

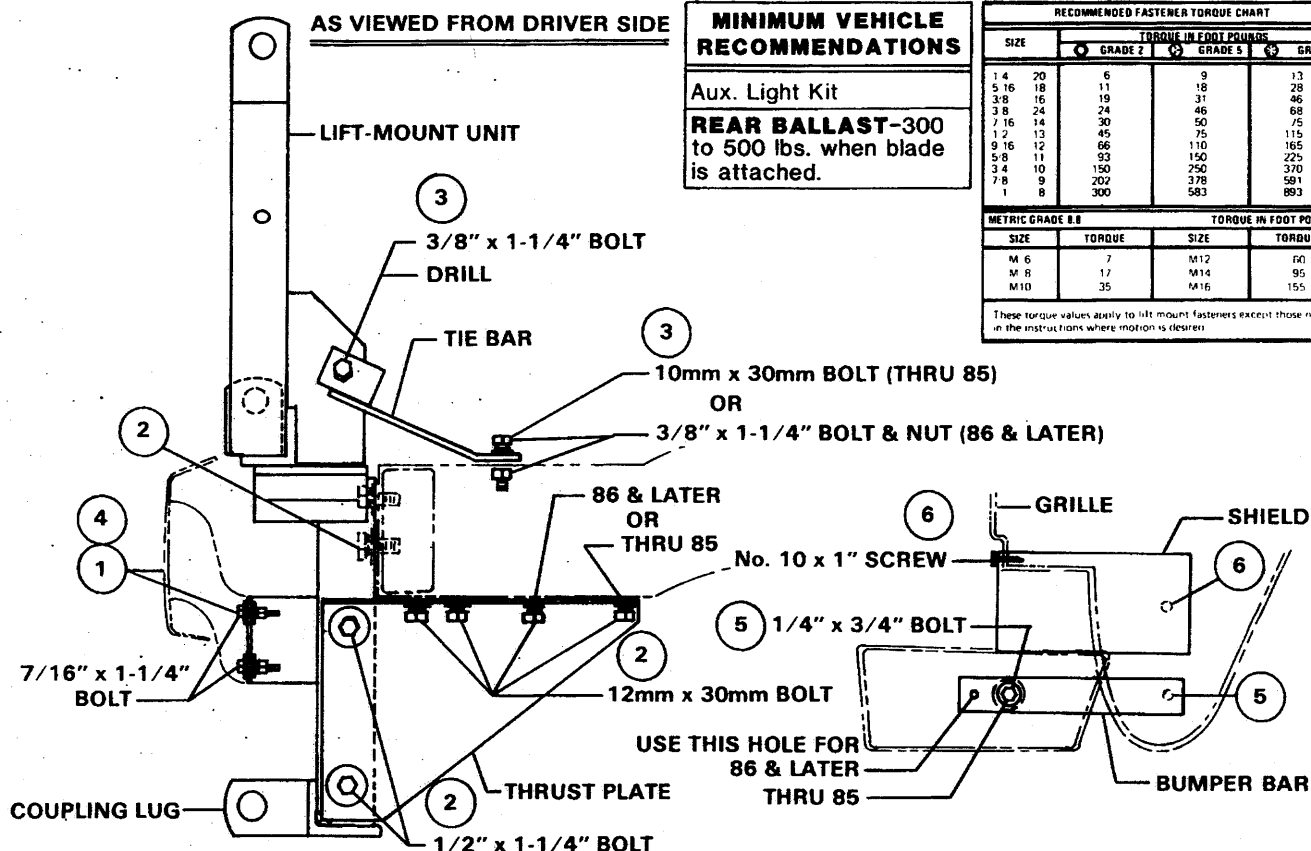


**WESTERN PRODUCTS**  
7777 NORTH 73RD STREET  
P.O. BOX 23045  
MILWAUKEE, WISCONSIN 53223

**DD** A DIVISION OF DOUGLAS DYNAMICS, INC.

Box No. 60560  
Model No. 2340  
Toyota 4WD Pickup  
1984 & Later

## INSTALLATION INSTRUCTIONS



### MINIMUM VEHICLE RECOMMENDATIONS

Aux. Light Kit

**REAR BALLAST-300**  
to 500 lbs. when blade  
is attached.

RECOMMENDED FASTENER TORQUE CHART				
SIZE	TORQUE IN FOOT POUNDS			
	GRADE 2	GRADE 5	GRADE 8	GRADE 10
1/4	20	6	9	13
5/16	18	11	18	28
3/8	16	19	31	46
7/16	14	24	46	68
1/2	13	30	50	75
9/16	12	45	75	115
5/8	11	66	110	165
3/4	10	93	150	225
7/8	9	150	250	370
1	8	202	378	591
		300	583	893
METRIC GRADE 8.8				
TORQUE		TORQUE IN FOOT POUNDS		
SIZE	TORQUE	SIZE	TORQUE	
M 6	7	M12	70	
M 8	17	M14	95	
M10	35	M16	155	

These torque values apply to lift mount fasteners except those noted in the instructions where motion is desired.

**IMPORTANT:** Read instructions before assembling. Bolts should be finger tight until Step 2 is completed to allow sufficient adjustment for aligning holes and locating parts to vehicle frame. Preventive maintenance can prevent accidents. Regularly inspect all components and repair or replace any worn, loose or damaged parts immediately. Remember to use standard methods and practices when attaching snowplow including wearing safety glasses during drilling.

### LIFT-MOUNT ASSEMBLY

**THRU 1985** (SEE PAGE TWO OF THESE INSTRUCTIONS FOR 1986 AND LATER INSTRUCTIONS.)

1. Remove narrow body sheet metal panel from below bumper. Disconnect turn lights at plug behind bumper and remove bumper with brackets intact. Remove tow hook and splash pan (below engine). Retain body panel, tow hook and splash pan and reinstall whenever lift-mount is removed from vehicle.
