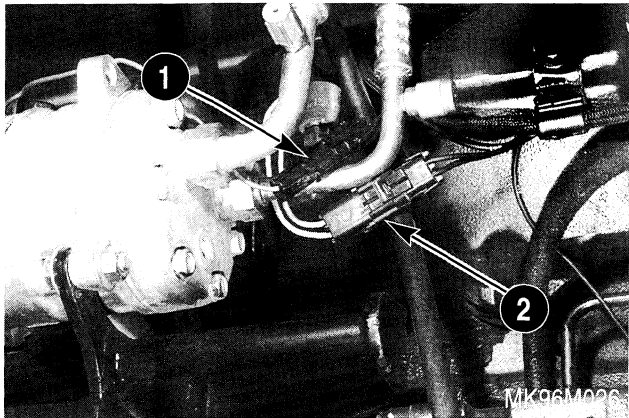
Install the fuel line clamp on the engine.

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.

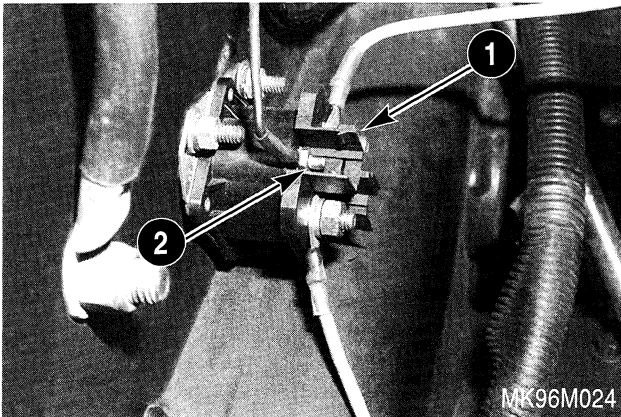
STEP 64



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

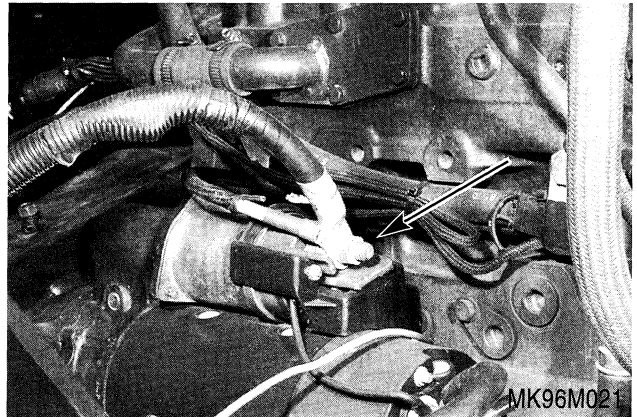
Right Side

STEP 65



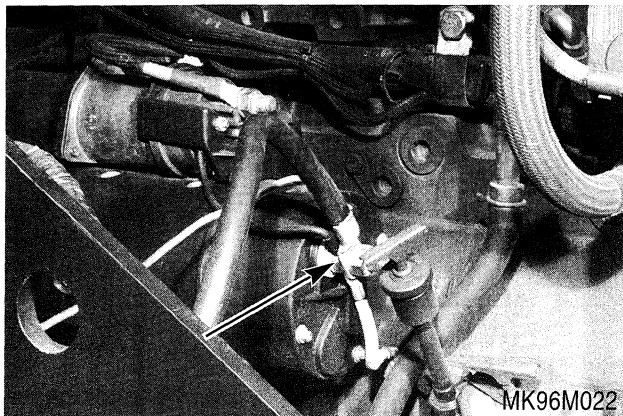
Install the starter solenoid (Ref. 1) and the engine wire harness (Ref. 2) wires onto the magnetic starter switch. Install the switch cover.

STEP 67



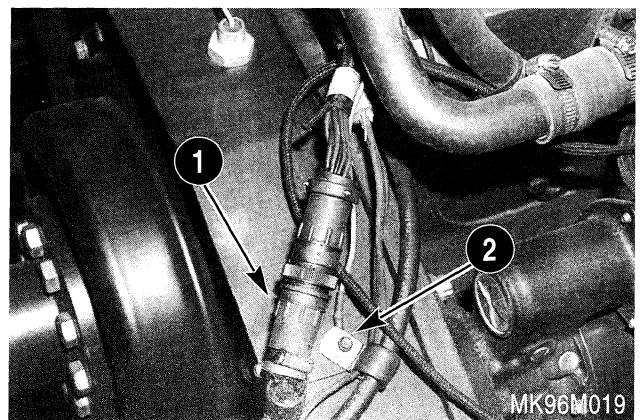
Install the positive battery cable to the starter solenoid.

