Massey Ferguson®

GC2400 / GC2410 / GC2600 / GC2610
Compact Tractor

WORKSHOP SERVICE MANUAL
4283093M1

CONTENTS

Part Number 4283093M1 (English)

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Massey Ferguson®

GC2400 / GC2410 / GC2600 / GC2610

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01 - Introduction

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NOTES

INTRODUCTION

INTRODUCTION

This service manual has been prepared with the latest service information available at the time of publication. Read the service manual carefully before doing any service on the compact tractor. This manual is one of the most important tools available to the service technician.

Right-hand and left-hand, as used in this manual, is determined by facing the direction the machine will travel when in use.

The photos, illustrations, and data used in this manual were current at the time of printing, but due to possible production changes, your machine can vary slightly. The Manufacturer reserves the right to redesign and change the machine as necessary without notification.

WARNING: Some pictures in this manual show the machine with shields or guards removed to allow for a better view of the subject of the picture. All shields and guards must be in position before operating the machine.

TO THE DEALERS

This manual was developed to provide the best possible information, technical support and service to the customer. Review the Table of Contents and basic layout to become familiar with locations of pertinent information such as maintenance table, specifications and etc.

REPLACEMENT PARTS

To receive efficient service, always remember to give the dealer the following information:

- Correct part description or part number.
- Model number of your machine.
- Serial number of your machine.

UNITS OF MEASUREMENT

Measurements are given in metric units followed by the equivalent in US units. Hardware sizes are given in millimeters for metric hardware and inches for US hardware.

TABLE OF CONTENTS

A Table of Contents is in the front of this manual. The Table of Contents shows the divisions. The individual divisions also have a Table of Contents.

PAGE NUMBERS

All page numbers are made of two numbers separated by a dash, such as 01-25. The number before the dash is the division number. The number following the dash is the page number in that division. Page numbers will be at the lower right or left of each page.

SAFETY PRECAUTIONS

- Make sure that all personnel are in a safe position before starting the engine, or operating ANY of the controls.
- Always stop the engine before leaving the operator's platform.
- Wait for all moving parts to stop COMPLETELY before starting any work on the tractor.
- Before starting service procedures, attached equipment should be resting on the ground and all hydraulic control levers operated back and forth several times with the engine stopped.
- If it becomes necessary to go under raised attachment (i.e: to perform adjustments, etc.), safety standards must be used to support the attachment.
- Make sure the battery ground cable is disconnected before working on or near the electrical system or electrical system components.
- Keep hands, feet and clothing a safe distance away from moving belts, pulleys and other moving parts. Make sure all safety shields are installed.
- Be extra careful when performing any checks, inspections, adjustments or tests that require operating the engine, the hydraulic controls, OR with the machine in motion.
- Make sure dependable jacks of adequate lifting capacity AND suitable stands (or wooden blocking) are used to securely block up the machine when removing any of the wheels or axles.

CAUTION: PERSONAL INJURY MAY RESULT IF THESE PRECAUTIONS ARE NOT FOLLOWED.

Look for this symbol to point out important safety precautions. It means - ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED.

- Before any attempt is made to disconnect or remove any hydraulic component, make sure the hydraulic pressure within the system is relieved and the engine is stopped.
- Carry out the repair procedures in a common sense manner. Safety procedures cannot be over-emphasized when working on, or around machinery, especially when working on engine driven and/or hydraulically actuated equipment.
- Safety also depends upon the skill of the service man in the use of tools and other shop equipment while performing the recommended service procedures.
- Exercise extreme caution when testing hydraulic or fuel system components as fluid ejected under high pressure can easily penetrate skin causing serious infection.
- When it is necessary to remove hoods, shields, ROPS, etc. to conduct repair operation, all items must be reinstalled to unit and secured in original fashion.
- Modification of ROPS is not permissible. Do not weld, drill or modify ROPS in any manner. Damaged or modified ROPS must be replaced.

GENERAL INFORMATION

Model Name and Identification Numbers

FIGS. 1–2: The name plate (1) which gives the model name, type, production serial number, and production year of the machine, is located on the left-hand side of the rear fender (2).

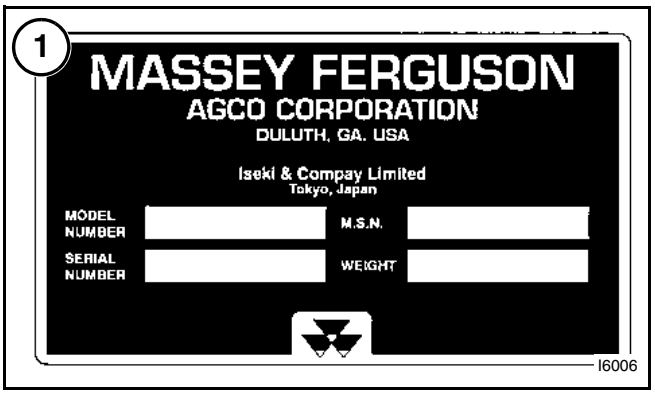


FIG. 1

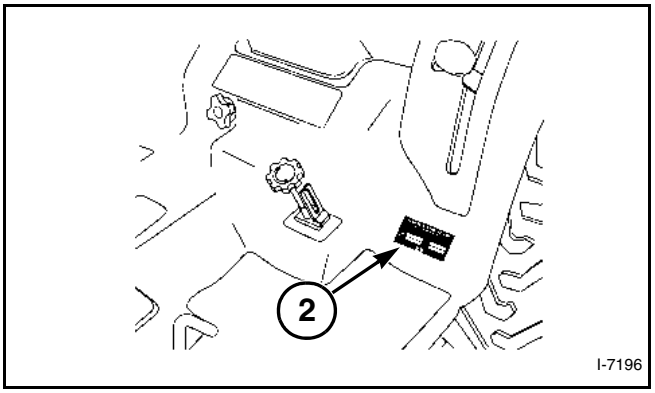


FIG. 2

Chassis

FIG. 3: The chassis number is punched on the plate provided on the right-hand side of the chassis (1).

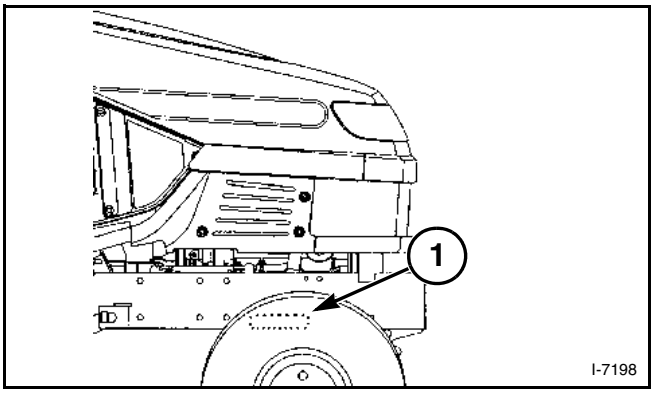


FIG. 3

Engine Model and Serial Number

FIG. 4: The engine model name (1) is cast into the left-hand side wall of the cylinder block.

The serial number (2) is punched into the left-hand side wall of the cylinder block.