2. Attach thrust plates to underside of frame horn using furnished 12mm x 30mm bolts, 1/2" lock washers and 7/16" flat washers into frame weldnuts (second from rear hole on thrust plate not used). Attach lift-mount unit to thrust plates using furnished 1/2" x 1-1/4" bolts, flat washers to plates and locknuts. Secure vertical legs of lift-mount to front crossmember weldnuts using existing bumper bracket fasteners.

### TIGHTEN ALL BOLTS TO CORRESPONDING TORQUE VALUES NOTED IN FASTENER TORQUE CHART.

3. Attach formed end of tie bars using furnished 10mm x 30mm bolts, 10mm lock washers and 3/8" flat washers into existing weldnuts in top of frame rail adjacent to radiator. Tighten securely while keeping tie bar flag tight against lift-mount support bar. Using hole in tie bar flag as a guide, drill 3/8" hole through support bar and secure using furnished 3/8" x 1-1/4" bolt and locknut.
4. Securely fasten bumper brackets to lift-mount stools using furnished 7/16" x 1-1/4" bolts, flat washers to brackets and stools, and locknuts. Reconnect turn lights.
5. Attach bumper bar per inset above to outboard end of bumper using furnished 1/4" x 3/4" bolt, flat washer and locknut. Secure other end of bumper bar using existing fastener into the narrow body panel attaching tab.
6. Attach furnished shields to bumper end attaching holes using existing fasteners. Wrap shield around front of body below headlamps and drill 1/8" hole through shield and lower flange of grille. Secure using furnished No. 10 x 1" sheet metal screws. **NOTE:** If auxiliary headlamps are to be used **DO NOT** install shields until lights have been installed.