STEP 66



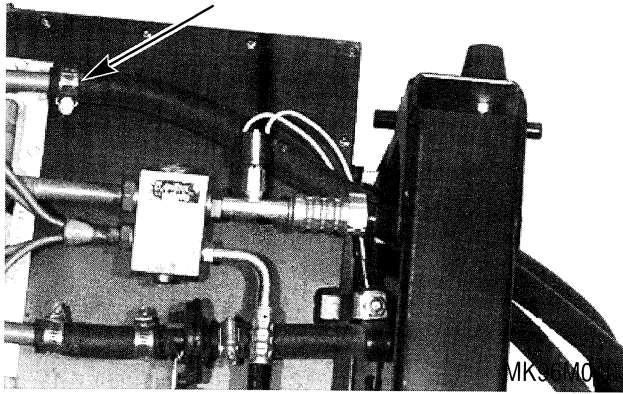
Install the negative cable to the starter.

STEP 68



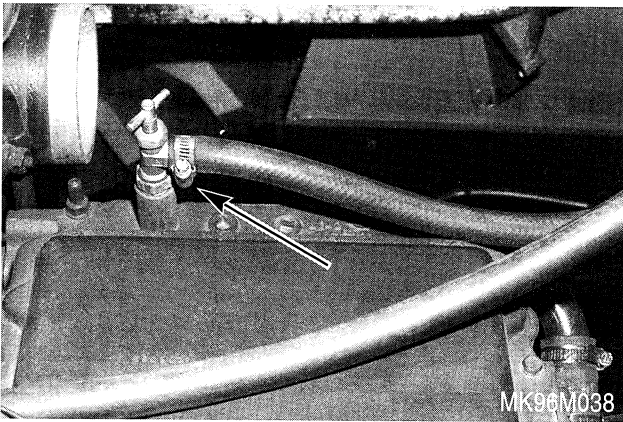
Connect the engine wire harness (Ref. 1) to the front frame wire harness. Install the cable clamp bracket and hose clamp (Ref. 2).

STEP 69



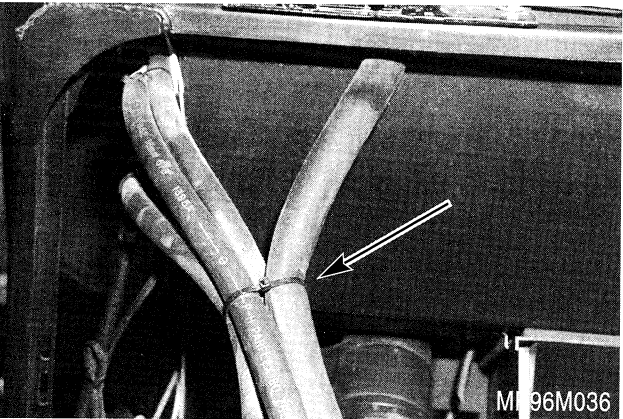
Install the heater return hose on the heater core.

STEP 70



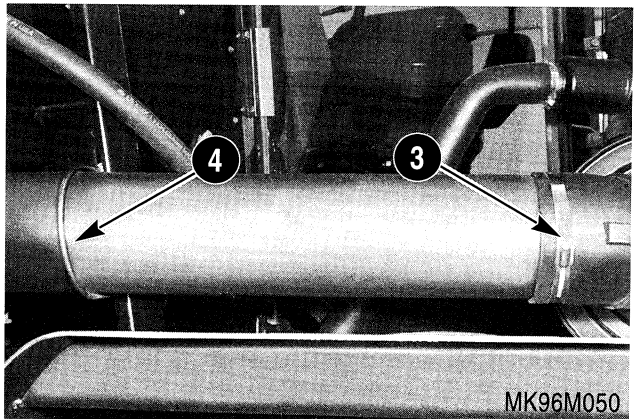
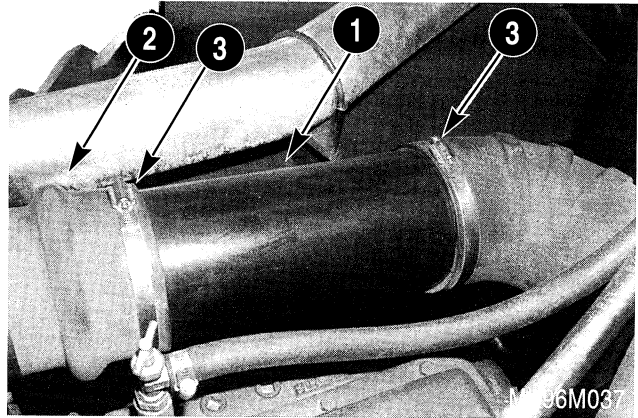
Install the heater hose on the shutoff valve.