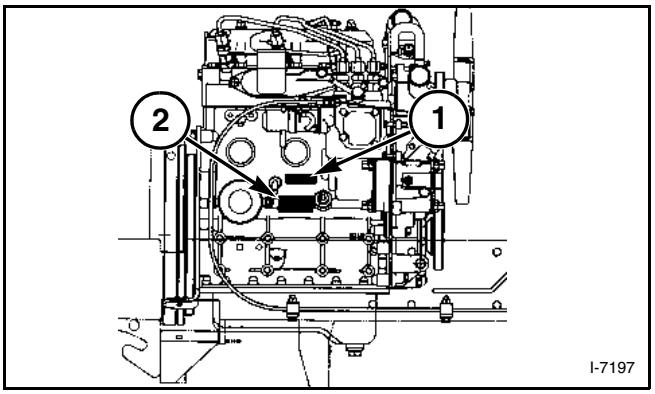


FIG. 4

Specifications

Engine

Make.....Iseki Diesel
Model ..... (GC2400 / GC2410) E3112-WB01 (GC2600 / GC2610) E3112-WB
Type..... Indirect injection, overhead valve
Aspiration .....Natural
Displacement .....1123 cc (68.5 cu.in.)
Number of Cylinders..... 3
Bore..... 78.2 mm (3.08 inch)
Stroke..... 78.0 mm (3.07 inch)
Engine Horsepower
Gross..... (GC2400 / GC2410 @ 2600 rpm) 16.5kW (22.1 hp)
Gross..... (GC2600 / GC2610 @ 3000 rpm) 18kW (24.1 hp)
Net..... (GC2400 / GC2410 @ 2600 rpm) 16.1 kW (21.6 hp)
Net..... (GC2600 / GC2610 @ 3000 rpm) 17.6 kW (23.6 hp)
PTO Horsepower (Estimate)
(GC2400 / GC2410) @ 555 PTO rpm..... 13.9 kW (18.6 hp)
(GC2600 / GC2610) @ 572 PTO rpm..... 14.6 kW (19.6 hp)
Firing Order.....1-3-2
Compression Ratio.....22.5 to 1
Low Idle Speed..... 1250 to 1300 rpm
High Idle Speed ..... (GC2400 / GC2410) 2760 to 2860 rpm (GC2600 / GC2610) 3170 - 3270 rpm
Valve Clearance (Cold)
Intake..... 0.25 mm (0.010 inch)
Exhaust ..... 0.25mm (0.010 inch)
Air Cleaner .....Single stage, Dry element
Engine Cooling .....Liquid, forced circulation
Cold Starting Aid..... Glow Plugs (3)

Transmission

Primary.....Infinite
Range..... 2 Speed Constant Mesh
Gear Speeds.....2 Forward / 2 Reverse
Clutch ..... None
Brakes ..... Mechanically actuated sealed wet disk

Power Take-Off (PTO)

Type.....Independent, engine driven
Control.....Hydraulic control
Clutch .....Mechanically engaged, multi-plate wet disk
Rear PTO; Shaft (diameter, six spline) ..... 35 mm (1.375 inch)
Output .....Clockwise Rotation

Engine Speed @ 540 PTO rpm ..... (GC2400 / GC2410) 2532 rpm (GC2600 / GC2610) 2829 rpm
Mid PTO; Shaft (diameter, fifteen spline) ..... 25.4 mm (1.0 inch)
Output ..... Clockwise rotation
Engine Speed @ 2000 PTO rpm ..... (GC2400 / GC2410) 2476 rpm (GC2600 / GC2610) 2947 rpm

Hydraulics

Steering System Type ..... Hydrostatic Power
- Pump ..... Transmission-mounted gear pump with flow divider
- Maximum Output ..... 7.5 l/min (2.0 gals/min)
- Pressure (Relief valve setting) ..... 8339 kPa (1209 psi)

Main Hydraulic System ..... Transmission-mounted gear pump
Maximum Output (GC2400 / GC2410 ..... 24.0 l/min (6.3 gal/min)
Maximum Output (GC2600 / GC2610 ..... 26.3 l/min (6.9 gal/min)
Pressure (Relief valve setting) ..... 13244 kPa (1920 psi)
Rear Linkage
- Type ..... Three-Point Hitch
- Size ..... Category 1

Control ..... Lift Control
- Lift Capacity (Measured at ball ends) ..... 540 kg (1191 lbs)

Electrical System

System Voltage ..... 12 volt, negative (-) ground
Battery cca @ 0 degrees F (-18) ..... 433 cca
Charging ..... 40 amp alternator with internal regulator / rectifier

Capacities

Engine Crankcase with Filter ..... 2.6 liters (2.7 qts)
Transmission ..... 11 liters (2.9 gal)
Fuel Tank ..... 25 liters (6.6 gal)
Cooling System ..... 4.6 liters (4.9 gal)
Front Drive Axle ..... 4.0 liters (4.2 qt)

Tread Width Settings

Front 4WD
- Ag. Tires (Dished in Only) ..... 930 mm (36.6 inch)
- Turf Tires (Dished in Only) ..... 930 mm (36.6 inch)

Rear 4WD
- Ag. Tires (Dished in Only) ..... 840 mm (33.1 inch)
- Turf Tires (Dished in Only) ..... 840 mm (33.1 inch)

Maximum Axle Loading

Front 4WD ..... 880 kg (1940 lbs)
Rear Axle ..... 950 kg (2094 lbs)

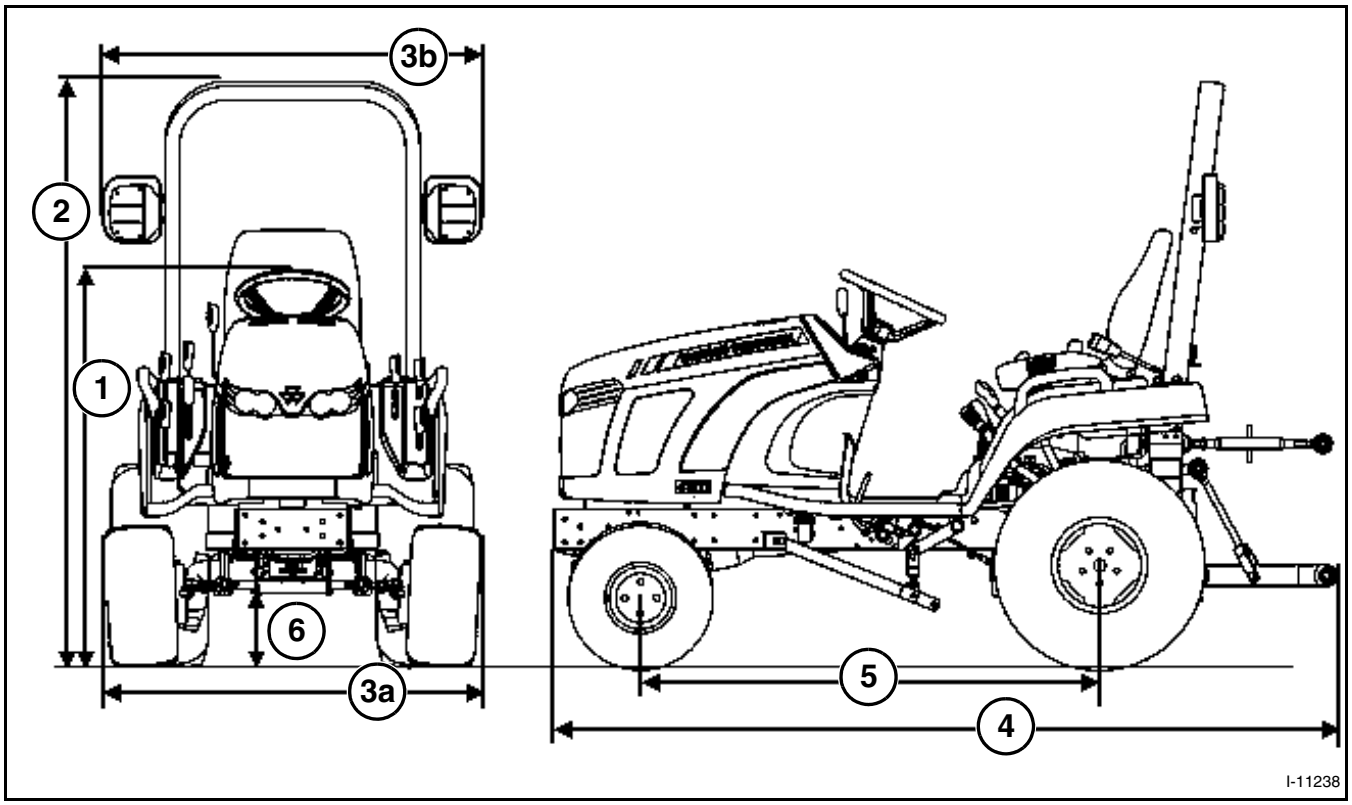


FIG. 5

FIG. 5: Exterior views and dimensions.