**LIGHT KIT ASSEMBLY — USE LOW-PROFILE LIGHT KIT ASSEMBLY FOR IMPORT VEHICLES — BOX NO. 60502.**

**DO NOT** drill instrument panel for mounting the headlamp toggle switch.

Box No. 60560  
Model No. 2340  
Toyota 4WD Pickup  
1984 & Later

## INSTALLATION INSTRUCTIONS

### MINIMUM VEHICLE RECOMMENDATIONS

Aux. Light Kit

**REAR BALLAST-300**  
to 500 lbs. when blade  
is attached.

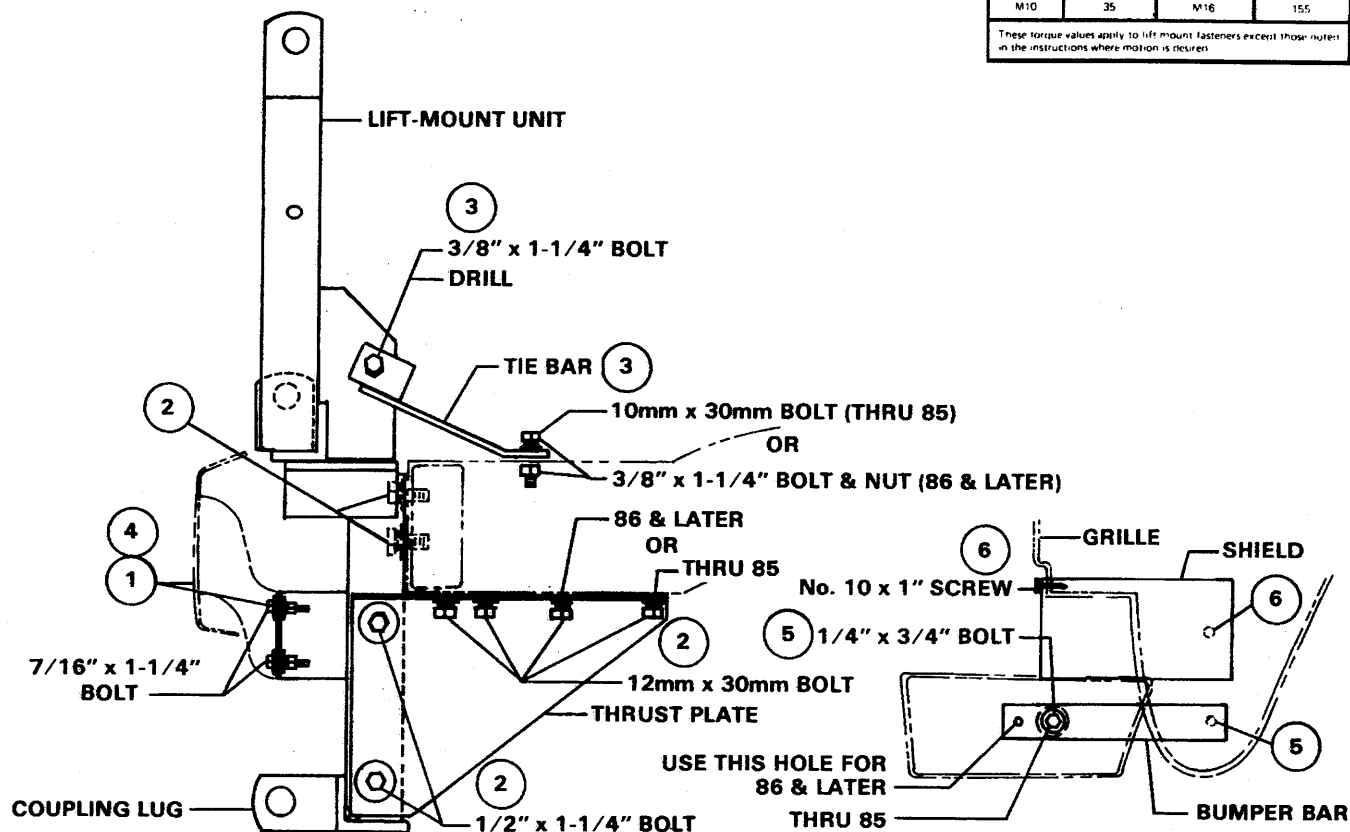
RECOMMENDED FASTENER TORQUE CHART				
SIZE	TORQUE IN FOOT POUNDS			
	GRADE 2	GRADE 5	GRADE 8	GRADE 9
1/4	20	6	9	13
5/16	18	11	18	28
3/8	16	19	31	46
7/16	24	24	46	68
1/2	14	30	50	75
5/8	13	45	75	115
3/4	12	56	110	165
7/8	11	93	150	225
1	10	150	250	370
	9	202	378	561
	8	300	583	883

METRIC GRADE 8.8		TORQUE IN FOOT POUNDS	
SIZE	TORQUE	SIZE	TORQUE
M 6	7	M12	60
M 8	17	M14	95
M10	35	M16	155

These torque values apply to lift mount fasteners except those noted in the instructions where motion is desired.