STEP 71



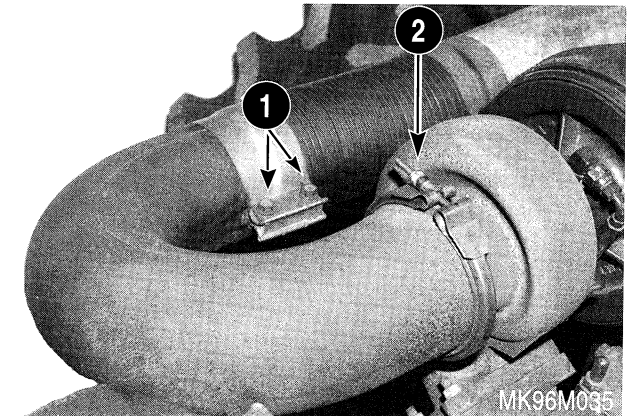
Install a cable tie around the hoses in front of the HVAC box.

STEP 72



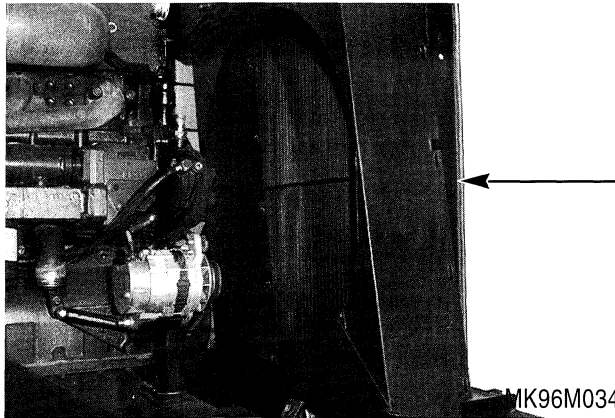
Install the turbo inlet tube (Ref. 1) and the flex connector (Ref. 2). Tighten all the inlet clamps (Ref. 3) to a torque of 77 to 93 lb inch (9 to 11 Nm). Tighten the U-clamp (Ref. 4) to a torque of 9 to 10 lb ft (12 to 14 Nm).

STEP 73



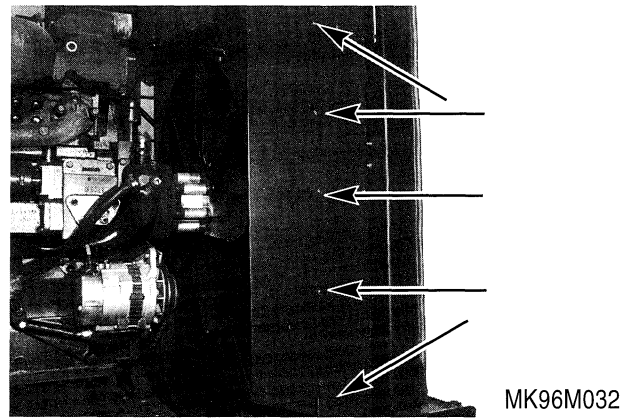
Install the exhaust pipe elbow between the turbo outlet and the exhaust pipe. Tighten the band clamp (Ref. 1) to a torque of 34 to 38 lb ft (46 to 52 Nm) and the elbow to turbo clamp (Ref. 2) to a torque of 75 lb inch (8 Nm).