			GC2400 without Joystick		GC2400 GC2600		GC2410 GC2610 without Implements and Subframe	
			AG Tires	Turf Tires	AG Tires	Turf Tires	AG Tires	Turf Tires
1	Height of Steering Wheel		1250 mm (49.2 in)		1250 mm (49.2 in)		1250 mm (49.2 in)	
2	Overall Height ROPS		1850 mm (72.8 in)		1850 mm (72.8 in)		2185 mm (86.0 in)	
3a	Overall Width (Tire)		1185 mm (46.7 in)	1190 mm (46.9 in)	1185 mm (46.7 in)	1190 mm (46.9 in)	1185 mm (46.7 in)	1190 mm (46.9 in)
3b	Overall Width (Combination rear light)		1200 mm (47.2 in)		1200 mm (47.2 in)		1370 mm (54.0 in)	
4	Overall Length		2480 mm (97.6 in)		2480 mm (97.6 in)		2480 mm (97.6 in)	
5	Wheelbase		1450 mm (57.1 in)		1450 mm (57.1 in)		1450 mm (57.1 in)	
6	Minimum Ground Clearance		170 mm (6.7 in)		170 mm (6.7 in)		170 mm (6.7 in)	
	Turning Radius without Brake	Right	2550 mm (100.4 in)		2550 mm (100.4 in)		2550 mm (100.4 in)	
		Left	2400 mm (94.5 in)		2400 mm (94.5 in)		2400 mm (94.5 in)	
	Weight (bare Tractor with tires and wheels)		645 kg (1422 lbs)		650 kg (1433 lbs)		655 kg (1444 lbs)	

LUBRICATION AND PERIODIC MAINTENANCE

Specifications and Capacities

Engine Oil

Use the appropriate SAE viscosity, Oil must meet or exceed; MIL-L-46152 requirements, API Service CC.

Capacity (Crankcase and filter) ..... 2.6 liters (2.7 quarts)

Recommended Viscosity:

- 25 degrees C (78 degrees F) and Above ..... SAE 30 W, 10 W - 30
- 0 - 25 degrees C (32 - 78 degrees F) ..... SAE 20 W, 10 W - 30
- 0 degrees C (Below 32 degrees F) ..... SAE 10 W, 10 W - 30
- 15W - 40 may be used in ambient temperatures above -10 degrees C (14 degrees F)

Recommended Change Intervals:

- Initial Oil and Filter Change ..... 50 hours
- Oil and Filter Change, Thereafter ..... Every 150 hours

Engine Coolant

Freezing Protectant (Original Factory Fill) ..... -34 degrees C (-30 degrees F)

Recommended Coolant ..... 50/50 mixture ethylene glycol and water

System Capacity ..... 4.6 liters (4.9 quarts)

Fuel Tank

Capacity ..... 25 liters (6.6 gallons)

Fuel recommended, Above 4 degrees C (39 degrees F) ..... No. 2 or No. 2-5

Fuel recommended, Below 4 degrees C (39 degrees F) ..... No. 1 or No.1-D

Tranmission and Differential Housing (Including Hydraulic System

Capacity ..... 11.0 liters (2.9 gallons)

Recommended Lubricant ..... MF Permatran III®, AGCO 821XL or equivalent

Recommended Change Interval ..... First 50 hours, every 300 hours thereafter

Front Axle (4WD Only)

Capacity ..... 4.0 liters (4.2 quarts)

Recommended Change Lubricant ..... MF Permatran III®, AGCO 821XL or equivalent

Recommended Change Interval ..... First 50 hours, every 600 hours thereafter

Grease Fittings

Grease Interval (All Fittings) ..... Every 50 hours

Recommended Grease ..... Lithium base grease No. 2

NOTE: Change intervals stated above are for normal usage. Due to adverse operating conditions that may be experienced (extremely dusty or muddy), change intervals may need to be more frequent.

Periodic Maintenance Schedule

Items marked (o) indicate initial service interval only. Subsequent (later) intervals marked (x). Intervals above are for normal usage. Severe operating conditions (wet, dusty, etc.), or when previous servicing has indicated need for more frequent action, intervals may need to be more often.

Maintenance Schedule

Recommended Interval, Each					Item to Check	Action Required
Day	50 Hr.	100 Hr	300 Hr	Year		
x					All controls, switches	Inspect and repair
x					All fasteners, hardware	Check and tighten
x					Hoses, fan belt, wiring	Inspect and repair
	x				Grease fittings	Lubricate
x					Engine oil level	Check and replenish
	o	x			Engine oil and filter	Replace
x					Transmission oil level	Check and replenish
	o		x		Transmission oil and filter	Replace
	x				Front axle oil level	Check and replenish
	o		x		Front axle oil	Replace
x					Air screens and radiator	Clean off debris
x					Radiator coolant level	Check and replenish
				x	Radiator coolant	Drain, flush and replace
x					Fan belt tension	Check and adjust
x					Air cleaner dust ejector	Clean
	x				Air cleaner element	Inspect, clean or replace
x					Fuel tank level	Fill
x					Fuel filter sediment bowl	Inspect and clean
			x		Fuel filter element	Replace and bleed
	x				Battery and cables	Check, clean and tighten
	x				Battery electrolyte level	Check and replenish
x					Light, flashers	Check and repair
x					Brake adjustments	Check and adjust
x					Tire pressure and condition	Check and adjust
x					Wheel bolt torque	Check and tighten
			x		Front wheel adjustment	Check and adjust
x					Steering free-play	Check and repair
			x		Front axle end-float	Check and adjust