AS VIEWED FROM DRIVER SIDE



**IMPORTANT:** Read instructions before assembling. Bolts should be finger tight until Step 2 is completed to allow sufficient adjustment for aligning holes and locating parts to vehicle frame. Preventive maintenance can prevent accidents. Regularly inspect all components and repair or replace any worn, loose or damaged parts immediately. Remember to use standard methods and practices when attaching snowplow including wearing safety glasses during drilling.

### LIFT-MOUNT ASSEMBLY

**1986 AND LATER** (SEE PAGE ONE OF THESE INSTRUCTIONS FOR 1985 AND EARLIER INSTRUCTIONS.)

1. Disconnect turn lights at plug behind bumper and remove bumper with brackets intact. Remove tow hook and tie down bracket. (DO NOT remove splash pan.) Retain tow hook and reinstall whenever lift-mount is removed from vehicle.
2. Attach thrust plates to underside of frame horn using furnished 12mm x 30mm bolts, 1/2" lock washers and 7/16" flat washers into weldnuts (rear hole in plate not used). Attach lift-mount unit to thrust plates using furnished 1/2" x 1-1/4" bolts, flat washers to plates and locknuts. Secure vertical legs of lift-mount to front crossmember weldnuts using existing bumper bracket fasteners.

### TIGHTEN ALL BOLTS TO CORRESPONDING TORQUE VALUES NOTED IN FASTENER TORQUE CHART.

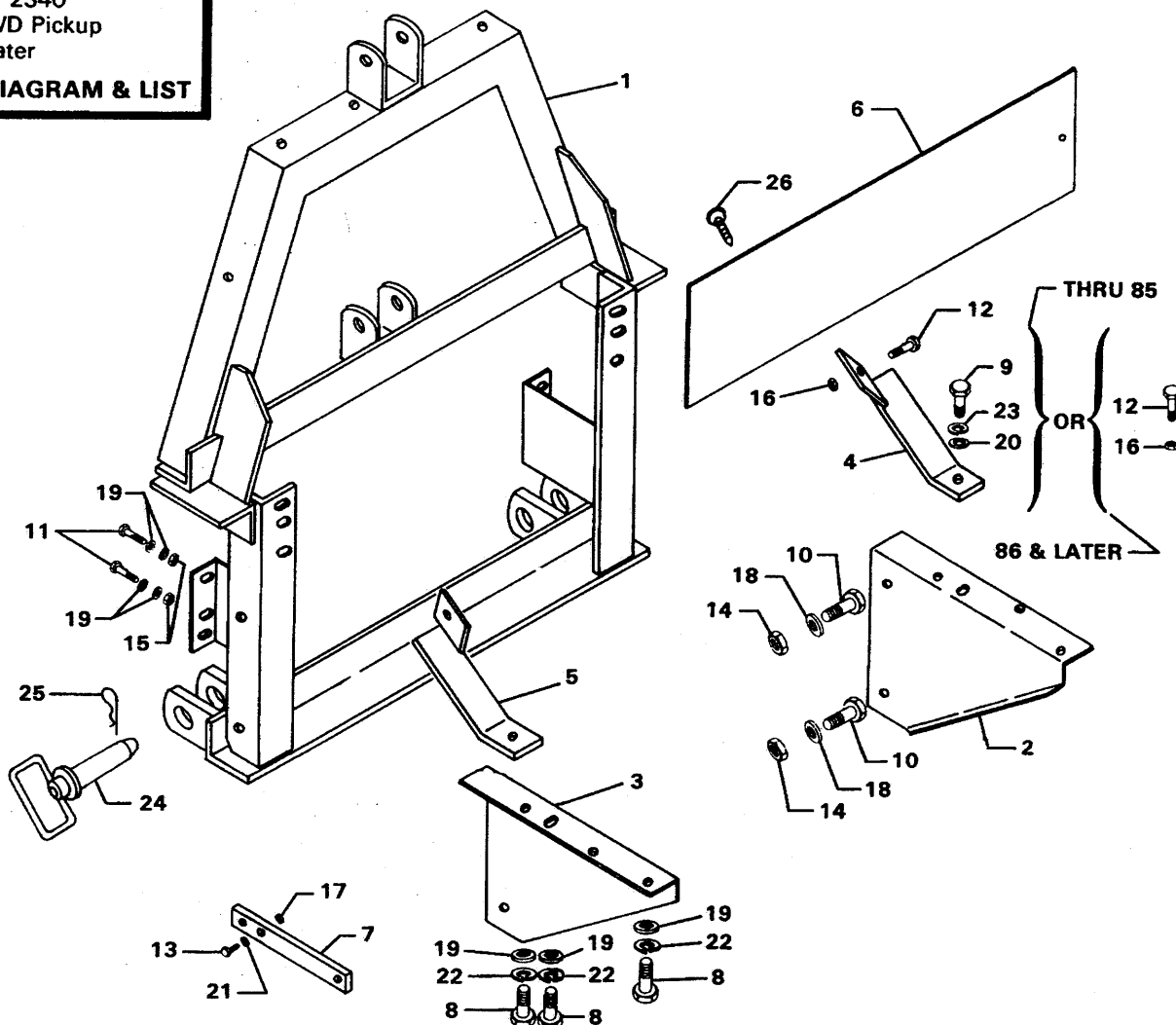
3. Attach formed end of tie bars using furnished 3/8" x 1-1/4" bolt and locknut to rear hole (unthreaded) in body mounting bracket on top of frame adjacent to radiator. Tighten securely while keeping tie bar flag against lift-mount support bar. Using hole in tie bar flag as a guide, drill 3/8" hole through support bar and secure using furnished 3/8" x 1-1/4" bolt and locknut.
4. Securely fasten bumper brackets to lift-mount stools using furnished 7/16" x 1-1/4" bolts, flat washers to brackets and stools, and locknuts. Reconnect turn lights.
5. Attach bumper bar per inset above to bumper using furnished 1/4" x 3/4" bolt, flat washer and locknut. Secure other end of bumper bar using existing fastener to body panel attaching tab.
6. Furnished shields — Customize to suit vehicle.