STEP 74



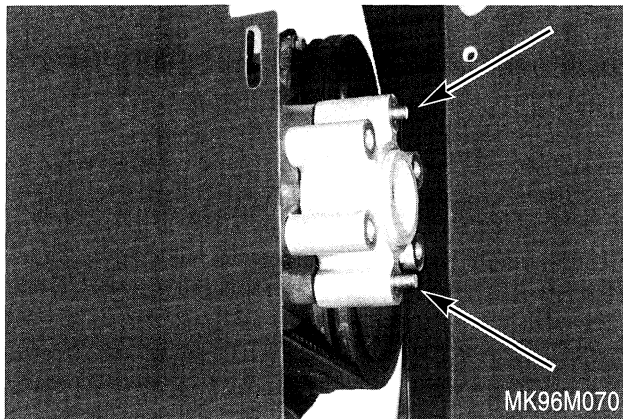
Install the fan shroud into the tractor. Place the shroud against the frame crossmember.

STEP 77



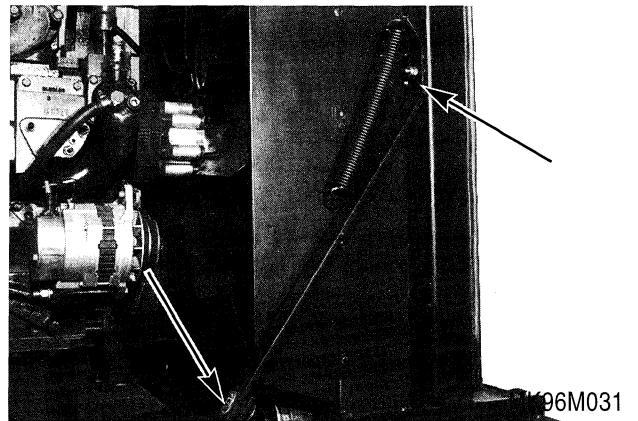
Move the fan shroud forward and install the five right side and left side mounting bolts. Tighten the bolts to a torque of 12 to 14 lb ft (16 to 19 Nm).

STEP 75



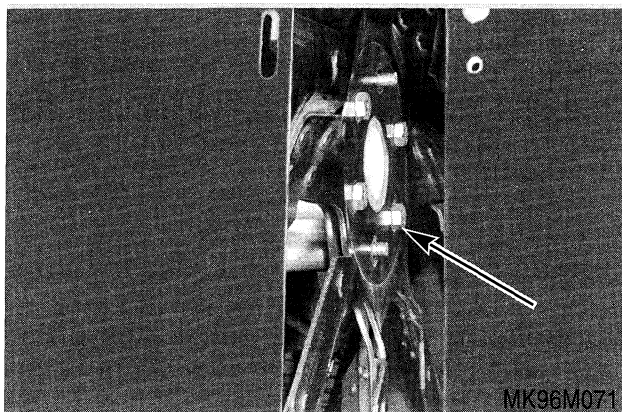
Install two pilot studs into the fan mounting flange and install the fan spacer on the studs.

STEP 78



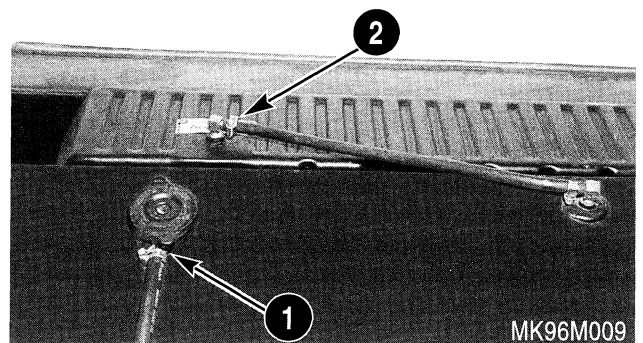
Install the radiator mount brace. Tighten the mounting bolts to a torque of 70 to 80 lb ft (95 to 108 Nm).

STEP 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 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.



Suggest:

If the above button click is invalid.

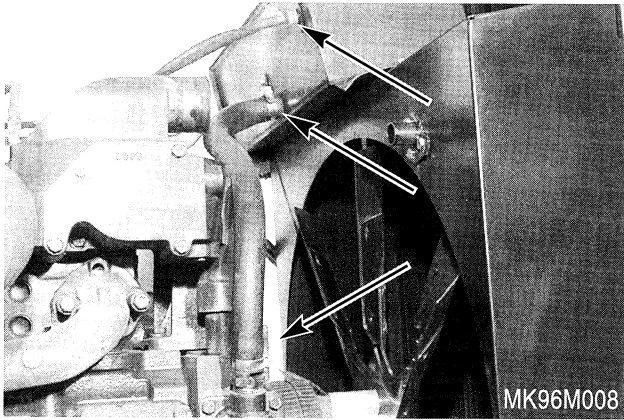
Please download this document

first, and then click the above link

to download the complete manual.