Lubrication and Fill Points

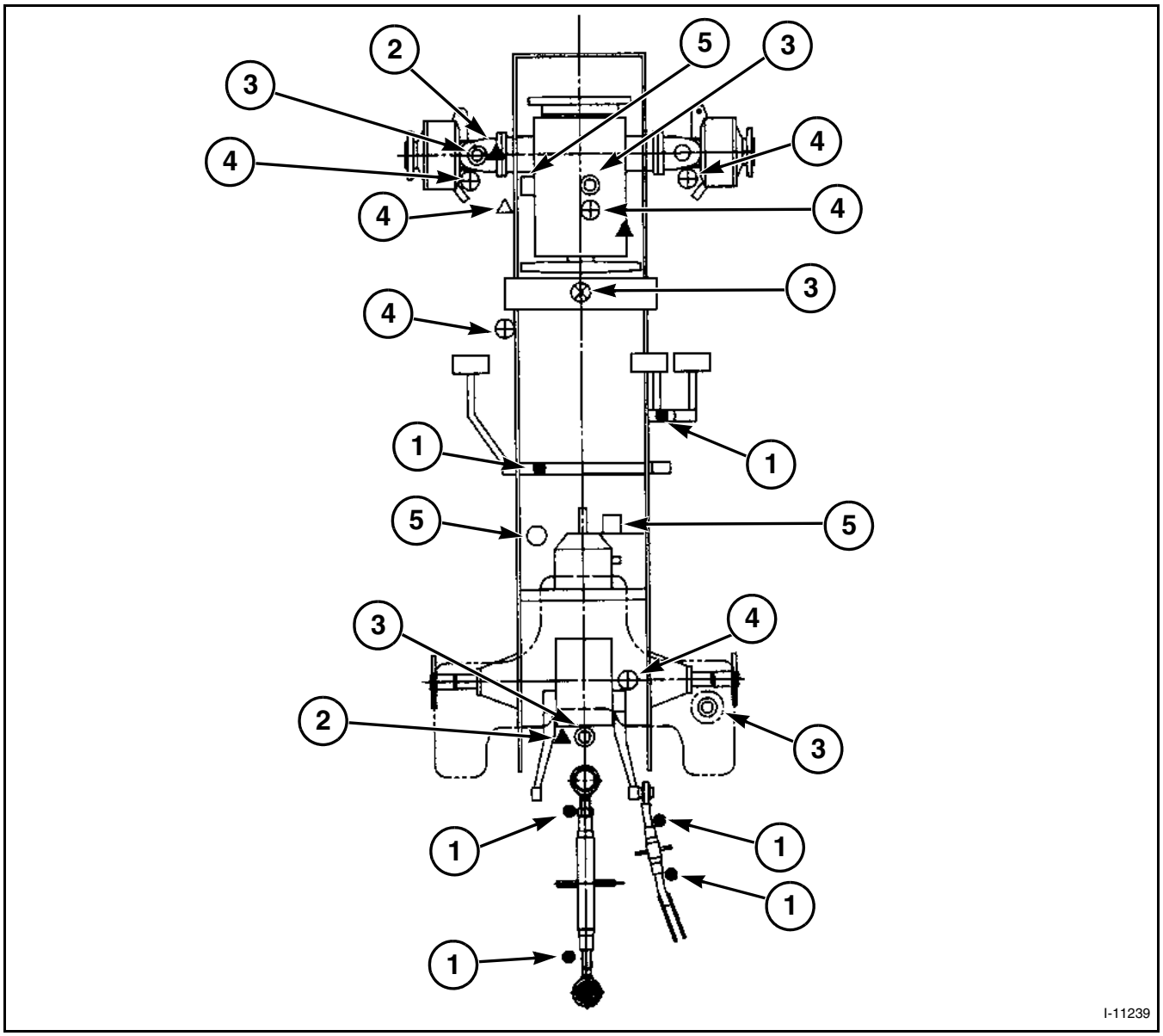


FIG. 6

FIG. 6: Service Points

(1) Grease Point

(2) Oil Level Check

(3) Fill Point

(4) Drain Point

(5) Filter

Standard Torque Chart

TORQUE CHART FOR METRIC FASTENERS (ZINC COATED)						
Nominal Size in mm	Strength Class- ISO 4.6 (4T)		Strength Class- ISO 8.8 (7T)		Strength Class- ISO 10.9 (9T)	
	Torque Nm (lbf ft)		Torque Nm (lbf ft)		Torque Nm (lbf ft)	
	Min.	Max.	Min.	Max.	Min.	Max.
M3	0.5 (0.3)	0.7 (0.5)	1.3 (0.9)	1.7 (1.3)	1.8 (1.3)	2.4 (1.8)
M4	1.2 (0.9)	1.6 (1.2)	3.1 (2.3)	4.1 (3.0)	4.3 (3.2)	5.7 (4.2)
M5	2.2 (1.6)	3.0 (2.2)	6.0 (4.4)	8.0 (5.9)	8.5 (6.3)	1.5 (8.5)
M6	4.0 (2.9)	5.0 (3.7)	10 (7.4)	14 (10.3)	14 (10.3)	20 (14.8)
M8	9.5 (7.0)	12.5 (9.2)	25 (18.4)	35 (26)	36 (26)	46 (34)
M10	19 (14)	25 (18)	50 (37)	70 (52)	72 (53)	96 (71)
M12	33 (24)	43 (32)	90 (66)	120 (89)	120 (89)	160 (118)
M16	84 (62)	110 (81)	200 (148)	260 (192)	300 (221)	40 (295)
M20	160 (118)	210 (155)	420 (310)	560 (413)	600 (443)	800 (590)
M24	280 (207)	360 (266)	720 (531)	860 (634)	1000 (738)	1300 (959)
M30	540 (398)	720 (531)	1400 (1033)	1800 (1328)	2100 (1549)	2800 (2065)
M36	950 (700)	1250 (922)	2500 (1844)	3300 (2434)	3600 (2655)	4800 (3540)

TORQUE CHART FOR INCH FASTENERS (ZINC COATED)						
Nominal Size	Strength Class- SAE 2 (plain head)		Strength Class- SAE 5		Strength Class- SAE 8	
	Torque Nm (lbf ft)		Torque Nm (lbf ft)		Torque Nm (lbf ft)	
	Min.	Max.	Min.	Max.	Min.	Max.
1/4	6.8 (5)	8.1 (6)	10.8 (8)	15 (11)	16.2 (12)	21.7 (16)
5/16	13.5 (10)	16.2 (12)	22 (16)	30 (22)	31 (23)	42 (31)
3/8	24 (18)	28 (21)	39 (29)	53 (39)	56 (41)	75 (55)
7/16	41 (30)	46 (34)	64 (47)	85 (63)	91 (67)	121 (89)
1/2	61 (45)	70 (52)	99 (73)	131(97)	140 (103)	185 (137)
5/8	122 (90)	142 (105)	198 (146)	263 (194)	279 (206)	371 (274)
3/4	217 (160)	250 (185)	350 (258)	464 (342)	495 (365)	658 (485)
7/8	-	-	569 (420)	759 (560)	800 (590)	1071 (790)
1	-	-	847 (625)	1119 (825)	1200 (885)	1580 (1165)
1-1/8	-	-	1051 (775)	1390 (1025)	1681 (1240)	2224 (1640)
1-1/4	-	-	1491 (1100)	1966 (1450)	2386 (1760)	3159 (2330)
1-1/2	-	-	2576 (1900)	3390 (2500)	4121 (3040)	5437 (4010)

NOTE: Above torques are for "rigid" joints, or joints meeting the following conditions:

1. Damage will not occur to joined members of an assembly.

2. It is desirable to use a higher clamping force.

3. Fastener threads are NOT lubricated prior to assembly.

The following conditions will require a torque value different than stated above:

1. Reduced torque required; non-parallel clamping surfaces, thick or highly compressible gaskets are used, or when a higher torque may damage joined assemblies.
2. Clip nuts, weld nuts, self-tapping hardware, or any condition that causes reduced thread engagement will warrant a torque less than stated above.
3. Special torque values, stated in this manual, must be strictly adhered to as stated in the specific operation.

NOTE: A number of special torques are used in assembly of tractors. See list.

Special Torques

Transmission Case Assembly Bolts (M12)	42 to 46.1 Nm (31 to 34 lbf ft)
HST Unit Assembly Bolts (M12)	42 to 46.1 Nm (31 to 34 lbf ft)
Frame Bolts on Transmission (M12)	84.1 to 88.1 Nm (62 to 65 lbf ft)
Axle Housing Assembly Bolts (M12)	42 to 46.1 Nm (31 to 34 lbf ft)
Lift Housing Assembly Bolts (M12)	42 to 46.1 Nm (31 to 34 lbf ft)

Sealant and Adhesives

Sealant and adhesives quoted in this workshop service manual are listed below.

NOTE: Where use of a specific sealant or retaining compound is required, this recommendation will be listed in the relevant operation. It should be understood that additional requirements are normally considered normal workshop practice. For example; use of gasket sealant on gaskets (unless specified otherwise), sealing of tapered (pipe) threads, lubrication of seals / O-rings.