**LIGHT KIT ASSEMBLY — USE LOW-PROFILE LIGHT KIT ASSEMBLY FOR IMPORT VEHICLES — BOX NO. 60502.**

**DO NOT** drill instrument panel for mounting the toggle switch.

Box No. 60560  
 Model No. 2340  
 Toyota 4WD Pickup  
 1984 & Later

# **PARTS DIAGRAM & LIST**



3309-8510

3310-8510

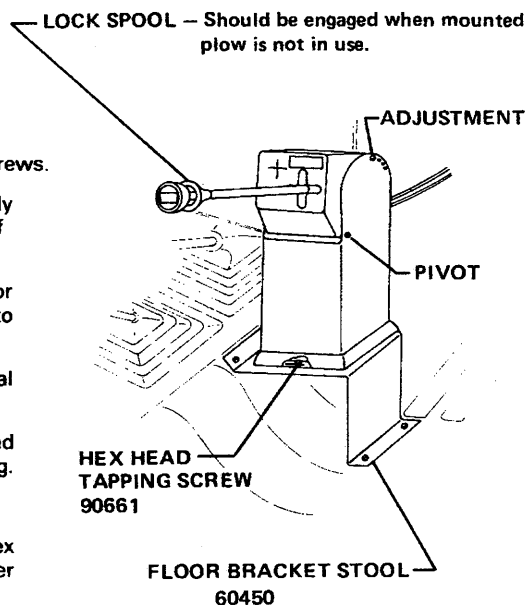
Item	Part No.	Quantity	Description
1	60436	1	Lift-Mount Unit
2	60442	1	Thrust Plate — Curb Side
3	60443	1	Thrust Plate — Driver Side
4	60444	1	Tie Bar Unit — Curb Side
5	60445	1	Tie Bar Unit — Driver Side
6	60448	2	Shield
7	60453	2	Bumper Bar
8	95071	6	Capscrew — 12mm -1.25 x 30mm Long — Grade 8.8
9	95050	2	Capscrew — 10mm - 1.25 x 30mm Long — Grade 8.8
10	90099	4	Capscrew — 1/2"-13 x 1-1/4" Long — Grade 5
11	90066	4	Capscrew — 7/16"-14 x 1-1/4" Long — Grade 5
12	90040	4	Capscrew — 3/8"-16 x 1-1/4" Long — Grade 5
13	90002	2	Capscrew — 1/4"-20 x 3/4" Long
14	91335	4	Locknut — 1/2"-13 Nylon Insert Type
15	91334	4	Locknut — 7/16"-14 Nylon Insert Type
16	91333	4	Locknut — 3/8"-16 Nylon Insert Type
17	91331	2	Locknut — 1/4"-20 Nylon Insert Type
18		4	Flat Washer — 1/2"
19		14	Flat Washer — 7/16"
20		2	Flat Washer — 3/8"
21		2	Flat Washer — 1/4"
22		6	Lock Washer — 1/2"
23	95173	2	Lock Washer — 10mm
24	93028	2	Hitch Pin — 1" x 3-1/2" Long
25	91965	2	Hairpin Cotter — 5/32" x 2-15/16" O/A Length
26		2	Tapping Screw — No. 10 x 1"