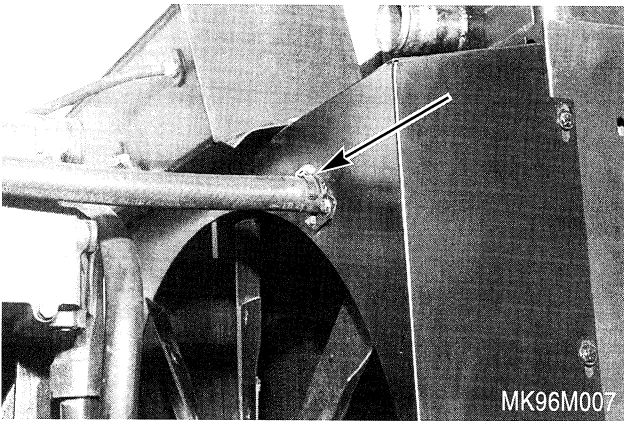
Thank you so much for reading

STEP 80



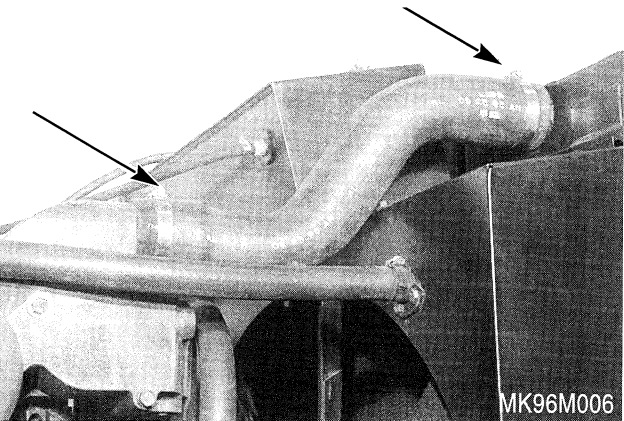
Install the air bleed hose and shunt hose between the engine and the radiator fill tank.

STEP 81



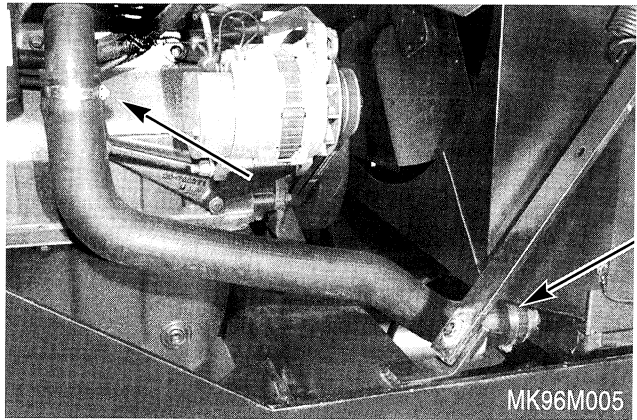
Install the HVAC aspirator hose onto the fan shroud.

STEP 82



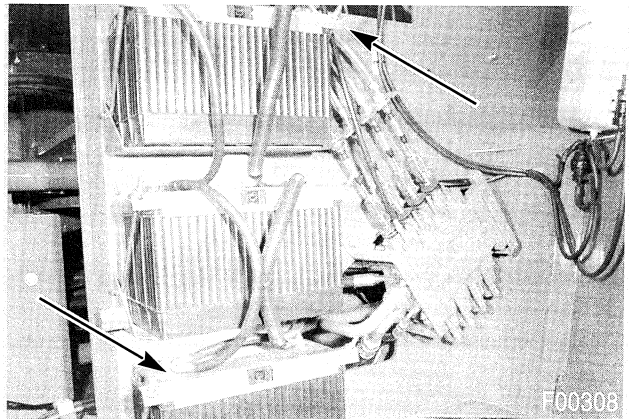
Install the upper radiator hose on the engine and the radiator.

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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