Description	Three Bond® Product	North America Equivalent	European Equivalent
Gasket Spray	-	Univ. Gasket Sealant - 1904 865 M2	Hylomar - 1861 152
Gasket Compound	-		Hylomar - 1861 117
		Permatex Compound - ***	
Retaining Compound	TB 1305		Loctite 271 - ***
		Loctite 271 - ***	
Retaining Compound	TB 1379B		Loctite 251 - ***
		Loctite 277 - ***	
Retaining Compound	TB 1303B		Loctite 601 - ***
		Retaining Compound - 1904 886 M2	
		Loctite 609 (formerly 601)	
Gasket Eliminator	TB 1104	Loctite 609 (formerly 601)	-
		- Tube - 1904 888 M2	
		Gasket - 50 ml - 3303 226 M1	
Instant Gasket	TB 1215	Eliminator - 300 ml - 841 742 M1	Loctite 515
For threaded bolts installed in tapped through holes	TB 1104	- -	-
Silicone Sealant (RTV)	TB 1211		-
		Silicone RTV - 1904 889 M2	
Pipe Sealant	TB 1130	Dow Corning RTV - ***	Loctite 572 - ***
		Pipe Sealant - 1904 887 M2	
		Loctite Hydraulic Sealant - ***	
		Loctite PST - ***	

*As available through Massey Ferguson Parts in United States and Canada.
**As available through Central Parts Operation, Massey Ferguson Urmston Manchester.
***As available through local retail outlets under brand/type indicated. Equivalent substitutes may be used.

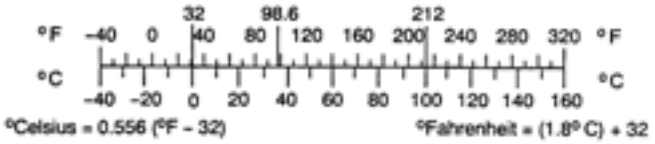
Three-Bond Sealants are available at the following address:

Three-Bond U.S.A. Inc. Detroit Branch
2000 Town Center Suite 1480
Southfield, MI 48075
Telephone: 313-353-2225

Conversion Tables

	MULTIPLY:	BY:		To Get: MULTIPLY	BY:		To Get:
LINEAR	inches	x 25.4	=	millimeters (mm)	x 0.03937	=	inches
	feet	x 0.3048	=	meters (m)	x 3.281	=	feet
	yards	x 0.9144	=	meters (m)	x 1.0936	=	yards
	miles	x 1.6093	=	kilometers (km)	x 0.6214	=	miles
	inches	x 2.54	=	centimeters (cm)	x 0.3937	=	inches
	microinches	x 0.0254	=	micrometers (um)	x 39.37	=	microinches
AREA	inches²	x 645.16	=	millimeters² (mm²)	x 0.00155	=	inches²
	inches²	x 6.4516	=	centimeters² (cm²)	x 0.155	=	inches²
	feet²	x 0.0929	=	meters² (m²)	x 10.764	=	feet²
	yards²	x 0.8361	=	meters² (m²)	x 1.196	=	yards²
	acres	x 0.4047	=	hectometers² (hm²)	x 2.471	=	acres
			=	hectares (ha)			
VOLUME	inches³	x 16387	=	millimeters³ (mm³)	x 0.000061	=	inches³
	inches³	x 16.387	=	centimeters³ (cm³)	x 0.06102	=	inches³
	inches³	x 0.01639	=	liters	x 61.024	=	inches³
	quarts	x 0.94635	=	liters	x 1.0567	=	quarts
	gallons	x 3.7854	=	liters	x 0.2642	=	gallons
	feet³	x 28.317	=	liters	x 0.03531	=	feet³
	feet³	x 0.02832	=	meters³ (m³)	x 35.315	=	feet³
	fluid oz.	x 29.57	=	milliliters (ml)	x 0.03381	=	fluid oz.
	yards³	x 0.7646	=	meters³ (m³)	x 1.3080	=	yards³
	teaspoons	x 4.929	=	milliliters (ml)	x 0.2029	=	teaspoons
	cups	x 0.2366	=	liters	x 4.227	=	cups
	bushel	x 35.239	=	liters	x 0.02838	=	bushels
	bushel	x 0.03524	=	meters³ (m³)	x 28.378	=	bushels
MASS	ounces (av)	x 28.35	=	grams (g)	x 0.03527	=	ounces (av)
	pounds (av)	x 0.4536	=	kilograms (kg)	x 2.2046	=	pounds (av)
	tons (2000 lbs)	x 907.18	=	kilograms (kg)	x 0.001102	=	tons (2000 lbs)
	tons (2000 lbs)	x .90718	=	metric tons(t)	x 1.1023	=	tons(2000 lbs)
	tons (long) (2240 lbs)	x 1016.05	=	kilograms (kg)	x .000984	=	tons (long) (2240 lbs)
FORCE	ounces - f (av)	x 0.278	=	newtons (N)	x 3.597	=	ounces - f (av)
	pounds - f (av)	x 4.488	=	newtons (N)	x 0.2248	=	pounds - f (av)
	kilograms - f	x 9.807	=	newtons (N)	x 0.10197	=	kilograms - f
PRESSURE OR STRESS	pounds/sq.in.	x 6.895	=	kilopascals (kPa)	x 0.145	=	pounds/sq. in.
	pounds/sq.in.	x 0.0689	=	bar	x 14.503	=	pounds/sq. in.
POWER	horsepower	x 0.746	=	kilowatts (kW)	x 1.34	=	horsepower
	ft-lbf/min.	x 0.0226	=	watts (W)	x 44.25	=	ft - lbf/min.
TORQUE	pound - inches	x 0.11298	=	newton-meters (N.m)	x 8.851	=	pound-inches
	pound - feet	x 1.3558	=	newton-meters (N.m)	x 0.7376	=	pound-feet
VELOCITY	miles/hour	x 1.6093	=	kilometers/hour (km/h)	x 0.6214	=	miles/hour
	feet/sec.	x 0.3048	=	meters/sec. (m/s)	x 3.281	=	feet/sec.
	kilometers/hr.	x 0.27778	=	meters/sec. (m/s)	x 3.600	=	kilometers/hr.
	miles/hours	x 0.4470	=	meters/sec. (m/s)	x 2.237	=	miles/hour