**NOTE:** Only those items indicated with a **PART NUMBER** are available for service.

## INSTALLATION INSTRUCTIONS

For — Illa Control  
Toyota 4WD Pickup  
1984 & Later

1. Secure floor bracket to stool, using 3-No. 10 x 3/8" long hex head tapping screws.
2. Move seat to completely forward position. Locate floor bracket and stool assembly next to tunnel with floor bracket against forward edge of seat and mark location of four (4) mounting holes.
3. **NOTE:** Before drilling — remove speedometer cable from bracket under floor panel. Drill two (2) 9/64" diameter holes into floor and two (2) 9/64" holes into tunnel. **DO NOT** drill into plastic collar surrounding shift levers.
4. Remove floor bracket from stool. Install stool using four (4) No. 10 x 1" sheet metal screws and lock washers.
5. Install floor bracket on top of stool using three (3) No. 10 x 3/8" long hex head tapping screws. Rotate to desired position towards drivers seat before tightening.
6. Slide rubber boot into position over top of floor bracket.
7. Assemble the Illa Control to the floor bracket using four (4) No. 8 x 5/8" long hex head screws, passing control cables through the passenger side firewall (drill per Hydraulic System Instructions).
8. Reinstall speedometer cable into mounting bracket (removed in Step 3).



3311-8510

## INSTALLATION INSTRUCTIONS FOR 59700 BLADE GUIDE ASSEMBLY

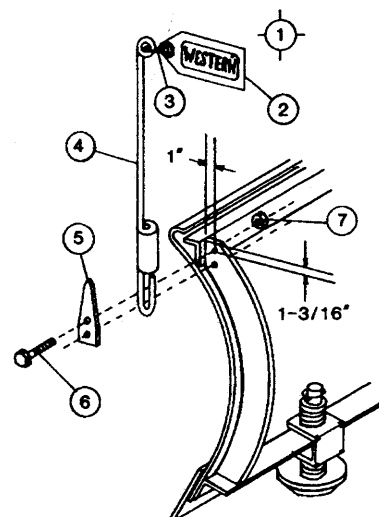
The following instructions simply outline the attachment of this blade guide assembly.

- Step 1. Lower blade to ground level.
- Step 2. If hole is not pre-drilled, drill one 11/32" hole, 1-3/16" down and 1" out on the outside rib of the blade. See diagram below.
- Step 3. Insert pointed end of clamp into coil of guide. Attach guide to rib using top hole of clamp. Secure assembly using supplied 5/16" x 1" bolt and locknut. Tighten until guide will stand alone perpendicular to road surface.
- Step 4. If hole is not pre-drilled, use lower hole of clamp as locator, drill bottom hole 11/32".
- Step 5. Bolt lower hole in place. Finish securing top bolt.
- Step 6. Attach other side following above steps.

Pictorial view supplied below. Remember to use standard methods and practices in attaching blade guides including wearing safety glasses during drilling.

### PARTS LIST 59700 — BLADE GUIDE ASSEMBLY

Item	Part No	Quan.	Description
1	59697	2	Blade Guide Rod, S-Hook & Flag
2	59694	1	Flag
3	59696	1	S-Hook
4	59691	1	Blade Guide Rod
5	59946	2	Clamp
6		4	Capscrew — 5/16"-18 x 1" Gr.2
7		4	Locknut - 5/16"-18 Nylon Insert



3009-7911

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