TEMPERATURE



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MetConv

INCHES	DECIMALS	MILLI-METERS	INCHES TO MILLIMETERS		MILLIMETERS TO INCHES		FARENHEIT & CENTIGRADE			
			In.	mm.	mm.	In.	°F	°C	°C	°F
1/64	.015625	.3969	.0001	.00254	.001	.000039	-20	-28.9	-30	-22
1/32	.03125	.7937	.0002	.00508	.002	.000079	–15	–26.1	–28	–18.4
3/64	.046875	1.1906	.0003	.00762	.003	.000118	–10	–23.3	–26	–14.8
1/16	.0625	1.5875	.0004	.01016	.004	.000157	–5	–20.6	–24	–11.2
5/64	.078125	1.9844	.0005	.01270	.005	.000197	0	–17.8	–22	–7.6
3/32	.09375	2.3812	.0006	.01524	.006	.000236	1	–17.2	–20	–4
7/64	.109375	2.7781	.0007	.01778	.007	.000276	2	–16.7	–18	–0.4
1/8	.125	3.1750	.0008	.02032	.008	.000315	3	–16.1	–16	3.2
9/64	.140625	3.5719	.0009	.02286	.009	.000354	4	–15.6	–14	6.8
5/32	.15625	3.9687	.001	.0254	.01	.00039	5	–15.0	–12	10.4
11/64	.171875	4.3656	.002	.0508	.02	.00079	10	–12.2	–10	14
3/16	.1875	4.7625	.003	.0762	.03	.00118	15	–9.4	–8	17.6
13/64	.203125	5.1594	.004	.1016	.04	.00157	20	–6.7	–6	21.2
7/32	.21875	5.5562	.005	.1270	.05	.00197	25	–3.9	–4	24.8
15/64	.234375	5.9531	.006	.1524	.06	.00236	30	–1.1	–2	28.4
1/4	.25	6.3500	.007	.1778	.07	.00276	35	1.7	0	32
17/64	.265625	6.7469	.008	.2032	.08	.00315	40	4.4	2	35.6
9/32	.28125	7.1437	.009	.2286	.09	.00354	45	7.2	4	39.2
19/64	.296875	7.5406	.01	.254	.1	.00394	50	10.0	6	42.8
5/16	.3125	7.9375	.02	.508	.2	.00787	55	12.8	8	46.4
21/64	.328125	8.3344	.03	.762	.3	.01181	60	15.6	10	50
11/32	.34375	8.7312	.04	1.016	.4	.01575	65	18.3	12	53.6
23/64	.359375	9.1281	.05	1.270	.5	.01969	70	21.1	14	57.2
3/8	.375	9.5250	.06	1.524	.6	.02362	75	23.9	16	60.8
25/64	.390625	9.9219	.07	1.778	.7	.02756	80	26.7	18	64.4
13/32	.40625	10.3187	.08	2.032	.8	.03150	85	29.4	20	68
27/64	.421875	10.7156	.09	2.286	.9	.03543	90	32.2	22	71.6
7/16	.4375	11.1125	.1	2.54	1	.03937	95	35.0	24	75.2
29/64	.453125	11.5094	.2	5.08	2	.07874	100	37.8	26	78.8
15/32	.46875	11.9062	.3	7.62	3	.11811	105	40.6	28	82.4
31/64	.484375	12.3031	.4	10.16	4	.15748	110	43.3	30	86
1/2	.5	12.7000	.5	12.70	5	.19685	115	46.1	32	89.6
33/64	.515625	13.0969	.6	15.24	6	.23622	120	48.9	34	93.2
17/32	.53125	13.4937	.7	17.78	7	.27559	125	51.7	36	96.8
35/64	.546875	13.8906	.8	20.32	8	.31496	130	54.4	38	100.4
9/16	.5625	14.2875	.9	22.86	9	.35433	135	57.2	40	104
37/64	.578125	14.6844	1	25.4	10	.39370	140	60.0	42	107.6
19/32	.59375	15.0812	2	50.8	11	.43307	145	62.8	44	112.2
39/64	.609375	15.4781	3	76.2	12	.47244	150	65.6	46	114.8
5/8	.625	15.8750	4	101.6	13	.51181	155	68.3	48	118.4
41/64	.640625	16.2719	5	127.0	14	.55118	160	71.1	50	122
21/32	.65625	16.6687	6	152.4	15	.59055	165	73.9	52	125.6
43/64	.671875	17.0656	7	177.8	16	.62992	170	76.7	54	129.2
11/16	.6875	17.4625	8	203.2	17	.66929	175	79.4	56	132.8
45/64	.703125	17.8594	9	228.6	18	.70866	180	82.2	58	136.4
23/32	.71875	18.2562	10	254.0	19	.74803	185	85.0	60	140
47/64	.734375	18.6531	11	279.4	20	.78740	190	87.8	62	143.6
3/4	.75	19.0500	12	304.8	21	.82677	195	90.6	64	147.2
49/64	.765625	19.4469	13	330.2	22	.86614	200	93.3	66	150.8
25/32	.78125	19.8437	14	355.6	23	.90551	205	96.1	68	154.4
51/64	.796875	20.2406	15	381.0	24	.94480	210	98.9	70	158
13/16	.8125	20.6375	16	406.4	25	.98425	212	100.0	75	167
53/64	.828125	21.0344	17	431.8	26	1.02362	215	101.7	80	176
27/32	.84375	21.4312	18	457.2	27	1.06299	220	104.4	85	185
55/64	.859375	21.8281	19	482.6	28	1.10236	225	107.2	90	194
7/8	.875	22.2250	20	508.0	29	1.14173	230	110.0	95	203
57/64	.890625	22.6219	21	533.4	30	1.18110	235	112.8	100	212
29/32	.90625	23.0187	22	550.8	31	1.22047	240	115.6	105	221
59/64	.921875	23.4156	23	584.2	32	1.25984	245	118.3	110	230
15/16	.9375	23.8125	24	609.6	33	1.29921	250	121.1	115	239
61/64	.953125	24.2094	25	635.0	34	1.33858				
31/32	.96875	24.4062	26	660.4	35	1.37795				
63/64	.984375	25.0031			36	1.41732				
					37	1.45669				
					38	1.49606				
					39	1.53543				
					40	1.57480				

Conversion Table

NOTES

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Massey Ferguson®

GC2400 / GC2410 / GC2600 / GC2610 Compact Tractor

WORKSHOP SERVICE MANUAL

4283093M1

02 - Chassis

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NOTES

CHASSIS

ROLL OVER PROTECTION SYSTEM (ROPS)

Removal

FIGS. 1–2: Disconnect the blinker wire harness (1) and the tailight wire harness (2) on both sides.

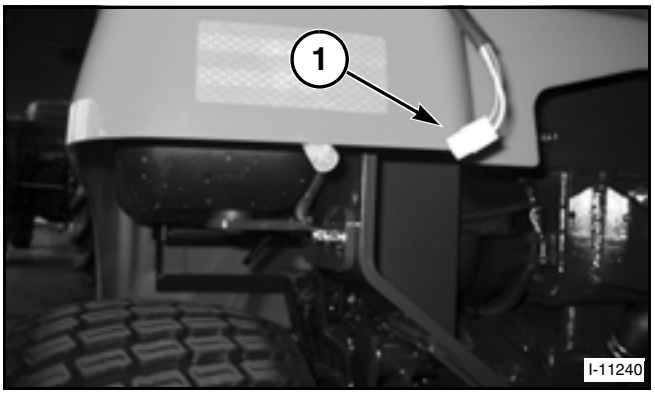

FIG. 1

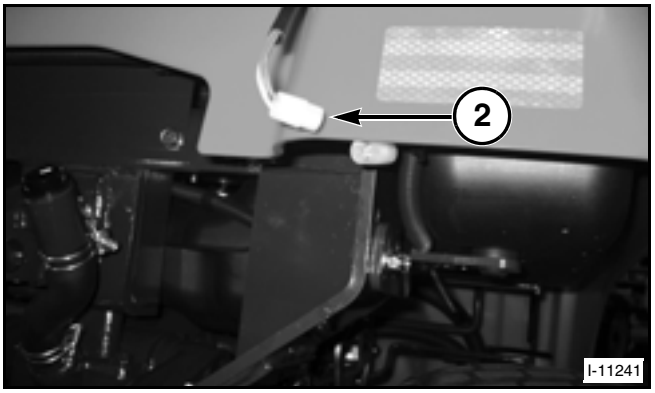

FIG. 2

FIGS. 3–4: Remove the nuts and lockwashers securing the ROPS frame to the fender. Remove ROPS assembly.

FIG. 3

FIG. 4

Assembly

FIG. 5: Assemble in reverse order.

Tighten ROPS securing hardware to 122 to 149 Nm (90 to 110 lbf ft).

Check to ensure that the seat belts are securely attached to the brackets.

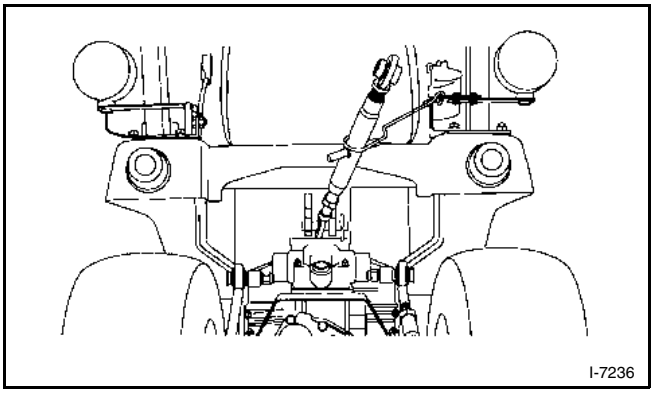

FIG. 5

PLATFORM AND SHEET METAL

Removal

FIG. 6: Open the engine hood.

Remove the screws (1) retaining the steering column cover.

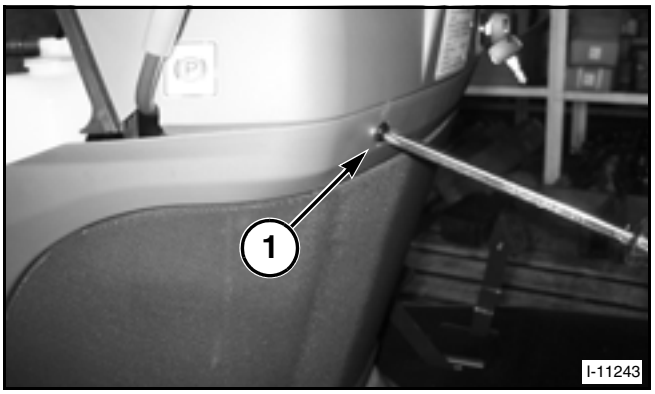

FIG. 6

FIG. 7: Remove the cover (1).

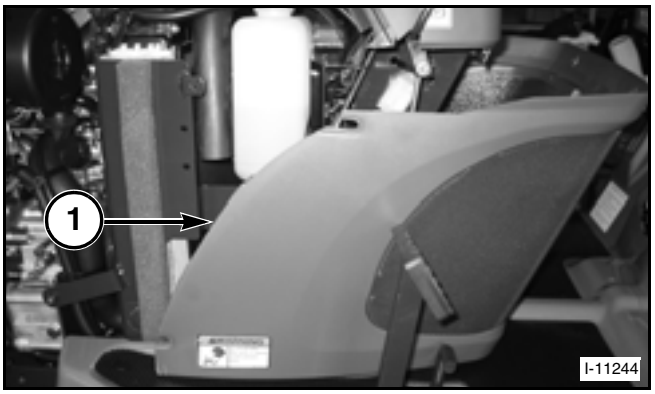

FIG. 7

FIG. 8: Remove the bolts securing the HST pedal (1).

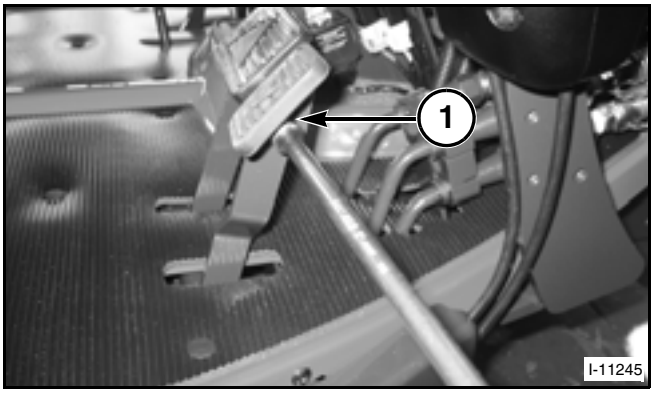

FIG. 8

FIGS. 9–11: Remove the joy stick valve cover (1), the joystick lever (2) and quick couplers (3). Loosen the joystick lever bracket.

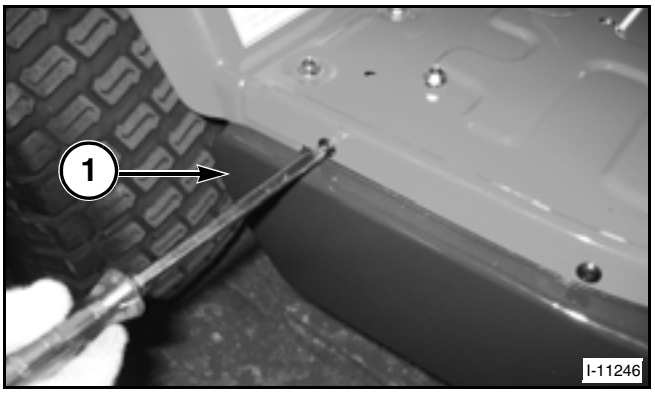

FIG. 9

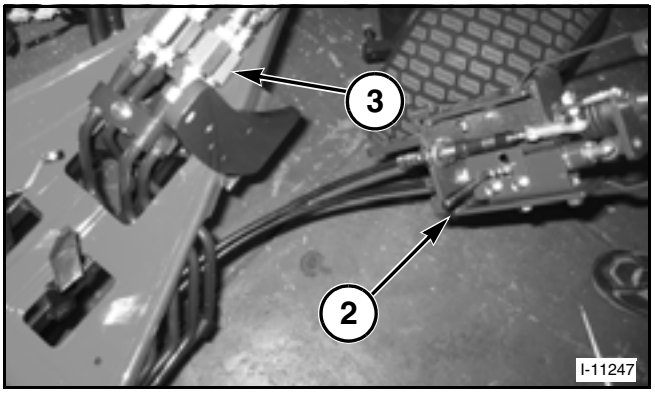

FIG. 10

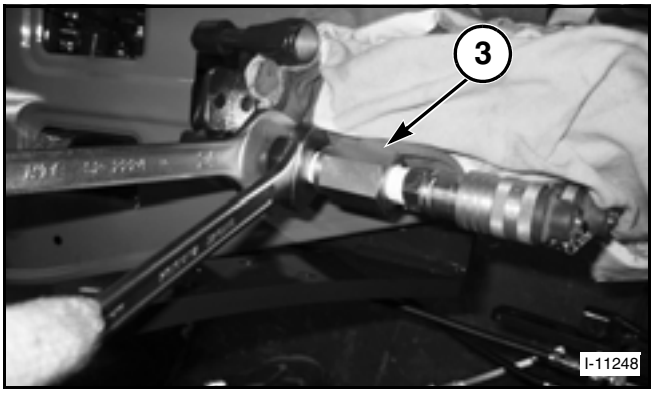

FIG. 11

FIG. 12: Remove the cutting height knob (1).

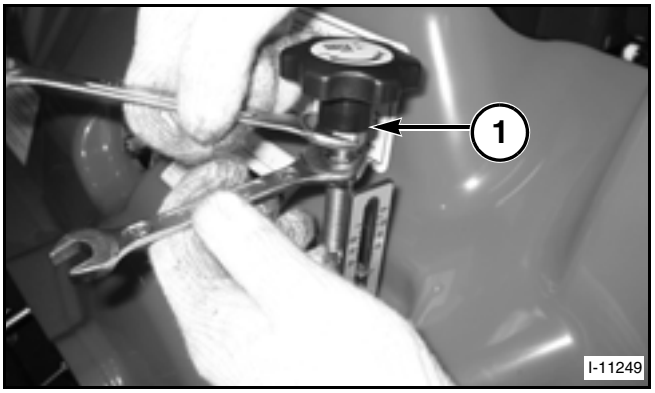

FIG. 12

FIG. 13: Remove the screw retaining the slow return knob (1).

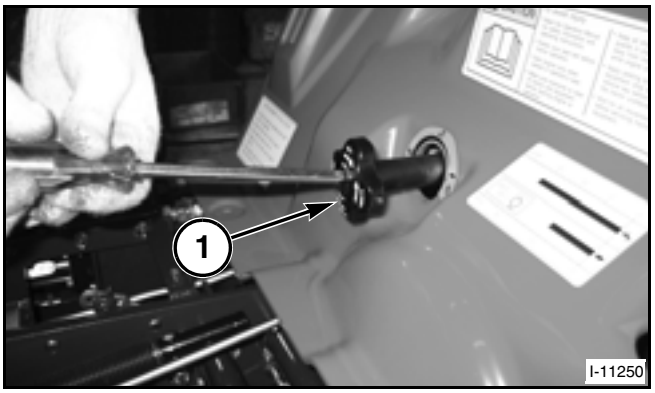

FIG. 13

FIGS. 14–15: Remove the floor mat and remove the bolts (1) retaining the foot platform to frame. Remove the platform carefully.

NOTE: Squezze and push upwards on the bottom of the floor mat rivets to remove them.

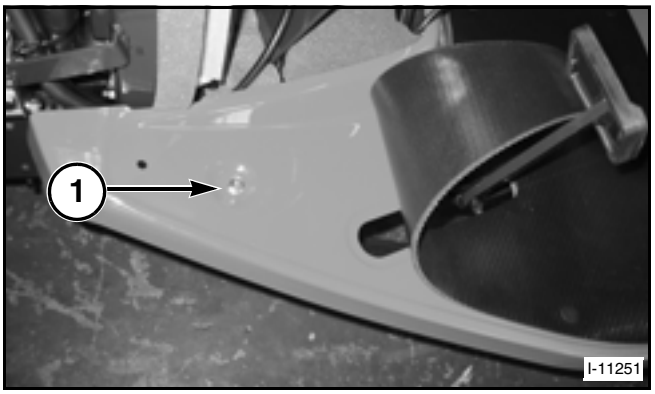

FIG. 14

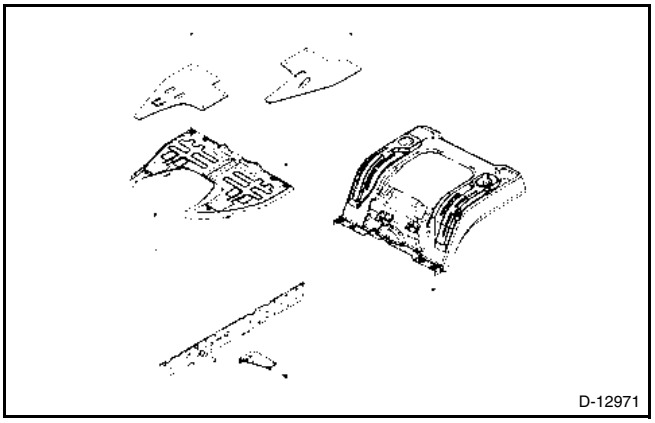

FIG. 15

FIG. 16: Disconnect the wire harness for the seat switch located under the seat.

Remove the hinge pin at the front of the seat and remove the seat.

FIG. 16

FIG. 17: Remove the knobs from the levers located on fenders.

FIG. 17

FIGS. 18–19: Remove the fenders.

Unplug the wire harness going to the rear lights. Unclamp the wire harness retainer on the rear fender assembly.

FIG. 18

FIG. 19

Assembly

Install in reverse order of removal. Make sure no fuel lines or wire harnesses are pinched.

REMOVAL AND INSTALLATION OF SEAT

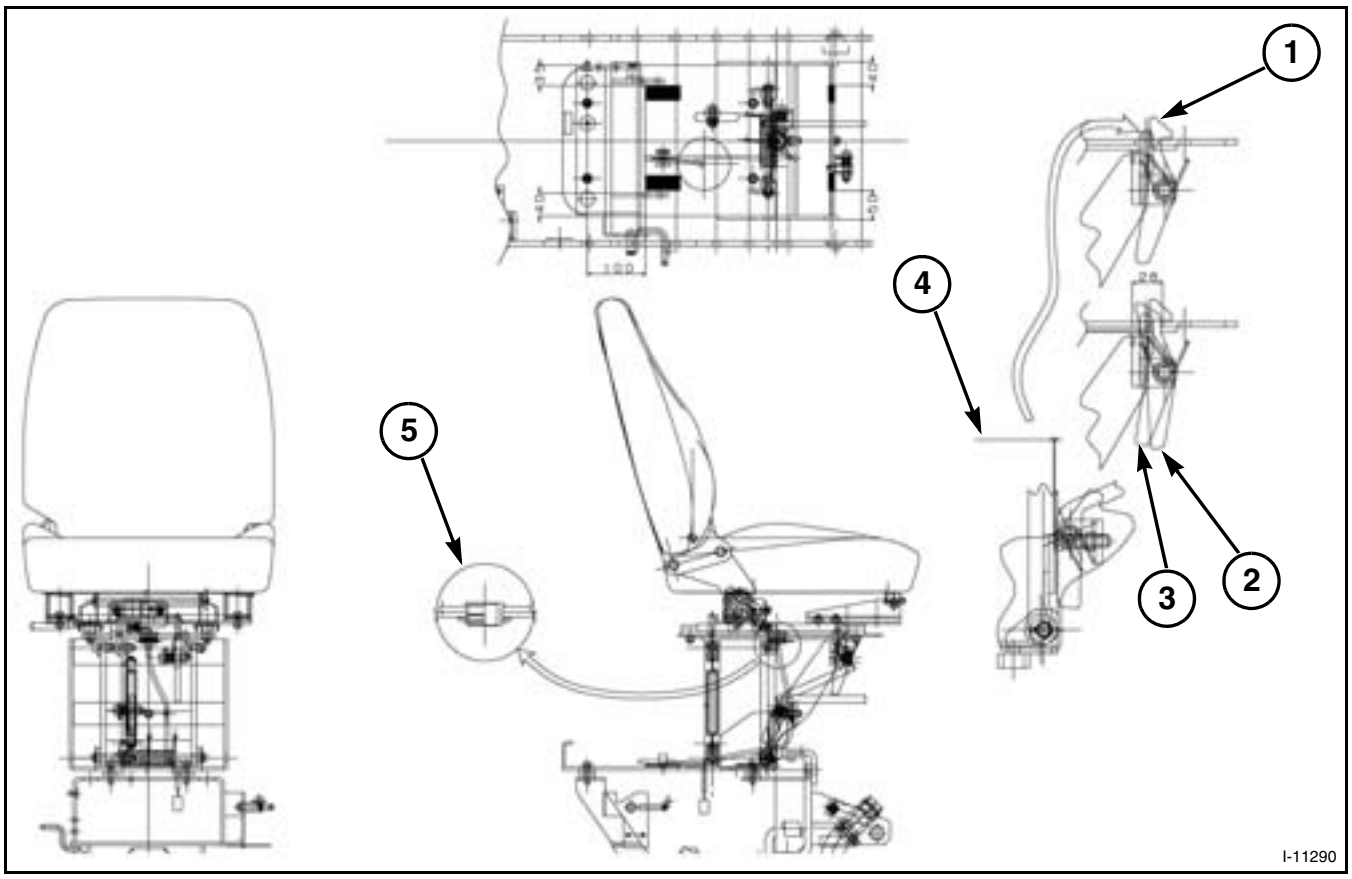

FIG. 20

FIG. 20: View of the GC2410 / GC2610 seat.

(1) Make sure guide pin goes thru hole.

(2) Unlatched position.

(3) Latched position.

(4) Stopper Adjustment 1 mm (.034 in).

(5) Apply Grease.